UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Analytical results and sample locality map of stream-sediment and heavy-mineral-concentrate samples from the Circle quadrangle, Alaska

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STUDIES RELATED TO AMRAP

The U.S. Geological Survey, is required by the Alaskan National Interests Lands Conservation Act (Public Law 96-487, 1980), to survey certain Federal lands to determine their mineral values, if any. Results from the Alaskan Mineral Resource Assessment 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 the Circle quadrangle, Alaska.

INTRODUCTION

In 1979 and 1980, the U.S. Geological Survey conducted a reconnaissance geochemical survey of the Circle quadrangle, Alaska.

The Circle quadrangle comprises about 6,090 mi^2 (15,800 km^2) in east-central Alaska, and lies about 47 mi (75 km) northeast of Fairbanks (see figure 1). Access to the study area is provided on the west by the Steese Highway. Access within the Circle quadrangle to the sample sites was provided by helicopter with the exception of a few sites that were accessible by vehicle from the Steese Highway.

The geology of the Circle quadrangle is divided into three general areas: the largest is a complexly deformed, regionally metamorphosed terrane of mostly quartzitic and pelitic rocks south of the Tintina fault zone; the second is the area north of the Tintina fault zone which consists mostly of folded Proterozoic(?) and(or) Paleozoic sedimentary rocks which are slightly metamorphosed. These sedimentary rocks are in probable thrust contact with mafic igneous rocks and associated chert of late Paleozoic and early Mesozoic age. Minor clastic deposits of probable Tertiary age occur in topographically low areas north of the southern margin of the Tintina fault zone. The third area consists of the northwestern part of the quadrangle and is comprised of folded and slightly metamorphosed Precambrian(?) and(or) Paleozoic sedimentary rocks, Mesozoic clastic rocks, and tuffs and tuffaceous sedimentary rocks of Paleozoic and(or) Mesozoic age.

The area south of the Tintina fault zone and the northwestern part of the quadrangle are intruded by granitic plutons which post-date regional metamorphism and associated deformation. The intrusions are composite and dominantly of peraluminous biotite granite. All three parts of the quadrangle have minor mafic and ultramafic rocks. The ultramafic rocks are mostly in fault contact with adjacent rocks.

The geologic setting of the Circle quadrangle, especially where the post-orogenic plutons have intruded the regionally metamorphosed rocks, is favorable for tin vein/greisen deposits, tungsten skarn deposits, lode gold deposits with associated placers, and uranium deposits hosted by peraluminous granites.

The topography south of the Tintina fault zone is mostly low to moderate mountainous relief with the average relief of 2,000 ft (610 m) and a maximum elevation of 5,286 ft (1,612 m, Mt. Prindle). North of the Tintina fault zone, the relief is predominantly lowland marshes with "islands" of low relief mountains up to maximum elevation of 3,728 ft (1,137 m, VABM craz, in the Crazy Mountains).

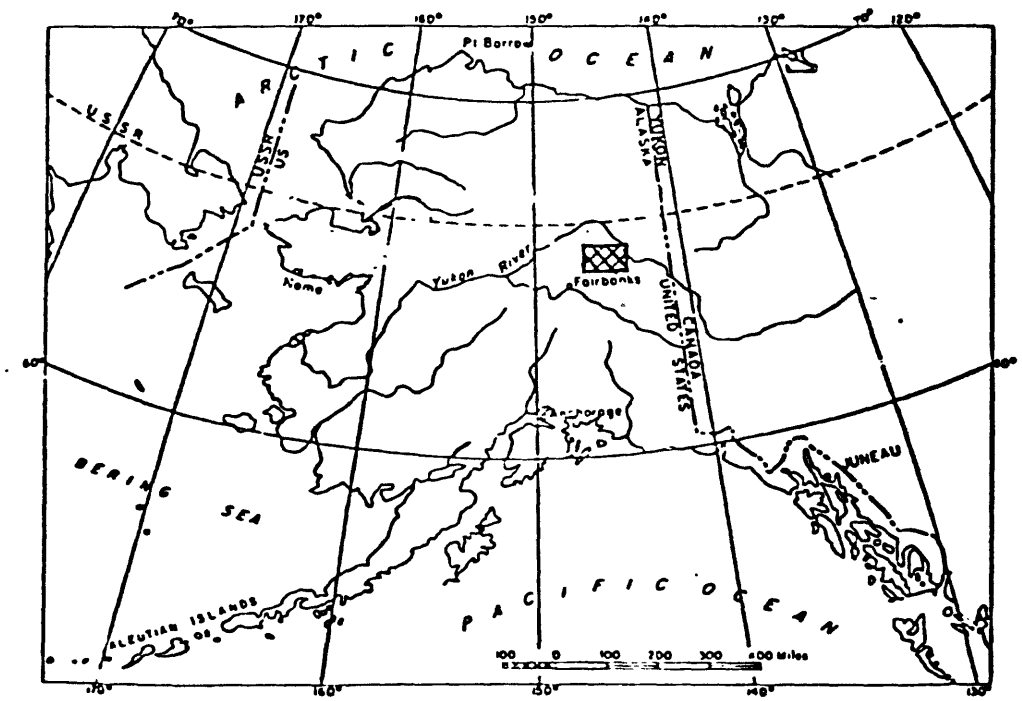

Figure 1. Location map of the Circle quadrangle, Alaska.

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 certain minerals in rock material eroded from the drainage basin upstream from each sample site. The selective concentration of minerals, many of which may be ore-related, permits determination of some elements that are not easily detected in stream-sediment samples.

Sample Collection

Samples were collected at 861 sites (plate 1). At nearly all of those sites, both a stream-sediment sample and a heavy-mineral-concentrate sample were collected. Sampling density was about 1 sample site per 6 mi^2 for the stream sediments and heavy-mineral concentrates. The area of the drainage basins sampled ranged from 2 mi^2 to 8 mi^2.

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). Each sample was composited from several localities within an area that may extend as much as 20 ft from the site plotted on the map.

Heavy-mineral-concentrate samples

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

Sample Preparation

The stream sediment samples were air dried, then sieved using 80 mesh (0.17 mm) stainless steel sieves. The portion of the sediment passing through the sieve was pulverized to at least minus-100 mesh and saved for analysis.

After air drying, bromoform (specific gravity 2.8) was used to remove the remaining quartz and feldspar from the heavy-mineral-concentrate samples that had been panned in the field. The resultant heavy mineral sample was separated into three fractions using a large electromagnet (in this case a modified Frantz Isodynamic Separator). The most magnetic material, primarily magnetite, was not analyzed. The second fraction, largely ferromagnesian silicates and iron oxides, was saved for archival storage. The third fraction (the least magnetic material which may include the nonmagnetic ore minerals, zircon, sphene, etc.) was split using a Jones splitter. One split was hand-ground for spectrographic analysis; the other split was saved for mineralogical analysis. These magnetic separates are the same separates that

would be produced by using a Frantz Isodynamic Separator set at a slope of 15° and a tilt of 10° with a current of 0.1 ampere to remove the magnetite and ilmenite, and a current of 1.0 ampere to split the remainder of the sample into paramagnetic 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 Circle quadrangle are listed in Tables 3 and 4.

Chemical Methods

Other methods of analysis used on stream-sediment samples from the Circle quadrangle are summarized in Table 2. Analytical results for the stream-sediment samples are listed in Table 3.

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, 1977).

DESCRIPTION OF DATA TABLES

Tables 3 and 4 list the analyses for the samples of stream sediment and heavy-mineral concentrate, respectively. For the two tables, the data are arranged so that column 1 contains the USGS-assigned sample numbers. These numbers correspond to the numbers shown on the site location map (plate 1), however, the prefix "CI" and the suffix "s" or "c" were not included on the map. Columns in which the element headings show the letter "s" below the element symbol are emission spectrographic analyses; "aa" indicates atomic absorption analyses; and "inst" indicates fluorimetric 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.

The spectrographic determinations for Au and Sb in stream-sediment samples were all below the lower limits of determinations shown in Table 1; consequently, the columns for these elements have been deleted from Table 3.

REFERENCES CITED

Centanni, F. A., Ross, A. M., and DeSesa, M. A., 1956, Fluorometric determination of uranium: Analytical Chemistry, v. 28, p. 1651.

Grimes, D. J., and Marranzino, A. P., 1968, Direct-current arc and alternating-current spark emission spectrographic field methods for the semiquantitative analysis of geologic materials: U.S. Geological Survey Circular 591, 6 p.

Motooka, J. M., and Grimes, D. J., 1976, Analytical precision of one-sixth order semiquantitative spectrographic analyses: U.S. Geological Survey Circular 738, 25 p.

Thompson, C. E., Nakagawa, H. M., and Van Sickle, G. H., 1968, Rapid analysis for gold in geologic materials, in Geological Survey research 1968: U.S. Geological Survey Professional Paper 600-B, p. B130-B132.

VanTrump, George, Jr., and Miesch, A. T., 1977, The U.S. Geological Survey RASS-STATPAC system for management and statistical reduction of geochemical data: Computers and Geosciences, v. 3, p. 475-488.

Ward, F. N., Nakagawa, H. M., Harms, T. F., and Van Sickle, G. H., 1969, Atomic-absorption methods useful in geochemical exploration: U.S. Geological Survey Bulletin 1289, 45 p.

TABLE 1.--Limits of determination for the spectrographic analysis of 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 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 (Cd)	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

[AA = atomic absorption; and F = fluorometry]

Element or constituent determined	Sample Type	Method	Determination limit (micrograms/ gram or ppm)	Analyst	Reference
Gold (Au)	stream sediments	AA	0.05	R. O'Leary A. Gruzensky	Thompson and others, 1968.
Zinc (Zn)	do	AA	5	do	Ward and others, 1969.
Uranium (U)	do	F	0.05	do	Modification of Centanni and others, 1956.

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska

[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	B-ppm S	Ba-ppm S	Be-ppm S
CI001S	65 47 22	144 5 0	7.0	1.50	1.50	>1.00	300	N	N	70	500	1.0
CI002S	65 42 58	144 17 0	10.0	1.50	1.00	1.00	1,500	N	N	100	500	<1.0
CI003S	65 41 30	144 23 31	10.0	1.50	1.00	1.00	700	N	N	70	500	1.0
CI004S	65 37 57	144 27 10	10.0	1.50	.70	1.00	500	N	N	70	500	1.0
CI005S	65 37 8	144 29 13	10.0	1.50	.70	1.00	300	N	N	70	500	1.0
CI006S	65 36 25	144 33 21	7.0	1.50	1.00	>1.00	700	N	N	50	500	1.0
CI007S	65 35 42	144 42 12	10.0	1.50	1.00	1.00	500	N	N	70	700	1.0
CI008S	65 34 8	144 52 57	5.0	.70	.20	>1.00	500	N	N	100	200	1.0
CI009S	65 33 22	144 47 46	10.0	1.00	.70	>1.00	500	N	N	50	300	<1.0
CI010S	65 32 18	144 45 43	10.0	2.00	1.00	>1.00	500	N	N	70	500	1.0
CI011S	65 31 24	144 43 36	7.0	1.50	.50	>1.00	1,000	N	N	50	200	1.0
CI012S	65 31 12	144 42 56	10.0	1.00	.50	.70	500	N	N	N	300	1.0
CI013S	65 30 49	144 40 54	100.0	1.50	1.00	1.00	500	N	N	70	500	1.5
CI015S	65 32 38	145 9 11	10.0	1.50	.30	>1.00	300	N	N	50	300	1.0
CI016S	65 33 10	145 5 4	10.0	1.50	.30	1.00	500	N	N	70	500	1.0
CI017S	65 32 59	145 10 10	10.0	1.50	.50	>1.00	500	N	N	100	300	<1.0
CI018S	65 33 30	145 1 31	10.0	1.50	.20	1.00	500	N	N	100	500	1.0
CI019S	65 24 39	145 53 55	15.0	3.00	1.00	>1.00	1,000	N	N	100	200	<1.0
CI020S	65 25 2	145 52 52	15.0	3.00	.70	>1.00	1,000	N	N	100	200	<1.0
CI021S	65 24 12	145 43 55	20.0	2.00	2.00	>1.00	3,000	N	N	100	150	<1.0
CI022S	65 24 33	145 40 34	10.0	1.50	.70	1.00	700	N	N	70	300	1.0
CI023S	65 24 46	145 37 7	15.0	2.00	.50	1.00	700	N	N	70	500	1.0
CI024S	65 26 35	145 30 55	7.0	1.00	.20	>1.00	500	N	N	100	300	1.0
CI025S	65 21 48	146 5 22	15.0	2.00	.50	1.00	500	N	N	70	500	1.0
CI026S	65 21 20	146 9 22	15.0	1.50	.70	1.00	1,000	N	N	100	300	1.0
CI027S	65 17 43	146 22 36	15.0	2.00	.20	1.00	1,000	N	N	70	500	1.0
CI028S	65 17 44	146 32 48	10.0	1.50	.70	1.00	300	N	N	50	300	1.0
CI029S	65 16 44	146 38 38	15.0	2.00	1.00	>1.00	700	.7	N	50	200	<1.0
CI030S	65 16 15	146 43 39	15.0	2.00	1.00	>1.00	700	N	N	70	300	1.0
CI031S	65 14 37	146 49 20	15.0	2.00	1.50	>1.00	2,000	N	N	100	100	<1.0
CI032S	65 13 54	146 56 8	10.0	2.00	1.00	>1.00	300	<.5	N	100	500	<1.0
CI033S	65 13 58	146 52 33	10.0	1.50	.70	1.00	500	N	N	100	300	1.0
CI034S	65 25 20	145 33 40	15.0	2.00	.50	>1.00	2,000	N	N	100	500	1.0
CI035S	65 25 5	145 33 56	15.0	1.50	.30	>1.00	700	<.5	N	200	300	1.0
CI037S	65 17 28	146 28 58	15.0	3.00	.30	>1.00	700	N	N	70	500	1.0
CI038S	65 25 40	145 34 1	10.0	1.50	.20	1.00	500	N	N	100	300	1.0
CI039S	65 5 6	144 45 15	5.0	.70	.70	.50	700	N	N	100	1,000	2.0
CI040S	65 4 35	144 45 26	7.0	2.00	3.00	.50	700	N	N	100	3,000	3.0
CI041S	65 4 6	144 50 12	7.0	2.00	3.00	.70	700	N	N	150	2,000	2.0
CI042S	65 5 3	144 48 54	2.0	.30	.20	.20	700	N	N	200	700	3.0
CI043S	65 3 44	144 51 35	5.0	1.50	1.50	.50	700	N	N	200	1,500	2.0
CI044S	65 1 33	144 55 24	5.0	1.00	1.00	.30	1,000	.5	N	300	700	2.0
CI045S	65 1 49	144 54 26	5.0	2.00	2.00	.70	1,500	<.5	N	150	1,000	3.0
CI046S	65 6 20	144 53 59	3.0	.70	.30	.30	700	N	N	300	700	7.0
CI047S	65 5 47	144 53 40	5.0	1.00	.20	.70	700	.5	N	300	1,000	3.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	Sc-ppm S	Sn-ppm S
CI001S	N	N	10	150	15	50	N	<20	50	15	15	N
CI002S	N	N	15	70	15	20	N	N	50	10	10	N
CI003S	N	N	10	100	20	20	N	N	100	15	10	N
CI004S	N	N	10	70	15	30	N	<20	50	20	15	N
CI005S	N	N	15	100	20	30	N	<20	100	70	15	N
CI006S	N	N	7	70	20	20	N	N	30	15	15	N
CI007S	N	N	10	100	50	20	N	<20	70	20	15	N
CI008S	N	N	7	50	10	70	N	<20	30	20	10	N
CI009S	N	N	7	50	10	20	N	<20	30	15	15	N
CI010S	N	N	15	150	50	70	N	<20	70	50	15	N
CI011S	N	N	15	70	20	<20	N	20	50	20	15	20
CI012S	N	N	10	50	10	30	N	<20	30	50	10	10
CI013S	N	N	10	100	15	30	N	<20	50	20	15	<10
CI015S	N	N	10	70	15	50	N	<20	50	20	15	N
CI016S	N	N	10	100	15	100	N	<20	50	50	15	N
CI017S	N	N	15	100	30	50	N	N	70	30	15	N
CI018S	N	N	15	100	20	50	N	<20	50	70	15	N
CI019S	N	N	30	150	150	20	N	<20	150	15	20	N
CI020S	N	N	20	100	100	N	N	N	100	20	15	N
CI021S	N	N	15	150	50	N	N	N	50	10	70	N
CI022S	N	N	15	100	50	30	N	N	70	20	15	N
CI023S	N	N	20	150	30	50	N	N	100	30	15	N
CI024S	N	N	10	70	20	20	N	<20	70	20	10	N
CI025S	N	N	20	100	100	50	N	N	100	30	20	N
CI026S	N	N	15	70	30	50	N	N	70	30	20	N
CI027S	N	N	20	100	30	50	N	<20	100	50	15	N
CI028S	N	N	15	70	30	20	N	N	70	15	15	N
CI029S	N	N	20	70	30	<20	N	N	70	20	20	N
CI030S	N	N	20	150	50	20	N	N	70	20	15	N
CI031S	N	N	10	100	15	N	N	N	30	15	30	N
CI032S	N	N	15	150	10	30	N	<20	50	15	15	N
CI033S	N	N	10	70	10	50	N	<20	30	20	15	N
CI034S	N	N	15	70	30	20	N	<20	100	20	15	N
CI035S	N	N	20	100	100	70	N	20	100	50	20	N
CI037S	N	N	30	150	100	30	N	<20	150	30	15	N
CI038S	N	N	15	70	20	20	N	N	50	20	10	N
CI039S	N	N	20	50	30	70	N	<20	30	15	20	N
CI040S	N	N	100	100	50	70	N	30	150	50	30	N
CI041S	N	N	30	150	50	100	N	30	70	30	30	N
CI042S	N	N	15	50	15	50	N	<20	20	10	15	N
CI043S	N	N	30	150	30	100	N	20	70	20	30	N
CI044S	N	N	20	70	30	70	N	20	50	30	20	N
CI045S	N	N	30	100	30	70	N	50	70	15	30	N
CI046S	N	N	20	50	20	100	N	20	30	20	15	N
CI047S	N	N	30	100	50	200	N	20	50	30	20	N

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Zn-ppm aa	U-inst
CI001S	300	300	N	30	N	300	N	N	70	.8
CI002S	200	200	N	30	N	150	N	N	80	.5
CI003S	150	200	N	20	<200	100	N	N	190	.5
CI004S	200	200	N	20	N	200	N	N	100	.5
CI005S	100	300	N	20	N	100	N	N	120	.6
CI006S	200	150	N	30	<200	300	N	.55	90	.5
CI007S	150	200	N	30	N	150	N	N	80	1.0
CI008S	<100	150	N	20	<200	100	N	N	85	1.0
CI009S	100	100	N	30	N	700	N	N	45	.3
CI010S	300	300	N	50	<200	150	N	N	100	1.0
CI011S	100	200	N	50	<200	300	N	.35	110	1.0
CI012S	100	150	N	20	N	200	N	N	75	3.0
CI013S	200	200	N	50	<200	300	N	N	80	13.0
CI015S	<100	200	N	20	<200	100	N	N	80	.5
CI016S	100	200	N	70	<200	100	N	N	85	2.0
CI017S	100	200	N	20	N	300	N	N	80	.7
CI018S	100	200	N	30	<200	200	N	N	85	.6
CI019S	<100	500	N	20	<200	200	N	N	80	.5
CI020S	<100	300	N	20	N	150	N	N	75	.7
CI021S	<100	300	N	100	<200	500	N	N	65	.6
CI022S	150	200	N	30	N	200	N	N	80	1.0
CI023S	100	300	N	30	<200	200	N	N	90	.8
CI024S	<100	150	N	30	N	300	N	N	70	1.0
CI025S	<100	300	N	30	<200	200	N	N	80	1.0
CI026S	<100	200	N	30	<200	100	N	N	95	1.0
CI027S	<100	300	N	20	<200	200	N	N	95	1.0
CI028S	<100	300	N	20	<200	100	N	N	75	1.0
CI029S	<100	300	N	30	<200	500	N	N	65	.6
CI030S	100	500	N	20	N	200	N	N	65	.9
CI031S	<100	300	N	50	N	150	N	N	40	.3
CI032S	150	300	N	20	N	500	N	N	55	.6
CI033S	100	200	N	50	<200	300	N	N	45	.8
CI034S	100	300	N	20	<200	300	N	11.00	75	1.0
CI035S	<100	200	N	50	<200	500	N	.40	100	.9
CI037S	<100	500	N	15	N	200	N	N	90	1.0
CI038S	N	150	N	15	<200	100	N	N	80	.7
CI039S	200	100	N	30	<200	500	N	N	75	.8
CI040S	500	200	N	30	<200	200	N	N	180	1.0
CI041S	500	200	N	30	<200	150	N	N	90	1.0
CI042S	150	70	N	30	N	1,000	N	N	100	.9
CI043S	300	200	N	70	<200	300	N	N	90	1.0
CI044S	200	150	N	30	<200	200	N	N	90	2.0
CI045S	300	150	N	30	<200	300	N	N	100	.8
CI046S	200	100	N	30	N	300	N	N	80	9.0
CI047S	200	150	N	30	N	300	N	N	85	.9

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	B-ppm S	Ba-ppm S	Be-ppm S
CI048S	65 5 33	144 59 15	5.0	1.00	.20	.50	1,000	.5	N	500	700	2.0
CI049S	65 5 9	144 59 54	5.0	1.00	.50	.70	1,000	<.5	N	700	700	3.0
CI050S	65 2 44	145 3 14	3.0	1.00	.70	.70	700	N	N	100	500	2.0
CI051S	65 3 31	145 4 36	5.0	1.00	.20	.70	1,000	N	N	700	700	3.0
CI052S	65 2 24	145 6 33	5.0	2.00	.70	.70	700	N	N	100	1,500	2.0
CI053S	65 2 4	145 9 37	5.0	2.00	.70	.50	700	.5	N	100	2,000	2.0
CI054S	65 3 5	145 11 19	3.0	1.00	.70	.50	700	.5	N	200	1,000	5.0
CI055S	65 2 24	145 12 7	3.0	1.50	.70	.30	500	.5	N	150	3,000	2.0
CI056S	65 2 39	145 17 8	3.0	1.50	.50	.30	500	.5	N	100	>5,000	2.0
CI057S	65 1 51	146 27 53	3.0	.70	.20	.50	700	<.5	N	70	700	1.5
CI058S	65 5 7	146 9 54	3.0	.50	.20	.30	700	N	N	150	700	2.0
CI059S	65 5 14	146 13 19	5.0	.70	.50	.70	1,500	N	N	300	700	1.5
CI060S	65 7 0	146 13 37	3.0	.70	.30	.50	1,000	.5	N	150	1,000	2.0
CI061S	65 9 22	146 11 41	3.0	.70	.30	.50	1,000	N	N	200	700	1.5
CI062S	65 9 36	146 6 25	7.0	1.50	2.00	.70	700	N	N	100	2,000	1.5
CI063S	65 9 10	146 7 3	7.0	1.00	1.50	.50	700	N	N	100	2,000	2.0
CI064S	65 10 59	146 3 23	5.0	1.00	.70	.70	1,000	N	N	50	1,000	2.0
CI065S	65 11 30	146 2 30	5.0	.70	.50	.70	1,000	N	N	100	700	1.5
CI066S	65 12 36	146 3 11	2.0	.30	.10	.50	500	N	N	70	500	2.0
CI067S	65 13 10	146 4 45	3.0	.50	.15	.50	700	N	N	150	500	1.5
CI068S	65 13 31	146 10 18	3.0	.70	.50	.50	700	N	N	100	700	1.0
CI069S	65 11 46	146 10 4	3.0	.70	.30	.50	500	N	N	150	700	1.5
CI070S	65 13 14	146 17 27	5.0	1.00	.70	.70	2,000	N	N	100	1,000	1.5
CI071S	65 12 56	146 16 8	3.0	.50	.20	.30	1,000	N	N	100	700	1.5
CI072S	65 11 36	146 16 10	3.0	.30	.15	.50	700	N	N	100	500	1.5
CI073S	65 10 36	146 17 15	5.0	1.00	.70	.50	1,000	N	N	100	1,500	2.0
CI074S	65 9 53	146 17 9	5.0	1.50	.70	.70	1,000	N	N	100	1,500	1.5
CI075S	65 5 26	146 20 12	5.0	.70	.50	.30	700	N	N	150	1,000	2.0
CI076S	65 5 38	146 19 29	5.0	1.00	.30	.30	700	N	N	150	1,500	2.0
CI077S	65 5 41	146 18 40	10.0	1.50	.70	.50	2,000	.5	N	200	2,000	2.0
CI078S	65 6 29	146 25 2	5.0	1.00	.30	.50	700	<.5	N	150	1,000	1.5
CI079S	65 7 32	146 21 35	5.0	.70	.30	.50	700	<.5	N	100	1,000	1.5
CI080S	65 21 54	146 42 1	5.0	1.00	.30	.50	3,000	N	N	100	1,500	2.0
CI081S	65 25 46	146 37 24	5.0	.70	.15	.50	1,000	N	N	300	700	30.0
CI082S	65 25 33	146 36 59	3.0	.70	.50	.30	1,000	<.5	N	200	1,500	15.0
CI083S	65 32 0	146 38 14	5.0	1.50	.50	.70	1,000	N	N	150	1,000	5.0
CI084S	65 32 45	146 34 34	5.0	.70	.20	.70	500	N	N	100	700	3.0
CI085S	65 32 15	146 33 38	3.0	.70	.10	1.00	500	N	N	150	700	3.0
CI086S	65 31 56	146 34 2	2.0	.70	.30	.50	1,500	N	N	300	700	7.0
CI087S	65 34 17	146 39 11	5.0	1.00	.20	1.00	700	N	N	100	1,000	3.0
CI088S	65 34 5	146 39 11	3.0	.70	.20	.70	500	N	N	100	1,000	3.0
CI089S	65 33 24	146 42 51	3.0	.70	.20	.50	500	.7	N	100	700	3.0
CI090S	65 32 10	146 50 1	5.0	1.00	.50	.50	700	<.5	N	100	1,000	3.0
CI091S	65 31 39	146 50 54	5.0	1.00	.20	.50	700	.5	N	100	1,000	2.0
CI092S	65 1 24	146 29 14	5.0	1.00	.50	.70	700	<.5	N	70	1,500	2.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	Sc-ppm S	Sn-ppm S
CI048S	N	N	20	150	30	200	N	20	50	20	20	N
CI049S	N	N	20	100	30	150	N	20	50	20	30	N
CI050S	N	N	20	70	20	70	N	20	70	10	20	N
CI051S	N	N	20	70	30	100	N	30	50	20	20	N
CI052S	N	N	30	100	20	100	N	20	70	20	30	N
CI053S	N	N	20	100	20	100	N	<20	50	20	20	N
CI054S	N	N	20	70	20	70	N	20	50	20	20	N
CI055S	N	N	20	70	50	50	7	<20	50	10	15	N
CI056S	N	N	20	100	30	100	5	<20	50	10	15	N
CI057S	N	N	20	50	30	70	N	<20	50	15	20	N
CI058S	N	N	20	50	20	50	N	N	30	15	20	N
CI059S	N	N	20	50	15	100	N	30	30	15	30	N
CI060S	N	N	20	70	20	100	N	<20	30	20	20	N
CI061S	N	N	30	70	20	70	N	<20	50	15	20	N
CI062S	N	N	20	100	15	70	N	<20	30	20	30	20
CI063S	N	N	20	70	20	70	N	<20	30	20	20	N
CI064S	N	N	20	100	15	20	N	20	50	15	30	N
CI065S	N	N	20	100	15	70	N	20	30	15	30	N
CI066S	N	N	15	50	7	<20	N	<20	20	10	15	N
CI067S	N	N	20	70	20	50	N	<20	30	10	20	N
CI068S	N	N	20	70	10	70	N	<20	30	10	20	N
CI069S	N	N	15	100	15	50	N	<20	30	15	20	N
CI070S	N	N	30	100	20	70	N	20	50	20	30	N
CI071S	N	N	15	70	10	20	N	<20	20	10	15	N
CI072S	N	N	15	50	10	70	N	<20	20	10	15	N
CI073S	N	N	20	70	15	100	N	<20	30	20	20	N
CI074S	N	N	30	150	15	70	N	20	70	15	30	N
CI075S	N	N	30	100	30	70	N	<20	50	20	30	N
CI076S	N	N	30	100	30	100	N	<20	50	20	20	N
CI077S	N	N	50	200	70	100	N	20	70	50	30	N
CI078S	N	N	20	100	20	70	N	20	50	15	30	N
CI079S	N	N	20	100	30	100	N	<20	50	20	20	N
CI080S	N	N	50	100	30	70	N	<20	70	30	20	N
CI081S	N	N	20	70	30	100	N	20	50	30	20	150
CI082S	N	N	20	100	30	<20	N	20	30	30	15	N
CI083S	N	N	30	100	30	100	N	30	50	50	30	N
CI084S	N	N	20	100	20	50	N	20	50	15	20	N
CI085S	N	N	20	70	15	50	N	20	30	15	20	N
CI086S	N	N	10	10	5	300	N	70	10	50	15	30
CI087S	N	N	30	100	30	150	N	20	50	20	20	N
CI088S	N	N	20	100	30	70	N	<20	50	15	20	N
CI089S	N	N	20	100	20	70	N	20	50	15	20	N
CI090S	N	N	30	100	30	50	N	<20	50	20	20	N
CI091S	N	N	30	70	30	100	N	<20	50	20	30	N
CI092S	N	N	30	100	30	70	N	20	50	50	30	N

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Zn-ppm aa	U-inst
CI048S	150	150	N	100	<200	300	N	N	75	.9
CI049S	150	200	N	30	<200	500	N	N	80	.8
CI050S	200	150	N	20	<200	150	N	N	100	1.0
CI051S	150	150	N	20	<200	500	N	N	90	4.0
CI052S	300	150	N	30	<200	300	N	N	95	1.0
CI053S	300	200	N	20	<200	200	N	N	90	.4
CI054S	300	150	N	20	<200	150	N	N	90	4.0
CI055S	100	300	N	30	200	150	N	N	180	.8
CI056S	100	300	N	20	<200	150	N	N	150	.7
CI057S	100	150	N	30	<200	300	N	N	65	1.0
CI058S	150	100	N	20	N	300	N	N	80	1.0
CI059S	100	150	N	50	N	>1,000	N	N	60	1.0
CI060S	150	150	N	30	<200	500	N	N	170	1.0
CI061S	100	150	N	30	<200	300	N	N	85	1.0
CI062S	300	200	N	30	N	700	N	N	55	1.0
CI063S	300	200	N	30	<200	700	N	N	85	.8
CI064S	200	150	N	30	<200	300	N	N	70	.9
CI065S	150	150	N	30	N	700	N	N	55	.6
CI066S	100	70	N	20	N	700	N	N	45	.6
CI067S	100	100	N	20	N	700	N	N	45	1.0
CI068S	100	150	N	30	N	700	N	N	40	1.0
CI069S	150	150	N	30	N	1,000	N	N	45	1.0
CI070S	150	150	N	30	N	500	N	N	75	1.0
CI071S	100	100	N	20	<200	300	N	N	45	.5
CI072S	100	100	N	20	N	500	N	N	50	1.0
CI073S	200	150	N	30	N	300	N	N	75	1.0
CI074S	200	150	N	30	<200	1,000	N	N	65	.5
CI075S	150	150	N	30	N	300	N	N	90	3.0
CI076S	150	150	N	30	<200	200	N	N	70	.9
CI077S	200	200	N	30	<200	500	N	N	80	1.0
CI078S	150	150	N	50	<200	200	N	N	80	1.0
CI079S	150	150	N	30	<200	500	N	N	80	1.0
CI080S	150	150	N	30	<200	300	N	N	120	2.0
CI081S	100	100	N	50	<200	200	N	N	120	11.0
CI082S	100	100	N	20	N	200	N	N	80	15.0
CI083S	150	200	50	70	<200	500	N	N	100	15.0
CI084S	150	150	N	70	<200	300	N	N	80	1.0
CI085S	100	150	N	30	<200	700	N	N	65	7.0
CI086S	200	100	N	70	<200	700	<100	N	80	24.0
CI087S	100	200	N	50	<200	500	N	N	95	.7
CI088S	100	200	N	30	<200	300	N	N	110	1.0
CI089S	100	200	N	50	<200	500	N	N	110	.8
CI090S	150	200	N	30	N	300	N	N	110	1.0
CI091S	100	200	N	50	<200	300	N	N	100	.9
CI092S	150	200	N	70	<200	300	N	N	80	18.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	B-ppm S	Ba-ppm S	Be-ppm S
CI093S	65 3 52	146 33 48	5.0	1.00	.50	.50	700	N	N	70	1,500	2.0
CI094S	65 5 3	146 34 45	5.0	1.00	.50	.70	1,000	N	N	50	1,500	2.0
CI095S	65 4 29	146 37 19	5.0	.70	.30	.70	1,000	N	N	50	1,500	2.0
CI096S	65 5 33	146 32 45	5.0	1.50	.70	.50	700	<.5	N	70	2,000	2.0
CI097S	65 7 37	146 30 16	5.0	.70	.20	.50	700	N	N	200	1,500	2.0
CI098S	65 8 1	146 30 17	5.0	1.50	.70	.50	700	.5	N	70	2,000	2.0
CI099S	65 8 49	146 34 8	3.0	7.00	.20	.50	700	N	N	100	700	1.5
CI100S	65 8 59	146 34 57	3.0	7.00	.20	.50	700	N	N	100	700	1.0
CI101S	65 6 51	146 40 17	3.0	7.00	.30	1.00	700	N	N	150	700	1.0
CI102S	65 7 4	146 38 55	3.0	7.00	.50	.70	700	N	N	100	700	1.5
CI103S	65 7 18	146 39 34	3.0	7.00	.70	.50	1,000	N	N	150	1,500	1.5
CI104S	65 1 13	146 25 50	5.0	1.00	.50	.50	700	<.5	N	150	1,000	3.0
CI105S	65 2 18	146 22 49	5.0	1.00	.30	.50	700	N	N	150	1,000	2.0
CI106S	65 2 20	146 13 26	3.0	1.00	.70	.70	700	N	N	150	1,000	2.0
CI107S	65 2 40	146 9 20	5.0	1.50	.70	.70	1,000	N	N	70	1,500	15.0
CI108S	65 4 42	146 3 11	5.0	1.00	1.00	.70	1,000	N	N	70	1,000	2.0
CI109S	65 1 52	144 40 52	7.0	2.00	5.00	.70	1,000	N	N	150	2,000	2.0
CI110S	65 1 30	144 41 2	5.0	1.00	.70	.50	1,000	N	N	300	1,000	2.0
CI111S	65 1 15	144 40 48	3.0	.70	.50	.30	700	N	N	300	700	2.0
CI112S	65 3 44	144 36 9	7.0	2.00	2.00	.70	1,000	N	N	100	3,000	3.0
CI113S	65 3 40	144 36 57	10.0	2.00	3.00	.70	1,000	N	N	300	2,000	2.0
CI114S	65 1 30	144 29 49	5.0	1.50	1.00	.50	1,000	N	N	150	1,500	2.0
CI115S	65 2 9	144 27 42	10.0	2.00	1.50	>1.00	1,500	N	N	100	1,500	1.5
CI116S	65 2 28	144 25 26	5.0	1.50	.50	.50	1,000	N	N	100	700	2.0
CI117S	65 3 38	144 19 34	5.0	1.50	.70	.50	1,000	N	N	200	1,000	2.0
CI118S	65 4 3	144 16 5	5.0	1.50	1.00	.30	700	N	N	100	2,000	2.0
CI119S	65 5 25	144 15 43	5.0	2.00	1.50	.70	1,000	N	N	70	2,000	3.0
CI120S	65 5 11	144 7 57	5.0	2.00	2.00	1.00	1,000	N	N	300	3,000	2.0
CI121S	65 4 38	144 7 49	3.0	1.50	.70	.70	700	N	N	150	1,500	2.0
CI122S	65 4 39	144 1 44	10.0	2.00	1.00	>1.00	1,000	N	N	150	700	2.0
CI123S	65 3 47	144 3 43	5.0	1.50	.70	1.00	700	N	N	100	1,000	2.0
CI124S	65 9 29	144 15 39	7.0	2.00	2.00	>1.00	1,000	N	N	150	1,500	2.0
CI125S	65 8 45	144 10 44	5.0	2.00	3.00	.70	700	N	N	300	2,000	3.0
CI126S	65 10 53	144 20 9	3.0	1.50	1.50	.50	700	N	N	150	2,000	3.0
CI127S	65 13 10	144 19 6	5.0	2.00	1.50	.70	700	N	N	200	3,000	3.0
CI128S	65 11 40	144 19 29	5.0	2.00	1.50	.70	1,000	N	N	300	3,000	3.0
CI129S	65 8 37	144 25 1	10.0	1.50	1.00	.70	3,000	N	N	1,000	2,000	30.0
CI130S	65 7 21	144 24 58	3.0	1.00	.70	.30	1,000	N	N	700	1,000	3.0
CI131S	65 6 59	144 24 44	5.0	2.00	2.00	.70	1,000	N	N	200	1,500	2.0
CI132S	65 31 16	145 13 57	1.5	.20	.30	1.00	500	N	N	200	200	1.5
CI133S	65 28 2	145 17 43	3.0	1.00	.20	.70	500	.5	N	150	300	1.5
CI134S	65 28 8	145 18 47	5.0	1.50	.30	.70	1,000	N	N	150	300	1.5
CI137S	65 27 57	145 12 33	2.0	.50	.50	.50	500	N	N	150	500	2.0
CI138S	65 28 10	145 13 32	2.0	.50	.15	.50	500	<.5	N	200	300	2.0
CI139S	65 7 1	145 32 13	5.0	1.50	.70	.50	1,000	N	N	200	1,000	2.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Bi-ppm 5	Cd-ppm 5	Co-ppm 5	Cr-ppm 5	Cu-ppm 5	La-ppm 5	Mo-ppm 5	Nb-ppm 5	Ni-ppm 5	Pb-ppm 5	Sc-ppm 5	Sn-ppm 5
CI093S	N	N	20	100	20	50	N	20	50	20	20	N
CI094S	N	N	30	100	30	100	N	20	50	20	30	N
CI095S	N	N	20	70	20	50	N	20	30	10	20	N
CI096S	N	N	30	100	50	100	N	20	70	30	30	N
CI097S	N	N	20	100	20	30	N	<20	30	15	20	N
CI098S	N	N	30	100	30	70	N	20	70	50	20	N
CI099S	N	N	15	70	7	20	N	20	30	10	15	N
CI100S	N	N	15	50	7	<20	N	<20	30	<10	15	N
CI101S	N	N	20	70	15	30	N	30	30	15	20	N
CI102S	N	N	20	100	15	<20	N	20	30	15	20	N
CI103S	N	N	20	70	10	100	N	<20	30	30	20	N
CI104S	N	N	20	100	20	50	N	50	50	50	20	N
CI105S	N	N	20	100	30	50	N	<20	70	20	20	N
CI106S	N	N	20	100	15	70	N	20	30	15	20	N
CI107S	N	N	20	100	15	100	N	20	30	50	20	N
CI108S	N	N	20	70	30	150	N	30	30	20	30	N
CI109S	N	N	20	100	20	100	N	20	30	20	30	N
CI110S	N	N	30	100	20	50	N	20	70	20	20	N
CI111S	N	N	30	50	30	300	N	N	50	20	20	N
CI112S	N	N	30	100	30	70	N	20	50	30	30	10
CI113S	N	N	20	100	20	50	N	20	50	20	30	N
CI114S	N	N	30	70	20	70	N	<20	30	20	20	N
CI115S	N	N	30	200	30	100	N	30	70	20	50	N
CI116S	N	N	30	100	70	150	N	N	70	20	30	N
CI117S	N	N	20	100	30	300	N	N	70	30	20	N
CI118S	N	N	20	70	20	70	N	<20	50	20	20	N
CI119S	N	N	30	200	50	100	N	20	100	20	30	N
CI120S	N	N	30	70	30	150	N	20	50	20	30	N
CI121S	N	N	20	70	15	70	N	<20	50	15	20	N
CI122S	N	N	30	200	30	50	N	30	100	20	30	N
CI123S	N	N	30	150	50	100	N	<20	100	20	30	N
CI124S	N	N	30	200	15	50	N	20	70	20	50	N
CI125S	N	N	20	100	20	150	N	20	50	20	30	N
CI126S	N	N	50	50	20	50	N	<20	70	15	20	N
CI127S	N	N	20	70	20	150	N	30	50	50	30	N
CI128S	N	N	30	70	20	100	N	20	50	20	30	N
CI129S	N	N	50	100	30	500	N	30	70	30	50	N
CI130S	N	N	20	50	30	70	N	20	50	20	20	10
CI131S	N	N	30	100	30	150	N	20	70	20	30	N
CI132S	N	N	7	30	7	30	N	<20	20	N	15	50
CI133S	N	N	20	100	50	50	N	<20	70	10	20	N
CI134S	N	N	30	150	50	30	N	N	70	15	20	N
CI137S	N	N	15	70	15	50	N	<20	30	20	15	N
CI138S	N	N	15	100	15	50	N	<20	50	15	10	N
CI139S	N	N	30	200	20	70	N	<20	70	20	15	N

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Zn-ppm aa	U-inst
CI093S	150	150	N	30	<200	500	N	N	85	2.0
CI094S	150	200	N	50	<200	300	N	N	100	2.0
CI095S	150	150	N	30	<200	500	N	N	90	2.0
CI096S	200	200	N	30	<200	500	N	N	130	5.0
CI097S	100	150	N	30	<200	1,000	N	N	80	1.0
CI098S	200	200	N	20	<200	300	N	N	100	1.0
CI099S	100	100	N	20	<200	700	N	N	80	.6
CI100S	100	100	N	20	<200	500	N	N	45	.7
CI101S	100	150	N	30	<200	700	N	N	50	.6
CI102S	150	150	N	20	<200	1,000	N	N	50	.8
CI103S	200	150	N	20	<200	700	N	N	80	1.0
CI104S	150	150	N	70	<200	500	N	N	85	29.0
CI105S	150	150	N	30	<200	300	N	N	75	1.0
CI106S	200	150	N	30	<200	700	N	N	60	1.0
CI107S	300	150	N	50	<200	300	N	N	95	12.0
CI108S	200	150	N	50	<200	500	N	N	110	7.0
CI109S	500	150	N	50	<200	500	N	N	60	1.0
CI110S	200	100	N	30	<200	500	N	N	120	1.0
CI111S	100	100	N	300	<200	700	N	N	90	1.0
CI112S	300	150	N	50	<200	200	N	N	120	2.0
CI113S	300	150	N	30	<200	200	N	N	60	3.0
CI114S	300	150	N	30	<200	150	N	N	85	1.0
CI115S	300	200	N	50	<200	500	N	N	75	.9
CI116S	150	150	N	30	<200	300	N	N	120	2.0
CI117S	150	150	N	200	N	300	N	N	100	1.0
CI118S	200	150	N	100	<200	200	N	N	80	3.0
CI119S	300	200	N	50	<200	300	N	N	90	.6
CI120S	300	200	<50	50	<200	150	N	N	90	.9
CI121S	200	150	N	20	N	200	N	N	80	.9
CI122S	300	200	N	50	<200	300	N	N	85	.8
CI123S	300	150	N	30	<200	300	N	N	95	.8
CI124S	500	200	N	30	<200	150	N	N	80	.7
CI125S	500	200	N	50	<200	200	N	N	95	.9
CI126S	300	150	N	30	500	100	N	N	430	1.0
CI127S	500	150	N	70	<200	200	N	N	75	.8
CI128S	500	200	N	30	<200	200	N	N	130	1.0
CI129S	300	150	N	70	<200	300	<100	.10	220	1.0
CI130S	200	100	<50	30	<200	200	N	N	100	.8
CI131S	500	150	N	30	<200	200	N	N	80	.7
CI132S	<100	70	N	70	N	200	N	N	70	1.0
CI133S	100	150	N	20	N	200	N	N	75	1.0
CI134S	<100	200	N	30	N	150	N	N	75	.9
CI137S	150	150	N	20	N	500	N	N	60	1.0
CI138S	100	100	N	30	N	150	N	N	70	1.0
CI139S	200	200	N	30	<200	300	N	N	70	1.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	B-ppm S	Ba-ppm S	Be-ppm S
CI140S	65 7 19	145 32 33	5.0	2.00	1.00	.30	2,000	N	N	200	2,000	1.5
CI141S	65 4 0	145 33 38	3.0	1.00	1.00	.70	1,000	N	N	200	1,000	2.0
CI142S	65 4 25	145 33 48	3.0	1.00	.70	.50	1,000	N	N	200	1,000	3.0
CI143S	65 6 55	145 27 46	2.0	.50	.50	.50	1,000	N	N	200	700	2.0
CI144S	65 7 20	145 26 28	5.0	1.00	.50	.30	2,000	N	N	200	1,000	3.0
CI145S	65 8 21	145 25 59	3.0	.70	.70	.50	1,000	N	N	200	700	1.5
CI146S	65 9 35	145 28 12	5.0	1.50	1.00	.70	1,000	N	N	300	1,500	2.0
CI147S	65 9 14	145 24 13	3.0	1.00	1.00	.50	1,000	N	N	200	1,000	2.0
CI148S	65 5 0	145 17 18	2.0	.70	.70	.50	700	N	N	300	700	2.0
CI149S	65 5 0	145 18 46	5.0	2.00	2.00	1.00	1,500	N	N	100	1,000	1.5
CI150S	65 7 20	145 17 48	5.0	1.00	.50	.70	1,000	N	N	300	1,000	2.0
CI151S	65 10 8	145 20 44	3.0	1.00	1.00	.50	1,000	N	N	150	1,000	2.0
CI152S	65 12 41	145 17 10	3.0	.70	.50	.50	1,000	N	N	150	1,000	2.0
CI153S	65 9 28	145 9 56	5.0	1.50	.50	.50	1,500	N	N	300	1,000	2.0
CI154S	65 9 26	145 11 4	1.5	.50	.20	.30	700	N	N	200	500	1.5
CI155S	65 8 21	144 45 7	5.0	2.00	3.00	.70	2,000	N	N	500	1,500	3.0
CI156S	65 8 35	144 45 46	5.0	2.00	1.50	.30	1,000	N	N	500	1,000	5.0
CI157S	65 10 20	144 47 37	5.0	1.50	.70	.30	>5,000	N	N	200	1,000	2.0
CI158S	65 9 58	144 47 42	3.0	1.50	2.00	.50	1,000	N	N	200	1,500	3.0
CI159S	65 11 0	144 41 55	5.0	1.50	1.50	.70	2,000	N	N	300	1,500	2.0
CI160S	65 7 1	144 32 16	5.0	3.00	5.00	1.00	1,500	N	N	300	1,000	2.0
CI161S	65 7 56	144 35 5	3.0	2.00	5.00	.70	1,000	N	N	500	2,000	5.0
CI162S	65 9 4	144 38 57	3.0	1.00	1.00	.30	700	<.5	N	70	1,000	7.0
CI163S	65 8 42	144 38 43	3.0	1.50	2.00	.50	1,000	N	N	150	1,000	5.0
CI164S	65 10 13	144 35 16	2.0	.70	.50	.30	1,000	N	N	500	700	5.0
CI165S	65 16 24	144 24 32	5.0	2.00	2.00	.70	1,500	N	N	700	1,000	3.0
CI166S	65 18 6	144 26 32	2.0	.50	1.00	.50	1,000	N	N	150	700	2.0
CI167S	65 18 9	144 28 49	5.0	1.50	1.50	.70	1,000	N	N	300	1,000	3.0
CI168S	65 18 16	144 33 47	7.0	5.00	5.00	.50	2,000	N	N	200	2,000	1.5
CI169S	65 15 52	144 37 16	3.0	1.00	1.00	.50	1,000	N	N	200	1,000	2.0
CI170S	65 17 24	144 38 22	2.0	.50	.50	.50	700	N	N	150	700	2.0
CI171S	65 16 34	144 43 17	2.0	.50	.30	.30	700	N	N	100	700	2.0
CI172S	65 15 13	144 44 51	3.0	1.50	2.00	.50	1,000	N	N	150	1,500	3.0
CI173S	65 15 13	144 46 24	2.0	.70	.70	.50	700	N	N	100	1,000	2.0
CI174S	65 8 41	146 23 40	2.0	.50	.30	.30	1,500	N	N	150	700	2.0
CI175S	65 9 20	146 23 22	3.0	1.00	1.00	.30	1,500	N	N	150	1,500	1.5
CI176S	65 4 59	146 42 26	3.0	1.00	.70	.50	3,000	N	N	200	1,000	2.0
CI177S	65 2 32	146 56 2	2.0	1.00	1.00	.50	500	N	N	150	1,000	2.0
CI178S	65 4 27	146 57 57	3.0	1.00	.70	.50	1,000	<.5	N	150	700	2.0
CI179S	65 2 59	146 55 1	2.0	1.00	1.00	.50	1,500	N	N	100	1,000	2.0
CI180S	65 11 10	144 1 23	5.0	2.00	2.00	1.00	2,000	N	N	300	1,000	3.0
CI181S	65 11 16	144 4 57	5.0	2.00	2.00	1.00	2,000	N	N	200	1,000	2.0
CI182S	65 13 13	144 7 33	2.0	1.50	2.00	.20	700	N	N	200	>5,000	3.0
CI183S	65 8 18	145 40 55	2.0	.70	.30	.30	1,000	N	N	200	1,500	3.0
CI184S	65 8 1	145 41 28	2.0	1.00	1.00	.50	700	N	N	150	1,000	2.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	Sc-ppm s	Sn-ppm s
CI140S	N	N	50	200	30	50	N	<20	70	30	15	N
CI141S	N	N	20	150	10	50	N	30	50	10	15	N
CI142S	N	N	20	150	20	50	N	20	50	30	20	N
CI143S	N	N	20	100	20	50	N	<20	70	20	15	N
CI144S	N	N	20	150	20	70	N	<20	70	50	15	70
CI145S	N	N	15	100	15	50	N	<20	50	15	15	N
CI146S	N	N	20	150	30	50	N	20	70	20	20	N
CI147S	N	N	15	100	15	100	N	<20	50	15	15	N
CI148S	N	N	15	150	10	50	N	<20	50	20	10	N
CI149S	N	N	30	200	30	70	N	30	70	30	20	N
CI150S	N	N	20	150	30	70	N	<20	50	20	15	N
CI151S	N	N	20	150	20	70	N	<20	50	20	15	N
CI152S	N	N	15	100	15	70	N	<20	50	15	15	N
CI153S	N	N	50	150	30	50	N	<20	70	30	15	N
CI154S	N	N	10	50	7	30	N	<20	30	<10	7	N
CI155S	N	N	20	150	30	70	N	<20	70	30	20	N
CI156S	N	N	15	150	20	100	N	20	50	50	15	N
CI157S	N	N	150	150	20	50	N	<20	300	30	15	N
CI158S	N	N	20	150	15	70	N	<20	50	10	15	N
CI159S	N	N	150	150	30	100	N	20	200	30	20	N
CI160S	N	N	30	200	30	50	N	30	70	20	20	N
CI161S	N	N	20	100	20	70	N	20	70	20	20	N
CI162S	N	N	10	100	20	200	N	30	20	50	10	N
CI163S	N	N	15	100	50	100	N	<20	50	15	15	N
CI164S	N	N	15	100	20	50	N	<20	50	10	10	N
CI165S	N	N	30	150	15	200	N	30	50	15	20	N
CI166S	N	N	10	50	5	30	N	<20	20	<10	15	N
CI167S	N	N	30	150	10	50	N	20	70	10	15	N
CI168S	N	N	70	200	15	100	N	<20	100	20	20	10
CI169S	N	N	30	150	20	50	N	<20	70	15	15	N
CI170S	N	N	15	70	10	50	N	N	30	20	10	N
CI171S	N	N	15	100	10	70	N	N	30	50	10	N
CI172S	N	N	20	150	10	70	N	20	70	15	15	N
CI173S	N	N	15	70	50	50	N	N	50	<10	10	N
CI174S	N	N	20	100	15	50	N	N	50	10	10	N
CI175S	N	N	20	70	7	50	N	N	50	<10	10	N
CI176S	N	N	20	100	20	50	N	<20	50	20	15	N
CI177S	N	N	15	200	20	50	N	N	70	10	15	N
CI178S	N	N	15	100	10	50	N	<20	50	10	15	N
CI179S	N	N	20	100	10	30	N	<20	50	<10	15	N
CI180S	N	N	30	200	20	100	N	30	70	20	20	N
CI181S	N	N	50	200	30	50	N	20	100	20	20	N
CI182S	N	N	15	100	10	50	N	N	50	20	15	N
CI183S	N	N	15	70	10	50	N	<20	30	10	10	N
CI184S	N	N	15	150	10	50	N	<20	50	<10	15	N

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Zn-ppm aa	U-inst
CI140S	200	200	N	30	<200	200	N	N	100	.9
CI141S	200	150	N	30	N	500	N	N	55	.7
CI142S	150	100	100	30	N	300	N	N	70	3.0
CI143S	200	100	N	20	<200	200	N	N	90	2.0
CI144S	150	100	N	30	N	200	N	N	75	.9
CI145S	200	70	N	20	N	300	N	N	60	.9
CI146S	200	100	N	30	N	500	N	N	65	.8
CI147S	200	100	N	30	N	500	N	N	50	.6
CI148S	200	100	N	20	N	300	N	N	55	.9
CI149S	300	150	N	50	N	300	N	N	90	1.0
CI150S	150	100	N	30	N	500	N	N	55	.9
CI151S	200	100	N	30	N	300	N	N	60	.9
CI152S	150	100	N	30	N	500	N	N	60	.6
CI153S	150	150	N	20	N	300	N	N	70	1.0
CI154S	100	70	N	15	N	500	N	N	50	.9
CI155S	300	100	N	50	N	700	N	N	55	10.0
CI156S	200	150	N	50	N	500	N	N	55	17.0
CI157S	150	70	N	30	<200	300	N	N	110	1.0
CI158S	200	150	N	50	N	500	N	N	60	2.0
CI159S	200	150	N	50	N	200	N	N	75	.7
CI160S	300	200	N	30	N	200	N	N	55	.5
CI161S	500	100	N	50	N	500	N	N	60	.8
CI162S	200	100	N	30	N	200	N	N	55	10.0
CI163S	300	150	N	70	<200	150	N	N	65	4.0
CI164S	200	100	N	20	N	150	N	N	70	.7
CI165S	200	200	N	50	<200	70	N	N	40	.6
CI166S	100	70	N	30	N	100	N	N	45	.5
CI167S	300	150	N	30	N	300	N	N	50	.5
CI168S	500	200	N	50	200	200	N	N	60	.6
CI169S	200	100	N	30	N	200	N	N	55	1.0
CI170S	150	70	N	20	N	500	N	N	50	1.0
CI171S	100	100	N	30	N	200	N	N	45	.7
CI172S	300	150	N	30	N	100	N	N	55	.5
CI173S	150	70	N	20	N	200	N	N	70	.9
CI174S	100	100	N	30	N	500	N	N	85	3.0
CI175S	150	100	N	30	N	500	N	N	75	1.0
CI176S	150	100	N	50	N	300	N	N	80	2.0
CI177S	200	100	N	30	N	200	N	N	60	.9
CI178S	150	100	N	20	N	100	N	N	45	.8
CI179S	200	100	N	20	N	500	N	N	55	.8
CI180S	500	200	N	50	N	300	N	N	70	.4
CI181S	500	200	N	50	300	150	N	N	150	.5
CI182S	500	150	N	20	<200	100	N	N	120	.5
CI183S	150	150	N	15	N	200	N	N	80	.6
CI184S	200	150	N	20	N	500	N	N	50	.9

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	B-ppm s	Ba-ppm s	Be-ppm s
CI185S	65 8 46	145 43 55	2.0	.50	.50	.30	700	N	N	300	500	1.5
CI186S	65 9 56	145 43 37	3.0	.70	.50	.50	5,000	N	N	200	3,000	2.0
CI187S	65 10 14	145 47 51	2.0	.70	.70	.30	2,000	N	N	100	1,500	1.5
CI188S	65 8 42	145 54 13	3.0	1.00	.50	.50	1,000	N	N	200	1,000	2.0
CI189S	65 9 13	145 55 27	5.0	1.50	1.50	.50	1,000	N	N	100	1,000	1.5
CI190S	65 7 44	145 59 33	2.0	.70	.50	.30	1,500	N	N	150	700	2.0
CI191S	65 10 23	145 6 36	1.5	.30	.20	.30	1,000	N	N	500	500	1.5
CI192S	65 13 47	145 12 57	1.0	.20	.20	.20	700	N	N	300	500	1.5
CI193S	65 15 25	145 21 5	2.0	.50	.30	.50	1,000	N	N	150	700	2.0
CI194S	65 20 25	145 24 38	1.0	.20	.10	.30	1,000	N	N	200	300	1.5
CI195S	65 20 33	145 25 27	1.5	.50	.30	.50	700	N	N	200	200	1.5
CI196S	65 17 45	145 24 17	3.0	1.00	.50	.50	2,000	N	N	150	700	2.0
CI197S	65 18 57	145 21 21	1.5	.50	.20	.30	1,500	N	N	150	500	1.5
CI198S	65 17 43	145 20 52	1.5	.30	.20	.30	1,000	N	N	150	500	1.0
CI199S	65 10 50	145 35 2	1.0	.30	.30	.20	300	N	N	200	5,000	2.0
CI200S	65 10 34	145 34 32	1.0	.50	.50	.30	500	<.5	N	150	>5,000	1.5
CI201S	65 12 2	145 30 54	3.0	.70	1.00	.50	700	N	N	150	1,500	2.0
CI202S	65 12 45	145 28 14	3.0	.70	.50	.50	1,000	<.5	N	150	1,000	2.0
CI203S	65 13 54	145 54 56	1.5	.50	.20	.30	1,500	N	N	200	700	1.5
CI204S	65 16 3	145 54 11	1.5	.50	.20	.30	1,000	N	N	150	700	1.5
CI205S	65 22 26	145 43 18	2.0	.70	.50	.70	1,500	N	N	200	700	1.5
CI206S	65 21 22	145 43 37	2.0	.50	.20	.50	1,000	N	N	200	700	2.0
CI207S	65 21 0	145 44 50	2.0	.50	.30	.50	700	N	N	200	500	1.5
CI208S	65 19 54	145 48 14	5.0	1.00	.50	.70	1,500	N	N	300	1,000	2.0
CI209S	65 19 52	145 45 57	5.0	1.50	.50	.70	2,000	N	N	150	1,000	1.5
CI210S	65 18 26	145 44 42	3.0	.50	.30	.20	500	N	N	200	700	2.0
CI211S	65 19 36	145 39 44	2.0	.50	.20	.50	2,000	N	N	100	700	2.0
CI212S	65 17 36	145 38 19	3.0	.70	.30	.50	1,500	N	N	150	700	2.0
CI213S	65 20 36	145 33 57	3.0	.70	.20	.30	2,000	N	N	200	700	3.0
CI214S	65 19 29	145 32 13	2.0	.50	.10	.50	1,500	N	N	200	500	2.0
CI215S	65 18 46	145 33 55	3.0	.70	.15	.50	500	N	N	200	500	2.0
CI216S	65 16 45	145 30 23	1.0	.15	.20	.20	500	N	N	70	300	2.0
CI217S	65 19 17	145 26 1	1.5	.50	.50	.50	1,000	N	N	100	500	2.0
CI218S	65 19 17	145 19 39	2.0	.20	.20	.50	1,000	N	N	200	500	2.0
CI219S	65 19 33	145 20 42	1.0	.10	.10	.30	700	N	N	200	200	1.5
CI220S	65 18 11	145 14 50	2.0	.50	.30	.50	5,000	N	N	100	700	2.0
CI221S	65 19 2	145 9 36	2.0	.50	.30	.50	2,000	N	N	150	700	2.0
CI222S	65 33 10	146 55 11	5.0	1.50	.70	.50	1,500	N	N	150	1,000	3.0
CI223S	65 33 38	146 53 54	5.0	2.00	1.00	.50	1,000	<.5	N	200	1,500	3.0
CI224S	65 33 34	146 50 16	3.0	1.00	.50	.30	1,000	<.5	N	500	500	15.0
CI225S	65 33 52	146 50 13	3.0	.50	.50	.30	1,000	N	N	300	500	10.0
CI226S	65 34 29	146 46 22	2.0	.70	.50	.50	1,000	<.5	N	200	1,000	20.0
CI227S	65 35 13	146 44 51	3.0	1.00	.50	.50	1,500	<.5	N	200	700	20.0
CI228S	65 35 21	146 45 31	3.0	.70	.50	.50	1,000	.5	N	200	500	30.0
CI229S	65 35 0	146 42 22	3.0	.50	.20	.30	700	N	N	150	700	5.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	Sc-ppm s	Sn-ppm s
CI185S	N	N	10	70	7	50	N	<20	30	<10	10	N
CI186S	N	N	30	100	30	70	5	<20	100	10	15	N
CI187S	N	N	20	100	10	50	N	<20	50	10	10	N
CI188S	N	N	20	100	20	70	N	20	50	15	15	N
CI189S	N	N	30	150	20	70	N	<20	70	30	20	N
CI190S	N	N	20	70	15	50	N	<20	50	15	15	N
CI191S	N	N	15	50	7	70	N	N	30	10	10	N
CI192S	N	N	7	30	5	30	N	<20	20	N	10	N
CI193S	N	N	20	100	7	70	N	<20	30	10	15	N
CI194S	N	N	15	20	5	50	N	N	20	<10	7	N
CI195S	N	N	10	50	7	50	N	<20	30	<10	7	N
CI196S	N	N	20	100	10	50	N	<20	50	10	15	N
CI197S	N	N	15	50	7	50	N	N	30	10	7	N
CI198S	N	N	10	30	5	30	N	N	20	<10	7	N
CI199S	N	N	15	50	10	50	N	N	50	N	5	N
CI200S	N	N	15	50	20	50	5	N	70	<10	7	N
CI201S	N	N	20	100	20	70	N	<20	70	15	15	N
CI202S	N	N	30	100	50	70	N	<20	30	20	15	N
CI203S	N	N	20	70	10	50	N	N	30	10	10	N
CI204S	N	N	20	70	5	30	N	<20	30	<10	10	N
CI205S	N	N	20	70	20	50	N	<20	50	10	15	N
CI206S	N	N	15	70	7	70	N	<20	20	10	10	N
CI207S	N	N	10	50	7	70	N	<20	20	<10	15	N
CI208S	N	N	30	100	10	50	N	<20	30	<10	10	N
CI209S	N	N	30	150	20	50	N	<20	50	30	10	N
CI210S	N	N	15	100	10	70	N	N	20	10	10	N
CI211S	N	N	20	70	7	50	N	<20	30	<10	10	N
CI212S	N	N	30	100	15	70	N	<20	70	10	15	N
CI213S	N	N	30	100	10	50	N	<20	50	15	15	N
CI214S	N	N	20	70	10	50	N	<20	30	<10	10	N
CI215S	N	N	15	70	7	50	N	<20	30	<10	10	N
CI216S	N	N	7	20	5	70	N	N	10	10	5	N
CI217S	N	N	15	50	7	30	N	<20	30	<10	7	N
CI218S	N	N	15	70	7	70	N	<20	50	<10	7	N
CI219S	N	N	7	15	5	50	N	N	15	N	5	N
CI220S	N	N	50	50	10	50	N	<20	50	15	10	N
CI221S	N	N	30	70	10	50	N	<20	50	10	10	N
CI222S	N	N	50	200	50	70	N	<20	70	50	20	15
CI223S	N	N	30	200	30	70	N	<20	70	70	20	N
CI224S	N	N	15	100	20	200	N	20	30	70	15	20
CI225S	<10	N	7	100	20	700	N	<20	20	100	10	N
CI226S	N	N	10	100	20	70	N	20	30	50	10	N
CI227S	N	N	15	100	30	500	N	20	50	100	15	N
CI228S	N	N	10	100	50	200	N	30	30	200	15	20
CI229S	N	N	15	70	20	50	N	N	50	20	10	N

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Zn-ppm aa	U-inst
CI185S	100	100	N	20	N	300	N	N	55	.9
CI186S	150	200	N	30	<200	100	N	N	140	2.0
CI187S	150	100	N	20	N	200	N	N	75	1.0
CI188S	200	150	N	30	<200	300	N	N	70	1.0
CI189S	200	200	N	30	N	500	N	N	55	.9
CI190S	150	100	N	200	N	200	N	N	60	.9
CI191S	100	70	N	30	N	300	N	N	60	.7
CI192S	100	50	N	15	N	1,000	N	N	60	.6
CI193S	150	100	N	30	N	700	N	N	70	.5
CI194S	<100	50	N	15	N	200	N	N	45	.6
CI195S	100	70	N	15	N	200	N	N	35	.5
CI196S	100	100	N	30	N	300	N	N	55	.6
CI197S	100	70	N	15	N	500	N	N	45	1.0
CI198S	100	50	N	20	N	>1,000	N	N	45	.8
CI199S	<100	200	N	15	200	150	N	N	200	.8
CI200S	100	150	N	20	500	200	N	N	290	1.0
CI201S	150	100	N	100	N	200	N	N	85	1.0
CI202S	150	100	N	30	N	500	N	N	75	.7
CI203S	100	70	N	20	N	700	N	N	55	2.0
CI204S	100	70	N	20	N	300	N	N	65	2.0
CI205S	150	100	N	30	N	200	N	N	45	.7
CI206S	150	70	N	20	N	500	N	N	40	.9
CI207S	150	70	N	30	N	300	N	N	45	1.0
CI208S	100	100	N	20	N	700	N	N	60	3.0
CI209S	200	150	N	30	N	300	N	N	60	1.0
CI210S	150	70	N	30	N	200	N	N	65	2.0
CI211S	100	70	N	20	N	500	N	N	45	2.0
CI212S	150	100	N	50	N	500	N	N	55	2.0
CI213S	150	100	N	30	N	150	N	N	75	1.0
CI214S	100	70	N	30	N	300	N	N	65	2.0
CI215S	150	100	N	30	N	300	N	N	50	1.0
CI216S	100	30	N	20	N	500	N	N	40	.7
CI217S	150	70	N	20	N	200	N	N	50	1.0
CI218S	100	100	N	20	N	700	N	N	55	2.0
CI219S	<100	30	N	15	N	300	N	N	45	1.0
CI220S	100	70	N	20	N	300	N	N	75	2.0
CI221S	150	70	N	30	N	300	N	N	85	3.0
CI222S	200	300	N	50	N	300	N	N	140	1.0
CI223S	200	300	N	50	N	500	N	N	130	1.0
CI224S	100	150	N	200	300	500	<10	N	150	55.0
CI225S	<100	70	N	300	N	500	200	N	140	70.0
CI226S	150	100	N	100	200	100	N	N	320	65.0
CI227S	100	100	N	150	1,000	1,000	100	N	750	60.0
CI228S	100	100	N	100	1,000	500	100	N	920	35.0
CI229S	<100	70	N	30	N	150	N	N	110	2.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	B-ppm S	Ba-ppm S	Be-ppm S
CI230S	65 33 18	146 42 40	5.0	1.50	.30	.50	1,000	N	N	200	1,000	3.0
CI231S	65 34 4	146 40 5	5.0	1.50	.50	.70	1,000	N	N	200	1,000	3.0
CI232S	65 34 58	146 38 9	10.0	2.00	.30	.50	1,000	N	N	300	1,000	3.0
CI233S	65 16 43	146 3 54	5.0	1.50	.70	.70	1,000	N	N	200	1,000	2.0
CI234S	65 16 1	146 2 0	5.0	2.00	.50	.50	2,000	<.5	N	200	1,000	2.0
CI235S	65 15 45	146 1 45	3.0	1.00	.50	.50	1,000	N	N	150	1,000	1.0
CI236S	65 16 12	145 59 38	5.0	1.50	.70	.50	2,000	N	N	200	1,000	2.0
CI237S	65 15 33	145 58 39	5.0	2.00	.50	.50	1,000	3.0	N	200	1,000	3.0
CI238S	65 15 48	145 56 27	5.0	2.00	.70	.70	1,500	N	N	150	1,500	2.0
CI239S	65 17 11	145 53 58	7.0	3.00	.50	.70	1,500	N	N	300	1,500	2.0
CI240S	65 17 32	145 50 42	7.0	2.00	.30	.30	5,000	N	N	200	1,500	3.0
CI241S	65 14 31	144 5 13	7.0	2.00	1.00	.50	2,000	N	N	300	1,500	2.0
CI242S	65 13 0	144 7 39	10.0	3.00	3.00	.50	2,000	N	N	150	5,000	3.0
CI243S	65 13 8	144 10 53	10.0	5.00	5.00	.70	2,000	N	N	500	3,000	3.0
CI244S	65 14 46	144 11 0	3.0	1.50	2.00	.50	1,500	N	N	150	1,500	2.0
CI245S	65 14 53	144 11 38	7.0	2.00	3.00	.30	1,500	N	N	300	3,000	3.0
CI246S	65 14 8	144 12 34	10.0	2.00	3.00	.70	2,000	N	N	500	3,000	3.0
CI247S	65 13 40	144 13 9	7.0	1.50	2.00	.50	2,000	N	N	300	1,500	2.0
CI248S	65 13 18	144 13 54	10.0	3.00	5.00	.70	2,000	N	N	500	2,000	5.0
CI249S	65 14 3	144 18 11	7.0	1.00	1.00	.50	2,000	N	N	200	1,000	3.0
CI250S	65 11 31	144 18 35	10.0	3.00	5.00	.50	2,000	N	N	1,000	3,000	5.0
CI251S	65 12 49	144 17 54	7.0	3.00	3.00	.70	200	N	N	300	3,000	3.0
CI252S	65 14 39	144 22 43	7.0	5.00	5.00	.50	1,000	<.5	N	200	2,000	5.0
CI253S	65 10 34	144 24 8	3.0	2.00	3.00	.50	1,000	<.5	N	200	2,000	3.0
CI254S	65 9 9	144 27 35	15.0	1.50	2.00	.50	5,000	N	N	1,000	1,500	5.0
CI255S	65 8 38	144 27 56	5.0	1.00	1.00	.30	2,000	N	N	1,500	1,000	2.0
CI256S	65 5 55	144 25 20	5.0	2.00	5.00	.50	2,000	N	N	500	1,500	3.0
CI257S	65 1 54	144 27 23	3.0	1.00	1.00	.50	1,000	N	N	200	1,000	2.0
CI258S	65 0 18	144 11 51	7.0	3.00	2.00	.70	1,500	N	N	150	1,000	1.5
CI259S	65 1 15	144 7 52	7.0	2.00	1.50	1.00	1,500	N	N	300	1,000	2.0
CI260S	65 2 26	144 5 28	10.0	3.00	2.00	>1.00	2,000	N	N	500	1,000	1.5
CI261S	65 5 9	144 3 49	5.0	2.00	2.00	.50	1,500	N	N	500	1,500	3.0
CI262S	65 3 11	144 9 44	7.0	5.00	3.00	1.00	1,000	N	N	200	2,000	1.5
CI263S	65 5 46	144 11 44	5.0	3.00	3.00	.50	2,000	N	N	150	2,000	2.0
CI264S	65 8 20	144 8 29	7.0	3.00	5.00	.70	1,500	N	N	700	2,000	3.0
CI265S	65 8 45	144 1 24	10.0	5.00	3.00	1.00	1,500	N	N	200	1,000	3.0
CI266S	65 4 58	144 14 50	7.0	5.00	5.00	1.00	1,500	N	N	200	3,000	2.0
CI267S	65 4 9	144 20 17	7.0	5.00	5.00	>1.00	2,000	N	N	150	2,000	2.0
CI268S	65 3 23	144 23 52	5.0	1.50	1.00	.30	1,500	N	N	300	700	3.0
CI269S	65 0 23	144 18 33	5.0	1.50	1.00	.50	1,500	N	N	300	1,000	5.0
CI270S	65 0 16	144 23 48	5.0	1.50	1.00	.30	1,000	<.5	N	300	1,000	3.0
CI271S	65 1 12	144 28 51	5.0	1.50	1.50	.50	1,500	N	N	200	1,000	3.0
CI272S	65 1 21	144 32 9	5.0	2.00	5.00	.50	1,500	N	N	300	1,500	5.0
CI273S	65 1 11	144 32 29	10.0	3.00	3.00	.50	1,000	N	N	500	1,500	2.0
CI274S	65 4 42	144 39 51	7.0	2.00	2.00	.70	1,500	N	N	500	1,000	3.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	Sc-ppm s	Sn-ppm s
CI230S	N	N	30	150	30	100	N	<20	70	30	20	N
CI231S	N	N	20	150	30	100	N	<20	70	50	15	N
CI232S	N	N	30	200	50	70	N	<20	100	30	20	N
CI233S	N	N	20	150	20	70	N	20	50	20	15	N
CI234S	N	N	30	150	20	70	N	<20	50	30	15	N
CI235S	N	N	20	100	10	50	N	N	20	10	10	N
CI236S	N	N	30	100	20	50	N	<20	50	30	15	N
CI237S	N	N	20	150	50	50	N	<20	50	15	20	N
CI238S	N	N	50	200	20	100	N	<20	50	30	20	N
CI239S	N	N	30	150	20	70	N	20	50	50	20	N
CI240S	N	N	50	150	30	100	N	20	50	50	20	N
CI241S	N	N	50	150	30	70	N	<20	70	70	15	N
CI242S	N	N	30	150	30	200	N	<20	70	30	20	N
CI243S	N	N	100	300	30	100	N	<20	100	30	20	N
CI244S	N	N	20	100	10	70	N	<20	20	50	15	N
CI245S	N	N	50	200	30	200	N	<20	50	50	20	N
CI246S	N	N	50	150	20	100	N	20	50	50	20	N
CI247S	N	N	100	200	30	150	N	<20	100	50	20	N
CI248S	N	N	50	300	50	100	N	30	70	50	30	N
CI249S	N	N	50	200	20	70	N	<20	50	50	15	N
CI250S	N	N	50	100	30	200	N	20	50	50	20	15
CI251S	N	N	30	150	20	70	N	30	70	50	20	15
CI252S	N	N	30	200	20	100	N	20	50	50	20	20
CI253S	N	N	30	150	30	70	N	<20	50	30	20	N
CI254S	N	N	200	100	50	200	N	<20	200	30	20	20
CI255S	N	N	50	150	30	50	N	N	50	50	15	30
CI256S	N	N	30	200	20	100	N	<20	50	30	20	N
CI257S	N	N	30	150	30	150	N	<20	70	30	15	N
CI258S	N	N	50	200	50	70	N	<20	100	20	30	N
CI259S	N	N	30	200	30	70	N	<20	70	15	20	N
CI260S	N	N	30	500	30	50	N	20	50	15	20	N
CI261S	N	N	20	200	30	70	N	<20	100	50	15	N
CI262S	N	N	30	300	30	100	N	20	100	50	20	N
CI263S	N	N	30	200	30	100	N	20	70	50	20	N
CI264S	N	N	30	200	30	70	N	<20	70	30	20	10
CI265S	N	N	100	700	30	100	N	20	300	50	20	N
CI266S	N	N	30	200	20	50	N	30	50	30	20	N
CI267S	N	N	50	300	20	70	N	30	70	30	20	N
CI268S	N	N	20	200	50	200	N	<20	70	20	20	N
CI269S	N	N	20	150	30	150	N	<20	50	30	20	N
CI270S	N	N	20	150	30	100	N	<20	50	50	20	N
CI271S	N	N	30	200	50	100	N	<20	50	30	20	N
CI272S	N	N	15	150	20	70	N	20	50	30	20	N
CI273S	N	N	50	300	50	100	N	20	70	100	20	N
CI274S	N	N	20	200	30	100	N	30	50	30	20	N

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Zn-ppm aa	U-inst
CI230S	100	200	N	50	N	300	N	N	120	1.0
CI231S	100	200	N	50	N	500	N	N	80	1.0
CI232S	100	300	N	50	<200	300	N	N	90	1.0
CI233S	200	200	N	30	N	1,000	N	N	55	3.0
CI234S	200	150	N	50	N	1,000	N	N	55	2.0
CI235S	100	100	N	50	N	>1,000	N	N	40	.9
CI236S	200	100	N	30	N	700	N	N	50	1.0
CI237S	150	200	N	30	N	700	N	N	65	.6
CI238S	150	300	N	50	N	1,000	N	.10	45	.9
CI239S	200	200	N	50	N	1,000	N	.10	65	1.0
CI240S	200	200	N	30	N	700	N	N	55	.8
CI241S	200	200	N	30	N	500	N	N	85	1.0
CI242S	500	300	N	50	<200	500	N	N	95	.9
CI243S	700	300	N	50	500	300	N	N	160	.9
CI244S	300	150	N	30	N	1,000	N	N	55	.9
CI245S	500	200	N	50	500	300	N	N	110	.9
CI246S	500	200	N	1,000	N	500	N	N	85	.9
CI247S	300	200	N	70	<200	500	N	N	110	.9
CI248S	700	200	N	70	N	200	N	N	60	.7
CI249S	150	150	N	70	200	1,000	N	N	80	3.0
CI250S	700	300	N	100	N	300	N	N	110	.9
CI251S	500	200	N	70	<200	500	N	N	110	1.0
CI252S	500	200	<50	50	N	200	N	N	55	1.0
CI253S	300	300	100	50	<200	300	N	N	130	1.0
CI254S	300	150	N	70	700	200	N	N	380	1.0
CI255S	150	150	N	50	N	>1,000	N	N	70	.9
CI256S	500	200	N	50	N	100	N	N	75	1.0
CI257S	150	150	N	50	N	500	N	N	75	.9
CI258S	300	300	N	50	N	1,000	N	N	60	.6
CI259S	200	300	N	30	N	1,000	N	N	40	.7
CI260S	200	200	N	50	N	>1,000	N	N	40	.5
CI261S	500	200	N	30	N	500	N	N	100	.7
CI262S	300	300	N	50	N	500	N	N	60	.9
CI263S	300	200	N	50	N	300	N	N	65	.7
CI264S	500	300	N	100	<200	200	N	N	80	.8
CI265S	700	300	N	50	<200	300	N	N	65	.3
CI266S	500	200	N	50	N	300	N	N	50	.6
CI267S	500	300	N	70	N	1,000	N	N	30	.7
CI268S	150	150	N	70	N	700	N	N	70	.8
CI269S	200	100	N	50	N	500	N	N	60	.9
CI270S	200	200	N	50	N	700	N	N	45	1.0
CI271S	200	200	N	50	N	300	N	N	75	2.0
CI272S	300	200	N	50	N	500	N	N	55	2.0
CI273S	300	200	N	50	N	500	N	N	55	2.0
CI274S	300	150	N	30	N	500	N	N	45	.8

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	B-ppm S	Ba-ppm S	Be-ppm S
CI275S	65 2 36	144 36 0	10.0	3.00	1.00	.50	1,500	N	N	700	1,000	2.0
CI276S	65 2 15	144 33 45	5.0	2.00	5.00	.30	1,000	30.0	N	200	2,000	2.0
CI277S	65 3 54	144 23 46	5.0	1.50	1.00	.30	1,000	N	N	200	1,000	2.0
CI278S	65 3 43	144 28 37	10.0	5.00	5.00	>1.00	2,000	N	N	150	2,000	1.5
CI279S	65 3 1	144 43 2	5.0	2.00	5.00	.50	1,500	N	N	100	2,000	2.0
CI280S	65 1 10	144 45 24	7.0	2.00	.50	.50	2,000	N	N	300	1,500	3.0
CI281S	65 0 19	144 42 45	5.0	1.50	.50	.30	1,500	N	N	500	1,000	2.0
CI282S	65 1 56	144 48 52	7.0	3.00	1.00	.50	2,000	N	N	500	1,000	2.0
CI283S	65 4 20	144 47 22	5.0	2.00	5.00	.50	1,000	N	N	200	1,500	3.0
CI284S	65 5 46	144 48 53	5.0	1.50	1.00	.50	1,500	N	N	300	1,500	3.0
CI285S	65 2 45	144 54 35	7.0	3.00	5.00	.70	1,500	N	N	200	1,000	3.0
CI286S	65 3 42	144 56 12	5.0	3.00	5.00	.50	1,000	N	N	200	1,500	3.0
CI287S	65 4 34	144 56 45	7.0	1.00	.70	.50	1,500	N	N	1,000	1,000	3.0
CI288S	65 9 23	144 49 39	5.0	1.00	.70	.50	1,500	N	N	300	1,000	2.0
CI289S	65 9 51	144 45 6	7.0	3.00	2.00	.30	2,000	N	N	500	1,500	3.0
CI290S	65 11 13	144 36 57	5.0	2.00	3.00	.50	1,000	<.5	N	300	1,000	5.0
CI291S	65 8 32	144 35 9	7.0	2.00	5.00	1.00	2,000	<.5	N	100	1,500	5.0
CI292S	65 5 46	144 33 6	10.0	5.00	7.00	1.00	2,000	N	N	200	1,000	1.5
CI293S	65 7 53	144 33 18	5.0	1.00	1.50	.50	1,500	N	N	700	1,000	5.0
CI294S	65 7 18	144 40 46	10.0	3.00	5.00	.70	1,500	N	N	200	1,500	3.0
CI295S	65 1 37	145 31 49	5.0	2.00	1.50	.70	1,000	N	N	150	1,500	3.0
CI296S	65 7 5	145 30 31	7.0	1.50	1.50	.50	2,000	N	N	200	1,000	3.0
CI297S	65 4 54	145 31 37	10.0	5.00	5.00	.70	1,500	N	N	300	1,000	2.0
CI298S	65 3 13	145 33 47	7.0	1.00	1.50	.50	2,000	N	N	200	1,000	3.0
CI299S	65 3 21	145 34 45	10.0	3.00	1.00	.70	1,000	N	N	300	1,500	1.5
CI300S	65 3 21	145 38 43	10.0	3.00	2.00	1.00	5,000	N	N	300	2,000	3.0
CI301S	65 3 31	145 41 52	10.0	3.00	7.00	1.00	1,000	N	N	200	3,000	2.0
CI302S	65 3 35	145 42 12	5.0	1.00	1.00	.70	1,500	N	N	500	1,000	3.0
CI303S	65 1 36	145 42 24	5.0	3.00	2.00	.50	1,500	1.5	N	200	5,000	1.5
CI304S	65 1 7	145 43 26	3.0	1.50	2.00	.70	1,500	N	N	300	3,000	2.0
CI305S	65 0 12	145 41 44	3.0	2.00	1.50	.70	2,000	N	N	200	5,000	2.0
CI306S	65 0 14	145 43 21	3.0	1.50	1.00	.50	1,500	N	N	200	2,000	3.0
CI307S	65 1 54	145 45 33	5.0	1.00	1.00	.50	1,000	N	N	200	1,000	3.0
CI308S	65 1 40	145 45 57	3.0	1.00	.70	.50	1,500	N	N	300	1,000	1.5
CI309S	65 7 37	145 37 30	5.0	1.50	1.00	.70	2,000	N	N	150	1,500	1.5
CI310S	65 7 48	145 34 15	3.0	2.00	1.00	.50	1,500	<.5	N	200	>5,000	2.0
CI311S	65 6 14	145 33 59	5.0	1.00	.50	.50	1,500	N	N	200	1,000	2.0
CI312S	65 6 3	145 38 51	5.0	2.00	1.00	1.00	1,500	N	N	500	1,500	3.0
CI313S	65 5 13	145 41 25	5.0	3.00	1.50	.70	1,500	N	N	200	1,500	2.0
CI314S	65 5 26	145 41 40	3.0	1.00	.50	.50	1,000	N	N	300	700	2.0
CI315S	65 1 13	144 59 36	5.0	2.00	1.50	1.00	1,000	N	N	150	1,000	3.0
CI316S	65 0 53	145 4 8	3.0	1.00	.70	.50	700	N	N	150	700	3.0
CI317S	65 0 48	145 8 44	5.0	3.00	1.00	.50	700	N	N	150	1,500	2.0
CI318S	65 0 21	145 12 27	3.0	1.50	1.50	.30	700	1.0	N	200	3,000	3.0
CI319S	65 5 23	145 12 41	3.0	1.00	.30	.50	1,000	<.5	N	150	1,000	2.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	Sc-ppm S	Sn-ppm S
CI275S	N	N	50	300	70	150	N	20	70	100	30	N
CI276S	N	N	20	200	20	70	N	<20	30	50	15	N
CI277S	N	N	20	150	15	100	N	<20	50	20	20	N
CI278S	N	N	50	700	50	100	N	30	100	50	30	N
CI279S	N	N	15	150	10	100	N	<20	30	15	20	N
CI280S	N	N	50	300	50	100	N	<20	100	100	20	N
CI281S	N	N	50	150	50	150	N	<20	70	50	15	N
CI282S	N	N	100	300	50	100	N	30	150	50	20	N
CI283S	N	N	30	200	30	100	N	20	100	30	20	N
CI284S	N	N	30	200	30	50	N	<20	70	70	20	N
CI285S	N	N	30	200	30	100	N	30	70	30	20	N
CI286S	N	N	30	200	20	70	N	<20	70	15	20	N
CI287S	N	N	30	200	30	70	N	<20	100	30	20	N
CI288S	N	N	50	100	20	50	N	<20	70	30	15	N
CI289S	N	N	50	200	20	150	N	<20	50	50	15	N
CI290S	N	N	30	150	30	100	N	<20	70	30	15	N
CI291S	N	N	50	200	30	100	N	50	100	50	20	N
CI292S	N	N	50	700	30	70	N	30	100	50	20	N
CI293S	N	N	30	200	30	70	N	<20	50	70	15	N
CI294S	N	N	50	300	50	70	N	30	70	50	20	N
CI295S	N	N	30	150	30	70	N	20	70	10	15	N
CI296S	N	N	50	300	20	100	N	20	100	30	20	N
CI297S	N	N	50	700	30	100	N	20	70	70	20	N
CI298S	N	N	20	150	30	50	N	N	50	20	10	N
CI299S	N	N	50	300	30	70	N	20	70	50	15	N
CI300S	N	N	50	200	30	50	N	20	70	30	20	N
CI301S	N	N	30	300	15	100	N	<20	50	50	20	N
CI302S	N	N	20	100	20	50	N	N	70	30	15	N
CI303S	N	N	30	200	50	50	N	<20	50	50	15	N
CI304S	N	N	15	150	30	50	N	30	70	20	15	N
CI305S	N	N	30	200	30	50	N	<20	50	10	15	N
CI306S	N	N	15	150	15	50	N	<20	50	10	15	N
CI307S	N	N	15	150	20	50	N	50	50	70	15	N
CI308S	N	N	10	150	30	50	N	<20	50	20	15	N
CI309S	N	N	20	150	15	70	N	<20	50	<10	20	N
CI310S	N	N	20	150	30	70	N	<20	50	20	15	N
CI311S	N	N	30	150	20	70	N	20	50	30	15	N
CI312S	N	N	30	150	30	70	N	20	70	30	20	N
CI313S	N	N	30	200	30	50	N	20	70	30	20	N
CI314S	N	N	20	100	30	70	N	N	50	15	15	N
CI315S	N	N	30	200	30	100	N	20	100	30	15	N
CI316S	N	N	20	150	20	70	N	<20	70	15	15	N
CI317S	N	N	30	150	20	100	N	<20	50	30	15	N
CI318S	N	N	15	150	50	50	7	<20	70	30	15	N
CI319S	N	N	20	150	20	70	N	<20	70	50	15	N

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Zn-ppm aa	U-inst
CI275S	200	200	N	70	<200	1,000	N	N	110	.6
CI276S	300	200	N	50	N	200	N	N	45	.5
CI277S	200	150	N	30	N	700	N	N	75	.6
CI278S	500	300	N	70	N	200	N	N	60	.9
CI279S	500	200	N	50	N	700	N	N	45	1.0
CI280S	200	200	N	50	<200	500	N	N	110	1.0
CI281S	150	100	N	100	N	500	N	N	75	1.0
CI282S	200	200	N	50	<200	500	N	N	100	.9
CI283S	500	200	N	50	N	200	N	N	70	.9
CI284S	150	200	N	50	N	500	N	N	70	.9
CI285S	300	200	N	50	N	300	N	N	80	.7
CI286S	500	200	N	30	N	300	N	N	55	.7
CI287S	200	200	N	30	N	500	N	N	65	.9
CI288S	150	100	N	30	N	700	N	N	50	1.0
CI289S	300	100	N	30	N	100	N	N	50	5.0
CI290S	300	150	N	50	N	200	N	N	50	2.0
CI291S	300	200	N	70	N	300	N	N	55	.7
CI292S	500	300	N	50	N	300	N	N	50	.6
CI293S	200	200	N	50	N	500	N	N	60	.5
CI294S	500	300	50	70	N	500	N	N	60	1.0
CI295S	300	300	N	30	200	500	N	N	80	.7
CI296S	200	200	<50	50	<200	1,000	N	N	70	.9
CI297S	500	300	N	50	<200	500	N	N	65	3.0
CI298S	150	100	N	20	N	70	N	N	80	2.0
CI299S	200	300	N	30	<200	300	N	N	70	.7
CI300S	300	200	50	50	N	500	N	N	60	.7
CI301S	500	300	N	70	N	500	N	N	55	.4
CI302S	200	150	N	30	N	200	N	N	75	4.0
CI303S	300	300	N	30	200	500	N	N	110	.6
CI304S	200	200	N	50	N	500	N	N	70	.7
CI305S	200	300	N	30	300	500	N	N	110	.7
CI306S	200	200	N	30	N	500	N	N	50	.8
CI307S	200	150	N	100	N	700	N	N	45	5.0
CI308S	150	100	N	30	N	1,000	N	N	55	1.0
CI309S	200	200	N	50	N	>1,000	N	N	50	.4
CI310S	150	300	N	30	N	500	N	N	140	1.0
CI311S	100	100	N	50	N	700	N	N	60	1.0
CI312S	200	100	N	50	N	300	N	N	55	.9
CI313S	200	150	N	30	N	200	N	N	75	.9
CI314S	150	100	N	30	N	500	N	N	55	2.0
CI315S	200	200	<50	30	N	200	N	N	110	4.0
CI316S	150	100	N	30	N	300	N	N	100	2.0
CI317S	500	150	<50	30	N	300	N	N	95	1.0
CI318S	200	300	N	30	300	300	N	N	300	3.0
CI319S	150	150	N	30	N	700	N	N	90	3.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	B-ppm S	Ba-ppm S	Be-ppm S
CI320S	65 0 26	145 18 1	5.0	1.50	.50	.50	500	N	N	200	3,000	2.0
CI321S	65 2 27	145 20 12	5.0	3.00	1.00	.30	500	.5	N	200	>5,000	3.0
CI322S	65 0 7	145 20 40	3.0	1.00	.70	.50	700	1.0	N	200	5,000	2.0
CI323S	65 2 10	145 23 11	7.0	2.00	1.50	.70	700	N	N	200	5,000	1.0
CI324S	65 2 37	145 23 45	7.0	2.00	2.00	1.00	1,000	N	N	150	1,500	2.0
CI325S	65 0 50	145 25 17	3.0	1.50	.50	.30	500	<.5	N	150	2,000	2.0
CI326S	65 7 15	145 15 32	5.0	1.00	.20	.50	1,000	N	N	300	1,000	1.5
CI327S	65 8 7	145 19 30	5.0	1.00	.50	.50	1,500	N	N	200	1,000	2.0
CI328S	65 11 11	145 22 17	5.0	1.00	.70	.50	1,000	N	N	300	1,000	3.0
CI329S	65 12 17	145 19 17	5.0	1.50	.70	.30	1,500	N	N	150	2,000	2.0
CI330S	65 13 4	145 14 59	3.0	.70	.20	.30	1,000	N	N	200	1,500	2.0
CI331S	65 8 39	145 8 4	5.0	1.00	.50	.50	1,500	N	N	500	1,000	2.0
CI332S	65 8 41	145 3 51	5.0	1.00	.30	.50	1,500	<.5	N	500	1,000	3.0
CI333S	65 13 48	145 5 57	7.0	1.50	.50	.70	1,500	N	N	200	1,000	2.0
CI334S	65 13 56	145 5 3	5.0	1.50	1.00	1.00	1,000	N	N	150	2,000	1.5
CI335S	65 15 37	145 7 54	5.0	1.50	.70	.50	1,000	N	N	200	1,500	2.0
CI336S	65 16 22	145 5 12	3.0	.70	.50	.50	1,000	N	N	150	1,500	2.0
CI337S	65 15 45	145 9 46	3.0	.70	.50	.50	1,000	N	N	150	1,000	2.0
CI338S	65 18 45	144 22 16	5.0	2.00	2.00	1.00	2,000	N	N	200	1,000	3.0
CI339S	65 20 11	144 17 15	5.0	2.00	3.00	1.00	3,000	N	N	200	1,500	3.0
CI340S	65 21 41	144 15 33	3.0	1.50	1.00	.70	2,000	N	N	200	1,000	3.0
CI341S	65 22 8	144 11 52	5.0	3.00	1.50	1.00	5,000	N	N	500	1,000	5.0
CI342S	65 22 15	144 6 37	2.0	1.00	.50	.50	500	N	N	150	1,000	3.0
CI343S	65 20 14	144 4 59	5.0	1.50	2.00	1.00	3,000	N	N	100	1,500	3.0
CI344S	65 19 35	144 1 6	5.0	1.00	3.00	.70	2,000	N	N	100	1,500	5.0
CI345S	65 24 40	144 18 4	5.0	1.50	.50	.70	1,500	N	N	200	1,000	3.0
CI346S	65 24 59	144 24 37	3.0	1.00	.50	.70	1,500	N	N	200	700	2.0
CI347S	65 0 48	145 28 11	5.0	5.00	.50	.50	1,000	<.5	N	200	5,000	3.0
CI348S	65 2 22	145 28 46	5.0	3.00	1.50	1.00	5,000	N	N	200	2,000	2.0
CI349S	65 0 21	145 32 32	7.0	5.00	1.50	.50	2,000	N	N	150	>5,000	3.0
CI350S	65 11 15	145 31 8	2.0	1.00	.50	.30	3,000	<.5	N	300	2,000	2.0
CI351S	65 11 5	145 32 31	3.0	1.50	.70	.50	1,000	<.5	N	150	>5,000	1.5
CI352S	65 12 59	145 36 27	5.0	2.00	.70	.70	2,000	N	N	200	2,000	2.0
CI353S	65 13 22	145 35 38	5.0	1.00	.30	.50	1,500	N	N	150	1,500	2.0
CI354S	65 14 10	145 43 3	3.0	1.00	.15	.50	3,000	N	N	150	1,000	2.0
CI355S	65 14 10	145 42 15	3.0	1.00	.30	.70	1,500	N	N	150	1,000	1.5
CI356S	65 12 19	145 44 24	3.0	.70	.50	.50	1,500	N	N	200	1,000	2.0
CI357S	65 14 13	145 47 47	5.0	1.00	.70	.50	5,000	N	N	100	1,000	2.0
CI358S	65 14 29	145 51 7	3.0	.70	.20	.50	1,500	N	N	150	1,000	1.5
CI359S	65 14 5	145 57 23	5.0	2.00	.50	.50	1,500	N	N	200	1,500	3.0
CI360S	65 0 37	145 53 41	5.0	1.50	1.00	.70	1,500	N	N	300	1,000	2.0
CI361S	65 0 28	145 54 19	5.0	1.50	1.00	.70	1,000	N	N	200	1,500	2.0
CI362S	65 0 21	145 51 1	5.0	1.00	1.00	.50	1,000	N	N	300	1,000	2.0
CI363S	65 0 22	145 44 14	5.0	1.50	1.50	.70	1,500	<.5	N	300	1,500	3.0
CI364S	65 5 43	145 50 1	5.0	1.00	.70	.50	2,000	<.5	N	500	1,000	10.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	Sc-ppm S	Sn-ppm S
CI320S	N	N	15	150	30	100	N	<20	70	15	15	N
CI321S	N	N	20	150	50	100	N	<20	70	20	15	N
CI322S	N	N	15	150	30	50	5	N	70	20	10	N
CI323S	N	N	20	150	30	70	N	N	50	20	15	N
CI324S	N	N	30	200	30	100	N	20	100	20	20	N
CI325S	N	N	20	100	20	100	N	<20	70	15	10	N
CI326S	N	N	20	150	30	70	N	<20	70	30	15	N
CI327S	N	N	30	150	15	70	N	<20	50	50	15	N
CI328S	N	N	15	100	15	50	N	<20	50	15	10	N
CI329S	N	N	30	100	20	70	N	<20	50	20	15	N
CI330S	N	N	20	100	20	50	N	<20	50	20	10	N
CI331S	N	N	30	150	20	150	N	<20	70	30	15	N
CI332S	N	N	30	150	20	70	N	<20	70	50	15	N
CI333S	N	N	30	150	15	50	N	20	70	20	15	N
CI334S	N	N	30	200	20	70	N	<20	70	20	20	N
CI335S	N	N	20	100	20	50	N	<20	50	20	15	N
CI336S	N	N	15	70	10	70	N	N	30	10	10	N
CI337S	N	N	15	70	10	50	N	<20	50	10	10	N
CI338S	N	N	30	150	10	100	N	30	50	50	20	10
CI339S	N	N	50	150	10	200	N	30	30	70	20	<10
CI340S	N	N	70	150	10	150	N	<20	50	20	15	N
CI341S	N	N	70	200	15	100	N	30	100	70	20	100
CI342S	N	N	15	150	15	50	N	<20	30	15	10	N
CI343S	N	N	20	100	10	500	N	20	30	70	20	N
CI344S	N	N	15	100	7	500	N	<20	20	100	20	N
CI345S	N	N	50	150	30	50	N	<20	50	50	15	N
CI346S	N	N	20	70	20	50	N	<20	50	20	15	N
CI347S	N	N	30	150	30	100	N	<20	70	15	15	N
CI348S	N	N	50	150	30	70	N	20	70	30	15	N
CI349S	N	N	30	150	30	100	N	N	100	15	15	N
CI350S	N	N	10	70	30	50	N	N	50	10	10	N
CI351S	N	N	30	100	30	70	N	N	70	10	10	N
CI352S	N	N	50	150	30	70	N	<20	100	15	15	N
CI353S	N	N	30	100	20	70	N	<20	50	10	15	N
CI354S	N	N	30	100	10	70	N	<20	50	20	15	N
CI355S	N	N	15	100	7	50	N	<20	30	10	10	N
CI356S	N	N	20	100	10	50	N	<20	30	20	10	N
CI357S	N	N	30	150	20	70	N	<20	70	20	15	N
CI358S	N	N	20	70	10	50	N	<20	30	10	10	N
CI359S	N	N	50	200	30	100	N	<20	50	50	20	N
CI360S	N	N	30	150	30	70	N	20	70	30	15	N
CI361S	N	N	20	200	30	100	N	<20	50	30	20	N
CI362S	N	N	30	200	50	100	N	<20	50	50	15	N
CI363S	N	N	30	200	100	100	N	<20	70	100	20	N
CI364S	N	N	30	200	100	100	N	<20	70	100	20	N

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Zn-ppm aa	U-inst
CI320S	150	300	N	20	200	200	N	N	150	1.0
CI321S	150	300	N	30	300	200	N	1.30	180	1.0
CI322S	100	300	N	30	500	300	N	N	350	3.0
CI323S	150	500	50	30	300	1,000	N	N	200	2.0
CI324S	300	300	N	50	N	300	N	N	110	2.0
CI325S	150	300	N	30	200	200	N	<.05	210	2.0
CI326S	100	150	N	30	N	300	N	N	100	3.0
CI327S	150	150	N	30	N	500	N	N	100	2.0
CI328S	150	100	N	30	N	500	N	N	90	2.0
CI329S	150	200	N	30	N	200	N	N	100	1.0
CI330S	150	150	N	30	N	300	N	N	95	1.0
CI331S	200	150	N	70	N	700	N	N	70	1.0
CI332S	150	150	N	50	<200	300	N	N	100	2.0
CI333S	150	100	N	50	<200	500	N	N	90	1.0
CI334S	200	200	N	50	N	1,000	N	N	85	2.0
CI335S	150	150	N	30	N	300	N	N	85	.8
CI336S	100	70	N	30	N	500	N	N	100	1.0
CI337S	100	100	N	30	N	700	N	N	85	.9
CI338S	300	200	N	70	N	1,000	N	N	65	1.0
CI339S	500	150	N	100	N	1,000	N	N	95	2.0
CI340S	300	150	N	50	N	300	N	N	100	1.0
CI341S	300	150	N	50	N	300	N	N	65	1.0
CI342S	150	100	N	30	N	200	N	N	70	1.0
CI343S	500	150	N	70	N	1,000	100	N	90	2.0
CI344S	700	100	N	200	N	500	<100	N	130	3.0
CI345S	200	200	N	30	N	200	N	N	90	1.0
CI346S	150	100	N	20	N	200	N	N	80	1.0
CI347S	100	200	N	30	N	200	N	N	170	2.0
CI348S	300	200	N	30	<200	200	N	N	140	2.0
CI349S	200	300	N	50	<200	200	N	N	210	2.0
CI350S	100	150	N	20	500	200	N	N	170	2.0
CI351S	150	200	N	30	N	200	N	.15	290	2.0
CI352S	200	200	N	30	300	300	N	N	55	1.0
CI353S	150	150	N	50	N	500	N	N	75	1.0
CI354S	100	100	N	30	N	300	N	N	60	2.0
CI355S	100	100	N	30	N	700	N	N	50	1.0
CI356S	150	100	N	50	N	700	N	N	65	2.0
CI357S	150	150	N	30	N	300	N	N	85	4.0
CI358S	150	70	N	20	N	500	N	<.05	65	2.0
CI359S	200	200	N	50	N	500	N	N	90	2.0
CI360S	200	150	N	50	N	300	N	N	80	2.0
CI361S	300	200	N	50	N	1,000	N	N	90	3.0
CI362S	200	200	N	50	N	1,000	N	N	60	1.0
CI363S	500	200	N	100	N	1,000	N	N	140	10.0
CI364S	200	200	<50	100	N	500	N	N	100	10.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	B-ppm S	Ba-ppm S	Be-ppm S
CI365S	65 4 16	145 52 48	3.0	1.00	1.50	.50	1,500	N	N	200	1,000	7.0
CI366S	65 4 45	145 52 25	5.0	1.50	1.50	.50	2,000	N	N	200	1,000	3.0
CI367S	65 3 12	145 54 43	3.0	1.00	.70	.50	1,500	N	N	200	1,000	3.0
CI368S	65 2 47	145 57 32	5.0	1.00	2.00	.70	2,000	N	N	100	1,000	5.0
CI369S	65 3 3	145 58 16	5.0	1.50	2.00	.70	1,500	N	N	70	1,500	5.0
CI370S	65 2 34	145 58 15	3.0	1.00	1.00	.50	1,000	N	N	100	1,000	3.0
CI371S	65 0 17	146 36 46	5.0	1.00	.50	.50	1,500	1.0	N	200	1,000	5.0
CI372S	65 0 27	146 42 1	5.0	1.00	.50	.70	1,500	N	N	200	1,000	2.0
CI373S	65 0 40	146 43 0	3.0	1.00	.50	.50	1,000	N	N	200	1,000	2.0
CI374S	65 0 25	146 45 34	7.0	1.50	1.50	>1.00	1,500	N	N	300	1,000	2.0
CI375S	65 4 20	146 46 27	3.0	1.00	1.00	.50	1,000	N	N	200	1,000	2.0
CI376S	65 5 12	146 48 56	2.0	.70	.20	.70	700	N	N	200	700	3.0
CI377S	65 4 57	146 52 14	5.0	1.50	2.00	1.00	2,000	N	N	200	1,000	2.0
CI378S	65 5 0	146 58 4	7.0	2.00	2.00	>1.00	2,000	N	N	300	700	1.5
CI379S	65 3 40	146 58 42	5.0	2.00	1.50	.70	1,500	1.0	N	200	1,000	3.0
CI380S	65 5 53	146 44 45	3.0	1.00	.70	.70	1,000	N	N	200	1,000	2.0
CI381S	65 4 39	146 44 36	3.0	.70	1.00	.50	1,000	N	N	200	1,000	2.0
CI382S	65 5 39	146 40 47	5.0	1.50	1.00	.70	1,000	N	N	200	1,500	2.0
CI383S	65 6 51	146 32 40	5.0	1.50	.70	.50	1,500	N	N	200	1,500	2.0
CI384S	65 7 35	146 59 42	5.0	1.00	1.00	.70	1,500	N	N	500	1,000	3.0
CI385S	65 7 25	146 55 57	5.0	1.00	.70	.70	1,000	N	N	200	1,000	3.0
CI386S	65 7 17	146 51 49	7.0	2.00	2.00	>1.00	1,500	N	N	200	700	1.5
CI387S	65 8 46	146 49 57	5.0	1.50	1.00	.70	1,000	N	N	100	700	2.0
CI388S	65 9 31	146 50 29	3.0	1.00	.20	.70	1,000	N	N	500	700	3.0
CI389S	65 9 56	146 49 37	3.0	1.00	.30	.70	1,000	N	N	200	700	2.0
CI390S	65 10 32	146 44 42	5.0	1.00	.30	.50	1,000	N	N	200	1,000	2.0
CI391S	65 12 14	146 40 59	5.0	1.00	.30	.50	2,000	N	N	150	1,000	2.0
CI392S	65 13 16	146 47 48	5.0	1.00	.30	.70	1,000	N	N	200	1,000	2.0
CI393S	65 13 44	146 52 47	7.0	1.00	.70	1.00	1,500	N	N	200	500	1.5
CI394S	65 9 42	146 24 46	5.0	1.00	.70	.50	3,000	N	N	200	1,000	2.0
CI395S	65 12 16	146 24 48	3.0	1.00	.70	.50	1,500	N	N	150	700	2.0
CI396S	65 12 23	146 22 42	3.0	1.00	.70	.70	1,500	N	N	150	700	1.5
CI397S	65 1 49	146 19 29	5.0	1.00	.70	.50	2,000	N	N	100	1,000	3.0
CI398S	65 2 51	146 18 48	5.0	1.00	.50	.50	1,500	N	N	500	1,000	2.0
CI399S	65 6 39	146 2 45	5.0	1.50	1.00	.50	1,500	N	N	200	1,500	2.0
CI400S	65 6 0	146 1 10	5.0	1.00	.50	.50	2,000	N	N	150	1,000	5.0
CI401S	65 6 0	146 1 40	3.0	.70	.50	.30	1,000	N	N	200	1,500	3.0
CI402S	65 7 10	145 59 0	5.0	1.00	.70	.50	1,000	N	N	300	700	5.0
CI403S	65 6 0	145 56 0	7.0	2.00	.50	.50	2,000	N	N	150	1,000	5.0
CI404S	65 7 50	145 56 10	2.0	.70	.50	.20	700	<.5	N	150	700	3.0
CI405S	65 8 0	145 52 0	5.0	1.50	.70	.50	1,500	N	N	200	1,000	3.0
CI406S	65 8 10	145 57 0	5.0	2.00	1.00	.50	1,000	5.0	N	200	2,000	3.0
CI407S	65 10 30	145 54 40	5.0	2.00	1.50	.70	1,500	N	N	150	1,000	2.0
CI408S	65 10 50	145 54 20	5.0	1.50	2.00	.70	5,000	N	N	70	1,500	3.0
CI409S	65 17 48	145 1 42	3.0	1.00	.70	.50	1,000	N	N	200	1,500	2.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	Sc-ppm S	Sn-ppm S
CI365S	N	N	20	150	20	50	N	20	50	100	15	N
CI366S	N	N	30	200	30	70	N	20	50	100	20	N
CI367S	N	N	20	150	30	50	N	20	50	70	20	N
CI368S	N	N	20	100	10	50	N	20	15	50	20	N
CI369S	N	N	30	200	20	150	N	20	30	100	20	N
CI370S	N	N	15	150	10	200	N	<20	30	30	15	N
CI371S	N	N	20	200	50	50	15	<20	50	100	15	N
CI372S	N	N	20	200	20	50	N	<20	50	50	20	N
CI373S	N	N	20	200	20	50	N	<20	50	30	15	N
CI374S	N	N	50	300	30	70	N	50	70	50	20	N
CI375S	N	N	30	200	20	50	N	20	50	20	15	N
CI376S	N	N	10	70	10	70	N	30	20	10	10	15
CI377S	N	N	30	200	30	100	N	20	100	20	20	N
CI378S	N	N	20	200	30	50	N	30	70	20	30	N
CI379S	N	N	30	200	50	50	N	20	100	30	20	N
CI380S	N	N	20	200	20	50	N	20	70	15	15	N
CI381S	N	N	30	150	30	70	N	20	50	20	20	N
CI382S	N	N	20	200	30	70	N	20	70	30	20	N
CI383S	N	N	20	200	30	70	N	<20	70	30	20	N
CI384S	N	N	20	150	15	50	N	20	50	10	20	N
CI385S	N	N	30	300	20	70	N	20	50	15	15	N
CI386S	N	N	50	500	30	70	N	30	100	20	20	N
CI387S	N	N	50	200	30	50	N	20	100	20	15	N
CI388S	N	N	20	100	20	50	N	20	30	20	15	N
CI389S	N	N	30	150	20	70	N	<20	50	15	15	N
CI390S	N	N	30	150	30	70	N	<20	50	20	10	N
CI391S	N	N	50	200	30	100	N	<20	70	30	15	N
CI392S	N	N	30	200	30	100	N	<20	70	20	15	N
CI393S	N	N	20	100	20	100	N	20	50	10	20	N
CI394S	N	N	50	150	20	50	N	<20	70	50	15	N
CI395S	N	N	30	150	15	50	N	20	70	20	15	N
CI396S	N	N	15	100	10	50	N	<20	50	20	15	N
CI397S	N	N	20	150	20	50	N	20	30	70	10	N
CI398S	N	N	20	150	30	50	N	<20	50	<10	15	N
CI399S	N	N	30	150	20	50	N	N	50	30	20	N
CI400S	N	N	20	150	20	100	N	20	30	30	20	N
CI401S	N	N	20	100	15	50	N	20	50	10	15	N
CI402S	N	N	30	150	30	50	N	70	50	20	15	N
CI403S	N	N	50	150	30	70	5	20	50	50	20	N
CI404S	N	N	15	100	20	50	N	N	30	10	10	N
CI405S	N	N	50	150	30	50	N	20	50	30	20	N
CI406S	N	N	50	200	50	70	N	<20	70	30	20	N
CI407S	N	N	N	150	20	100	N	<20	70	20	20	N
CI408S	N	N	50	200	20	70	N	<20	70	20	20	N
CI409S	N	N	20	100	20	50	N	<20	50	20	10	N

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Zn-ppm aa	U-inst
CI365S	500	150	N	50	N	300	N	N	95	84.0
CI366S	300	300	N	70	N	500	N	N	90	41.0
CI367S	200	150	N	30	N	300	N	N	75	4.0
CI368S	500	200	N	70	N	>1,000	N	N	85	7.0
CI369S	1,000	200	N	50	N	500	N	N	90	11.0
CI370S	300	150	N	30	N	1,000	N	N	100	5.0
CI371S	150	200	50	30	N	700	N	N	110	20.0
CI372S	200	200	N	30	N	700	N	N	85	2.0
CI373S	200	200	N	30	N	500	N	N	85	3.0
CI374S	300	300	N	50	N	700	N	N	70	3.0
CI375S	200	200	N	50	N	1,000	N	N	70	2.0
CI376S	100	100	N	70	N	>1,000	N	N	55	1.0
CI377S	200	200	N	50	N	700	N	N	55	1.0
CI378S	300	200	N	50	N	1,000	N	N	45	.7
CI379S	200	300	N	30	N	1,000	N	<.05	65	1.0
CI380S	150	150	N	20	N	500	N	N	70	2.0
CI381S	150	150	N	50	N	700	N	N	90	70.0
CI382S	200	200	N	50	N	1,000	N	N	75	2.0
CI383S	150	200	N	50	N	1,000	N	N	75	2.0
CI384S	150	150	N	50	N	>1,000	N	N	55	.9
CI385S	150	150	N	30	N	500	N	N	65	1.0
CI386S	200	200	N	50	N	700	N	N	55	1.0
CI387S	200	150	N	30	N	300	N	N	70	1.0
CI388S	150	100	N	30	N	300	N	N	45	.5
CI389S	150	100	N	50	N	700	N	N	60	1.0
CI390S	150	150	N	30	N	200	N	N	65	2.0
CI391S	200	150	N	30	N	300	N	N	100	3.0
CI392S	150	150	N	50	N	300	N	N	80	2.0
CI393S	150	100	N	50	N	500	N	3.90	60	1.0
CI394S	150	100	N	30	N	300	N	N	120	2.0
CI395S	150	100	N	20	N	500	N	N	85	2.0
CI396S	150	70	N	30	N	>1,000	N	N	60	.9
CI397S	100	100	N	50	N	700	N	N	85	104.0
CI398S	100	100	N	20	N	500	N	N	70	1.0
CI399S	200	100	N	50	N	500	N	N	75	1.0
CI400S	500	150	N	50	N	>1,000	N	N	110	8.0
CI401S	100	100	N	50	<200	500	N	N	90	2.0
CI402S	150	100	N	30	N	500	N	N	110	14.0
CI403S	200	150	N	50	200	500	N	N	110	14.0
CI404S	100	100	N	20	N	200	N	N	80	2.0
CI405S	150	150	N	30	<200	1,000	N	N	90	1.0
CI406S	200	200	N	30	N	1,000	N	N	100	1.0
CI407S	200	200	N	30	N	500	N	N	70	2.0
CI408S	200	150	N	50	N	1,000	N	N	75	1.0
CI409S	150	100	N	30	N	500	N	N	70	2.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	B-ppm S	Ba-ppm S	Be-ppm S
CI410S	65 10 41	144 59 28	5.0	1.00	1.00	.50	1,000	N	N	500	700	2.0
CI411S	65 10 33	144 58 49	3.0	.50	.50	.30	1,000	N	N	300	700	3.0
CI412S	65 11 38	144 57 59	3.0	.70	1.00	.50	1,000	N	N	150	1,000	2.0
CI413S	65 13 19	144 57 39	3.0	.70	.30	.30	700	N	N	150	1,000	2.0
CI414S	65 15 14	144 58 56	3.0	.50	1.00	.50	1,500	N	N	300	700	2.0
CI415S	65 15 32	144 57 9	5.0	5.00	.50	.70	1,000	N	N	100	2,000	2.0
CI416S	65 14 49	144 56 50	2.0	.50	.70	.30	700	N	N	150	1,000	2.0
CI417S	65 14 36	144 57 43	3.0	.70	1.00	.70	1,500	N	N	300	700	2.0
CI418S	65 14 15	144 52 55	2.0	.50	.20	.30	1,500	N	N	150	1,000	2.0
CI419S	65 12 41	144 52 17	2.0	.70	1.50	.50	500	N	N	150	1,000	3.0
CI420S	65 13 19	144 48 3	3.0	1.50	2.00	.50	1,000	N	N	150	1,000	3.0
CI421S	65 14 12	144 39 20	5.0	3.00	3.00	.70	1,000	N	N	200	700	2.0
CI422S	65 11 59	144 34 40	3.0	1.50	3.00	.50	1,500	N	N	300	1,500	5.0
CI423S	65 13 41	144 31 56	10.0	5.00	5.00	>1.00	1,500	N	N	150	1,000	2.0
CI424S	65 21 58	144 17 11	3.0	1.00	.70	.50	1,500	N	N	500	700	2.0
CI425S	65 20 43	144 19 16	3.0	1.00	1.00	.50	1,000	N	N	200	1,000	3.0
CI426S	65 19 39	144 23 13	3.0	.70	.70	.50	1,000	N	N	200	700	2.0
CI427S	65 21 23	144 28 9	5.0	1.00	.30	.50	700	N	N	200	1,000	3.0
CI428S	65 19 31	144 30 54	5.0	1.00	.70	.70	1,500	N	N	300	1,000	3.0
CI429S	65 20 11	144 33 59	3.0	.50	.30	.70	1,500	N	N	200	700	2.0
CI430S	65 22 40	144 31 58	5.0	1.00	.50	.50	1,000	N	N	200	1,000	3.0
CI431S	65 20 43	144 36 50	3.0	1.00	.50	.50	1,000	N	N	150	1,000	3.0
CI432S	65 12 42	146 57 12	5.0	1.00	1.00	.70	1,000	N	N	300	1,000	2.0
CI433S	65 12 25	146 54 44	3.0	1.00	.50	.30	1,000	N	N	200	1,000	2.0
CI434S	65 15 36	146 50 8	10.0	2.00	2.00	.50	1,000	N	N	100	300	1.0
CI435S	65 14 4	146 39 8	5.0	1.00	.50	.30	2,000	N	N	150	1,000	2.0
CI436S	65 16 1	146 41 56	5.0	.70	.50	.30	1,500	N	N	150	700	2.0
CI437S	65 17 41	146 38 41	10.0	1.50	1.00	.50	1,000	N	N	100	700	1.5
CI438S	65 17 40	146 37 37	7.0	2.00	1.00	.50	1,000	N	N	100	700	1.5
CI439S	65 14 50	146 33 38	5.0	1.00	.10	.30	2,000	N	N	200	1,000	2.0
CI440S	65 16 40	146 33 19	5.0	1.00	.30	.20	2,000	N	N	150	700	1.5
CI441S	65 17 51	146 57 22	2.0	.50	.50	.50	300	N	N	100	700	1.5
CI442S	65 18 34	146 58 9	3.0	.50	.50	.50	1,000	N	N	100	1,000	2.0
CI443S	65 18 26	146 57 49	2.0	.50	.30	.50	2,000	N	N	200	700	2.0
CI444S	65 19 59	146 59 29	3.0	.70	.50	.50	1,500	N	N	150	1,000	2.0
CI445S	65 20 18	146 58 31	2.0	.50	.10	.30	500	N	N	150	700	3.0
CI446S	65 22 12	146 33 56	3.0	1.00	.10	.30	1,000	N	N	150	700	2.0
CI447S	65 22 53	146 34 18	2.0	.50	.30	.30	1,000	N	N	200	700	5.0
CI448S	65 23 29	146 43 6	5.0	.70	.50	.50	1,500	N	N	100	1,000	3.0
CI449S	65 23 39	146 44 49	3.0	.50	.20	.30	1,000	N	N	300	700	15.0
CI450S	65 25 25	146 45 15	2.0	1.00	.70	.50	1,000	N	N	150	1,000	2.0
CI451S	65 25 25	146 44 26	2.0	.20	.10	1.00	1,000	N	N	200	500	3.0
CI452S	65 25 3	146 48 21	3.0	.50	.20	.70	1,000	N	N	500	700	3.0
CI453S	65 24 40	146 48 34	2.0	.30	.15	1.00	1,000	N	N	200	500	3.0
CI454S	65 7 18	145 46 5	3.0	1.00	.50	.30	1,000	<.5	N	200	1,000	2.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	Sc-ppm S	Sn-ppm S
CI410S	N	N	20	150	20	70	N	30	50	15	15	N
CI411S	N	N	20	100	10	70	N	<20	50	20	10	N
CI412S	N	N	20	150	10	50	N	<20	50	20	10	N
CI413S	N	N	30	150	15	50	N	<20	50	30	10	N
CI414S	N	N	15	100	10	50	N	20	30	10	15	N
CI415S	N	N	50	200	20	70	N	20	100	20	15	N
CI416S	N	N	10	70	7	50	N	<20	30	15	10	N
CI417S	N	N	15	100	10	70	N	20	30	15	15	N
CI418S	N	N	30	70	10	50	N	<20	50	20	10	N
CI419S	N	N	15	100	7	50	N	<20	50	10	10	N
CI420S	N	N	30	150	15	70	N	20	70	20	15	N
CI421S	N	N	50	300	30	50	N	<20	100	20	20	N
CI422S	N	N	15	100	7	100	N	<20	50	50	15	N
CI423S	N	N	70	500	50	100	N	30	150	20	20	N
CI424S	N	N	20	100	15	70	N	<20	30	15	15	N
CI425S	N	N	20	100	15	50	N	30	50	20	15	N
CI426S	N	N	15	70	10	50	N	N	30	10	15	N
CI427S	N	N	10	150	50	70	N	<20	30	50	15	N
CI428S	N	N	50	150	30	70	N	20	50	30	15	N
CI429S	N	N	50	100	20	50	N	20	70	15	15	N
CI430S	N	N	50	150	30	100	N	<20	70	50	15	N
CI431S	N	N	30	150	50	70	N	<20	50	50	15	N
CI432S	N	N	30	150	20	50	N	20	50	20	20	N
CI433S	N	N	20	150	20	50	N	<20	30	20	15	N
CI434S	N	N	30	200	50	50	N	<20	50	10	30	N
CI435S	N	N	30	150	20	50	N	<20	70	20	15	N
CI436S	N	N	30	150	30	100	N	<20	100	20	15	N
CI437S	N	N	30	200	30	50	N	<20	70	20	20	N
CI438S	N	N	50	200	70	50	N	<20	100	20	20	N
CI439S	N	N	30	150	20	70	N	<20	50	20	15	N
CI440S	N	N	50	150	30	50	N	<20	100	20	15	N
CI441S	N	N	15	150	10	30	N	<20	50	20	10	N
CI442S	N	N	30	150	15	70	N	<20	70	20	15	N
CI443S	N	N	20	100	10	50	N	<20	50	15	10	N
CI444S	N	N	30	150	15	50	N	<20	50	20	15	N
CI445S	N	N	15	100	10	50	N	<20	30	10	10	N
CI446S	N	N	20	100	20	70	N	<20	70	30	10	N
CI447S	N	N	15	100	20	50	N	<20	50	30	10	N
CI448S	N	N	30	150	30	70	N	N	100	30	15	N
CI449S	N	N	15	100	10	70	N	<20	50	20	10	N
CI450S	N	N	15	100	15	50	N	N	50	15	10	N
CI451S	N	N	7	30	7	70	N	30	20	15	7	50
CI452S	N	N	10	70	10	70	N	20	30	30	10	100
CI453S	N	N	10	70	7	150	N	30	20	20	7	N
CI454S	N	N	20	150	20	70	N	<20	70	20	15	N

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Zn-ppm aa	U-inst
CI410S	150	100	N	50	N	1,000	N	N	65	1.0
CI411S	200	70	N	30	N	500	N	N	60	2.0
CI412S	200	100	N	20	N	300	N	N	65	1.0
CI413S	150	100	N	30	N	200	N	N	65	1.0
CI414S	150	70	N	30	N	700	N	N	55	1.0
CI415S	200	150	N	30	N	300	N	N	85	.9
CI416S	150	70	N	30	N	500	N	N	55	.9
CI417S	200	100	N	50	N	500	N	N	55	1.0
CI418S	150	100	N	30	N	300	N	N	75	2.0
CI419S	300	100	N	20	N	200	N	N	55	.6
CI420S	300	150	N	30	N	500	N	N	90	.8
CI421S	200	200	N	20	N	300	N	N	60	.8
CI422S	700	100	50	70	N	100	N	N	60	4.0
CI423S	300	300	N	50	N	150	N	N	50	.6
CI424S	150	100	N	30	N	300	N	N	55	.9
CI425S	200	150	N	30	N	500	N	N	60	.7
CI426S	100	70	N	70	N	500	N	N	50	.8
CI427S	150	150	N	30	N	300	N	N	60	2.0
CI428S	200	150	N	50	N	500	N	N	70	2.0
CI429S	150	100	N	50	N	500	N	N	85	.9
CI430S	200	150	N	50	N	300	N	N	75	2.0
CI431S	150	100	N	30	N	300	N	N	85	1.0
CI432S	150	150	N	50	N	500	N	N	50	2.0
CI433S	100	100	N	30	N	300	N	N	75	1.0
CI434S	150	300	N	50	<200	150	N	N	65	.4
CI435S	150	150	N	50	N	300	N	N	95	1.0
CI436S	200	100	N	50	<200	200	N	N	90	1.0
CI437S	150	150	N	30	N	500	N	N	70	.7
CI438S	200	200	N	30	<200	200	N	N	75	.7
CI439S	150	150	N	30	<200	200	N	N	75	1.0
CI440S	150	150	N	30	N	200	N	N	95	.9
CI441S	150	100	N	30	N	500	N	N	55	.8
CI442S	150	100	N	50	<200	300	N	.05	100	.8
CI443S	100	70	N	20	N	300	N	N	70	.8
CI444S	200	100	N	30	N	300	N	N	60	.8
CI445S	100	70	N	30	N	500	N	N	70	1.0
CI446S	100	100	N	30	N	300	N	N	65	1.0
CI447S	100	70	N	30	N	500	N	N	100	29.0
CI448S	200	150	N	50	N	200	N	N	130	4.0
CI449S	100	70	N	30	N	200	N	N	75	4.0
CI450S	150	100	N	20	<200	200	N	N	80	1.0
CI451S	<100	50	N	30	N	1,000	N	N	55	3.0
CI452S	100	70	<50	70	N	1,000	N	N	55	4.0
CI453S	100	70	N	70	N	1,000	N	N	50	4.0
CI454S	150	100	N	30	N	200	N	N	75	1.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	B-ppm s	Ba-ppm s	Be-ppm s
CI455S	65 9 41	145 45 53	3.0	1.50	.70	.50	1,000	N	N	150	>5,000	1.5
CI458S	65 24 21	146 55 41	3.0	1.00	.50	1.00	700	N	N	200	700	5.0
CI459S	65 24 54	146 52 2	5.0	1.50	.20	1.00	2,000	N	N	300	1,000	3.0
CI460S	65 27 8	146 54 58	5.0	1.50	.70	.70	1,500	N	N	150	1,000	3.0
CI461S	65 28 21	146 53 24	5.0	1.50	.30	.50	1,500	N	N	150	1,000	2.0
CI462S	65 28 46	146 48 20	5.0	1.00	1.00	1.00	1,000	N	N	150	1,000	3.0
CI463S	65 27 52	146 38 35	2.0	.30	.50	.50	700	N	N	200	500	7.0
CI464S	65 29 8	146 34 8	3.0	1.00	.70	.70	1,000	N	N	300	700	5.0
CI465S	65 27 44	146 34 53	5.0	1.50	1.00	.50	1,500	N	N	300	5,000	2.0
CI466S	65 28 54	146 33 43	3.0	.50	.10	>1.00	1,000	N	N	200	700	2.0
CI467S	65 29 16	146 43 6	3.0	1.00	.50	.50	1,500	N	N	150	700	5.0
CI468S	65 29 45	146 45 55	2.0	.70	.50	.70	1,000	N	N	150	700	3.0
CI469S	65 31 2	146 43 47	3.0	.70	.70	.50	1,000	N	N	200	700	5.0
CI470S	65 39 30	146 50 34	5.0	2.00	.30	.50	1,500	N	N	200	1,000	3.0
CI471S	65 40 46	146 53 28	3.0	1.00	.30	.30	2,000	N	N	200	1,500	3.0
CI472S	65 42 21	146 53 4	3.0	1.00	.50	.50	1,000	<.5	N	300	1,500	3.0
CI473S	65 42 19	146 50 15	5.0	2.00	.70	.70	1,500	<.5	N	150	2,000	3.0
CI474S	65 40 18	146 43 15	3.0	1.00	.50	.30	1,000	N	N	200	1,000	15.0
CI475S	65 40 24	146 42 45	5.0	2.00	.70	.50	1,500	N	N	200	1,000	5.0
CI476S	65 42 6	146 43 26	7.0	2.00	.50	.50	1,500	5.0	N	200	2,000	2.0
CI477S	65 41 35	146 43 49	3.0	1.50	.30	.50	2,000	N	N	200	1,000	5.0
CI478S	65 42 46	146 49 12	5.0	2.00	.50	.50	1,500	N	N	200	1,500	5.0
CI479S	65 39 13	146 52 57	5.0	1.00	.50	.50	1,500	N	N	200	2,000	5.0
CI480S	65 37 57	146 51 42	5.0	1.50	.70	.50	1,000	N	N	200	1,000	3.0
CI481S	65 37 43	146 51 7	3.0	.70	1.00	.20	1,000	<.5	N	200	700	7.0
CI482S	65 42 49	146 53 40	5.0	1.00	.50	.50	2,000	N	N	300	5,000	2.0
CI483S	65 44 36	146 57 17	10.0	2.00	2.00	1.00	5,000	N	N	200	2,000	3.0
CI484S	65 44 32	146 53 27	10.0	2.00	2.00	.70	>5,000	N	N	200	2,000	5.0
CI485S	65 44 39	146 55 42	2.0	.70	1.00	.30	1,000	.5	N	200	1,000	3.0
CI486S	65 43 24	146 57 2	5.0	1.00	.20	.30	2,000	2.0	N	150	>5,000	3.0
CI487S	65 32 33	146 42 13	3.0	1.00	.50	1.00	1,000	N	N	300	700	3.0
CI488S	65 31 40	146 44 58	5.0	1.00	.50	.50	1,500	N	N	150	1,000	2.0
CI489S	65 34 3	146 45 36	3.0	1.00	.30	.30	1,000	<.5	N	150	700	10.0
CI490S	65 33 46	146 46 30	5.0	1.50	.20	.50	1,500	.5	N	150	1,000	5.0
CI491S	65 16 34	145 49 52	2.0	.70	.30	.70	1,000	N	N	100	1,000	2.0
CI492S	65 16 47	145 46 22	5.0	1.50	.30	.70	1,500	N	N	150	1,500	3.0
CI493S	65 16 52	145 43 31	3.0	.70	.20	.70	1,500	N	N	200	1,000	2.0
CI494S	65 16 30	145 39 16	2.0	.30	.10	.30	1,500	N	N	150	700	1.0
CI495S	65 16 10	145 32 50	5.0	1.00	.30	.70	1,000	N	N	100	1,000	2.0
CI496S	65 15 27	145 24 26	5.0	1.00	.50	.70	1,000	N	N	150	200	2.0
CI497S	65 18 45	145 2 11	5.0	1.50	.20	.70	1,500	N	N	100	1,500	3.0
CI498S	65 18 10	144 58 11	3.0	1.00	.20	1.00	1,000	N	N	200	1,500	2.0
CI499S	65 17 7	144 50 7	3.0	1.00	.20	.50	1,000	1.5	N	100	700	2.0
CI500S	65 19 12	144 52 32	5.0	1.50	.20	.50	1,000	N	N	150	1,000	3.0
CI501S	65 20 9	144 48 12	3.0	1.00	.20	.50	1,000	N	N	150	1,000	2.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	Sc-ppm s	Sn-ppm s
CI455S	N	N	20	100	20	70	N	<20	70	20	15	N
CI458S	N	N	10	100	10	70	N	30	30	15	10	N
CI459S	N	N	50	100	20	100	N	20	50	20	10	N
CI460S	N	N	50	150	50	70	N	<20	70	30	15	N
CI461S	N	N	30	150	20	70	N	<20	50	30	15	N
CI462S	N	N	30	100	30	70	N	20	70	30	15	N
CI463S	N	N	10	70	10	500	N	50	20	30	7	N
CI464S	N	N	15	100	15	100	N	30	30	50	7	N
CI465S	N	N	30	150	20	70	N	<20	70	20	15	N
CI466S	N	N	15	70	30	50	N	20	50	30	10	N
CI467S	N	N	20	150	20	100	N	20	70	50	15	N
CI468S	N	N	15	100	10	100	N	20	50	20	10	N
CI469S	N	N	15	100	20	70	N	<20	50	30	15	N
CI470S	N	N	30	200	30	100	N	30	70	50	15	N
CI471S	N	N	50	150	30	70	5	<20	70	50	15	N
CI472S	N	N	20	150	30	150	7	20	70	50	15	N
CI473S	N	N	30	300	50	70	N	20	100	30	15	N
CI474S	N	N	15	150	20	200	N	20	50	70	15	N
CI475S	N	N	30	150	50	200	N	20	70	100	15	N
CI476S	N	N	50	500	50	100	N	<20	100	50	15	N
CI477S	N	N	30	150	50	100	N	20	70	70	15	N
CI478S	N	N	30	200	50	100	5	20	100	50	15	N
CI479S	N	N	50	200	50	100	N	20	70	70	15	N
CI480S	N	N	50	200	70	100	N	<20	100	100	20	N
CI481S	N	N	15	150	20	200	N	30	20	150	10	30
CI482S	N	N	20	300	50	100	10	<20	100	10	10	N
CI483S	N	N	50	200	50	200	5	100	70	30	15	N
CI484S	N	N	100	150	70	300	20	70	200	50	15	20
CI485S	N	N	20	150	30	70	N	N	70	15	15	N
CI486S	N	N	70	200	100	70	<5	<20	100	20	15	N
CI487S	N	N	20	150	50	100	N	20	50	30	15	N
CI488S	N	N	30	200	30	70	N	<20	70	50	20	N
CI489S	N	N	10	100	20	200	N	<20	50	100	15	20
CI490S	N	N	30	150	30	200	N	<20	70	70	15	150
CI491S	N	N	15	100	7	50	N	<20	50	10	10	N
CI492S	N	N	30	100	15	70	N	<20	50	30	15	N
CI493S	N	N	30	100	70	50	N	<20	50	10	10	N
CI494S	N	N	15	50	10	30	N	N	30	15	7	N
CI495S	N	N	20	150	10	100	N	<20	50	10	15	N
CI496S	N	N	20	150	20	150	N	<20	70	15	15	N
CI497S	N	N	30	100	30	70	<5	<20	70	30	15	N
CI498S	N	N	20	100	15	100	N	<20	50	20	10	N
CI499S	N	N	20	100	20	50	N	N	30	50	10	N
CI500S	N	N	30	150	20	70	N	<20	50	30	15	N
CI501S	N	N	30	150	20	70	N	<20	30	50	15	N

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Zn-ppm aa	U-inst
CI455S	200	200	N	30	<200	300	N	N	95	1.0
CI458S	100	100	N	50	N	1,000	N	N	35	.6
CI459S	100	150	N	50	N	700	N	N	60	.6
CI460S	150	200	N	50	N	500	N	N	100	.8
CI461S	150	200	N	50	N	500	N	N	80	.9
CI462S	200	200	N	30	N	300	N	N	80	1.0
CI463S	<100	70	N	300	N	1,000	100	N	70	22.0
CI464S	150	100	N	50	N	700	<100	N	100	11.0
CI465S	200	150	N	30	N	500	N	N	85	2.0
CI466S	100	100	N	30	N	300	N	N	65	1.0
CI467S	150	150	N	50	N	700	N	N	85	3.0
CI468S	200	100	N	30	N	700	N	N	75	1.0
CI469S	150	150	N	30	N	700	N	N	75	3.0
CI470S	<100	150	N	100	N	1,000	N	N	190	1.0
CI471S	100	150	N	50	N	500	N	N	160	2.0
CI472S	100	200	50	70	N	500	N	N	130	8.0
CI473S	100	300	N	30	<200	300	N	N	160	.9
CI474S	100	100	N	70	N	700	100	N	240	12.0
CI475S	150	150	N	70	N	500	N	N	300	2.0
CI476S	100	300	N	30	N	300	N	N	150	.8
CI477S	100	200	N	70	N	1,000	N	N	170	5.0
CI478S	100	200	N	50	200	300	N	N	220	2.0
CI479S	150	150	N	70	N	500	N	N	150	1.0
CI480S	100	200	N	50	300	500	N	N	250	1.0
CI481S	100	100	N	30	300	1,000	100	N	240	35.0
CI482S	<100	200	N	50	N	300	N	N	100	.9
CI483S	500	300	N	70	<200	>1,000	N	N	190	5.0
CI484S	500	200	N	70	700	1,000	N	N	640	--
CI485S	200	150	N	50	N	300	N	N	180	1.0
CI486S	100	200	N	50	500	300	N	N	240	1.0
CI487S	150	150	N	50	N	500	N	N	75	5.0
CI488S	100	200	N	50	N	500	N	N	85	1.0
CI489S	100	100	<50	100	700	500	<100	N	740	29.0
CI490S	100	200	<50	150	N	500	100	N	160	7.0
CI491S	100	70	N	30	N	1,000	N	N	50	1.0
CI492S	150	150	N	50	N	500	N	N	70	1.0
CI493S	150	100	N	30	N	700	N	N	60	1.0
CI494S	100	70	N	20	N	1,000	N	N	35	.8
CI495S	100	100	N	50	N	1,000	N	N	65	1.0
CI496S	100	150	N	50	N	>1,000	N	N	100	1.0
CI497S	150	100	N	30	N	300	N	N	75	2.0
CI498S	100	100	N	30	N	1,000	N	N	70	1.0
CI499S	150	100	N	30	N	500	N	N	60	1.0
CI500S	150	150	N	50	N	500	N	N	65	1.0
CI501S	150	150	N	50	N	500	N	.35	55	--

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	B-ppm s	Ba-ppm s	Be-ppm s
CI502S	65 36 25	146 59 12	5.0	2.00	.30	.50	1,000	.5	N	200	1,000	5.0
CI503S	65 39 19	146 59 4	5.0	1.00	.20	.50	1,000	<.5	N	200	1,000	3.0
CI504S	65 41 31	146 57 44	5.0	1.50	.50	.70	3,000	N	N	150	5,000	3.0
CI505S	65 42 53	146 36 1	3.0	1.00	.50	.50	1,000	1.0	N	200	3,000	5.0
CI506S	65 42 43	146 35 11	3.0	.70	.30	.30	3,000	N	N	200	1,500	5.0
CI507S	65 42 30	146 35 55	3.0	1.00	.30	.50	2,000	N	N	200	1,000	3.0
CI508S	65 39 58	146 33 28	5.0	1.50	.30	.50	5,000	N	N	150	1,500	5.0
CI509S	65 40 4	146 34 38	3.0	.70	.20	.50	2,000	1.5	N	200	1,000	10.0
CI510S	65 37 45	146 40 22	2.0	.50	.50	.20	1,000	1.0	N	150	700	10.0
CI511S	65 37 35	146 39 52	5.0	1.50	.30	.50	1,000	N	N	150	1,000	7.0
CI512S	65 48 45	146 58 8	3.0	1.50	.70	.50	1,000	N	N	200	1,000	2.0
CI513S	65 50 6	146 56 14	7.0	2.00	1.00	.70	2,000	N	N	300	2,000	3.0
CI514S	65 50 36	146 51 21	5.0	1.00	.30	.50	1,500	N	N	300	1,500	5.0
CI515S	65 49 50	146 46 23	10.0	5.00	2.00	1.00	1,500	N	N	150	2,000	2.0
CI516S	65 47 44	146 42 56	10.0	1.00	.20	.70	1,500	.5	N	500	2,000	3.0
CI517S	65 23 50	144 21 3	7.0	1.00	.30	.70	1,500	N	N	300	1,000	2.0
CI518S	65 19 34	144 11 38	7.0	1.50	2.00	1.00	3,000	N	N	200	1,500	5.0
CI519S	65 18 46	144 15 15	3.0	1.50	3.00	.70	1,500	N	N	100	1,500	5.0
CI520S	65 19 7	145 54 15	7.0	1.50	.20	.50	1,500	N	N	300	2,000	5.0
CI521S	65 20 59	145 57 25	7.0	1.50	.30	.70	2,000	N	N	200	1,500	2.0
CI522S	65 21 18	145 56 41	5.0	1.00	.30	.50	1,000	N	N	200	1,000	3.0
CI523S	65 20 14	146 3 56	3.0	.70	.30	.50	700	N	N	150	1,000	3.0
CI524S	65 19 46	146 4 19	5.0	1.00	.50	.30	1,500	N	N	200	1,000	2.0
CI525S	65 19 9	146 2 21	5.0	1.00	.30	.50	1,500	N	N	150	1,000	2.0
CI526S	65 19 6	146 0 28	5.0	1.00	.30	.50	1,500	N	N	200	1,000	2.0
CI527S	65 16 53	146 12 18	5.0	1.00	.30	.50	1,000	N	N	200	1,000	2.0
CI528S	65 17 12	146 12 19	5.0	1.00	.20	.50	1,000	N	N	200	1,000	2.0
CI529S	65 16 24	146 14 24	5.0	1.00	.50	.50	1,000	N	N	150	1,000	2.0
CI530S	65 16 48	146 19 28	3.0	.70	.20	.50	1,000	N	N	150	700	3.0
CI531S	65 16 30	146 19 37	5.0	1.00	.15	.70	1,000	N	N	200	1,000	2.0
CI532S	65 17 27	146 20 9	7.0	1.00	.30	.70	1,500	N	N	200	700	2.0
CI533S	65 18 59	146 16 23	7.0	1.50	.70	.70	1,000	N	N	150	700	1.5
CI534S	65 20 49	146 11 53	10.0	3.00	1.00	.70	1,500	N	N	100	700	1.0
CI535S	65 20 44	146 8 31	7.0	3.00	1.00	.70	1,000	N	N	100	700	1.0
CI536S	65 17 29	146 25 52	5.0	2.00	.30	.70	1,500	N	N	100	700	2.0
CI537S	65 22 34	145 18 16	10.0	3.00	1.00	1.00	1,500	N	N	100	700	<1.0
CI538S	65 21 40	145 14 11	7.0	1.00	.70	.70	1,000	N	N	150	300	1.5
CI541S	65 26 20	144 39 30	2.0	.70	.20	.30	500	<.5	N	30	700	2.0
CI542S	65 40 19	145 3 57	1.5	.50	.20	.15	500	N	N	70	700	1.5
CI543S	65 40 30	145 11 34	2.0	.50	.30	.15	500	N	N	100	500	1.0
CI544S	65 40 13	145 16 37	1.5	.30	.20	.10	300	N	N	70	500	1.0
CI545S	65 39 53	145 17 2	1.5	.20	.10	.20	200	N	N	50	300	1.0
CI546S	65 41 25	145 19 16	1.5	.30	.15	.10	300	N	N	70	1,000	1.5
CI547S	65 40 1	145 24 58	1.5	.20	.10	.20	300	N	N	50	300	1.0
CI548S	65 43 57	145 20 2	2.0	1.00	.70	.50	500	N	N	50	700	1.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Bi-ppm	Cd-ppm	Co-ppm	Cr-ppm	Cu-ppm	La-ppm	Mo-ppm	Nb-ppm	Ni-ppm	Pb-ppm	Sc-ppm	Sn-ppm
	5	5	5	5	5	5	5	5	5	5	5	5
CI502S	N	N	50	500	70	150	N	20	100	100	20	15
CI503S	N	N	30	200	30	70	N	20	70	70	20	N
CI504S	N	N	50	200	70	150	10	30	100	20	15	N
CI505S	N	N	30	150	70	50	7	<20	100	20	15	N
CI506S	N	N	30	100	30	100	N	<20	70	100	15	N
CI507S	N	N	30	100	30	70	N	20	70	50	15	N
CI508S	N	N	50	150	30	100	N	<20	100	150	20	<10
CI509S	20	N	15	100	20	200	5	20	50	100	15	200
CI510S	10	N	7	70	50	100	20	30	20	200	10	100
CI511S	N	N	20	200	50	150	N	<20	70	150	15	N
CI512S	N	N	30	200	30	50	N	<20	70	20	15	N
CI513S	N	N	70	500	100	150	N	30	150	30	20	N
CI514S	N	N	50	200	50	70	N	20	100	20	15	N
CI515S	N	N	50	700	30	200	N	30	150	30	20	N
CI516S	N	N	50	300	70	200	N	20	100	70	20	N
CI517S	N	N	30	200	30	70	N	<20	50	50	15	N
CI518S	N	N	30	150	15	200	N	<20	30	70	20	N
CI519S	N	N	15	100	7	150	N	20	20	100	30	N
CI520S	N	N	30	150	20	70	N	<20	50	50	20	N
CI521S	N	N	100	500	30	100	N	<20	150	50	20	N
CI522S	N	N	50	150	30	70	N	20	100	20	15	N
CI523S	N	N	20	200	15	50	N	<20	50	20	15	N
CI524S	N	N	20	150	15	50	N	<20	50	15	20	N
CI525S	N	N	30	200	20	50	N	<20	70	30	15	N
CI526S	N	N	30	150	20	70	N	<20	50	30	15	N
CI527S	N	N	30	150	20	70	N	<20	50	20	15	N
CI528S	N	N	30	150	20	70	N	<20	50	20	15	N
CI529S	N	N	50	150	20	70	N	<20	50	20	15	N
CI530S	N	N	30	100	15	70	N	<20	30	10	15	N
CI531S	N	N	20	150	20	70	N	<20	50	30	15	N
CI532S	N	N	30	150	50	50	N	<20	70	20	15	N
CI533S	N	N	30	200	30	50	N	<20	70	30	20	N
CI534S	N	N	50	200	70	50	N	<20	70	15	20	N
CI535S	N	N	50	200	70	50	N	N	70	20	20	N
CI536S	N	N	50	200	30	70	N	<20	70	20	20	N
CI537S	N	N	50	300	70	70	N	<20	100	30	30	N
CI538S	N	N	30	150	30	50	N	<20	70	<10	20	N
CI541S	N	N	15	100	20	70	N	<20	30	50	20	N
CI542S	N	N	15	100	30	50	N	<20	50	20	20	N
CI543S	N	N	15	100	30	50	N	<20	50	20	15	N
CI544S	N	N	10	100	20	70	N	N	30	20	15	N
CI545S	N	N	7	30	5	20	N	<20	20	<10	10	N
CI546S	N	N	7	100	20	30	N	N	30	20	15	N
CI547S	N	N	10	70	10	50	N	<20	20	10	15	N
CI548S	N	N	20	150	30	30	N	N	50	30	20	N

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Zn-ppm aa	U-inst
CI502S	100	200	N	100	500	300	N	N	200	5.0
CI503S	100	150	N	50	N	300	N	N	160	2.0
CI504S	100	300	N	50	300	500	N	N	220	2.0
CI505S	150	300	N	50	N	200	N	N	70	.9
CI506S	100	150	N	50	700	200	N	N	410	3.0
CI507S	100	150	N	50	500	200	N	N	230	2.0
CI508S	150	150	N	70	700	500	N	N	390	1.0
CI509S	<100	100	N	200	700	1,000	100	N	290	16.0
CI510S	100	70	N	150	700	150	<100	N	590	54.0
CI511S	100	200	N	100	1,500	500	N	N	560	82.0
CI512S	200	200	N	50	N	500	N	N	130	2.0
CI513S	200	300	N	70	200	500	N	N	130	1.0
CI514S	150	200	N	30	<200	300	N	N	120	2.0
CI515S	200	300	<50	50	700	200	N	N	300	2.0
CI516S	100	300	N	70	1,000	300	N	N	400	.9
CI517S	150	150	N	30	N	500	N	N	60	1.0
CI518S	300	150	N	100	N	1,000	N	N	80	2.0
CI519S	500	150	N	70	N	>1,000	N	N	75	2.0
CI520S	200	200	N	50	N	200	N	N	70	2.0
CI521S	150	200	N	70	N	500	N	N	75	3.0
CI522S	150	150	N	70	N	500	N	N	75	1.0
CI523S	100	100	N	30	N	700	N	N	60	1.0
CI524S	100	100	N	50	N	700	N	N	40	.9
CI525S	150	150	N	50	N	500	N	N	65	2.0
CI526S	150	150	N	50	N	300	N	N	60	2.0
CI527S	150	100	N	30	N	300	N	N	55	2.0
CI528S	100	150	N	30	N	500	N	N	45	2.0
CI529S	150	100	N	30	N	500	N	N	55	1.0
CI530S	150	100	N	30	N	500	N	N	60	2.0
CI531S	150	150	N	30	N	300	N	N	70	3.0
CI532S	100	150	N	50	N	500	N	N	55	1.0
CI533S	150	150	N	50	N	200	N	N	65	1.0
CI534S	100	300	N	30	<200	300	N	N	60	.6
CI535S	100	300	N	30	N	150	N	N	65	.9
CI536S	100	200	N	30	N	200	N	N	65	.9
CI537S	100	300	N	50	<200	300	N	N	75	1.0
CI538S	100	200	N	50	N	300	N	N	50	1.0
CI541S	300	150	N	30	<200	150	<100	.05	80	2.0
CI542S	100	150	N	30	N	200	N	N	140	.9
CI543S	150	150	N	30	N	150	N	N	110	1.0
CI544S	100	100	N	30	N	150	N	N	95	1.0
CI545S	100	70	N	20	N	200	<100	N	45	.6
CI546S	150	150	N	30	<200	150	N	N	110	1.0
CI547S	100	100	N	20	N	300	N	N	50	1.0
CI548S	150	150	N	30	<200	150	N	N	130	1.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	B-ppm s	Ba-ppm s	Be-ppm s
CI549S	65 42 29	145 23 35	1.5	.20	.07	.50	300	N	N	50	300	1.0
CI550S	65 45 47	145 23 31	1.0	.30	.10	.07	700	N	N	50	500	1.0
CI551S	65 48 29	145 22 53	1.5	.30	.15	.70	500	<.5	N	70	700	1.5
CI552S	65 49 6	144 18 24	1.5	.50	.50	.30	300	<.5	N	70	700	1.5
CI553S	65 49 36	144 33 32	1.5	.30	.30	.20	300	<.5	N	70	700	1.5
CI554S	65 45 22	145 36 53	1.5	.30	.10	.20	300	N	N	70	300	1.5
CI555S	65 41 22	145 36 59	1.5	.30	.10	.30	300	N	N	50	300	1.5
CI556S	65 36 14	145 42 1	1.5	.30	.07	.50	300	N	N	50	300	1.0
CI557S	65 34 46	145 43 28	1.5	.20	.05	.07	300	N	N	50	300	1.5
CI558S	65 33 48	145 42 57	1.5	.30	.10	.70	1,000	N	N	100	300	1.5
CI559S	65 33 13	145 44 11	1.5	.30	.10	.20	500	N	N	50	500	1.0
CI560S	65 31 45	145 43 15	1.5	.50	.07	.50	500	N	N	70	300	1.5
CI561S	65 31 56	145 42 16	1.5	.70	.10	.50	500	<.5	N	50	300	1.5
CI562S	65 32 20	145 43 40	2.0	.70	.10	.30	700	<.5	N	100	500	1.5
CI563S	65 38 30	145 40 15	1.5	.30	.07	.20	300	N	N	50	300	1.0
CI564S	65 37 25	145 47 0	2.0	1.00	.15	.20	1,500	N	N	70	700	1.5
CI565S	65 41 20	145 40 43	1.5	1.00	.10	.50	500	N	N	70	500	1.5
CI566S	65 36 25	144 42 41	1.5	.70	.15	.30	300	N	N	70	700	1.5
CI567S	65 37 36	144 46 18	2.0	1.50	.20	.30	300	<.5	N	100	1,000	1.5
CI568S	65 37 45	144 48 36	1.5	1.00	.20	.30	300	<.5	N	70	1,000	1.5
CI569S	65 38 49	144 54 37	1.5	1.00	.15	.20	300	N	N	70	1,000	1.5
CI570S	65 40 14	144 57 55	1.5	1.00	.10	.15	300	N	N	100	1,000	1.5
CI571S	65 40 24	144 58 59	1.5	.70	.15	.15	200	N	N	100	700	2.0
CI572S	65 36 55	144 58 22	1.0	.50	.10	.20	300	N	N	70	500	1.5
CI573S	65 36 39	144 58 27	2.0	1.00	.15	.20	500	N	N	70	700	1.0
CI574S	65 36 27	145 6 2	2.0	1.00	.20	.15	300	N	N	70	500	1.0
CI575S	65 36 50	145 6 22	1.5	.70	.30	.30	200	N	N	50	500	1.0
CI576S	65 46 55	144 23 13	2.0	2.00	3.00	.50	300	N	N	70	1,000	1.5
CI577S	65 47 22	144 25 32	1.5	.50	.50	.50	300	<.5	N	70	1,000	2.0
CI578S	65 47 8	144 26 22	2.0	1.50	3.00	.70	300	N	N	70	1,000	1.5
CI579S	65 44 52	144 36 58	2.0	1.50	2.00	.50	500	N	N	70	1,500	1.5
CI580S	65 45 0	144 37 38	2.0	1.50	1.50	.30	300	N	N	70	1,000	2.0
CI581S	65 43 28	144 42 43	1.5	2.00	2.00	.20	300	.5	N	70	1,500	2.0
CI582S	65 43 1	144 42 29	2.0	.70	.30	.20	300	N	N	100	500	2.0
CI583S	65 42 56	144 49 31	1.5	1.00	.50	.50	300	.5	N	70	2,000	2.0
CI584S	65 42 42	144 48 57	2.0	.70	.50	.30	500	N	N	70	1,000	1.5
CI585S	65 46 33	144 32 52	2.0	1.50	2.00	.30	300	N	N	70	1,500	1.5
CI586S	65 21 1	144 41 54	1.5	.30	.10	.15	300	N	N	50	300	1.5
CI587S	65 21 37	144 40 20	3.0	1.00	.30	.50	700	N	N	50	300	1.0
CI588S	65 18 28	144 47 29	2.0	.70	.15	.20	500	N	N	100	500	1.0
CI589S	65 20 10	144 45 45	3.0	.70	.15	.50	700	N	N	100	500	1.0
CI590S	65 39 51	144 36 45	5.0	1.00	.50	.50	1,500	N	N	100	700	1.0
CI591S	65 27 55	145 47 26	3.0	.70	.30	.70	1,000	N	N	150	300	1.0
CI592S	65 28 16	145 46 37	2.0	.30	.15	.50	700	N	N	100	300	1.5
CI593S	65 27 37	145 45 3	3.0	.70	.20	.30	500	N	N	70	300	1.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	Sc-ppm s	Sn-ppm s
CI549S	N	N	7	50	7	20	N	<20	20	10	15	N
CI550S	<10	N	7	70	30	N	N	N	30	10	15	N
CI551S	N	N	10	70	20	20	N	<20	30	10	20	N
CI552S	N	N	7	150	15	30	N	<20	30	15	20	N
CI553S	N	N	7	100	15	30	N	<20	30	15	15	N
CI554S	N	N	7	70	15	50	N	<20	30	10	15	N
CI555S	N	N	7	50	10	20	N	<20	30	15	15	N
CI556S	N	N	7	30	7	20	N	<20	20	15	15	N
CI557S	N	N	7	30	7	20	N	<20	20	20	10	N
CI558S	N	N	30	50	15	30	N	<20	30	10	15	N
CI559S	N	N	10	50	10	50	N	<20	30	10	10	N
CI560S	N	N	10	70	20	30	N	<20	30	15	20	N
CI561S	N	N	10	70	30	20	N	<20	30	30	20	N
CI562S	<10	N	20	70	20	50	N	<20	30	20	15	N
CI563S	N	N	7	50	10	30	N	<20	20	10	10	N
CI564S	N	N	15	70	20	50	N	<20	50	50	15	N
CI565S	N	N	10	70	10	50	N	N	30	30	15	N
CI566S	N	N	10	100	20	30	N	N	50	10	15	N
CI567S	N	N	15	150	30	50	N	N	50	30	20	N
CI568S	N	N	20	100	30	50	N	N	50	20	20	N
CI569S	N	N	20	200	30	50	N	N	50	15	20	N
CI570S	N	N	20	200	30	50	N	N	50	20	15	N
CI571S	N	N	15	100	30	70	N	N	50	20	20	N
CI572S	N	N	20	70	10	100	N	N	50	10	15	N
CI573S	N	N	15	150	15	50	N	N	50	15	15	N
CI574S	N	N	10	70	30	30	N	N	30	30	15	N
CI575S	N	N	7	70	10	30	N	N	30	10	15	N
CI576S	N	N	15	200	30	50	N	N	50	50	20	N
CI577S	N	N	10	200	15	50	N	N	30	20	15	N
CI578S	N	N	20	300	30	50	N	N	50	30	30	N
CI579S	N	N	20	150	20	50	N	N	70	70	20	N
CI580S	N	N	20	100	20	70	N	N	50	50	20	N
CI581S	N	N	15	100	30	70	N	N	50	70	15	N
CI582S	N	N	20	150	30	70	N	N	50	30	20	N
CI583S	N	N	20	300	20	70	N	N	70	30	20	N
CI584S	N	N	20	150	30	70	N	N	50	30	20	N
CI585S	N	N	20	150	20	50	N	N	50	50	20	N
CI586S	N	N	10	50	10	30	N	N	20	20	10	N
CI587S	N	N	20	100	30	30	N	N	50	20	30	N
CI588S	N	N	7	70	15	50	N	N	20	20	10	N
CI589S	N	N	10	100	20	70	N	N	30	20	15	N
CI590S	N	N	70	200	70	50	N	<20	150	20	20	N
CI591S	N	N	20	100	50	20	N	N	50	10	30	N
CI592S	N	N	20	100	30	30	N	<20	50	20	20	N
CI593S	N	N	20	100	30	50	N	<20	70	20	30	N

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Zn-ppm aa	U-inst
CI549S	<100	70	N	20	N	200	N	N	55	.6
CI550S	N	100	N	15	<200	70	N	N	130	.9
CI551S	100	150	N	20	N	150	N	N	85	.8
CI552S	150	100	N	30	<200	200	<100	N	55	1.0
CI553S	150	150	N	30	N	150	N	N	75	1.0
CI554S	<100	100	N	20	N	200	N	N	40	1.0
CI555S	<100	100	N	20	N	150	N	N	60	1.0
CI556S	100	70	N	20	N	150	N	N	25	.7
CI557S	<100	70	N	15	N	200	N	N	50	.7
CI558S	<100	100	N	30	N	150	N	.15	55	1.0
CI559S	<100	70	N	20	N	150	N	N	70	2.0
CI560S	N	100	N	20	N	200	N	N	55	1.0
CI561S	<100	100	N	30	N	150	N	N	60	2.0
CI562S	100	100	N	30	N	150	N	N	60	1.0
CI563S	<100	70	N	20	N	200	N	N	55	1.0
CI564S	100	100	N	20	<200	150	N	N	110	2.0
CI565S	100	100	N	20	N	200	N	N	75	.9
CI566S	100	150	N	20	<200	150	N	N	120	.8
CI567S	100	150	N	30	<200	150	N	N	160	1.0
CI568S	100	150	N	30	<200	150	N	N	140	1.0
CI569S	100	150	N	30	<200	150	N	N	150	.7
CI570S	100	200	N	30	200	100	N	N	120	.7
CI571S	<100	150	N	20	<200	100	N	N	135	1.0
CI572S	<100	100	N	20	<200	200	N	N	160	.9
CI573S	<100	150	N	20	<200	150	N	N	110	.6
CI574S	100	100	N	20	N	150	N	N	60	2.0
CI575S	150	100	N	20	N	200	N	N	50	.8
CI576S	200	150	N	30	<200	150	N	N	160	1.0
CI577S	200	150	N	30	N	200	N	N	90	.9
CI578S	200	150	N	30	<200	150	N	N	170	1.0
CI579S	300	100	N	30	300	150	N	N	220	2.0
CI580S	200	150	N	30	<200	150	N	N	180	1.0
CI581S	150	200	N	30	200	100	N	N	260	1.0
CI582S	100	150	N	30	<200	100	N	N	180	.8
CI583S	200	200	N	30	300	100	N	N	320	1.0
CI584S	150	150	N	30	200	150	N	N	260	.9
CI585S	200	150	N	50	<200	100	N	N	180	1.0
CI586S	100	100	N	15	N	200	N	N	40	1.0
CI587S	100	150	N	30	N	150	N	N	90	1.0
CI588S	<100	100	N	15	N	700	N	N	40	1.0
CI589S	100	100	N	30	N	500	N	N	50	1.0
CI590S	150	300	N	50	<200	300	N	N	110	1.0
CI591S	<100	200	N	30	N	300	N	N	60	1.0
CI592S	<100	150	N	30	<200	200	N	N	70	2.0
CI593S	100	200	N	30	<200	200	N	N	70	1.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	B-ppm S	Ba-ppm S	Be-ppm S
CI594S	65 25 49	145 44 21	5.0	1.50	.30	.50	500	N	N	50	300	1.0
CI595S	65 25 45	145 41 49	2.0	.50	.15	.50	500	N	N	150	500	2.0
CI596S	65 27 28	145 38 49	2.0	.30	.15	.30	500	N	N	70	300	1.5
CI597S	65 28 1	145 35 22	3.0	1.00	.15	.50	500	<.5	N	100	500	1.5
CI598S	65 24 55	145 24 31	3.0	1.00	.15	.50	300	.5	N	100	300	2.0
CI599S	65 24 35	145 24 11	2.0	1.00	.15	.50	300	<.5	N	100	500	2.0
CI600S	65 24 24	145 27 3	3.0	.70	.15	.70	300	<.5	N	150	500	2.0
CI602S	65 42 39	145 46 47	2.0	.50	.15	.20	300	N	N	70	500	1.5
CI603S	65 40 53	145 53 22	2.0	.50	.15	.50	500	N	N	70	500	2.0
CI604S	65 38 35	145 57 1	1.5	.30	.10	.70	300	N	N	100	300	1.5
CI605S	65 34 46	145 52 52	1.5	.30	.10	.30	500	N	N	100	300	1.5
CI606S	65 34 35	145 54 56	1.5	.20	.10	.50	300	N	N	70	300	1.0
CI607S	65 34 51	145 58 44	1.5	.30	.10	.50	300	<.5	N	70	300	1.5
CI608S	65 33 20	146 0 5	1.5	.30	.10	.50	300	N	N	70	300	1.0
CI609S	65 34 8	146 7 2	1.5	.20	.10	.30	500	N	N	70	500	1.0
CI610S	65 35 7	146 0 18	1.5	.30	.10	.70	500	N	N	70	500	1.5
CI611S	65 37 45	145 58 44	2.0	.30	.07	1.00	300	N	N	100	500	1.5
CI612S	65 37 13	146 9 12	1.0	.20	.10	.07	300	N	N	70	300	1.0
CI613S	65 36 53	146 9 7	2.0	.50	.15	.70	500	N	N	70	500	1.5
CI614S	65 36 7	146 11 14	3.0	.50	.15	.70	1,000	N	N	100	700	2.0
CI615S	65 38 14	146 4 42	3.0	.70	.20	.50	500	N	N	100	500	2.0
CI616S	65 39 7	145 57 27	3.0	1.00	.15	.50	500	<.5	N	70	700	1.5
CI617S	65 42 28	146 4 36	3.0	1.00	.50	.50	300	.5	N	70	1,000	1.5
CI618S	65 42 6	146 4 30	5.0	1.00	.10	.70	1,000	N	N	100	700	2.0
CI620S	65 42 53	145 57 19	3.0	1.00	.20	.50	1,000	N	N	70	700	1.5
CI621S	65 53 53	145 10 4	5.0	1.50	1.00	1.00	1,500	N	N	50	1,000	1.0
CI622S	65 49 41	145 12 54	3.0	1.50	1.00	.70	1,500	<.5	N	50	1,000	1.0
CI623S	65 48 29	145 10 54	2.0	1.00	.70	.50	500	N	N	50	1,000	1.0
CI624S	65 48 37	145 7 5	5.0	1.50	1.50	1.00	1,500	N	N	30	1,000	1.0
CI625S	65 48 30	145 3 25	7.0	2.00	1.50	>1.00	1,500	N	N	50	1,500	1.0
CI626S	65 48 6	145 1 45	2.0	.70	.50	.30	500	<.5	N	70	1,000	1.0
CI627S	65 49 11	145 53 30	3.0	1.00	.20	.70	500	<.5	N	100	1,000	1.5
CI628S	65 48 52	145 54 45	3.0	1.50	.30	.50	700	.5	N	70	1,500	1.0
CI629S	65 46 25	145 51 51	2.0	1.00	.20	.30	1,000	.5	N	100	1,500	2.0
CI630S	65 47 18	146 0 51	2.0	.70	.30	.50	500	<.5	N	70	700	1.0
CI631S	65 47 28	146 1 36	1.5	.50	.50	.20	700	N	N	70	700	1.0
CI632S	65 36 7	146 32 46	2.0	.70	.15	.30	500	N	N	70	700	1.5
CI633S	65 35 53	146 32 11	2.0	.70	.10	.50	500	N	N	70	500	1.5
CI634S	65 36 50	146 32 29	3.0	.70	.07	.50	300	<.5	N	70	700	3.0
CI635S	65 37 22	146 29 37	3.0	.70	.15	.50	1,500	<.5	N	100	500	2.0
CI636S	65 39 23	146 24 40	2.0	.70	.10	.50	700	N	N	70	500	2.0
CI637S	65 37 38	146 19 58	2.0	.50	.20	.50	300	N	N	100	300	1.5
CI638S	65 38 5	146 19 19	5.0	1.50	.30	1.00	1,000	N	N	150	500	1.0
CI639S	65 37 52	146 21 37	2.0	1.00	.15	.70	500	N	N	100	300	1.5
CI640S	65 37 48	146 22 27	1.5	1.00	.15	.50	300	N	N	200	300	3.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	Sc-ppm s	Sn-ppm s
CI594S	N	N	30	150	50	30	N	N	70	20	50	N
CI595S	N	N	20	100	20	70	N	<20	30	30	20	N
CI596S	N	N	30	100	30	70	N	<20	70	30	20	N
CI597S	N	N	20	100	30	50	N	<20	50	30	20	N
CI598S	N	N	30	150	30	70	N	<20	70	70	20	N
CI599S	N	N	30	200	30	70	N	<20	70	70	30	N
CI600S	N	N	20	150	30	100	N	20	70	30	20	N
CI602S	N	N	20	100	20	70	N	<20	30	20	15	N
CI603S	N	N	30	150	20	50	N	<20	50	30	20	N
CI604S	N	N	15	70	15	50	N	<20	30	20	15	N
CI605S	N	N	20	100	15	70	N	<20	30	30	15	N
CI606S	N	N	15	70	10	50	N	<20	30	10	15	N
CI607S	N	N	15	70	15	50	N	<20	30	10	15	N
CI608S	N	N	15	70	15	30	N	<20	30	20	15	N
CI609S	N	N	20	70	15	50	N	<20	30	10	15	N
CI610S	N	N	20	100	20	50	N	<20	30	20	20	N
CI611S	N	N	15	70	20	70	N	<20	30	20	20	N
CI612S	N	N	7	70	20	N	N	N	15	20	10	N
CI613S	N	N	20	100	20	70	N	<20	50	15	20	N
CI614S	N	N	30	100	30	150	N	<20	50	30	20	N
CI615S	N	N	20	150	30	50	N	<20	50	30	30	N
CI616S	<10	N	20	200	20	100	N	<20	50	50	30	N
CI617S	<10	N	20	200	30	70	N	<20	50	20	30	N
CI618S	N	N	30	150	50	70	N	<20	50	50	50	N
CI620S	N	N	20	200	30	100	N	<20	50	30	30	N
CI621S	<10	N	30	300	50	20	N	20	70	10	50	N
CI622S	<10	N	30	200	30	50	N	<20	70	20	50	N
CI623S	N	N	20	150	30	70	N	<20	50	20	30	N
CI624S	<10	N	30	300	50	50	N	<20	50	20	70	N
CI625S	<10	N	30	500	50	50	N	20	70	20	70	N
CI626S	<10	N	20	100	30	50	N	N	50	20	20	N
CI627S	N	N	30	300	30	70	N	20	70	30	50	N
CI628S	<10	N	30	500	30	70	N	<20	70	10	50	N
CI629S	N	N	20	150	30	100	N	<20	70	<10	30	N
CI630S	N	N	20	150	20	20	N	<20	50	10	20	N
CI631S	N	N	15	100	30	50	N	N	30	15	15	N
CI632S	N	N	20	70	30	70	N	<20	50	15	20	N
CI633S	N	N	20	100	20	70	N	20	50	20	20	N
CI634S	N	N	20	100	30	70	N	20	50	30	30	N
CI635S	N	N	20	100	30	150	N	<20	50	20	30	N
CI636S	N	N	20	70	20	70	N	<20	50	20	30	N
CI637S	N	N	10	100	10	150	N	<20	30	15	15	N
CI638S	N	N	20	150	30	50	N	<20	70	30	30	N
CI639S	N	N	20	100	20	100	N	<20	50	15	30	N
CI640S	N	N	15	70	20	50	N	<20	30	30	15	N

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Zn-ppm aa	U-inst
CI594S	100	300	N	30	<200	150	N	N	80	.8
CI595S	150	150	N	20	<200	150	N	N	70	1.0
CI596S	<100	150	N	30	<200	150	N	N	120	2.0
CI597S	<100	150	N	20	<200	200	N	N	75	.8
CI598S	<100	150	N	30	200	200	N	N	130	1.0
CI599S	100	150	N	30	<200	150	N	N	110	2.0
CI600S	100	150	N	30	<200	200	N	N	85	2.0
CI602S	150	150	N	20	N	150	N	N	90	.7
CI603S	150	150	N	20	<200	150	N	N	90	.9
CI604S	<100	100	N	30	N	200	<100	.25	60	.9
CI605S	150	100	N	20	N	150	N	N	75	1.0
CI606S	100	100	N	20	N	150	N	N	60	1.0
CI607S	100	100	N	20	N	150	N	N	70	1.0
CI608S	100	100	N	20	N	200	N	N	65	.9
CI609S	100	100	N	20	<200	150	N	N	70	1.0
CI610S	100	150	N	30	N	150	N	N	70	1.0
CI611S	100	150	N	50	N	500	N	<.05	65	2.0
CI612S	100	100	N	10	<200	100	N	N	90	2.0
CI613S	100	150	N	30	<200	200	<100	N	70	1.0
CI614S	100	150	N	30	<200	200	<100	N	80	2.0
CI615S	150	150	N	30	<200	150	<100	N	95	1.0
CI616S	150	150	N	30	<200	150	N	N	110	1.0
CI617S	200	150	N	50	<200	200	<100	N	100	1.0
CI618S	100	150	N	50	<200	200	<100	N	120	1.0
CI620S	150	150	N	30	<200	150	N	N	110	1.0
CI621S	100	200	N	30	<200	150	N	N	95	.7
CI622S	200	200	N	50	<200	150	N	N	110	1.0
CI623S	300	150	N	50	<200	150	N	N	80	1.0
CI624S	200	300	N	50	<200	150	N	N	100	1.0
CI625S	200	300	N	50	N	150	N	N	110	.8
CI626S	300	150	N	30	N	150	N	N	95	1.0
CI627S	100	200	N	50	<200	150	N	N	120	.9
CI628S	100	200	N	50	<200	150	N	N	95	.9
CI629S	100	200	N	30	<200	150	N	N	85	1.0
CI630S	100	150	N	30	N	200	N	N	75	1.0
CI631S	200	150	N	30	N	150	N	N	70	1.0
CI632S	100	150	N	50	<200	200	<100	N	75	1.0
CI633S	100	150	N	30	<200	200	N	N	80	2.0
CI634S	N	150	N	50	<200	200	N	N	110	1.0
CI635S	100	150	N	50	<200	200	N	N	85	2.0
CI636S	100	150	N	50	N	200	N	N	70	1.0
CI637S	100	100	N	30	N	300	N	N	50	1.0
CI638S	100	150	N	30	N	500	N	N	70	1.0
CI639S	<100	150	N	30	N	300	N	N	70	.9
CI640S	100	100	<50	20	N	200	N	N	70	6.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	B-ppm s	Ba-ppm s	Be-ppm s
CI641S	65 41 12	146 22 36	2.0	1.00	.10	.15	300	N	N	70	500	1.5
CI642S	65 35 10	146 26 37	1.5	.30	.15	.07	300	N	N	500	300	7.0
CI643S	65 35 2	146 25 47	1.5	.70	.15	.50	500	N	N	300	300	7.0
CI644S	65 36 17	146 24 2	1.5	.50	.15	.20	500	N	N	150	500	3.0
CI645S	65 37 23	146 22 11	2.0	.70	.15	.70	300	N	N	100	500	1.5
CI646S	65 40 51	146 29 37	2.0	.50	.10	.10	500	<.5	N	70	500	7.0
CI647S	65 41 16	146 24 1	1.5	.50	.15	.15	700	N	N	70	500	10.0
CI648S	65 42 55	146 17 37	2.0	.70	.15	.50	500	N	N	70	500	2.0
CI649S	65 43 46	146 16 30	2.0	1.00	.20	.50	700	<.5	N	100	2,000	2.0
CI650S	65 43 16	146 14 29	2.0	.70	.50	.50	300	N	N	70	700	1.5
CI651S	65 39 48	146 11 42	3.0	1.00	.15	.70	500	N	N	50	300	2.0
CI652S	65 42 4	146 9 48	2.0	.70	.15	.50	500	N	N	50	300	1.5
CI653S	65 42 2	146 10 42	2.0	.70	.15	.50	300	<.5	N	50	300	1.0
CI654S	65 44 13	146 11 22	2.0	.70	.15	.50	500	N	N	70	500	1.0
CI655S	65 34 16	146 19 24	1.5	.50	.15	.20	300	N	N	150	500	5.0
CI656S	65 33 35	146 18 3	2.0	.70	.10	.70	1,500	N	N	150	700	2.0
CI657S	65 33 15	146 18 7	1.5	.30	.10	.70	300	N	N	150	300	1.5
CI658S	65 33 7	146 22 34	1.5	.30	.10	.50	300	N	N	100	500	1.5
CI659S	65 33 11	146 16 4	2.0	.30	.05	.50	300	N	N	70	300	1.5
CI660S	65 32 37	146 15 37	2.0	.20	.10	.70	300	<.5	N	100	300	1.5
CI661S	65 32 39	146 13 59	2.0	.30	.10	.70	300	<.5	N	70	500	2.0
CI662S	65 31 17	146 24 22	2.0	.30	.15	.50	300	<.5	N	70	500	1.5
CI663S	65 30 55	146 24 36	2.0	.30	.15	.70	300	<.5	N	70	500	1.5
CI664S	65 29 29	146 23 43	2.0	.50	.10	1.00	500	<.5	N	100	500	2.0
CI665S	65 29 19	146 23 8	2.0	.50	.15	.50	300	N	N	70	500	2.0
CI666S	65 30 23	146 20 58	2.0	.30	.15	.70	300	N	N	150	500	2.0
CI667S	65 30 48	146 21 9	1.5	.30	.10	.70	300	N	N	70	300	1.5
CI668S	65 30 36	146 19 10	1.5	.50	.15	.50	300	N	N	100	500	1.5
CI669S	65 31 32	146 13 26	1.5	.20	.10	.70	300	N	N	70	300	2.0
CI670S	65 31 57	146 13 8	1.5	.20	.10	.70	300	N	N	100	300	2.0
CI671S	65 31 23	146 10 13	2.0	.30	.10	.50	500	N	N	100	500	1.5
CI672S	65 32 24	146 2 41	2.0	1.00	.20	.50	1,000	<.5	N	70	700	1.0
CI673S	65 46 33	146 3 34	2.0	.70	.50	.50	500	<.5	N	70	1,500	2.0
CI674S	65 46 18	145 55 45	2.0	1.00	.70	.30	500	N	N	100	2,000	3.0
CI675S	65 46 28	145 46 7	1.5	.30	.15	.20	500	<.5	N	70	2,000	1.0
CI676S	65 45 57	145 49 6	2.0	1.50	.70	.70	500	N	N	70	1,000	1.5
CI677S	65 46 15	145 37 4	1.5	.50	.20	.30	500	N	N	70	2,000	1.5
CI678S	65 47 21	145 32 41	1.5	.30	.20	.20	1,000	<.5	N	70	3,000	1.5
CI679S	65 24 44	146 13 50	1.5	.50	.10	.70	300	<.5	N	70	500	1.5
CI680S	65 25 12	146 14 30	2.0	.30	.10	.50	300	N	N	70	500	1.5
CI681S	65 24 49	146 26 32	1.5	.30	.15	.70	300	<.5	N	100	500	3.0
CI682S	65 24 27	146 26 31	1.5	.50	.15	.20	500	N	N	70	300	7.0
CI683S	65 24 4	146 16 45	1.5	.30	.07	.50	300	N	N	70	300	2.0
CI684S	65 22 25	146 18 14	2.0	.30	.10	.20	300	N	N	50	300	1.5
CI685S	65 19 50	146 21 9	2.0	.30	.30	.10	500	N	N	50	150	1.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Bi-ppm 5	Cd-ppm 5	Co-ppm 5	Cr-ppm 5	Cu-ppm 5	La-ppm 5	Mo-ppm 5	Nb-ppm 5	Ni-ppm 5	Pb-ppm 5	Sc-ppm 5	Sn-ppm 5
CI641S	N	N	20	100	20	70	N	<20	50	20	20	N
CI642S	N	N	7	30	7	50	<5	30	15	50	10	70
CI643S	N	N	10	70	10	150	N	30	30	30	15	50
CI644S	N	N	10	70	15	70	N	<20	30	20	15	N
CI645S	N	N	15	100	20	50	N	<20	50	10	20	N
CI646S	N	N	10	70	15	150	<5	<20	30	70	15	100
CI647S	N	N	15	70	15	150	N	<20	30	50	15	100
CI648S	N	N	15	100	15	50	N	<20	30	10	20	N
CI649S	N	N	30	150	30	150	N	20	70	50	20	<10
CI650S	N	N	20	100	15	70	N	<20	30	15	20	N
CI651S	N	N	30	100	30	50	N	<20	50	20	30	N
CI652S	N	N	30	100	30	70	N	<20	50	20	20	N
CI653S	N	N	20	70	20	50	N	N	50	10	20	N
CI654S	N	N	20	100	30	100	N	<20	50	10	20	N
CI655S	N	N	7	70	20	50	N	<20	30	20	15	N
CI656S	N	N	30	100	20	50	N	20	50	30	20	70
CI657S	N	N	10	70	15	50	N	<20	20	20	15	N
CI658S	N	N	10	70	15	30	N	<20	30	30	15	N
CI659S	N	N	15	70	20	50	N	<20	30	20	15	N
CI660S	N	N	20	100	20	70	N	<20	30	20	15	N
CI661S	N	N	20	100	30	70	N	<20	30	30	20	N
CI662S	N	N	15	100	30	70	N	<20	50	50	15	N
CI663S	N	N	20	100	30	70	N	20	50	30	20	N
CI664S	N	N	20	100	30	50	N	20	50	30	30	70
CI665S	N	N	15	100	20	50	N	<20	50	30	15	N
CI666S	N	N	20	100	20	50	N	<20	50	30	15	N
CI667S	N	N	10	70	15	30	N	20	30	20	15	N
CI668S	N	N	15	100	15	50	N	<20	50	30	15	N
CI669S	N	N	20	70	20	30	N	<20	30	30	15	N
CI670S	N	N	15	70	15	30	N	<20	30	20	15	N
CI671S	N	N	30	100	20	50	N	<20	50	30	15	100
CI672S	N	N	30	200	30	70	N	<20	50	50	30	N
CI673S	N	N	30	150	30	70	N	<20	70	20	20	N
CI674S	N	N	30	200	30	70	N	<20	70	50	30	N
CI675S	N	N	30	150	30	50	N	N	50	20	15	N
CI676S	N	N	30	300	30	70	N	20	70	30	30	N
CI677S	N	N	20	150	30	50	N	<20	50	30	20	N
CI678S	N	N	20	100	20	30	N	<20	50	50	15	N
CI679S	N	N	20	70	20	70	N	<20	30	30	15	N
CI680S	N	N	15	100	20	50	N	<20	50	20	15	N
CI681S	N	N	10	70	20	50	N	<20	30	30	15	N
CI682S	N	N	15	70	15	30	N	<20	30	30	10	10
CI683S	N	N	10	50	15	30	N	<20	30	20	10	N
CI684S	N	N	10	50	20	30	N	N	30	20	15	N
CI685S	N	N	10	70	30	20	N	<20	20	10	50	N

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Zn-ppm aa	U-inst
CI641S	100	150	N	30	<200	150	N	N	120	1.0
CI642S	100	70	<50	30	N	200	N	N	70	64.0
CI643S	100	100	50	50	N	300	N	N	80	18.0
CI644S	100	100	50	20	N	200	N	N	90	10.0
CI645S	100	150	N	30	N	200	N	N	65	2.0
CI646S	<100	100	N	100	300	200	N	N	240	14.0
CI647S	100	100	N	50	200	300	N	N	200	11.0
CI648S	100	100	N	30	N	200	N	N	85	.9
CI649S	100	150	N	50	200	150	N	N	260	1.0
CI650S	200	150	N	30	N	150	N	N	85	.9
CI651S	100	150	N	30	N	150	N	N	85	1.0
CI652S	100	150	N	30	N	200	N	N	95	1.0
CI653S	100	150	N	20	N	150	N	N	70	.9
CI654S	<100	150	N	20	N	150	N	N	85	1.0
CI655S	100	100	<50	20	<200	150	N	N	75	.6
CI656S	100	150	<50	20	<200	150	N	N	85	3.0
CI657S	<100	100	N	30	<200	200	N	N	65	4.0
CI658S	<100	100	N	20	<200	200	N	N	90	6.0
CI659S	<100	150	N	20	N	150	N	N	70	1.0
CI660S	100	100	N	30	N	200	N	N	55	1.0
CI661S	100	150	N	30	N	200	N	N	75	2.0
CI662S	100	100	N	50	N	200	N	N	85	3.0
CI663S	100	100	N	30	<200	300	N	N	75	2.0
CI664S	100	100	<50	30	<200	200	N	N	80	4.0
CI665S	100	100	N	20	N	200	N	N	75	4.0
CI666S	100	100	N	30	<200	150	N	N	65	3.0
CI667S	100	100	N	30	N	200	N	N	70	1.0
CI668S	100	100	N	20	N	300	N	N	75	3.0
CI669S	100	100	<50	20	N	200	N	N	70	3.0
CI670S	100	100	N	30	N	200	N	N	60	1.0
CI671S	100	100	N	20	N	200	N	N	80	1.0
CI672S	200	150	N	50	<200	200	<100	N	75	2.0
CI673S	200	150	N	30	<200	150	N	N	150	1.0
CI674S	200	150	N	30	<200	150	N	N	120	.9
CI675S	100	150	N	20	<200	100	N	N	120	1.0
CI676S	200	150	N	30	<200	150	N	N	120	.7
CI677S	100	150	N	30	<200	200	N	N	190	1.0
CI678S	100	150	N	20	700	150	N	N	500	1.0
CI679S	<100	100	N	20	N	150	N	N	75	2.0
CI680S	100	100	N	20	N	150	N	N	70	2.0
CI681S	100	100	N	20	<200	150	N	N	95	6.0
CI682S	100	100	N	30	N	150	N	N	65	31.0
CI683S	100	70	N	30	N	150	N	N	55	6.0
CI684S	<100	100	N	20	N	150	N	N	75	3.0
CI685S	<100	150	N	30	N	150	N	N	50	.9

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	B-ppm s	Ba-ppm s	Be-ppm s
CI686S	65 13 32	146 29 30	1.5	.20	.10	.10	300	N	N	50	300	1.5
CI687S	65 21 51	146 36 3	1.5	.30	.10	.15	500	N	N	70	300	2.0
CI688S	65 20 23	146 42 50	1.5	.20	.05	.20	300	N	N	70	300	1.5
CI689S	65 20 1	146 48 27	1.5	.20	.07	.10	300	N	N	50	300	1.0
CI690S	65 20 32	146 48 39	1.5	.20	.10	.10	200	N	N	50	300	1.0
CI691S	65 20 16	146 54 11	1.0	.15	.05	.10	200	N	N	70	200	1.5
CI692S	65 27 50	146 24 23	1.5	.20	.07	.10	300	<.5	N	100	300	5.0
CI693S	65 27 30	146 24 27	1.0	.10	.10	.07	200	N	N	150	100	7.0
CI694S	65 27 29	146 21 5	1.5	.15	.10	.10	300	<.5	N	100	200	5.0
CI695S	65 27 28	146 19 21	1.5	.30	.10	.15	300	N	N	50	300	1.5
CI696S	65 28 29	146 15 22	1.5	.15	.10	.10	300	N	N	50	300	1.0
CI697S	65 28 18	146 16 46	1.5	.20	.07	.10	300	N	N	100	200	3.0
CI698S	65 29 15	146 13 1	1.5	.20	.10	.10	200	N	N	50	300	1.5
CI699S	65 30 52	146 10 52	1.5	.15	.10	.07	300	N	N	100	200	2.0
CI700S	65 30 57	146 6 30	1.5	.15	.10	.20	200	N	N	70	300	1.5
CI701S	65 31 18	146 4 48	1.5	.15	.10	.10	300	N	N	50	200	1.0
CI702S	65 28 26	146 6 40	1.5	.15	.07	.10	300	N	N	70	300	1.0
CI703S	65 25 32	146 4 26	1.5	.20	.10	.15	300	N	N	50	200	1.0
CI704S	65 25 34	146 3 22	1.5	.20	.10	.15	200	N	N	70	200	1.0
CI705S	65 26 40	146 4 18	1.5	.15	.05	.10	200	N	N	50	150	1.0
CI706S	65 26 56	146 5 3	1.5	.20	.05	.15	300	N	N	50	300	1.0
CI707S	65 27 43	146 3 21	2.0	.50	.10	.50	300	<.5	N	70	300	2.0
CI708S	65 29 44	146 3 30	2.0	.50	.07	.50	300	<.5	N	100	300	2.0
CI709S	65 26 29	145 57 39	2.0	.50	.15	.50	500	N	N	150	300	1.5
CI710S	65 26 58	145 56 51	2.0	.70	.15	.30	300	N	N	200	300	2.0
CI711S	65 27 47	145 56 38	2.0	.50	.15	.50	500	N	N	200	300	2.0
CI713S	65 28 53	145 55 55	2.0	.70	.15	.30	500	N	N	150	300	3.0
CI714S	65 29 31	145 51 0	2.0	.50	.15	.50	500	N	N	70	300	1.5
CI715S	65 29 10	145 51 39	2.0	.50	.15	.70	500	N	N	150	300	3.0
CI716S	65 29 22	145 55 31	1.5	.30	.10	1.00	300	N	N	70	300	2.0
CI717S	65 30 15	145 57 51	2.0	.30	.10	.50	300	N	N	150	300	1.5
CI718S	65 31 8	145 58 2	1.5	.30	.10	.70	700	N	N	150	300	1.5
CI719S	65 31 25	146 3 29	2.0	.70	.10	.50	300	N	N	100	500	3.0
CI720S	65 31 46	146 2 25	1.5	.30	.10	.30	300	N	N	100	300	1.5
CI721S	65 31 5	145 51 3	1.5	.50	.15	.50	1,500	<.5	N	70	300	1.5
CI722S	65 31 26	145 50 24	2.0	.70	.10	.50	500	2.0	N	100	300	2.0
CI723S	65 31 33	145 57 14	2.0	.50	.15	.50	500	N	N	100	500	1.5
CI724S	65 32 35	146 1 13	1.5	.30	.10	.70	500	N	N	100	300	1.5
CI725S	65 42 34	145 57 13	2.0	.70	.15	.50	700	N	N	70	500	1.5
CI726S	65 42 15	145 51 45	2.0	.70	.20	.70	500	N	N	70	300	1.5
CI727S	65 43 33	145 42 5	2.0	.70	.30	.70	300	N	N	70	500	1.5
CI728S	65 36 3	145 36 9	1.5	.30	.07	.70	300	N	N	70	300	1.0
CI729S	65 36 1	145 35 0	1.5	.30	.10	.50	700	N	N	50	300	1.5
CI730S	65 36 23	145 32 42	2.0	.50	.15	.70	500	N	N	70	500	1.5
CI731S	65 39 36	145 31 10	2.0	.30	.10	.50	500	N	N	70	300	1.5

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	Sc-ppm s	Sn-ppm s
CI686S	N	N	15	70	10	50	N	N	30	15	15	N
CI687S	N	N	30	30	10	30	N	<20	50	20	10	N
CI688S	N	N	7	50	20	20	N	<20	30	20	15	N
CI689S	N	N	7	50	10	<20	N	N	20	15	10	10
CI690S	N	N	7	30	7	20	N	N	20	<10	10	N
CI691S	N	N	5	20	5	20	N	N	15	N	10	N
CI692S	N	N	5	30	15	<20	N	<20	20	20	10	20
CI693S	N	N	<5	10	5	<20	N	<20	5	20	N	50
CI694S	N	N	5	30	15	30	N	<20	20	20	10	70
CI695S	N	N	10	70	15	30	N	N	30	30	15	N
CI696S	N	N	7	50	10	20	N	N	30	15	10	N
CI697S	N	N	7	20	7	20	N	N	20	10	10	20
CI698S	N	N	7	50	15	30	N	N	30	10	15	N
CI699S	N	N	7	30	10	<20	N	<20	20	10	10	15
CI700S	N	N	7	50	10	20	N	<20	20	10	15	N
CI701S	N	N	7	30	7	<20	N	<20	20	<10	15	N
CI702S	N	N	7	30	10	20	N	N	20	10	10	N
CI703S	N	N	10	50	15	20	N	N	30	15	15	N
CI704S	N	N	10	50	20	30	N	N	30	10	15	N
CI705S	N	N	7	20	20	<20	N	N	20	10	15	N
CI706S	N	N	7	30	10	20	N	N	30	10	15	N
CI707S	N	N	20	70	30	150	N	<20	30	30	20	N
CI708S	N	N	30	70	30	50	N	<20	50	20	20	N
CI709S	N	N	20	70	30	30	N	<20	50	20	20	N
CI710S	N	N	20	70	50	30	N	N	50	15	20	N
CI711S	N	N	20	70	30	30	N	N	50	20	20	N
CI713S	N	N	20	70	30	30	N	N	50	50	20	N
CI714S	N	N	20	70	20	50	N	<20	50	20	20	N
CI715S	N	N	20	70	30	70	10	<20	30	20	20	N
CI716S	N	N	15	50	20	50	N	<20	30	10	15	N
CI717S	N	N	10	50	15	100	N	<20	20	15	15	N
CI718S	N	N	15	30	20	20	N	<20	30	10	15	N
CI719S	N	N	20	100	20	70	N	<20	30	30	20	N
CI720S	N	N	20	70	15	50	N	<20	30	20	15	N
CI721S	N	N	30	100	15	70	N	<20	50	20	20	N
CI722S	N	N	20	70	15	50	N	<20	30	30	20	N
CI723S	N	N	20	70	15	50	N	<20	30	30	15	N
CI724S	N	N	15	50	15	50	N	<20	30	10	20	N
CI725S	N	N	20	150	30	70	N	<20	50	30	20	N
CI726S	N	N	20	100	20	30	N	<20	50	30	20	N
CI727S	N	N	15	100	15	70	N	20	30	20	20	N
CI728S	N	N	10	50	10	30	N	<20	20	10	15	N
CI729S	N	N	30	70	15	20	N	<20	30	20	15	N
CI730S	N	N	15	70	10	50	N	<20	30	15	15	N
CI731S	N	N	10	100	15	30	N	N	30	10	15	N

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Zn-ppm aa	U-inst
CI686S	<100	100	N	20	<200	150	N	N	80	2.0
CI687S	<100	70	N	20	N	150	N	N	100	12.0
CI688S	<100	70	N	15	N	150	N	N	70	4.0
CI689S	N	70	N	15	N	150	N	N	65	4.0
CI690S	<100	70	N	15	N	150	N	N	60	2.0
CI691S	<100	50	N	10	N	150	N	N	50	2.0
CI692S	100	70	N	20	<200	150	N	N	85	12.0
CI693S	N	20	N	30	N	100	N	N	70	20.0
CI694S	N	100	N	20	<200	100	N	N	120	14.0
CI695S	<100	100	N	20	<200	100	N	N	100	2.0
CI696S	100	70	N	10	N	200	N	N	60	2.0
CI697S	N	50	N	15	N	100	N	N	70	8.0
CI698S	100	100	N	20	<200	150	N	N	70	3.0
CI699S	<100	70	N	15	N	150	N	N	70	7.0
CI700S	100	100	N	15	N	200	N	N	65	3.0
CI701S	100	70	N	15	N	200	N	N	60	1.0
CI702S	<100	70	N	10	N	150	N	N	70	1.0
CI703S	<100	100	N	15	N	150	N	.30	85	1.0
CI704S	<100	100	N	15	N	150	N	N	60	.9
CI705S	N	70	N	10	N	150	N	N	60	.9
CI706S	<100	70	N	15	N	150	N	N	70	2.0
CI707S	<100	100	N	70	N	150	<100	N	60	2.0
CI708S	<100	100	N	30	N	150	N	N	65	2.0
CI709S	100	100	<50	30	N	150	N	N	95	1.0
CI710S	100	100	100	30	N	200	N	N	65	1.0
CI711S	100	150	<50	30	N	200	N	<.05	70	1.0
CI713S	100	150	100	30	N	200	N	N	75	3.0
CI714S	<100	150	<50	30	N	200	N	N	70	2.0
CI715S	<100	150	300	20	N	200	N	N	55	2.0
CI716S	<100	100	<50	30	N	150	N	N	50	1.0
CI717S	100	100	<50	20	N	200	N	N	45	.9
CI718S	<100	100	70	20	N	150	N	N	50	1.0
CI719S	100	150	N	30	N	200	N	N	70	2.0
CI720S	100	100	N	20	N	200	N	N	60	2.0
CI721S	100	150	N	50	N	200	N	N	70	2.0
CI722S	<100	100	N	30	N	150	N	N	50	.9
CI723S	100	100	N	30	N	200	N	N	55	1.0
CI724S	<100	100	<50	30	N	200	N	N	50	.9
CI725S	100	150	N	20	<200	150	N	.50	100	.9
CI726S	100	150	N	20	N	150	N	N	80	.8
CI727S	150	150	N	30	N	300	N	.40	70	1.0
CI728S	100	100	N	20	N	300	N	N	40	.6
CI729S	100	100	N	20	N	200	N	N	60	.9
CI730S	100	100	N	30	N	200	<100	N	45	.9
CI731S	<100	100	N	20	N	300	N	N	50	.8

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	B-ppm s	Ba-ppm s	Be-ppm s
CI732S	65 39 0	145 21 30	2.0	.30	.10	.20	300	N	N	50	300	1.0
CI733S	65 44 54	145 24 46	2.0	.50	.20	.50	300	N	N	100	700	1.0
CI734S	65 55 12	146 58 5	3.0	2.00	1.00	1.00	500	N	N	70	1,500	1.5
CI735S	65 57 8	146 53 47	5.0	.70	.20	.30	300	N	N	150	700	3.0
CI736S	65 55 19	146 55 0	3.0	.30	.15	.10	200	N	N	100	500	7.0
CI737S	65 55 39	146 51 31	1.5	.50	.15	.15	500	N	N	70	1,000	2.0
CI738S	65 55 17	146 47 59	2.0	1.00	.70	.15	2,000	<.5	N	70	1,000	2.0
CI739S	65 54 52	146 44 12	1.5	.70	.50	.15	300	N	N	70	1,000	1.5
CI740S	65 51 27	146 58 30	2.0	.70	.30	.15	300	N	N	70	700	2.0
CI741S	65 50 39	146 56 46	2.0	1.00	.70	.15	300	<.5	N	100	1,000	2.0
CI742S	65 51 59	146 49 51	2.0	1.00	.30	.30	300	<.5	N	100	700	2.0
CI743S	65 52 13	146 50 37	1.5	.50	1.00	.15	300	N	N	70	700	2.0
CI744S	65 51 15	146 51 34	1.5	.70	.30	.50	500	N	N	100	1,000	2.0
CI745S	65 49 13	146 38 37	2.0	1.00	.15	.50	500	<.5	N	100	1,000	2.0
CI746S	65 30 27	145 7 32	2.0	.70	.15	.70	700	<.5	N	100	700	3.0
CI747S	65 30 27	145 6 43	1.5	.20	1.00	.07	200	<.5	N	70	300	3.0
CI748S	65 31 5	145 5 24	2.0	.30	.15	.50	300	<.5	N	50	500	2.0
CI749S	65 32 15	145 5 9	2.0	.70	1.00	.70	500	N	N	100	500	2.0
CI750S	65 27 17	144 45 53	3.0	1.00	.20	.50	1,000	<.5	N	50	500	5.0
CI751S	65 27 10	144 44 59	3.0	1.00	.20	.50	1,500	<.5	N	50	500	3.0
CI752S	65 26 19	144 37 37	2.0	.70	.50	.50	1,000	N	N	30	700	3.0
CI753S	65 28 34	144 35 51	2.0	.50	.50	.50	700	N	N	50	700	3.0
CI754S	65 27 11	144 33 0	3.0	1.00	.20	.70	700	<.5	N	100	500	1.5
CI755S	65 28 52	144 40 7	1.5	.30	.20	.10	300	N	N	30	700	5.0
CI756S	65 26 39	144 29 29	2.0	1.00	.30	.50	700	N	N	50	1,000	3.0
CI757S	65 26 27	144 28 55	3.0	1.00	.30	.70	700	<.5	N	50	1,000	3.0
CI758S	65 28 42	144 44 28	2.0	.70	.20	.70	1,000	N	N	50	500	5.0
CI759S	65 28 59	144 45 27	2.0	.50	.15	.50	700	<.5	N	50	300	7.0
CI760S	65 25 21	145 1 19	5.0	1.50	.30	.70	500	<.5	N	50	300	2.0
CI761S	65 25 10	145 0 50	5.0	1.50	.50	.70	500	N	N	70	300	1.5
CI762S	65 26 3	144 57 52	5.0	1.00	.20	.50	500	<.5	N	50	700	3.0
CI763S	65 26 9	144 58 17	5.0	1.00	.20	.70	500	<.5	N	50	300	2.0
CI764S	65 27 57	145 6 53	2.0	.50	.20	.50	300	N	N	70	300	1.5
CI765S	65 27 45	145 6 14	1.5	.70	.20	.50	500	N	N	50	500	1.5
CI766S	65 26 41	145 4 1	2.0	1.00	.15	.50	300	N	N	70	500	3.0
CI767S	65 26 43	145 4 55	2.0	.50	.15	.70	300	N	N	70	300	2.0
CI768S	65 28 3	145 4 40	2.0	.50	.15	.70	300	<.5	N	50	300	2.0
CI769S	65 27 40	145 4 21	2.0	.50	.15	.70	300	<.5	N	70	300	1.5
CI770S	65 30 15	144 59 14	3.0	.70	.15	.70	700	<.5	N	100	500	3.0
CI771S	65 30 18	145 0 33	2.0	.50	.15	.70	300	<.5	N	70	300	1.5
CI772S	65 32 16	144 57 0	1.5	.50	.15	.70	300	<.5	N	70	300	3.0
CI773S	65 34 41	144 53 41	2.0	.50	.20	.70	300	N	N	70	300	2.0
CI774S	65 44 21	146 50 42	3.0	.30	.10	.50	500	1.5	N	150	2,000	2.0
CI775S	65 43 50	146 44 17	5.0	.30	.15	.20	200	2.0	N	70	2,000	2.0
CI776S	65 46 5	146 44 40	5.0	.30	.20	.30	300	1.5	N	70	2,000	2.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	Sc-ppm S	Sn-ppm S
CI732S	N	N	10	50	15	50	N	N	20	20	10	N
CI733S	N	N	15	200	30	50	N	<20	50	20	20	N
CI734S	N	N	30	300	30	70	N	20	70	50	50	N
CI735S	N	N	30	150	50	70	N	<20	70	50	30	N
CI736S	N	N	10	100	100	50	N	N	30	50	15	N
CI737S	N	N	20	100	30	50	N	<20	50	70	20	N
CI738S	N	N	20	150	50	100	N	N	50	50	20	N
CI739S	N	N	15	150	30	70	N	N	50	30	20	N
CI740S	N	N	20	100	30	70	N	<20	50	50	20	N
CI741S	N	N	20	150	30	70	N	<20	70	50	20	N
CI742S	N	N	30	100	30	70	N	<20	70	70	20	N
CI743S	N	N	15	100	30	50	N	N	50	50	20	N
CI744S	N	N	20	100	30	100	N	<20	70	50	20	N
CI745S	N	N	30	300	30	70	N	20	70	30	30	N
CI746S	N	N	30	100	30	100	N	<20	30	100	30	N
CI747S	N	N	7	50	10	50	N	N	15	50	7	<10
CI748S	N	N	10	70	20	50	N	20	30	70	15	50
CI749S	N	N	15	100	20	150	N	20	30	70	20	30
CI750S	N	N	30	100	30	70	N	<20	30	100	30	N
CI751S	N	N	30	100	50	50	N	<20	50	70	30	N
CI752S	N	N	20	100	15	50	N	<20	30	70	20	N
CI753S	N	N	10	70	10	50	N	<20	20	50	20	N
CI754S	N	N	30	100	30	50	N	<20	50	30	30	N
CI755S	N	N	7	30	10	100	N	20	15	70	10	30
CI756S	N	N	15	70	15	100	N	<20	30	50	15	<10
CI757S	N	N	20	100	20	100	N	<20	30	50	20	N
CI758S	<10	N	20	100	20	150	N	50	30	50	30	70
CI759S	<10	N	20	70	20	100	N	30	30	100	20	70
CI760S	N	N	50	200	50	70	N	20	70	30	50	N
CI761S	N	N	30	150	50	50	N	<20	70	30	70	N
CI762S	N	N	30	150	30	70	N	<20	70	70	30	N
CI763S	N	N	30	200	50	50	N	20	70	30	50	N
CI764S	N	N	20	100	15	70	N	<20	50	30	20	N
CI765S	N	N	20	100	20	70	N	<20	50	30	20	N
CI766S	N	N	30	100	30	50	N	<20	70	30	30	N
CI767S	N	N	20	70	20	50	N	20	50	20	20	N
CI768S	N	N	20	100	20	70	N	<20	50	30	20	<10
CI769S	N	N	20	70	20	50	N	<20	50	20	20	N
CI770S	N	N	30	100	20	70	N	<20	30	70	30	N
CI771S	N	N	20	100	20	50	N	<20	50	20	20	N
CI772S	N	N	15	70	20	50	N	<20	30	15	15	N
CI773S	N	N	20	70	20	50	N	<20	30	30	30	N
CI774S	N	N	20	150	30	50	5	<20	50	30	30	N
CI775S	N	N	15	100	30	100	5	<20	50	30	20	N
CI776S	N	N	20	100	30	50	7	<20	70	20	20	N

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Zn-ppm aa	U-inst
CI732S	100	100	N	15	N	300	N	N	45	.9
CI733S	100	150	N	30	<200	200	N	N	95	.8
CI734S	200	200	N	30	<200	200	N	N	160	.9
CI735S	100	150	N	30	<200	150	<100	N	160	3.0
CI736S	100	100	N	50	<200	100	N	N	150	7.0
CI737S	100	150	N	30	<200	200	N	N	130	1.0
CI738S	200	150	N	50	<200	150	N	N	140	1.0
CI739S	200	150	N	30	<200	150	N	N	100	.9
CI740S	150	150	N	30	<200	150	N	N	170	1.0
CI741S	150	150	N	30	<200	150	N	N	140	1.0
CI742S	100	150	N	50	200	200	N	N	120	1.0
CI743S	200	100	N	30	<200	150	N	N	140	2.0
CI744S	150	150	N	30	<200	200	N	N	130	2.0
CI745S	100	200	<50	30	<200	200	N	N	120	.9
CI746S	100	150	N	50	<200	300	N	N	35	3.0
CI747S	<100	70	N	15	N	100	N	N	40	2.0
CI748S	100	100	N	30	<200	200	N	.05	80	3.0
CI749S	100	100	N	70	N	200	N	2.00	90	3.0
CI750S	200	150	<50	50	<200	300	N	N	110	3.0
CI751S	150	150	N	30	200	150	N	2.00	150	2.0
CI752S	300	150	N	70	<200	150	N	N	120	2.0
CI753S	300	150	N	30	<200	200	N	N	95	3.0
CI754S	100	150	N	30	<200	200	N	.50	75	2.0
CI755S	100	100	N	30	N	200	N	.10	65	5.0
CI756S	300	150	N	30	<200	150	N	N	110	3.0
CI757S	300	150	N	30	<200	200	N	N	110	2.0
CI758S	150	150	50	50	<200	300	<100	1.50	110	6.0
CI759S	<100	150	<50	70	<200	200	<100	N	80	6.0
CI760S	100	200	N	30	N	200	N	N	65	.9
CI761S	100	200	N	30	N	150	N	N	75	.9
CI762S	150	200	N	50	<200	200	N	.10	90	2.0
CI763S	100	200	N	30	<200	200	N	N	70	.9
CI764S	100	150	N	20	N	300	N	N	55	2.0
CI765S	100	150	N	30	N	300	N	N	65	3.0
CI766S	100	150	N	30	N	300	N	N	75	2.0
CI767S	150	150	N	20	N	200	N	N	55	1.0
CI768S	100	150	N	30	N	150	N	N	70	1.0
CI769S	150	100	N	20	N	500	N	.35	50	2.0
CI770S	100	150	N	30	<200	200	N	N	95	2.0
CI771S	100	150	N	20	N	200	N	N	55	1.0
CI772S	100	150	N	20	N	200	N	N	50	.9
CI773S	100	100	N	30	N	200	N	N	60	1.0
CI774S	150	200	N	30	<200	200	N	N	95	2.0
CI775S	<100	150	N	50	<200	150	N	N	140	2.0
CI776S	100	150	N	70	<200	150	N	N	130	2.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	B-ppm s	Ba-ppm s	Be-ppm s
C1777S	65 46 46	146 40 33	3.0	.30	.10	.15	200	1.5	N	100	3,000	2.0
C1778S	65 47 39	146 36 57	3.0	.50	.10	.30	1,000	N	N	150	1,000	3.0
C1779S	65 46 28	146 31 54	3.0	.30	.05	.15	200	.5	N	100	5,000	2.0
C1780S	65 46 37	146 31 4	2.0	.50	.20	.50	500	1.0	N	20	2,000	2.0
C1781S	65 49 13	146 33 2	3.0	.30	.10	.20	1,000	.5	N	100	3,000	3.0
C1782S	65 33 58	145 4 49	2.0	.50	.15	.70	300	N	N	70	500	1.5
C1783S	65 32 27	145 36 1	2.0	.70	.15	.30	500	.5	N	70	500	2.0
C1784S	65 32 7	145 35 51	2.0	.70	.10	.50	300	.5	N	50	300	1.5
C1785S	65 32 17	145 33 42	2.0	.70	.15	.50	500	.5	N	70	700	3.0
C1786S	65 32 48	145 29 16	2.0	.50	.10	.50	300	.5	N	70	300	1.5
C1787S	65 33 17	145 29 46	2.0	.30	.15	.50	700	N	N	50	500	2.0
C1788S	65 33 34	145 26 58	1.5	.20	.10	1.00	300	N	N	70	200	1.0
C1789S	65 30 56	145 25 18	2.0	.50	.15	.70	300	<.5	N	150	300	1.5
C1790S	65 30 44	145 24 38	3.0	.70	.15	.70	300	<.5	N	70	300	2.0
C1791S	65 31 47	145 23 15	2.0	.70	.10	.30	500	1.0	N	70	500	1.5
C1792S	65 32 10	145 21 56	3.0	.70	.15	.70	300	<.5	N	70	500	2.0
C1793S	65 33 15	145 19 18	2.0	.50	.15	.70	300	<.5	N	150	300	2.0
C1794S	65 33 34	145 19 58	1.5	.20	.10	.70	300	N	N	100	200	1.0
C1795S	65 33 11	145 15 6	2.0	.30	.10	.70	1,000	N	N	70	500	1.5
C1796S	65 33 5	145 11 14	2.0	.50	.15	.70	300	<.5	N	70	300	1.5
C1798S	65 45 22	146 33 20	3.0	.30	.20	.20	500	1.0	N	100	5,000	2.0
C1799S	65 45 14	146 32 35	2.0	.30	.10	.20	300	.7	N	100	3,000	2.0
C1800S	65 43 11	146 32 38	2.0	.50	.15	.30	2,000	1.0	N	100	>5,000	2.0
C1801S	65 43 25	146 33 34	3.0	.30	.15	.30	1,500	.7	N	70	2,000	2.0
C1802S	65 42 33	146 30 27	2.0	.50	.20	.30	1,000	<.5	N	70	1,000	3.0
C1803S	65 42 42	146 29 13	2.0	.30	.15	.15	500	.5	N	70	2,000	2.0
C1804S	65 44 8	146 28 32	2.0	.30	.15	.15	300	1.0	N	100	>5,000	2.0
C1805S	65 44 25	146 27 58	5.0	.20	.05	.10	70	.7	N	50	3,000	1.5
C1806S	65 45 29	146 30 6	3.0	.20	.10	.15	200	1.0	N	70	3,000	2.0
C1807S	65 29 48	145 35 54	2.0	.70	.15	.70	500	.7	N	70	500	3.0
C1808S	65 30 14	145 35 0	2.0	.50	.15	.50	300	.5	N	70	500	2.0
C1809S	65 30 0	145 34 55	2.0	.70	.15	.50	30	.7	N	70	500	2.0
C1810S	65 29 50	145 31 3	3.0	.70	.15	1.00	500	.5	N	150	500	3.0
C1811S	65 29 48	145 31 57	2.0	.50	.10	.50	500	<.5	N	100	500	2.0
C1812S	65 27 29	145 29 13	3.0	.70	.10	.50	300	N	N	150	500	2.0
C1813S	65 27 53	145 30 2	2.0	.70	.15	.70	500	<.5	N	150	500	2.0
C1814S	65 28 0	145 24 12	3.0	1.00	.20	.70	500	<.5	N	70	500	2.0
C1815S	65 52 53	146 22 3	2.0	.30	.20	.20	300	.5	N	70	1,000	1.5
C1816S	65 52 12	146 18 21	2.0	.50	.30	.50	500	<.5	N	70	1,500	2.0
C1817S	65 51 32	146 16 39	2.0	1.00	.20	.30	300	N	N	70	1,000	1.5
C1818S	65 50 48	146 16 52	3.0	.70	.15	.50	500	N	N	100	1,000	3.0
C1819S	65 49 7	146 20 23	3.0	.70	.15	.50	700	<.5	N	100	1,500	3.0
C1820S	65 46 30	146 26 50	2.0	.50	.15	.70	300	.7	N	70	2,000	2.0
C1821S	65 45 2	146 21 32	2.0	.15	.05	.10	100	.5	N	70	1,500	1.5
C1822S	65 44 59	146 20 32	2.0	.30	.07	.20	150	.7	N	70	1,500	1.5

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Bi-ppm	Cd-ppm	Co-ppm	Cr-ppm	Cu-ppm	La-ppm	Mo-ppm	Nb-ppm	Ni-ppm	Pb-ppm	Sc-ppm	Sn-ppm
	5	5	5	5	5	5	5	5	5	5	5	5
CI777S	N	N	7	100	50	100	10	<20	50	30	20	N
CI778S	N	N	30	150	50	100	<5	<20	70	50	30	N
CI779S	N	N	7	150	50	150	15	N	50	20	20	N
CI780S	N	N	20	150	30	100	7	<20	70	30	20	N
CI781S	N	N	30	150	50	100	10	<20	70	20	20	N
CI782S	N	N	20	100	30	50	N	<20	30	30	20	N
CI783S	N	N	20	100	30	70	N	<20	50	50	20	N
CI784S	N	N	30	200	30	70	N	<20	50	30	20	N
CI785S	N	N	20	100	30	100	N	<20	70	50	30	10
CI786S	N	N	20	100	30	70	N	<20	50	70	20	N
CI787S	N	N	30	100	20	50	N	<20	50	20	20	N
CI788S	N	N	7	50	15	50	N	<20	20	15	15	N
CI789S	N	N	20	70	30	70	N	<20	50	20	30	N
CI790S	N	N	20	100	30	50	N	<20	50	30	30	N
CI791S	N	N	30	100	20	50	N	<20	50	50	20	30
CI792S	N	N	20	100	30	70	N	<20	50	30	20	N
CI793S	N	N	20	70	20	70	N	20	30	50	20	N
CI794S	N	N	7	30	10	30	N	<20	20	30	10	N
CI795S	N	N	30	70	20	50	N	<20	30	30	20	N
CI796S	N	N	20	100	20	50	N	<20	30	30	30	N
CI798S	N	N	20	150	30	100	5	<20	50	20	20	N
CI799S	N	N	15	150	50	150	15	<20	50	20	30	N
CI800S	N	N	30	100	30	70	10	<20	50	30	20	N
CI801S	N	N	20	150	30	50	10	<20	50	20	20	N
CI802S	N	N	30	150	30	70	N	<20	50	50	20	N
CI803S	N	N	20	150	30	50	N	N	50	20	20	N
CI804S	N	N	7	100	50	50	10	N	50	30	15	15
CI805S	N	N	5	100	50	50	10	N	30	20	20	N
CI806S	N	N	5	100	50	20	15	N	30	20	15	N
CI807S	N	N	20	100	30	70	N	<20	70	50	30	N
CI808S	N	N	20	70	30	100	N	<20	50	50	20	N
CI809S	N	N	20	100	30	70	N	<20	70	50	20	N
CI810S	N	N	20	100	30	150	N	<20	50	50	30	N
CI811S	N	N	15	70	30	50	N	<20	50	30	20	N
CI812S	N	N	20	100	30	70	N	<20	50	20	20	N
CI813S	N	N	20	70	20	50	N	<20	50	30	20	N
CI814S	N	N	30	100	50	50	N	<20	50	30	30	N
CI815S	N	N	20	150	30	70	N	<20	50	30	20	N
CI816S	N	N	20	150	30	100	N	<20	70	20	30	N
CI817S	N	N	20	200	30	70	N	<20	70	50	20	N
CI818S	N	N	30	150	30	100	N	20	50	20	30	N
CI819S	N	N	30	200	30	100	N	20	70	20	30	N
CI820S	N	N	15	200	30	100	10	20	50	20	20	N
CI821S	N	N	5	70	50	30	10	N	20	15	15	N
CI822S	N	N	7	200	50	70	20	N	50	20	30	N

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Zn-ppm aa	U-inst
CI777S	100	200	N	70	N	150	N	N	60	1.0
CI778S	100	150	N	30	200	150	N	N	150	1.0
CI779S	<100	200	N	30	<200	150	N	N	70	1.0
CI780S	100	200	N	50	<200	200	N	N	140	2.0
CI781S	100	200	N	30	<200	150	N	N	120	2.0
CI782S	100	150	N	30	<200	300	N	N	70	2.0
CI783S	100	150	N	50	<200	150	N	.10	110	2.0
CI784S	<100	150	N	30	<200	150	N	N	110	2.0
CI785S	100	150	<50	30	<200	200	N	N	110	2.0
CI786S	<100	150	N	30	<200	200	N	N	85	2.0
CI787S	100	150	N	30	<200	200	N	N	90	.9
CI788S	<100	100	<50	20	N	300	N	.05	35	1.0
CI789S	100	150	N	30	N	150	N	N	65	2.0
CI790S	<100	150	<50	30	N	200	N	N	70	2.0
CI791S	<100	150	N	30	<200	150	N	9.00	100	2.0
CI792S	100	150	N	30	N	200	N	<.05	80	2.0
CI793S	100	100	N	30	N	300	N	N	80	1.0
CI794S	N	70	N	15	N	200	N	N	35	.8
CI795S	<100	100	N	30	N	200	N	N	60	1.0
CI796S	<100	150	N	30	N	200	N	.10	60	1.0
CI798S	100	200	N	30	<200	150	N	N	95	1.0
CI799S	<100	300	N	30	N	150	N	N	80	.9
CI800S	100	200	N	30	N	200	N	N	80	2.0
CI801S	100	200	N	30	<200	200	N	N	120	2.0
CI802S	200	150	N	50	200	300	N	N	160	1.0
CI803S	150	200	N	30	N	200	N	N	75	1.0
CI804S	100	300	N	30	<200	150	N	N	55	3.0
CI805S	<100	200	N	50	N	100	N	N	45	2.0
CI806S	<100	200	N	20	N	100	N	N	50	2.0
CI807S	100	150	N	50	N	300	N	N	85	3.0
CI808S	100	100	N	50	N	300	N	N	70	4.0
CI809S	100	150	N	30	N	200	N	N	85	3.0
CI810S	100	150	N	30	N	200	N	<.05	65	2.0
CI811S	150	100	N	30	N	300	N	N	70	2.0
CI812S	<100	100	N	30	N	150	N	N	70	1.0
CI813S	100	100	N	20	<200	200	N	N	60	1.0
CI814S	100	150	N	30	<200	200	N	N	80	1.0
CI815S	150	150	N	30	<200	150	N	N	100	.9
CI816S	150	200	N	50	N	200	N	N	100	.8
CI817S	100	200	N	20	<200	200	N	N	110	.4
CI818S	100	150	N	50	N	150	N	N	75	.3
CI819S	100	200	N	50	N	200	<100	N	70	.4
CI820S	<100	300	N	30	<200	200	N	N	85	.4
CI821S	<100	150	N	20	N	100	N	N	45	.7
CI822S	<100	300	N	30	N	150	N	N	50	.9

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--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	B-ppm s	Ba-ppm s	Be-ppm s
CI823S	65 46 24	146 21 45	7.0	.20	.07	.20	100	<.5	N	50	1,500	1.0
CI824S	65 46 8	146 21 0	5.0	.70	.20	.70	>5,000	<.5	N	70	1,500	1.5
CI825S	65 48 12	146 18 16	3.0	.30	.10	.70	300	.5	N	70	1,500	1.5
CI826S	65 48 25	146 17 31	3.0	.30	.15	.70	500	<.5	N	70	700	2.0
CI827S	65 50 59	146 10 33	2.0	.70	.50	.30	500	1.0	N	50	700	1.5
CI828S	65 50 52	146 11 33	2.0	1.00	1.00	.30	500	<.5	N	50	1,000	1.5
CI829S	65 50 27	146 14 47	2.0	1.00	.50	.30	300	N	N	50	700	1.0
CI830S	65 50 55	146 14 43	2.0	.70	.20	.20	300	N	N	70	1,000	1.5
CI831S	65 50 27	146 20 36	2.0	.50	.20	.30	500	<.5	N	70	1,000	2.0
CI832S	65 51 7	146 3 58	1.5	.50	.15	.30	300	1.0	N	70	1,500	1.5
CI833S	65 51 40	146 3 39	3.0	1.00	.50	.50	500	.5	N	70	500	2.0
CI834S	65 51 20	146 9 4	2.0	1.00	.30	.30	300	N	N	50	1,000	2.0
CI835S	65 48 32	146 15 22	2.0	.70	.30	.50	500	N	N	50	1,000	1.5
CI836S	65 48 30	146 14 22	3.0	.50	.20	.50	500	N	N	70	1,000	2.0
CI837S	65 46 24	146 12 42	3.0	.50	.10	.50	500	N	N	100	700	2.0
CI838S	65 47 21	146 12 4	2.0	.70	.20	.70	700	1.0	N	150	100	1.5
CI839S	65 46 56	146 12 38	3.0	.70	.15	.70	700	N	N	100	700	1.5
CI840S	65 48 21	146 11 32	2.0	1.00	1.00	.50	1,000	<.5	N	70	1,000	1.5
CI841S	65 30 44	145 18 53	3.0	1.00	.20	.70	700	N	N	70	300	1.0
CI842S	65 30 23	145 18 23	3.0	1.50	.20	.70	700	N	N	70	300	1.0
CI843S	65 27 2	145 22 43	3.0	1.00	.15	.70	500	.5	N	100	500	1.0
CI844S	65 26 40	145 22 53	5.0	1.00	.20	.70	700	.5	200	100	500	<1.0
CI845S	65 26 31	145 29 12	3.0	1.00	.20	1.00	500	N	N	100	300	1.0
CI846S	65 25 48	145 30 45	3.0	1.00	.20	1.00	700	N	N	100	300	<1.0
CI847S	65 25 30	145 31 44	2.0	.70	.20	1.00	500	N	N	100	200	1.0
CI848S	65 22 48	145 31 32	3.0	1.00	.30	.70	500	N	N	70	300	1.0
CI849S	65 23 14	145 30 58	3.0	1.50	.50	.70	500	N	N	50	300	<1.0
CI850S	65 24 12	145 33 16	2.0	1.00	.50	.70	700	N	N	70	200	1.0
CI851S	65 24 17	145 37 46	3.0	1.00	.30	1.00	700	N	N	100	500	1.0
CI852S	65 23 33	145 48 49	3.0	1.00	.50	.70	700	N	N	100	300	<1.0
CI853S	65 23 25	145 47 59	2.0	1.00	.50	.70	700	N	N	100	300	1.0
CI854S	65 24 2	145 47 31	3.0	1.00	.70	.70	1,000	N	N	100	300	1.0
CI855S	65 26 36	144 56 24	3.0	1.50	.30	.70	1,000	N	N	100	700	1.5
CI856S	65 27 17	144 56 18	3.0	1.50	.30	.70	1,000	N	N	70	500	1.0
CI857S	65 29 56	144 52 0	3.0	1.00	.20	.70	700	N	N	30	300	1.0
CI858S	65 50 46	145 48 3	2.0	.50	.10	.20	500	<.5	N	100	700	1.0
CI859S	65 50 41	145 44 33	2.0	1.00	.15	.50	500	N	N	70	700	1.0
CI860S	65 51 50	145 57 5	3.0	1.00	.15	.70	500	<.5	N	50	300	1.5
CI861S	65 45 27	144 53 38	2.0	.70	.30	.50	500	.5	N	100	3,000	1.0
CI862S	65 46 11	144 50 9	2.0	.70	.50	.70	500	<.5	N	100	3,000	1.0
CI863S	65 46 13	144 47 59	2.0	.70	.30	.70	300	N	N	100	2,000	1.0
CI864S	65 48 8	144 49 27	2.0	.50	.30	.50	300	<.5	N	100	3,000	1.5
CI865S	65 47 18	144 44 24	2.0	.30	.20	.50	300	.5	N	70	1,000	1.5
CI866S	65 49 55	144 36 16	2.0	.50	.30	.50	500	<.5	N	100	700	1.5
CI867S	65 50 24	144 28 16	2.0	.30	.30	.50	700	N	N	70	700	1.5

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Bi-ppm 5	Cd-ppm 5	Co-ppm 5	Cr-ppm 5	Cu-ppm 5	La-ppm 5	Mo-ppm 5	Nb-ppm 5	Ni-ppm 5	Pb-ppm 5	Sc-ppm 5	Sn-ppm 5
CI823S	N	N	5	100	50	70	5	N	30	15	20	N
CI824S	N	N	70	200	50	70	7	20	100	30	30	N
CI825S	N	N	10	150	50	100	7	20	50	20	30	N
CI826S	N	N	20	150	50	70	N	<20	70	10	30	N
CI827S	N	N	15	150	30	50	N	<20	30	20	20	N
CI828S	N	N	20	200	30	70	N	<20	50	20	30	N
CI829S	N	N	20	200	30	50	N	<20	50	15	20	N
CI830S	N	N	20	200	30	70	N	<20	50	20	20	N
CI831S	N	N	20	200	30	50	N	<20	70	20	20	N
CI832S	N	30	10	500	50	70	10	<20	70	300	30	N
CI833S	N	N	30	300	50	150	N	<20	70	30	30	N
CI834S	N	N	15	150	20	30	N	<20	50	15	20	N
CI835S	N	N	20	200	30	70	N	<20	70	20	20	N
CI836S	N	N	20	300	30	150	N	<20	70	15	30	N
CI837S	N	N	30	300	30	100	N	<20	50	10	30	N
CI838S	N	N	30	200	50	70	10	20	70	50	30	N
CI839S	N	N	20	150	30	70	N	<20	50	20	20	N
CI840S	N	N	30	100	30	70	N	N	50	20	30	N
CI841S	N	N	30	100	50	50	N	<20	50	30	30	N
CI842S	N	N	30	150	50	70	N	<20	50	50	30	N
CI843S	N	N	20	200	30	70	N	20	50	50	20	N
CI844S	N	N	30	200	70	70	N	<20	70	50	30	N
CI845S	N	N	30	100	30	70	N	20	30	20	30	N
CI846S	N	N	30	150	30	70	N	20	50	30	30	N
CI847S	N	N	20	100	20	70	N	<20	30	15	20	N
CI848S	N	N	30	100	30	50	N	<20	30	10	30	N
CI849S	N	N	50	150	70	50	N	<20	70	20	50	N
CI850S	N	N	20	100	30	30	N	<20	30	15	30	N
CI851S	N	N	30	150	30	30	N	<20	50	20	30	N
CI852S	N	N	30	200	50	50	N	<20	50	20	30	N
CI853S	N	N	20	100	30	50	N	<20	30	20	30	N
CI854S	N	N	30	150	30	30	N	<20	50	20	50	N
CI855S	N	N	30	200	50	100	N	<20	50	50	30	<10
CI856S	N	N	30	200	70	70	N	20	70	30	50	N
CI857S	N	N	30	100	50	30	N	<20	50	30	20	N
CI858S	N	N	20	100	30	70	N	<20	50	30	20	N
CI859S	N	N	20	150	30	50	N	N	70	30	20	N
CI860S	N	N	20	100	30	50	N	<20	50	30	30	N
CI861S	N	N	20	150	30	50	5	<20	50	20	20	N
CI862S	N	N	20	200	30	50	N	<20	50	20	20	N
CI863S	N	N	15	150	20	70	N	<20	30	15	20	N
CI864S	N	N	20	150	30	100	N	<20	70	20	30	N
CI865S	N	N	20	500	20	50	N	20	70	30	30	N
CI866S	N	N	20	200	20	70	N	20	50	30	30	N
CI867S	N	N	15	200	15	70	N	20	30	15	20	N

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Zn-ppm aa	U-inst
CI823S	<100	200	N	30	N	100	N	N	40	.5
CI824S	100	300	N	50	N	300	N	N	70	1.0
CI825S	<100	200	N	50	N	150	N	N	55	1.0
CI826S	100	150	N	50	N	200	N	N	60	.6
CI827S	200	150	N	30	N	200	N	N	70	.5
CI828S	300	150	N	30	N	300	N	N	70	.3
CI829S	150	150	N	30	<200	200	N	N	90	.2
CI830S	100	150	N	30	200	200	N	N	130	.1
CI831S	150	150	N	20	<200	150	N	N	120	.3
CI832S	100	300	N	30	700	200	N	N	900	1.0
CI833S	200	150	N	50	<200	200	N	N	100	.5
CI834S	100	150	N	30	<200	200	N	N	100	.2
CI835S	150	150	N	30	N	200	N	N	80	.6
CI836S	100	200	N	50	200	200	N	N	140	.4
CI837S	<100	200	N	30	N	150	N	N	60	.2
CI838S	200	300	N	50	300	200	N	2.00	220	.5
CI839S	100	150	N	30	<200	150	N	N	100	.6
CI840S	200	150	N	30	N	150	N	N	95	1.0
CI841S	<100	200	N	30	<200	150	N	N	90	.8
CI842S	N	150	N	30	<200	200	N	.15	85	1.0
CI843S	N	100	N	50	<200	150	N	N	110	2.0
CI844S	<100	200	N	50	<200	200	N	.05	95	1.0
CI845S	N	150	N	50	N	150	N	N	65	1.0
CI846S	N	150	N	50	<200	200	N	N	70	1.0
CI847S	<100	100	N	30	<200	150	N	N	60	.5
CI848S	<100	150	N	50	N	200	N	N	65	1.0
CI849S	150	200	N	50	<200	150	N	N	80	.6
CI850S	100	150	N	20	<200	150	N	N	55	.5
CI851S	100	150	N	30	<200	150	N	N	70	1.0
CI852S	100	150	N	30	N	150	N	N	80	.9
CI853S	100	100	N	30	N	200	N	N	55	.7
CI854S	150	150	N	50	N	200	N	N	65	.9
CI855S	150	150	N	50	<200	200	N	N	95	2.0
CI856S	150	150	N	50	<200	200	N	N	80	.8
CI857S	N	100	N	20	N	200	N	.15	95	.7
CI858S	<100	150	N	30	<200	150	N	N	160	.4
CI859S	150	150	N	30	<200	150	N	N	140	.7
CI860S	<100	150	N	20	N	100	N	<.05	70	.8
CI861S	<100	150	N	30	200	200	N	.05	150	.7
CI862S	100	150	N	20	200	150	N	N	130	.6
CI863S	<100	150	N	30	<200	200	N	N	110	.5
CI864S	100	200	N	30	<200	300	N	N	110	.8
CI865S	100	200	N	30	<200	200	100	N	90	.9
CI866S	150	200	N	30	<200	200	N	N	85	1.0
CI867S	100	200	N	70	<200	300	N	--	75	.9

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Latitude	Longitude	Fe-pct. 5	Mg-pct. 5	Ca-pct. 5	Ti-pct. 5	Mn-ppm 5	Ag-ppm 5	As-ppm 5	B-ppm 5	Ba-ppm 5	Be-ppm 5
CI870S	65 25 11	145 7 38	3.0	.70	.20	.50	500	<.5	N	70	300	1.0
CI871S	65 24 26	145 6 59	3.0	1.00	.30	.70	500	<.5	N	70	300	1.0
CI872S	65 23 20	145 6 50	3.0	.70	.50	.70	700	<.5	N	100	300	1.0
CI873S	65 22 13	145 7 33	3.0	1.00	.30	.70	500	<.5	N	70	300	1.5
CI874S	65 21 48	145 8 18	5.0	1.00	.30	.70	700	<.5	N	100	300	1.5
CI875S	65 21 42	145 6 49	3.0	1.00	.20	.70	700	<.5	N	70	300	1.0

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Bi-ppm 5	Cd-ppm 5	Co-ppm 5	Cr-ppm 5	Cu-ppm 5	La-ppm 5	Mo-ppm 5	Nb-ppm 5	Ni-ppm 5	Pb-ppm 5	Sc-ppm 5	Sn-ppm 5
CI870S	N	N	30	150	50	70	N	<20	50	20	50	N
CI871S	N	N	30	150	70	50	N	<20	70	30	50	N
CI872S	N	N	30	100	50	70	N	20	50	30	70	N
CI873S	N	N	30	150	50	100	N	20	70	30	50	N
CI874S	N	N	30	150	70	70	N	<20	70	30	70	N
CI875S	N	N	30	200	50	70	N	<20	70	30	50	N

Table 3.--Analyses of stream-sediment samples from the Circle Quadrangle,Alaska--Continued

Sample	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Zn-ppm aa	U-inst
CI870S	150	200	N	50	N	150	N	N	70	2.0
CI871S	150	200	N	30	N	200	N	N	65	1.0
CI872S	150	200	N	50	N	200	N	N	60	1.0
CI873S	100	200	N	50	<200	150	N	.10	65	1.0
CI874S	150	200	N	70	<200	300	N	N	70	1.0
CI875S	100	200	N	30	<200	150	N	N	70	1.0

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska

[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
CI001C	65 47 22	144 5 0	7.0	1.50	7.00	2.0	1,000	5.0	N	N	1,000	5,000
CI002C	65 42 58	144 17 0	3.0	1.50	5.00	>2.0	1,000	N	N	N	3,000	2,000
CI003C	65 41 30	144 23 31	10.0	2.00	5.00	1.0	1,500	<1.0	N	N	200	10,000
CI004C	65 37 57	144 27 10	10.0	1.00	1.00	1.5	1,500	N	N	N	700	3,000
CI005C	65 37 8	144 29 13	7.0	1.50	5.00	2.0	1,000	<1.0	N	N	1,000	2,000
CI006C	65 36 25	144 33 21	2.0	.70	5.00	>2.0	700	N	N	N	700	700
CI007C	65 35 42	144 42 12	3.0	1.00	5.00	>2.0	1,000	N	N	N	500	10,000
CI008C	65 34 8	144 52 57	5.0	1.00	1.00	>2.0	1,500	100.0	N	300	500	1,500
CI009C	65 33 22	144 47 46	2.0	.30	3.00	>2.0	700	N	N	N	700	500
CI010C	65 32 18	144 45 43	5.0	1.00	3.00	2.0	1,500	5.0	N	50	700	1,000
CI011C	65 31 24	144 43 36	3.0	.70	5.00	2.0	1,000	N	N	N	700	1,500
CI012C	65 31 12	144 42 56	2.0	.30	10.00	>2.0	1,500	N	N	N	500	500
CI013C	65 30 49	144 40 54	2.0	.30	10.00	>2.0	2,000	N	N	N	300	500
CI015C	65 32 38	145 9 11	3.0	1.00	1.00	>2.0	700	N	N	N	300	1,000
CI016C	65 33 10	145 5 4	5.0	1.00	.70	>2.0	700	N	N	N	500	1,500
CI017C	65 32 59	145 10 10	5.0	1.50	2.00	>2.0	1,500	N	N	N	1,000	1,500
CI018C	65 33 30	145 1 31	5.0	1.00	<.10	>2.0	1,000	<1.0	N	N	500	1,500
CI019C	65 24 39	145 53 55	5.0	1.50	7.00	>2.0	1,000	N	N	N	2,000	700
CI020C	65 25 2	145 52 52	5.0	1.50	5.00	>2.0	1,500	N	N	N	700	1,000
CI021C	65 24 12	145 43 55	5.0	1.00	3.00	>2.0	700	<1.0	N	N	700	700
CI022C	65 24 33	145 40 34	7.0	1.00	3.00	>2.0	2,000	N	N	N	700	1,000
CI023C	65 24 46	145 37 7	7.0	.70	3.00	>2.0	1,000	N	N	N	700	1,500
CI024C	65 26 35	145 30 55	7.0	1.00	1.00	>2.0	1,000	N	N	N	500	2,000
CI025C	65 21 48	146 5 22	3.0	.70	3.00	>2.0	500	N	N	N	700	700
CI026C	65 21 20	146 9 22	5.0	1.00	2.00	>2.0	700	N	N	N	500	700
CI027C	65 17 43	146 22 36	5.0	1.00	1.50	>2.0	700	N	N	N	700	1,000
CI028C	65 17 44	146 32 48	3.0	.50	3.00	>2.0	500	N	N	N	500	500
CI029C	65 16 44	146 38 38	3.0	.70	3.00	>2.0	500	N	N	N	700	500
CI030C	65 16 15	146 43 39	2.0	.50	3.00	2.0	500	N	N	N	500	300
CI031C	65 14 37	146 49 20	3.0	1.00	5.00	>2.0	700	N	N	N	500	300
CI032C	65 13 54	146 56 8	3.0	1.00	3.00	2.0	1,000	10.0	N	N	500	500
CI033C	65 13 58	146 52 33	3.0	1.00	5.00	2.0	1,000	N	N	N	700	500
CI034C	65 25 20	145 33 40	5.0	1.00	1.00	>2.0	700	100.0	700	>1,000	500	1,500
CI035C	65 25 5	145 33 56	7.0	.30	2.00	>2.0	300	7.0	1,000	N	150	1,000
CI037C	65 17 28	146 28 58	5.0	1.00	1.00	2.0	700	<1.0	N	N	200	1,000
CI038C	65 25 40	145 34 1	5.0	.70	2.00	>2.0	700	N	N	N	500	700
CI039C	65 5 6	144 45 15	5.0	5.00	15.00	2.0	1,000	N	N	N	>5,000	1,500
CI040C	65 4 35	144 45 26	5.0	5.00	20.00	1.0	1,000	<1.0	N	N	1,500	1,500
CI041C	65 4 6	144 50 12	5.0	5.00	20.00	1.0	700	N	N	N	700	2,000
CI042C	65 5 3	144 48 54	5.0	2.00	3.00	1.5	1,000	N	N	N	>5,000	500
CI043C	65 3 44	144 51 35	5.0	3.00	10.00	1.5	700	<1.0	N	N	2,000	1,000
CI044C	65 1 33	144 55 24	5.0	3.00	10.00	.7	1,000	20.0	N	N	5,000	1,500
CI045C	65 1 49	144 54 26	5.0	2.00	15.00	>2.0	700	<1.0	N	N	700	500
CI046C	65 6 20	144 53 59	5.0	1.50	15.00	1.5	1,500	N	N	N	>5,000	500
CI047C	65 5 47	144 53 40	7.0	3.00	.70	2.0	700	N	N	N	>5,000	700

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI001C	2	N	N	30	500	200	200	N	100	200	70
CI002C	5	N	N	10	300	50	150	N	100	20	100
CI003C	3	N	N	50	500	20	150	N	50	150	50
CI004C	3	N	N	50	300	70	200	N	50	70	100
CI005C	3	N	N	50	500	15	150	N	150	100	70
CI006C	5	N	N	10	300	<10	100	N	200	10	50
CI007C	<2	N	N	20	200	15	150	N	70	30	100
CI008C	3	N	N	20	300	70	300	N	70	20	150
CI009C	3	N	N	10	200	10	200	N	70	<10	100
CI010C	7	N	N	20	300	50	300	N	70	30	300
CI011C	5	N	N	15	300	20	1,000	N	100	<10	100
CI012C	2	N	N	<10	200	N	200	N	700	<10	70
CI013C	3	N	N	<10	200	<10	700	N	500	<10	150
CI015C	2	N	N	10	200	10	100	N	70	<10	1,500
CI016C	2	N	N	20	300	20	700	N	100	20	150
CI017C	<2	N	N	30	300	70	200	N	70	30	100
CI018C	5	N	N	20	200	15	150	N	70	20	200
CI019C	<2	N	N	30	300	70	100	N	70	30	300
CI020C	2	N	N	20	200	30	100	N	50	15	1,000
CI021C	<2	N	100	50	200	50	50	N	50	50	70
CI022C	2	N	N	50	300	100	200	N	50	30	200
CI023C	2	N	N	100	300	70	150	N	100	30	200
CI024C	3	N	N	50	300	100	200	N	70	50	150
CI025C	2	N	N	15	300	20	100	N	100	10	150
CI026C	3	N	N	50	200	30	100	N	100	30	1,500
CI027C	2	N	N	30	200	50	150	N	70	30	200
CI028C	2	N	N	15	150	15	100	N	70	20	70
CI029C	<2	N	N	15	200	15	100	N	100	<10	50
CI030C	<2	N	N	10	150	10	70	N	50	<10	300
CI031C	<2	N	N	15	200	15	150	N	70	15	100
CI032C	2	N	N	15	150	15	70	N	50	15	30
CI033C	<2	N	N	15	200	15	150	N	70	20	70
CI034C	3	N	N	50	300	70	200	N	70	50	100
CI035C	2	N	N	70	200	70	150	N	100	70	200
CI037C	3	N	N	20	200	50	150	N	100	30	70
CI038C	3	N	N	20	200	50	150	N	100	30	500
CI039C	2	N	N	15	300	20	300	N	100	20	50
CI040C	2	N	N	70	300	15	200	N	70	70	150
CI041C	2	N	N	15	300	10	150	N	70	30	100
CI042C	7	N	N	20	300	20	500	N	50	50	30
CI043C	3	N	N	20	300	15	200	N	70	50	70
CI044C	5	100	N	15	200	10	200	N	<50	50	100
CI045C	2	N	N	30	300	<10	150	N	150	30	150
CI046C	10	30	N	20	200	15	1,000	N	100	30	30
CI047C	7	700	N	20	300	50	1,000	N	50	50	70

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI001C	N	30	200	700	300	N	200	N	>2,000	N
CI002C	N	20	50	700	200	N	150	N	>2,000	N
CI003C	N	30	20	700	300	N	50	N	200	N
CI004C	N	30	70	500	200	N	100	N	2,000	<200
CI005C	N	50	50	700	300	N	150	N	700	N
CI006C	N	20	100	300	300	N	300	N	2,000	N
CI007C	N	30	700	700	300	N	150	N	>2,000	N
CI008C	N	50	>2,000	500	300	<100	150	N	>2,000	N
CI009C	N	30	>2,000	500	200	<100	150	N	>2,000	N
CI010C	N	30	>2,000	500	200	150	150	N	>2,000	<200
CI011C	N	50	>2,000	500	300	500	200	N	>2,000	<200
CI012C	N	70	>2,000	200	500	N	2,000	N	>2,000	<200
CI013C	N	50	>2,000	<200	200	N	1,500	N	>2,000	700
CI015C	N	50	300	200	300	<100	100	N	>2,000	N
CI016C	N	50	2,000	200	200	N	150	N	>2,000	<200
CI017C	N	50	200	300	300	N	150	N	>2,000	N
CI018C	N	30	50	200	200	N	70	N	2,000	N
CI019C	N	50	<20	700	300	N	100	N	>2,000	N
CI020C	N	50	200	500	300	100	100	N	>2,000	N
CI021C	<200	30	700	500	300	300	70	3,000	>2,000	N
CI022C	N	50	20	500	300	N	100	N	2,000	N
CI023C	200	50	N	500	300	N	150	N	>2,000	N
CI024C	<200	50	N	500	200	N	150	N	2,000	N
CI025C	N	50	300	500	200	150	100	N	>2,000	N
CI026C	<200	30	500	200	200	<100	100	N	>2,000	N
CI027C	<200	30	2,000	300	200	<100	100	N	2,000	N
CI028C	N	30	N	300	200	N	70	N	1,500	N
CI029C	N	30	N	500	300	N	70	N	>2,000	N
CI030C	N	30	N	300	300	N	50	N	>2,000	N
CI031C	N	50	N	500	300	N	70	N	2,000	N
CI032C	N	30	N	300	200	N	50	N	1,000	N
CI033C	N	30	N	500	200	N	100	N	>2,000	N
CI034C	N	30	500	300	200	N	100	N	>2,000	N
CI035C	<200	30	20	300	150	<100	150	1,000	>2,000	N
CI037C	<200	30	150	300	200	N	70	N	700	N
CI038C	N	30	N	300	200	N	70	N	2,000	N
CI039C	N	30	70	1,000	300	150	150	N	>2,000	N
CI040C	N	50	200	1,500	500	N	100	N	200	N
CI041C	N	30	N	1,500	500	N	100	N	150	N
CI042C	N	30	50	300	200	1,000	150	N	1,000	<200
CI043C	N	20	500	1,000	300	150	100	N	700	N
CI044C	N	30	30	1,000	300	N	70	N	150	N
CI045C	N	30	N	2,000	300	100	100	N	300	N
CI046C	N	20	70	300	150	1,500	150	N	2,000	300
CI047C	N	30	70	300	200	<100	150	N	2,000	<200

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI048C	65 5 33	144 59 15	7.0	2.00	1.00	1.5	1,000	<1.0	N	N	>5,000	700
CI049C	65 5 9	144 59 54	5.0	2.00	1.50	2.0	700	N	N	N	>5,000	500
CI050C	65 2 44	145 3 14	3.0	1.50	10.00	>2.0	500	N	N	N	3,000	700
CI051C	65 3 31	145 4 36	7.0	3.00	2.00	2.0	1,500	N	N	N	>5,000	1,000
CI052C	65 2 24	145 6 33	3.0	2.00	10.00	>2.0	500	N	N	N	3,000	1,000
CI053C	65 2 4	145 9 37	5.0	3.00	10.00	>2.0	700	<1.0	N	N	1,500	3,000
CI054C	65 3 5	145 11 19	5.0	2.00	10.00	2.0	700	N	N	N	5,000	1,500
CI055C	65 2 24	145 12 7	5.0	3.00	20.00	>2.0	700	1.5	N	N	700	3,000
CI056C	65 2 39	145 17 8	3.0	2.00	10.00	>2.0	300	1.0	N	N	500	>10,000
CI057C	65 1 51	146 27 53	10.0	1.50	5.00	2.0	1,000	N	1,000	N	1,000	3,000
CI058C	65 5 7	146 9 54	10.0	2.00	7.00	2.0	1,000	N	N	N	>5,000	2,000
CI059C	65 5 14	146 13 19	5.0	3.00	5.00	>2.0	700	N	N	N	>5,000	1,500
CI060C	65 7 0	146 13 37	10.0	2.00	2.00	2.0	2,000	N	N	N	>5,000	2,000
CI061C	65 9 22	146 11 41	7.0	1.50	7.00	>2.0	1,000	N	N	N	1,500	2,000
CI062C	65 9 36	146 6 25	5.0	2.00	10.00	1.5	1,000	N	N	N	500	2,000
CI063C	65 9 10	146 7 3	5.0	2.00	10.00	1.5	1,000	N	N	N	200	>10,000
CI064C	65 10 59	146 3 23	5.0	2.00	10.00	>2.0	1,000	N	N	N	500	2,000
CI065C	65 11 30	146 2 30	3.0	1.50	7.00	>2.0	1,000	N	N	N	500	2,000
CI066C	65 12 36	146 3 11	5.0	.70	3.00	>2.0	700	N	N	N	1,000	1,500
CI067C	65 13 10	146 4 45	5.0	.70	1.00	>2.0	700	N	N	N	500	2,000
CI068C	65 13 31	146 10 18	5.0	1.00	3.00	>2.0	1,000	N	N	N	700	2,000
CI069C	65 11 46	146 10 4	2.0	.70	5.00	>2.0	500	N	N	N	1,000	1,500
CI070C	65 13 14	146 17 27	3.0	3.00	7.00	>2.0	1,000	N	N	N	200	1,500
CI071C	65 12 56	146 16 8	5.0	1.50	1.00	2.0	1,000	N	N	N	700	3,000
CI072C	65 11 36	146 16 10	1.5	.50	3.00	>2.0	500	N	N	N	1,000	700
CI073C	65 10 36	146 17 15	5.0	3.00	10.00	1.0	1,000	N	N	N	200	5,000
CI074C	65 9 53	146 17 9	3.0	5.00	10.00	>2.0	1,000	N	N	N	200	1,500
CI075C	65 5 26	146 20 12	7.0	2.00	2.00	>2.0	1,500	N	N	N	>5,000	1,500
CI076C	65 5 38	146 19 29	7.0	2.00	3.00	>2.0	700	N	N	N	>5,000	2,000
CI077C	65 5 41	146 18 40	10.0	1.50	1.00	2.0	1,500	N	N	N	>5,000	2,000
CI078C	65 6 29	146 25 2	10.0	2.00	3.00	>2.0	1,000	N	N	N	3,000	3,000
CI079C	65 7 32	146 21 35	5.0	1.50	3.00	>2.0	700	N	N	N	5,000	3,000
CI080C	65 21 54	146 42 1	7.0	1.00	.30	>2.0	1,500	N	N	N	700	1,500
CI081C	65 25 46	146 37 24	3.0	.70	.20	>2.0	500	N	N	N	700	500
CI082C	65 25 33	146 36 59	2.0	.30	.20	.7	700	N	N	N	2,000	300
CI083C	65 32 0	146 38 14	7.0	3.00	3.00	>2.0	700	N	N	N	700	2,000
CI084C	65 32 45	146 34 34	7.0	1.50	2.00	>2.0	700	N	N	N	700	3,000
CI085C	65 32 15	146 33 38	3.0	1.00	.50	>2.0	700	<1.0	N	N	500	700
CI086C	65 31 56	146 34 2	1.5	.20	3.00	2.0	1,000	N	N	N	1,000	200
CI087C	65 34 17	146 39 11	5.0	1.00	.10	2.0	500	N	N	N	500	1,000
CI088C	65 34 5	146 39 11	5.0	1.00	.10	2.0	500	<1.0	N	N	500	1,000
CI089C	65 33 24	146 42 51	7.0	1.00	.15	2.0	700	N	N	N	300	700
CI090C	65 32 10	146 50 1	5.0	.50	.20	2.0	500	N	N	N	500	700
CI091C	65 31 39	146 50 54	7.0	.70	.10	2.0	500	N	N	N	700	700
CI092C	65 1 24	146 29 14	3.0	1.00	3.00	1.0	1,000	N	N	N	1,000	1,500

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI048C	15	N	N	20	300	30	200	N	<50	70	50
CI049C	3	N	N	20	300	15	2,000	N	70	30	70
CI050C	<2	N	N	15	500	30	150	N	200	30	150
CI051C	7	50	N	20	300	50	500	N	70	50	70
CI052C	<2	N	N	20	500	<10	150	N	200	50	100
CI053C	<2	N	N	30	500	70	200	N	150	30	70
CI054C	2	100	N	15	300	15	200	N	100	30	150
CI055C	<2	N	N	30	300	150	300	N	150	50	200
CI056C	<2	N	N	15	200	70	500	N	150	50	70
CI057C	5	N	N	30	500	70	200	N	70	50	150
CI058C	5	N	N	30	500	50	200	N	150	50	70
CI059C	3	N	N	20	500	20	500	N	100	20	100
CI060C	5	N	N	50	500	100	150	N	100	70	200
CI061C	3	N	N	20	500	20	200	N	200	20	150
CI062C	5	N	N	15	300	10	100	N	70	30	50
CI063C	3	N	N	15	300	10	150	N	100	20	100
CI064C	<2	N	N	20	500	<10	200	N	150	15	100
CI065C	<2	N	N	15	300	<10	150	N	100	<10	100
CI066C	2	N	N	20	300	15	300	N	50	<10	200
CI067C	2	N	N	50	300	20	500	N	70	<10	200
CI068C	2	N	N	15	500	15	500	N	50	<10	150
CI069C	<2	N	N	N	300	N	200	N	150	N	100
CI070C	<2	N	N	30	700	N	150	N	200	20	150
CI071C	2	N	N	20	500	20	200	N	70	70	200
CI072C	2	N	N	N	200	<10	150	N	50	N	100
CI073C	2	N	N	15	300	10	150	N	<50	10	70
CI074C	<2	N	N	20	500	<10	100	N	100	150	150
CI075C	7	N	N	50	500	50	200	N	100	50	150
CI076C	5	N	N	30	300	50	500	N	70	30	150
CI077C	7	N	N	50	500	70	300	N	50	50	150
CI078C	5	N	N	50	700	50	300	N	100	70	150
CI079C	3	N	N	30	500	70	200	N	100	50	200
CI080C	3	N	N	50	200	15	150	N	100	70	150
CI081C	2	300	N	10	100	20	70	N	100	50	50
CI082C	5	N	N	<10	70	15	70	N	70	10	<20
CI083C	2	<20	N	70	500	20	>2,000	N	70	70	150
CI084C	5	N	N	50	500	30	300	N	100	70	150
CI085C	3	N	N	15	200	15	200	N	70	30	100
CI086C	10	N	N	10	30	<10	>2,000	N	200	N	150
CI087C	3	N	N	20	200	30	300	N	70	30	70
CI088C	3	N	N	30	300	50	200	N	70	70	70
CI089C	3	70	N	50	200	70	300	N	70	70	100
CI090C	<1	N	N	15	300	15	500	N	100	20	50
CI091C	2	N	N	30	300	50	1,000	N	100	30	70
CI092C	7	N	N	15	200	20	200	N	70	20	300

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI048C	N	20	20	200	150	<100	70	<500	200	N
CI049C	N	20	100	200	100	300	200	N	>2,000	500
CI050C	N	30	20	1,500	300	150	70	N	700	N
CI051C	N	30	1,000	500	200	3,000	100	N	>2,000	N
CI052C	N	30	700	1,000	300	300	100	N	1,000	N
CI053C	N	30	50	700	500	500	300	N	700	N
CI054C	N	50	70	1,500	300	700	150	N	1,000	N
CI055C	N	15	50	700	700	100	500	<500	300	N
CI056C	N	15	N	1,000	500	N	200	N	500	N
CI057C	N	50	N	500	300	N	100	N	>2,000	N
CI058C	N	50	1,000	500	300	1,000	150	N	2,000	N
CI059C	N	50	30	500	200	100	200	N	>2,000	N
CI060C	N	30	>2,000	300	200	700	150	N	>2,000	N
CI061C	N	30	1,500	700	300	<100	150	N	>2,000	N
CI062C	N	20	50	1,000	200	N	70	N	700	N
CI063C	N	30	50	1,500	300	N	100	N	1,000	N
CI064C	N	50	30	1,000	500	N	150	N	2,000	N
CI065C	N	50	50	1,000	300	N	200	N	>2,000	N
CI066C	N	70	20	300	100	N	500	N	>2,000	N
CI067C	N	50	N	500	100	N	300	N	>2,000	N
CI068C	N	70	N	1,000	150	N	500	N	>2,000	N
CI069C	N	50	N	700	150	N	300	N	>2,000	N
CI070C	N	30	20	1,000	500	N	100	N	2,000	N
CI071C	N	50	N	300	200	N	200	N	>2,000	N
CI072C	N	100	700	500	70	N	700	N	>2,000	N
CI073C	N	50	100	1,500	300	200	100	N	>2,000	N
CI074C	N	50	50	1,000	300	N	100	N	>2,000	N
CI075C	N	50	<20	500	300	N	100	<500	2,000	N
CI076C	N	50	N	500	200	N	200	N	>2,000	N
CI077C	N	50	<20	300	200	500	150	1,000	2,000	N
CI078C	N	50	N	500	300	N	150	<500	2,000	N
CI079C	N	50	50	500	300	N	150	<500	>2,000	N
CI080C	N	50	N	300	200	N	100	N	1,000	N
CI081C	N	20	>2,000	<200	100	100	70	N	2,000	N
CI082C	N	10	2,000	N	70	150	100	N	1,000	N
CI083C	N	20	50	700	200	200	700	N	>2,000	700
CI084C	N	50	N	1,000	300	<100	200	N	>2,000	N
CI085C	N	20	20	300	150	N	100	N	2,000	<200
CI086C	N	15	150	N	30	700	1,500	N	>2,000	2,000
CI087C	N	20	N	200	200	N	100	N	2,000	N
CI088C	N	20	N	200	200	N	70	N	2,000	N
CI089C	N	20	>2,000	<200	150	<100	100	N	1,500	N
CI090C	N	20	70	<200	150	N	200	N	>2,000	N
CI091C	N	30	20	<200	200	N	500	N	>2,000	<200
CI092C	N	20	30	1,000	200	N	150	N	1,500	N

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI093C	65 3 52	146 33 48	5.0	1.00	1.00	1.0	1,000	N	N	N	500	2,000
CI094C	65 5 3	146 34 45	5.0	1.00	2.00	1.5	700	N	N	N	500	2,000
CI095C	65 4 29	146 37 19	5.0	1.00	2.00	2.0	1,000	N	N	N	500	3,000
CI096C	65 5 33	146 32 45	5.0	2.00	5.00	>2.0	100	N	N	N	700	>10,000
CI097C	65 7 37	146 30 16	5.0	1.00	2.00	>2.0	700	N	N	N	1,000	3,000
CI098C	65 8 1	146 30 17	5.0	2.00	10.00	1.0	1,000	N	N	N	200	5,000
CI099C	65 8 49	146 34 8	2.0	.50	10.00	>2.0	700	N	N	N	1,000	1,000
CI100C	65 8 59	146 34 57	3.0	1.00	7.00	>2.0	700	N	N	N	1,000	2,000
CI101C	65 6 51	146 40 17	1.5	.30	7.00	>2.0	300	N	N	N	1,000	700
CI102C	65 7 4	146 38 55	2.0	.70	5.00	>2.0	700	N	N	N	500	700
CI103C	65 7 18	146 39 34	5.0	2.00	10.00	1.0	1,500	N	N	N	200	3,000
CI104C	65 1 13	146 25 50	5.0	1.00	10.00	>2.0	2,000	1.5	N	N	5,000	1,000
CI105C	65 2 18	146 22 49	5.0	1.00	2.00	>2.0	1,000	N	N	N	>5,000	1,500
CI106C	65 2 20	146 13 26	3.0	2.00	10.00	>2.0	1,000	N	N	N	>5,000	700
CI107C	65 2 40	146 9 20	1.5	.20	10.00	>2.0	1,000	N	N	N	300	300
CI108C	65 4 42	146 3 11	3.0	.70	10.00	>2.0	1,000	N	N	N	700	500
CI109C	65 1 52	144 40 52	5.0	2.00	20.00	1.0	1,000	N	N	N	700	1,500
CI110C	65 1 30	144 41 2	5.0	3.00	10.00	2.0	1,500	N	N	N	>5,000	1,000
CI111C	65 1 15	144 40 48	7.0	3.00	3.00	1.0	1,000	N	N	N	>5,000	700
CI112C	65 3 44	144 36 9	5.0	3.00	10.00	1.0	1,500	N	N	N	3,000	1,000
CI113C	65 3 40	144 36 57	5.0	5.00	15.00	1.0	1,000	<1.0	N	N	2,000	1,500
CI114C	65 1 30	144 29 49	5.0	2.00	15.00	2.0	1,500	1.0	N	N	5,000	700
CI115C	65 2 9	144 27 42	3.0	3.00	20.00	>2.0	1,000	N	N	N	5,000	1,000
CI116C	65 2 28	144 25 26	7.0	3.00	5.00	1.5	1,000	3.0	N	N	>5,000	700
CI117C	65 3 38	144 19 34	7.0	5.00	10.00	1.0	1,500	N	N	N	>5,000	700
CI118C	65 4 3	144 16 5	5.0	3.00	20.00	2.0	1,500	<1.0	N	N	5,000	700
CI119C	65 5 25	144 15 43	7.0	7.00	10.00	>2.0	1,500	<1.0	N	N	1,000	1,500
CI120C	65 5 11	144 7 57	5.0	7.00	10.00	>2.0	1,500	<1.0	N	N	1,000	2,000
CI121C	65 4 38	144 7 49	3.0	3.00	10.00	>2.0	1,000	N	N	N	3,000	1,000
CI122C	65 4 39	144 1 44	3.0	1.50	7.00	>2.0	1,000	<1.0	N	N	5,000	700
CI123C	65 3 47	144 3 43	3.0	1.50	7.00	>2.0	1,000	N	N	N	5,000	700
CI124C	65 9 29	144 15 39	5.0	5.00	10.00	>2.0	1,500	<1.0	N	N	3,000	1,500
CI125C	65 8 45	144 10 44	10.0	7.00	15.00	2.0	2,000	<1.0	N	N	1,500	1,000
CI126C	65 10 53	144 20 9	7.0	3.00	10.00	>2.0	2,000	1.0	N	N	1,000	3,000
CI127C	65 13 10	144 19 6	5.0	3.00	10.00	>2.0	1,000	<1.0	N	N	2,000	5,000
CI128C	65 11 40	144 19 29	7.0	5.00	10.00	2.0	1,000	1.0	N	N	5,000	2,000
CI129C	65 8 37	144 25 1	7.0	2.00	5.00	2.0	1,500	N	N	N	>5,000	1,500
CI130C	65 7 21	144 24 58	7.0	5.00	15.00	2.0	1,500	N	N	N	>5,000	1,000
CI131C	65 6 59	144 24 44	7.0	7.00	15.00	>2.0	1,500	N	N	N	>5,000	1,500
CI132C	65 31 16	145 13 57	5.0	1.00	2.00	>2.0	700	N	N	N	500	1,000
CI133C	65 28 2	145 17 43	7.0	1.00	1.50	>2.0	1,000	<1.0	N	N	500	1,500
CI134C	65 28 8	145 18 47	5.0	.70	1.00	>2.0	1,000	N	N	N	300	700
CI135C	65 28 8	145 17 58	5.0	1.00	2.00	>2.0	1,000	300.0	N	500	500	1,000
CI136C	65 28 36	145 12 43	10.0	1.00	.50	>2.0	500	3,000.0	>20,000	>1,000	300	2,000
CI137C	65 27 57	145 12 33	5.0	1.00	1.00	>2.0	300	N	N	N	500	1,000

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI093C	3	N	N	15	200	50	150	N	50	20	100
CI094C	3	N	N	20	300	30	150	N	70	30	100
CI095C	3	N	N	30	300	50	150	N	70	50	100
CI096C	5	N	N	30	700	20	200	N	150	50	100
CI097C	3	N	N	15	300	20	200	N	100	20	100
CI098C	3	N	N	10	200	10	150	N	70	15	150
CI099C	2	N	N	<10	150	<10	200	N	100	<10	200
CI100C	<2	N	N	10	300	N	150	N	150	<10	100
CI101C	2	N	N	<10	150	N	300	N	70	N	200
CI102C	<2	N	N	<10	300	N	100	N	100	N	100
CI103C	3	N	N	10	200	<10	200	N	50	10	150
CI104C	15	<20	N	15	300	15	200	N	150	30	100
CI105C	3	N	N	20	300	20	200	N	150	30	100
CI106C	7	N	N	<10	300	N	300	N	200	<10	100
CI107C	10	N	N	<10	50	N	500	N	200	N	50
CI108C	10	N	N	<10	200	N	150	N	300	<10	100
CI109C	3	N	N	10	200	10	150	N	50	20	50
CI110C	3	N	N	20	300	15	500	N	100	30	70
CI111C	2	30	N	20	300	20	>2,000	N	<50	15	70
CI112C	2	N	N	15	300	15	150	N	70	30	20
CI113C	3	N	N	15	300	10	200	N	50	30	30
CI114C	5	N	N	15	300	<10	300	N	70	20	30
CI115C	<2	N	N	15	500	N	300	N	150	50	20
CI116C	3	N	N	20	500	50	500	N	70	50	50
CI117C	3	<20	N	50	500	30	1,500	N	50	100	50
CI118C	3	N	N	15	300	10	200	N	100	30	20
CI119C	<2	N	N	30	500	<10	100	N	200	100	30
CI120C	<2	N	N	20	500	N	700	N	150	50	30
CI121C	3	N	N	15	300	<10	150	N	200	50	30
CI122C	2	N	N	50	500	10	150	N	150	100	50
CI123C	2	N	N	30	500	10	150	N	200	70	50
CI124C	10	N	N	30	300	<10	100	N	150	70	20
CI125C	5	N	N	20	300	<10	70	N	150	50	20
CI126C	7	N	N	100	300	<10	200	N	150	100	20
CI127C	5	N	N	15	300	<10	700	N	300	50	50
CI128C	10	N	N	30	200	20	200	N	100	70	30
CI129C	15	N	N	100	300	20	500	N	70	100	50
CI130C	20	N	N	30	300	<10	300	N	50	70	50
CI131C	3	N	N	30	500	<10	100	N	100	50	30
CI132C	3	N	N	20	300	15	150	N	200	20	150
CI133C	3	N	N	50	300	70	200	N	70	70	100
CI134C	2	N	N	50	300	70	200	N	100	50	150
CI135C	2	N	N	50	300	100	200	N	70	30	100
CI136C	5	N	N	70	300	70	200	N	70	70	300
CI137C	3	N	N	20	300	20	200	N	150	30	100

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI093C	N	20	N	300	150	<100	70	N	2,000	N
CI094C	N	20	100	500	200	100	100	N	2,000	N
CI095C	N	20	N	700	300	N	100	N	2,000	N
CI096C	N	50	<20	1,000	500	150	150	N	>2,000	N
CI097C	N	50	N	500	300	N	150	N	>2,000	N
CI098C	N	30	<20	2,000	200	N	70	N	1,500	N
CI099C	N	50	N	1,000	150	N	500	N	>2,000	N
CI100C	N	50	<20	1,000	200	N	300	N	>2,000	N
CI101C	N	100	70	700	150	N	1,000	N	>2,000	N
CI102C	N	30	20	500	200	N	300	N	>2,000	N
CI103C	N	30	30	1,500	200	N	100	N	1,000	N
CI104C	N	30	700	700	200	200	200	N	1,000	N
CI105C	N	30	20	500	200	100	150	N	>2,000	N
CI106C	N	70	300	300	300	100	700	N	>2,000	<200
CI107C	N	30	300	N	200	100	1,000	N	>2,000	200
CI108C	N	50	>2,000	<200	500	500	700	N	>2,000	N
CI109C	N	20	30	1,500	500	N	100	N	500	N
CI110C	N	30	1,500	1,000	300	1,000	150	N	>2,000	N
CI111C	N	20	100	<200	100	300	1,500	N	>2,000	1,000
CI112C	N	20	>2,000	700	500	700	100	<500	100	N
CI113C	N	30	500	1,000	500	150	100	N	500	N
CI114C	N	30	30	700	300	100	150	N	700	N
CI115C	N	30	50	1,000	500	<100	200	N	2,000	N
CI116C	N	30	50	200	500	150	500	N	2,000	<200
CI117C	N	30	<20	500	200	300	500	N	>2,000	300
CI118C	N	20	<20	700	200	<100	150	N	300	N
CI119C	N	50	N	1,000	700	N	150	N	700	N
CI120C	N	10	1,000	300	700	500	200	N	300	N
CI121C	N	20	20	700	300	N	100	N	700	N
CI122C	N	20	30	500	300	100	150	N	700	N
CI123C	N	30	20	700	300	N	100	N	>2,000	N
CI124C	N	30	200	700	500	<100	150	N	150	N
CI125C	N	50	70	700	500	150	100	N	200	N
CI126C	N	30	200	300	500	700	200	3,000	150	N
CI127C	N	30	70	300	300	150	200	1,500	200	<200
CI128C	N	30	50	500	500	100	150	<500	150	N
CI129C	N	20	50	300	300	<100	150	1,500	200	N
CI130C	N	30	200	500	300	700	200	N	700	N
CI131C	N	30	50	700	500	500	150	N	500	N
CI132C	N	50	1,500	300	500	<100	150	N	>2,000	<200
CI133C	N	50	100	200	300	<100	200	N	>2,000	N
CI134C	N	30	50	200	200	300	150	N	>2,000	N
CI135C	500	50	2,000	200	300	150	150	N	>2,000	N
CI136C	N	30	70	200	200	N	100	N	2,000	<200
CI137C	N	30	70	300	200	<100	150	N	>2,000	N

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI138C	65 28 10	145 13 32	5.0	1.00	.50	>2.0	500	N	700	N	300	1,000
CI139C	65 7 1	145 32 13	3.0	1.50	5.00	>2.0	1,000	N	N	N	3,000	1,500
CI140C	65 7 19	145 32 33	5.0	1.00	7.00	>2.0	1,000	N	N	N	1,000	>5,000
CI141C	65 4 0	145 33 38	3.0	1.00	10.00	>2.0	1,000	N	N	N	3,000	1,000
CI142C	65 4 25	145 33 48	3.0	.70	7.00	>2.0	500	N	N	N	2,000	700
CI143C	65 6 55	145 27 46	2.0	.30	7.00	>2.0	500	N	N	N	1,000	500
CI144C	65 7 20	145 26 28	3.0	1.00	10.00	>2.0	1,500	N	N	N	2,000	700
CI145C	65 8 21	145 25 59	3.0	1.00	5.00	>2.0	1,000	3.0	N	N	5,000	700
CI146C	65 9 35	145 28 12	3.0	1.00	5.00	>2.0	700	N	N	N	2,000	2,000
CI147C	65 9 14	145 24 13	3.0	.70	7.00	>2.0	1,000	N	N	N	3,000	700
CI148C	65 5 0	145 17 18	3.0	1.00	10.00	2.0	700	N	N	N	2,000	700
CI149C	65 5 0	145 18 46	3.0	.70	10.00	>2.0	700	N	N	N	1,000	1,000
CI150C	65 7 20	145 17 48	5.0	1.00	1.50	>2.0	1,000	N	N	N	>5,000	1,500
CI151C	65 10 8	145 20 44	5.0	1.00	5.00	>2.0	2,000	N	N	N	1,000	700
CI152C	65 12 41	145 17 10	3.0	.70	10.00	>2.0	500	N	N	N	1,000	2,000
CI153C	65 9 28	145 9 56	5.0	2.00	1.50	>2.0	1,000	N	N	N	>5,000	1,000
CI154C	65 9 26	145 11 4	7.0	1.00	1.00	2.0	1,000	N	N	N	>5,000	2,000
CI155C	65 8 21	144 45 7	5.0	3.00	10.00	1.5	1,500	N	N	N	5,000	1,000
CI156C	65 8 35	144 45 46	5.0	2.00	10.00	>2.0	1,500	N	N	N	>5,000	1,500
CI157C	65 10 20	144 47 37	5.0	2.00	5.00	2.0	3,000	N	N	N	1,000	2,000
CI158C	65 9 58	144 47 42	3.0	1.00	7.00	1.5	700	N	N	N	1,000	500
CI159C	65 11 0	144 41 55	5.0	.50	2.00	1.5	1,500	N	N	N	3,000	300
CI160C	65 7 1	144 32 16	2.0	1.50	7.00	2.0	700	N	N	N	2,000	500
CI161C	65 7 56	144 35 5	3.0	5.00	10.00	1.5	1,000	N	N	N	>5,000	2,000
CI162C	65 9 4	144 38 57	1.5	1.00	7.00	>2.0	700	7.0	N	N	500	200
CI163C	65 8 42	144 38 43	3.0	2.00	7.00	1.0	1,000	<1.0	N	N	1,000	2,000
CI164C	65 10 13	144 35 16	2.0	.50	7.00	.5	1,000	N	N	N	1,500	100
CI165C	65 16 24	144 24 32	3.0	2.00	5.00	1.0	700	N	N	N	1,000	500
CI166C	65 18 6	144 26 32	3.0	1.00	3.00	.7	1,000	N	N	N	700	500
CI167C	65 18 9	144 28 49	3.0	2.00	3.00	1.5	700	N	N	N	200	2,000
CI168C	65 18 16	144 33 47	5.0	1.00	10.00	5.0	1,000	N	N	N	500	700
CI169C	65 15 52	144 37 16	3.0	2.00	5.00	2.0	700	N	N	N	2,000	2,000
CI170C	65 17 24	144 38 22	5.0	.70	2.00	2.0	1,000	N	N	N	700	300
CI171C	65 16 34	144 43 17	5.0	.50	2.00	2.0	700	N	N	N	1,500	500
CI172C	65 15 13	144 44 51	3.0	1.00	7.00	2.0	1,000	N	N	N	500	700
CI173C	65 15 13	144 46 24	5.0	1.50	5.00	1.0	1,000	N	N	N	300	1,000
CI174C	65 8 41	146 23 40	5.0	.70	2.00	>2.0	700	N	N	N	1,000	700
CI175C	65 9 20	146 23 22	3.0	1.00	5.00	.7	1,000	N	N	N	200	1,500
CI176C	65 4 59	146 42 26	3.0	.30	5.00	>2.0	700	N	N	N	500	500
CI177C	65 2 32	146 56 2	2.0	2.00	5.00	>2.0	500	N	N	N	500	500
CI178C	65 4 27	146 57 57	3.0	.70	5.00	2.0	700	N	N	N	1,000	500
CI179C	65 2 59	146 55 1	2.0	.50	7.00	>2.0	700	N	N	N	500	500
CI180C	65 11 10	144 1 23	5.0	2.00	15.00	>2.0	1,000	<1.0	N	N	>5,000	1,500
CI181C	65 11 16	144 4 57	7.0	3.00	10.00	>2.0	1,500	N	N	N	5,000	1,000
CI182C	65 13 13	144 7 33	7.0	7.00	20.00	2.0	2,000	N	N	N	5,000	3,000

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI138C	3	N	N	20	200	50	200	N	100	30	100
CI139C	3	N	N	15	200	<10	100	N	150	20	50
CI140C	2	N	N	50	300	15	150	N	150	20	70
CI141C	<2	N	N	20	500	<10	100	N	200	20	50
CI142C	2	N	N	15	500	<10	100	N	300	15	100
CI143C	<2	N	N	10	500	N	150	N	200	<10	100
CI144C	<2	N	N	20	300	<10	150	N	200	15	150
CI145C	2	N	N	15	300	<10	150	N	150	10	70
CI146C	2	N	N	15	300	100	150	N	150	10	70
CI147C	2	N	N	10	300	<10	150	N	200	10	100
CI148C	2	N	N	<10	300	N	200	N	100	<10	100
CI149C	<2	N	N	10	300	N	200	N	150	15	100
CI150C	7	N	N	20	200	15	200	N	70	30	100
CI151C	<2	N	N	20	300	<10	100	N	150	<10	200
CI152C	2	N	N	10	300	<10	200	N	150	<10	70
CI153C	5	N	N	20	300	20	700	N	100	50	70
CI154C	5	N	N	30	200	20	150	N	50	70	100
CI155C	5	<20	N	15	500	10	150	N	50	30	<20
CI156C	7	70	N	15	500	10	1,000	N	200	20	50
CI157C	2	N	N	100	500	<10	100	N	100	150	20
CI158C	5	50	N	10	200	<10	700	N	100	10	20
CI159C	3	N	N	50	200	<10	150	N	100	50	20
CI160C	2	N	N	10	200	N	70	N	70	15	<20
CI161C	5	N	N	20	200	15	150	N	70	30	<20
CI162C	10	>2,000	N	15	70	15	>2,000	N	300	10	200
CI163C	5	50	N	15	100	10	500	N	200	20	20
CI164C	70	<20	N	10	100	<10	500	N	<50	10	<20
CI165C	3	N	N	10	100	<10	150	N	70	10	<20
CI166C	3	N	N	15	100	<10	200	N	<50	10	<20
CI167C	7	N	N	15	200	<10	150	N	70	20	30
CI168C	2	N	N	15	100	N	100	N	N	15	<20
CI169C	<2	N	N	15	300	<10	70	N	70	70	20
CI170C	2	N	N	10	100	15	200	N	70	<10	150
CI171C	<2	N	N	10	100	50	200	N	50	<10	70
CI172C	3	N	N	10	100	50	100	N	70	20	20
CI173C	2	N	N	15	150	<10	100	N	50	30	20
CI174C	2	N	N	15	200	10	300	N	100	15	15
CI175C	2	N	N	10	100	<10	100	N	<50	<10	50
CI176C	<2	N	N	15	150	N	150	N	150	10	70
CI177C	<2	N	N	15	1,000	N	100	N	100	150	50
CI178C	<2	N	N	10	200	N	100	N	150	20	50
CI179C	<2	N	N	10	200	N	100	N	150	15	50
CI180C	3	N	N	20	500	50	1,000	N	200	30	100
CI181C	2	N	N	20	500	50	200	N	300	50	70
CI182C	5	N	N	15	300	15	200	N	70	30	50

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI138C	N	30	70	200	200	N	150	N	>2,000	N
CI139C	N	30	N	1,000	300	<100	70	N	1,500	N
CI140C	N	30	30	1,000	300	N	100	N	>2,000	N
CI141C	N	30	30	1,000	300	300	100	N	1,000	N
CI142C	N	30	30	1,000	300	700	100	N	>2,000	N
CI143C	N	30	20	1,000	500	500	150	N	>2,000	N
CI144C	N	30	100	1,500	300	<100	100	N	>2,000	N
CI145C	N	30	30	700	300	N	100	N	>2,000	N
CI146C	N	30	70	1,000	300	<100	100	N	>2,000	N
CI147C	N	30	<20	1,000	200	N	150	N	>2,000	N
CI148C	N	30	100	1,500	300	700	100	N	>2,000	N
CI149C	N	30	20	1,500	500	N	100	N	1,000	N
CI150C	N	30	700	300	200	N	100	N	>2,000	N
CI151C	N	50	<20	700	200	N	200	N	>2,000	N
CI152C	N	30	20	1,000	200	N	200	N	>2,000	N
CI153C	N	30	100	500	150	100	200	N	>2,000	N
CI154C	N	50	150	300	150	N	150	N	>2,000	N
CI155C	N	30	50	500	500	200	100	N	700	N
CI156C	N	20	100	500	200	200	200	N	>2,000	200
CI157C	N	30	N	700	300	N	70	N	>2,000	N
CI158C	N	10	50	500	200	200	150	N	>2,000	<200
CI159C	N	15	<20	300	150	700	100	N	1,000	N
CI160C	N	10	50	500	200	700	100	N	1,000	N
CI161C	N	20	300	300	300	300	150	N	500	N
CI162C	N	10	150	<200	50	500	700	N	300	2,000
CI163C	N	20	50	700	200	150	200	N	500	<200
CI164C	N	<10	1,500	300	100	100	100	<500	2,000	N
CI165C	N	10	70	300	300	700	70	N	150	N
CI166C	N	10	N	300	150	150	50	N	1,000	N
CI167C	N	15	50	1,000	300	<100	70	N	1,000	N
CI168C	N	15	20	1,000	150	N	50	N	500	N
CI169C	N	20	150	500	200	N	50	N	1,000	N
CI170C	N	30	50	300	150	N	150	N	>2,000	N
CI171C	N	30	70	500	150	N	150	N	>2,000	N
CI172C	N	15	<20	1,000	200	N	50	N	1,500	N
CI173C	N	20	20	1,000	200	N	30	N	1,000	N
CI174C	N	30	N	700	200	N	100	N	>2,000	N
CI175C	N	20	N	1,000	200	N	50	N	2,000	N
CI176C	N	15	<20	700	150	N	100	N	>2,000	N
CI177C	N	50	20	1,000	200	N	150	N	>2,000	N
CI178C	N	20	N	1,000	200	N	70	N	2,000	N
CI179C	N	15	<20	1,000	200	N	70	N	>2,000	N
CI180C	N	30	200	700	300	300	200	N	>2,000	<200
CI181C	N	20	70	1,000	500	700	150	N	>2,000	N
CI182C	N	50	150	1,000	500	500	100	N	500	N

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI183C	65 8 18	145 40 55	2.0	.70	10.00	>2.0	700	N	N	N	500	>10,000
CI184C	65 8 1	145 41 28	3.0	1.00	7.00	>2.0	700	N	N	N	3,000	5,000
CI185C	65 8 46	145 43 55	3.0	1.00	7.00	>2.0	1,000	N	N	N	>5,000	1,500
CI186C	65 9 56	145 43 37	2.0	.50	7.00	>2.0	2,000	5.0	N	N	1,000	>10,000
CI187C	65 10 14	145 47 51	2.0	1.00	10.00	>2.0	700	N	N	N	500	>10,000
CI188C	65 8 42	145 54 13	5.0	.70	5.00	>2.0	1,500	N	N	N	1,000	2,000
CI189C	65 9 13	145 55 27	3.0	1.50	10.00	>2.0	1,000	N	N	N	500	1,500
CI190C	65 7 44	145 59 33	5.0	.70	5.00	>2.0	1,000	N	N	N	5,000	2,000
CI191C	65 10 23	145 6 36	5.0	2.00	5.00	>2.0	1,500	N	N	N	>5,000	500
CI192C	65 13 47	145 12 57	3.0	1.00	7.00	>2.0	500	N	N	N	>5,000	3,000
CI193C	65 15 25	145 21 5	5.0	.30	7.00	>2.0	1,000	N	N	N	500	2,000
CI194C	65 20 25	145 24 38	3.0	.50	2.00	>2.0	1,000	N	N	N	700	500
CI195C	65 20 33	145 25 27	5.0	1.00	3.00	>2.0	1,000	N	N	N	1,000	700
CI196C	65 17 45	145 24 17	5.0	.50	5.00	>2.0	700	N	N	N	700	700
CI197C	65 18 57	145 21 21	3.0	.50	5.00	>2.0	500	N	N	N	700	1,000
CI198C	65 17 43	145 20 52	3.0	.30	2.00	>2.0	700	N	N	N	700	700
CI199C	65 10 50	145 35 2	.7	.15	5.00	.5	200	N	N	N	150	>10,000
CI200C	65 10 34	145 34 32	1.5	.30	5.00	.5	300	N	N	N	200	>10,000
CI201C	65 12 2	145 30 54	10.0	.30	5.00	2.0	500	N	N	N	300	>10,000
CI202C	65 12 45	145 28 14	2.0	.20	3.00	>2.0	300	N	N	N	1,000	2,000
CI203C	65 13 54	145 54 56	5.0	.30	3.00	>2.0	1,000	N	N	N	1,000	700
CI204C	65 16 3	145 54 11	7.0	.70	5.00	>2.0	1,000	N	N	N	700	2,000
CI205C	65 22 26	145 43 18	5.0	.70	2.00	>2.0	1,000	N	N	N	1,500	1,000
CI206C	65 21 22	145 43 37	5.0	.30	2.00	>2.0	500	N	N	N	700	1,000
CI207C	65 21 0	145 44 50	3.0	.70	2.00	>2.0	300	N	N	N	5,000	1,000
CI208C	65 19 54	145 48 14	5.0	.50	5.00	>2.0	1,000	N	N	N	700	1,500
CI209C	65 19 52	145 45 57	3.0	.70	10.00	>2.0	700	N	N	N	1,000	1,000
CI210C	65 18 26	145 44 42	5.0	.50	2.00	>2.0	300	N	N	N	1,500	1,500
CI211C	65 19 36	145 39 44	3.0	.50	7.00	>2.0	700	N	N	N	1,000	700
CI212C	65 17 36	145 38 19	20.0	.20	5.00	2.0	700	N	N	N	200	500
CI213C	65 20 36	145 33 57	3.0	.50	5.00	>2.0	1,000	N	N	N	700	1,000
CI214C	65 19 29	145 32 13	7.0	.50	1.00	>2.0	700	N	N	N	700	700
CI215C	65 18 46	145 33 55	5.0	.70	5.00	>2.0	1,000	N	N	N	500	1,000
CI216C	65 16 45	145 30 23	5.0	.30	7.00	>2.0	700	N	N	N	1,000	1,000
CI217C	65 19 17	145 26 1	3.0	1.00	7.00	>2.0	1,500	N	N	N	1,000	1,500
CI218C	65 19 17	145 19 39	5.0	.70	7.00	>2.0	1,000	N	N	N	1,000	1,500
CI219C	65 19 33	145 20 42	3.0	.50	1.50	>2.0	700	N	N	N	1,000	700
CI220C	65 18 11	145 14 50	2.0	.50	3.00	>2.0	1,000	N	N	N	700	1,500
CI221C	65 19 2	145 9 36	3.0	.70	7.00	>2.0	1,000	N	N	N	700	1,000
CI222C	65 33 10	146 55 11	15.0	1.00	.70	2.0	1,000	N	N	N	1,000	2,000
CI223C	65 33 38	146 53 54	10.0	1.00	2.00	2.0	1,000	N	N	N	3,000	2,000
CI224C	65 33 34	146 50 16	1.5	.20	.15	.7	300	N	N	N	500	200
CI225C	65 33 52	146 50 13	1.0	.10	.10	.3	300	N	N	N	300	100
CI226C	65 34 29	146 46 22	1.5	.15	<.10	.2	200	N	N	N	500	150
CI227C	65 35 13	146 44 51	3.0	5.00	7.00	1.5	2,000	N	N	N	500	700

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI183C	<2	N	N	10	100	<10	300	N	200	<10	50
CI184C	<2	N	N	10	300	10	150	N	500	N	70
CI185C	3	N	N	20	300	15	150	N	200	10	70
CI186C	7	N	N	15	200	15	500	N	150	15	50
CI187C	2	N	N	15	300	<10	200	N	200	10	100
CI188C	<2	N	N	30	200	20	150	N	300	15	150
CI189C	2	N	N	15	200	<10	150	N	150	15	70
CI190C	5	N	N	70	150	30	200	N	200	20	100
CI191C	7	N	N	20	200	30	500	N	150	10	70
CI192C	2	N	N	15	500	<10	700	N	200	<10	100
CI193C	3	N	N	15	200	15	1,000	N	100	<10	100
CI194C	2	N	N	50	150	20	2,000	N	150	10	100
CI195C	3	N	N	20	200	10	300	N	200	<10	70
CI196C	2	N	N	50	200	20	500	N	150	20	150
CI197C	2	N	N	50	300	50	700	N	100	20	150
CI198C	2	N	N	10	100	10	500	N	70	N	100
CI199C	<2	N	N	<10	70	10	300	N	N	10	<20
CI200C	<2	N	N	10	100	20	500	N	N	30	<20
CI201C	2	N	N	300	300	2,000	700	N	70	70	100
CI202C	2	N	N	15	200	10	2,000	N	200	N	100
CI203C	2	N	N	30	100	10	200	N	100	N	100
CI204C	2	N	N	50	200	20	200	N	70	30	100
CI205C	2	N	N	50	300	30	500	N	100	20	200
CI206C	3	N	N	30	200	<10	700	N	100	20	200
CI207C	2	N	N	20	300	<10	1,000	N	150	10	150
CI208C	2	N	N	50	200	150	1,000	N	150	10	150
CI209C	2	N	N	50	300	15	1,000	N	100	<10	150
CI210C	3	N	N	15	200	20	200	N	70	N	150
CI211C	2	N	N	30	150	<10	700	N	<50	N	300
CI212C	2	N	N	500	50	70	200	N	70	50	200
CI213C	3	N	N	30	150	30	2,000	N	100	<10	100
CI214C	<2	N	N	100	300	100	700	N	150	50	150
CI215C	2	N	N	30	200	20	700	N	70	20	150
CI216C	2	N	N	30	150	10	1,000	N	100	10	200
CI217C	2	N	N	30	300	15	500	N	150	<10	100
CI218C	<2	N	N	70	300	70	300	N	100	15	150
CI219C	3	N	N	20	200	<10	700	N	150	<10	100
CI220C	3	N	N	15	150	10	200	N	100	N	70
CI221C	2	N	N	20	150	10	200	N	150	N	100
CI222C	7	N	N	30	500	100	300	N	70	30	300
CI223C	7	N	N	20	500	70	300	N	70	50	300
CI224C	15	N	N	10	150	15	>2,000	N	50	<10	50
CI225C	3	300	N	10	70	10	>2,000	N	50	<10	150
CI226C	5	N	N	<10	100	15	2,000	N	<50	10	70
CI227C	7	N	N	15	300	50	2,000	N	100	10	100

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI183C	N	20	N	2,000	150	N	200	N	>2,000	N
CI184C	N	30	150	700	300	N	100	N	>2,000	N
CI185C	N	50	20	500	300	100	100	N	>2,000	N
CI186C	N	15	N	1,000	150	N	150	N	>2,000	N
CI187C	N	20	20	1,000	300	N	100	N	>2,000	N
CI188C	N	15	20	300	200	N	100	N	>2,000	N
CI189C	N	30	N	1,000	200	N	100	N	>2,000	N
CI190C	N	30	20	500	150	<100	150	N	>2,000	N
CI191C	N	20	200	300	150	500	100	N	>2,000	N
CI192C	N	30	100	700	200	300	200	N	>2,000	200
CI193C	N	30	20	700	100	N	700	N	>2,000	200
CI194C	N	20	30	300	150	<100	200	N	>2,000	N
CI195C	N	50	<20	500	200	N	150	N	>2,000	<200
CI196C	N	30	N	700	150	<100	200	N	>2,000	<200
CI197C	N	50	N	700	150	150	200	N	>2,000	N
CI198C	N	70	N	300	70	N	700	N	>2,000	300
CI199C	N	N	N	3,000	100	N	150	1,500	700	N
CI200C	N	<10	N	3,000	200	N	100	N	500	N
CI201C	N	20	N	700	150	N	300	N	>2,000	<200
CI202C	N	30	50	300	150	N	700	N	>2,000	500
CI203C	N	50	N	500	100	N	500	N	>2,000	<200
CI204C	N	30	N	700	100	N	200	N	>2,000	N
CI205C	N	30	20	500	150	N	200	N	>2,000	N
CI206C	N	20	20	700	150	N	200	N	>2,000	N
CI207C	N	20	<20	700	100	N	200	N	>2,000	N
CI208C	N	30	N	1,000	100	N	200	N	>2,000	N
CI209C	N	30	20	1,500	150	N	300	N	>2,000	N
CI210C	N	30	N	500	100	N	300	N	>2,000	N
CI211C	N	100	N	700	100	N	700	N	>2,000	200
CI212C	N	30	N	500	70	N	500	N	>2,000	<200
CI213C	N	30	N	700	150	N	300	N	>2,000	N
CI214C	N	20	30	300	200	N	150	N	>2,000	N
CI215C	N	30	20	1,000	200	N	150	N	>2,000	N
CI216C	N	50	N	1,000	100	N	700	N	>2,000	200
CI217C	N	30	N	1,000	150	500	500	N	>2,000	N
CI218C	N	50	N	1,000	150	100	200	N	>2,000	N
CI219C	N	30	30	300	300	N	150	N	>2,000	N
CI220C	N	20	N	500	100	N	200	N	>2,000	N
CI221C	N	30	N	700	150	N	500	N	>2,000	N
CI222C	N	50	700	200	300	N	150	500	2,000	N
CI223C	N	50	>2,000	500	200	N	150	<500	2,000	N
CI224C	N	10	>2,000	N	30	100	500	N	>2,000	2,000
CI225C	N	<10	>2,000	N	20	<100	500	N	>2,000	2,000
CI226C	N	<10	>2,000	N	30	<100	150	N	2,000	1,000
CI227C	N	20	>2,000	<200	100	150	700	N	>2,000	5,000

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI228C	65 35 21	146 45 31	2.0	.70	2.00	2.0	1,000	N	N	N	200	200
CI229C	65 35 0	146 42 22	10.0	1.50	1.00	>2.0	700	N	N	N	500	1,500
CI230C	65 33 18	146 42 40	10.0	1.00	.30	>2.0	1,000	N	N	N	500	1,500
CI231C	65 34 4	146 40 5	7.0	1.00	.70	>2.0	500	N	N	N	500	1,500
CI232C	65 34 58	146 38 9	7.0	1.50	.20	>2.0	500	N	N	N	500	1,500
CI233C	65 16 43	146 3 54	3.0	.50	10.00	>2.0	1,000	N	N	N	500	1,500
CI234C	65 16 1	146 2 0	3.0	1.00	10.00	>2.0	1,000	N	N	N	700	1,000
CI235C	65 15 45	146 1 45	2.0	.30	5.00	>2.0	500	N	N	N	700	700
CI236C	65 16 12	145 59 38	5.0	.50	10.00	>2.0	700	N	N	N	700	700
CI237C	65 15 33	145 58 39	1.5	.30	10.00	>2.0	300	N	N	N	700	700
CI238C	65 15 48	145 56 27	1.5	.30	7.00	>2.0	500	N	N	N	700	700
CI239C	65 17 11	145 53 58	5.0	.70	10.00	>2.0	700	N	N	N	500	1,000
CI240C	65 17 32	145 50 42	2.0	.50	5.00	2.0	1,000	N	N	N	300	1,000
CI241C	65 14 31	144 5 13	3.0	1.00	5.00	>2.0	1,000	N	N	N	5,000	1,000
CI242C	65 13 0	144 7 39	5.0	3.00	10.00	1.0	1,500	<1.0	N	N	1,000	5,000
CI243C	65 13 8	144 10 53	3.0	5.00	10.00	>2.0	1,000	<1.0	N	N	1,500	2,000
CI244C	65 14 46	144 11 0	3.0	2.00	10.00	>2.0	1,000	N	N	N	500	3,000
CI245C	65 14 53	144 11 38	5.0	3.00	15.00	2.0	1,500	<1.0	1,000	N	1,000	5,000
CI246C	65 14 8	144 12 34	5.0	2.00	15.00	>2.0	1,500	N	1,000	N	700	3,000
CI247C	65 13 40	144 13 9	5.0	3.00	10.00	2.0	2,000	N	N	N	1,000	3,000
CI248C	65 13 18	144 13 54	3.0	2.00	10.00	>2.0	1,000	<1.0	N	N	5,000	700
CI249C	65 14 3	144 18 11	5.0	.70	5.00	>2.0	1,500	N	N	N	700	1,500
CI250C	65 11 31	144 18 35	10.0	5.00	15.00	>2.0	1,000	2.0	N	N	5,000	2,000
CI251C	65 12 49	144 17 54	5.0	5.00	10.00	>2.0	1,500	N	N	N	1,500	1,500
CI252C	65 14 39	144 22 43	3.0	3.00	15.00	>2.0	1,500	<1.0	N	N	700	1,000
CI253C	65 10 34	144 24 8	3.0	2.00	7.00	>2.0	700	1.0	N	N	700	2,000
CI254C	65 9 9	144 27 35	5.0	1.50	7.00	>2.0	1,000	<1.0	N	N	5,000	1,000
CI255C	65 8 38	144 27 56	5.0	2.00	5.00	2.0	1,000	N	N	N	>5,000	500
CI256C	65 5 55	144 25 20	5.0	3.00	15.00	2.0	1,000	<1.0	N	N	3,000	1,000
CI257C	65 1 54	144 27 23	5.0	2.00	5.00	2.0	1,000	N	N	N	>5,000	500
CI258C	65 0 18	144 11 51	5.0	2.00	10.00	>2.0	1,000	<1.0	N	N	5,000	700
CI259C	65 1 15	144 7 52	3.0	2.00	7.00	>2.0	700	N	N	N	5,000	500
CI260C	65 2 26	144 5 28	3.0	1.00	10.00	>2.0	500	<1.0	N	N	5,000	700
CI261C	65 5 9	144 3 49	5.0	3.00	10.00	>2.0	500	<1.0	N	N	>5,000	7,000
CI262C	65 3 11	144 9 44	5.0	5.00	15.00	>2.0	1,000	<1.0	N	N	2,000	1,000
CI263C	65 5 46	144 11 44	5.0	3.00	7.00	>2.0	700	1.0	N	N	1,000	1,000
CI264C	65 8 20	144 8 29	5.0	7.00	10.00	2.0	700	<1.0	N	N	1,500	3,000
CI265C	65 8 45	144 1 24	3.0	1.50	7.00	>2.0	700	<1.0	N	N	>5,000	500
CI266C	65 4 58	144 14 50	3.0	2.00	10.00	>2.0	500	1.5	N	N	3,000	2,000
CI267C	65 4 9	144 20 17	3.0	2.00	10.00	>2.0	700	<1.0	N	N	2,000	1,000
CI268C	65 3 23	144 23 52	5.0	2.00	5.00	.7	1,000	N	N	N	>5,000	500
CI269C	65 0 23	144 18 33	5.0	1.00	10.00	>2.0	1,000	N	N	N	>5,000	700
CI270C	65 0 16	144 23 48	3.0	1.50	7.00	1.5	1,000	N	N	N	>5,000	300
CI271C	65 1 12	144 28 51	5.0	1.50	5.00	2.0	1,000	N	N	N	>5,000	500
CI272C	65 1 21	144 32 9	5.0	2.00	10.00	1.0	1,000	<1.0	N	N	2,000	1,000

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI228C	10	N	N	15	100	30	>2,000	N	150	N	700
CI229C	5	N	N	50	1,000	100	1,000	N	150	50	200
CI230C	3	N	N	30	700	70	1,000	N	100	30	100
CI231C	2	N	N	20	300	50	300	N	100	20	100
CI232C	<2	N	N	15	1,000	100	500	N	150	15	150
CI233C	<2	N	N	30	150	<10	700	N	100	<10	100
CI234C	<2	N	N	20	200	<10	300	N	150	20	100
CI235C	<2	N	N	<10	200	<10	500	N	150	N	100
CI236C	<2	N	N	70	150	300	300	N	150	30	150
CI237C	2	N	N	<10	100	N	200	N	100	N	200
CI238C	2	N	N	10	100	N	200	N	150	N	100
CI239C	2	N	N	70	150	20	200	N	100	20	100
CI240C	2	N	N	15	100	10	100	N	70	<10	50
CI241C	5	N	N	20	200	15	150	N	150	10	70
CI242C	3	N	N	20	300	200	150	N	50	30	70
CI243C	3	N	N	20	300	10	100	N	100	30	50
CI244C	2	N	N	15	200	<10	200	N	200	15	70
CI245C	3	N	N	100	300	<10	200	N	150	30	70
CI246C	3	N	N	200	300	50	150	N	200	50	100
CI247C	5	N	N	50	300	15	300	N	100	50	70
CI248C	3	N	N	15	500	<10	150	N	200	30	30
CI249C	5	N	N	30	300	15	150	N	200	15	100
CI250C	7	N	N	50	500	50	200	N	100	100	100
CI251C	5	N	N	15	500	<10	100	N	150	30	50
CI252C	15	N	N	15	500	<10	100	N	300	30	20
CI253C	3	N	N	15	500	50	100	N	200	20	20
CI254C	5	N	N	100	300	15	150	N	150	70	30
CI255C	10	N	N	20	500	15	500	N	100	15	50
CI256C	3	N	N	15	300	10	150	N	100	30	30
CI257C	5	N	N	15	500	20	1,000	N	100	30	50
CI258C	5	N	N	20	500	15	150	N	150	70	30
CI259C	2	N	N	30	700	<10	70	N	200	50	50
CI260C	3	N	N	30	500	10	150	N	150	50	30
CI261C	2	N	N	10	500	15	150	N	200	70	70
CI262C	2	N	N	15	300	<10	150	N	150	50	30
CI263C	<2	N	N	15	300	<10	100	N	200	30	50
CI264C	2	N	N	20	300	<10	100	N	150	30	20
CI265C	5	N	N	20	500	10	150	N	150	100	50
CI266C	<2	N	N	10	500	15	100	N	200	30	70
CI267C	2	N	N	10	300	<10	100	N	200	30	50
CI268C	5	<20	N	15	300	20	2,000	N	50	20	70
CI269C	3	N	N	15	500	15	300	N	150	20	50
CI270C	<2	N	N	15	300	10	>2,000	N	70	N	50
CI271C	5	N	N	70	300	15	700	N	100	20	30
CI272C	5	N	N	10	200	10	150	N	50	20	30

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI228C	N	30	>2,000	<200	70	<100	1,500	N	>2,000	>5,000
CI229C	N	30	100	500	200	<100	200	N	>2,000	<200
CI230C	N	50	2,000	<200	300	<100	200	N	>2,000	<200
CI231C	N	50	N	500	200	N	200	N	>2,000	<200
CI232C	N	50	30	200	300	N	200	N	>2,000	200
CI233C	N	30	N	2,000	150	N	200	N	>2,000	N
CI234C	N	50	N	2,000	150	N	300	N	>2,000	N
CI235C	N	50	N	1,000	150	700	700	N	>2,000	500
CI236C	N	50	N	1,500	150	100	300	N	>2,000	N
CI237C	N	50	N	1,500	100	N	700	N	>2,000	<200
CI238C	N	50	N	700	100	N	500	N	>2,000	<200
CI239C	N	30	N	1,500	150	N	200	N	>2,000	N
CI240C	N	20	N	500	100	N	150	N	>2,000	N
CI241C	N	50	50	500	200	N	200	500	>2,000	N
CI242C	N	30	20	1,000	300	300	70	N	500	N
CI243C	N	20	300	700	500	150	150	<500	500	N
CI244C	N	50	70	1,000	500	100	200	N	>2,000	N
CI245C	N	50	50	1,500	300	150	150	N	500	N
CI246C	N	50	70	1,500	500	N	150	N	2,000	N
CI247C	N	30	50	1,000	500	500	100	N	150	N
CI248C	N	20	300	300	500	500	150	N	200	N
CI249C	N	70	200	500	300	<100	700	N	>2,000	N
CI250C	N	30	150	500	500	300	300	500	70	N
CI251C	N	20	70	500	500	700	150	N	100	N
CI252C	N	20	300	300	500	1,000	300	N	100	N
CI253C	N	20	200	500	500	150	200	N	100	N
CI254C	N	15	70	300	500	200	200	1,500	70	N
CI255C	N	20	>2,000	500	200	700	200	N	>2,000	N
CI256C	N	20	500	700	300	700	150	N	200	N
CI257C	N	30	50	300	200	500	200	N	1,500	<200
CI258C	N	20	20	700	200	100	100	N	500	N
CI259C	N	30	50	500	500	<100	100	N	2,000	N
CI260C	N	20	<20	700	200	N	150	N	1,000	N
CI261C	N	30	200	1,000	300	100	150	N	700	N
CI262C	N	30	20	700	300	N	100	N	700	N
CI263C	N	20	50	700	300	<100	100	N	100	N
CI264C	N	20	50	1,000	300	700	100	500	100	N
CI265C	N	20	20	1,000	200	150	100	N	500	N
CI266C	N	20	150	1,000	500	300	100	N	70	N
CI267C	N	20	30	1,000	300	150	100	N	100	N
CI268C	N	30	N	200	200	150	500	N	2,000	300
CI269C	N	20	30	700	200	700	150	N	2,000	N
CI270C	N	20	70	200	150	700	700	N	>2,000	1,500
CI271C	N	30	200	300	200	1,000	200	N	1,000	<200
CI272C	N	20	100	700	300	<100	70	N	150	N

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI273C	65 1 11	144 32 29	5.0	3.00	10.00	.5	1,500	N	N	N	5,000	1,000
CI274C	65 4 42	144 39 51	5.0	3.00	10.00	>2.0	1,000	N	N	N	>5,000	700
CI275C	65 2 36	144 36 0	5.0	2.00	20.00	1.5	1,500	N	N	N	>5,000	500
CI276C	65 2 15	144 33 45	5.0	2.00	20.00	1.5	2,000	N	N	N	2,000	1,000
CI277C	65 3 54	144 23 46	5.0	2.00	15.00	>2.0	2,000	N	N	N	>5,000	700
CI278C	65 3 43	144 28 37	3.0	2.00	10.00	>2.0	700	<1.0	N	N	5,000	500
CI279C	65 3 1	144 43 2	3.0	2.00	20.00	1.0	2,000	N	N	N	500	500
CI280C	65 1 10	144 45 24	5.0	3.00	3.00	2.0	1,000	N	N	N	>5,000	500
CI281C	65 0 19	144 42 45	5.0	1.50	5.00	.7	1,000	N	N	N	>5,000	500
CI282C	65 1 56	144 48 52	5.0	2.00	10.00	1.0	1,500	N	N	N	>5,000	1,000
CI283C	65 4 20	144 47 22	3.0	2.00	15.00	2.0	700	<1.0	N	N	700	1,000
CI284C	65 5 46	144 48 53	3.0	2.00	3.00	2.0	1,000	N	N	N	>5,000	500
CI285C	65 2 45	144 54 35	3.0	1.00	10.00	2.0	700	<1.0	N	N	500	700
CI286C	65 3 42	144 56 12	5.0	2.00	10.00	.7	1,000	N	N	N	700	1,000
CI287C	65 4 34	144 56 45	3.0	2.00	2.00	>2.0	700	N	N	N	>5,000	300
CI288C	65 9 23	144 49 39	5.0	1.00	3.00	>2.0	1,000	N	N	N	>5,000	500
CI289C	65 9 51	144 45 6	3.0	1.00	5.00	2.0	1,000	<1.0	N	N	3,000	1,000
CI290C	65 11 13	144 36 57	5.0	3.00	10.00	2.0	1,500	N	N	N	>5,000	2,000
CI291C	65 8 32	144 35 9	5.0	5.00	15.00	>2.0	2,000	N	N	N	>5,000	5,000
CI292C	65 5 46	144 33 6	3.0	3.00	10.00	>2.0	1,000	<1.0	N	N	3,000	300
CI293C	65 7 53	144 33 18	5.0	2.00	2.00	.7	700	N	N	N	>5,000	300
CI294C	65 7 18	144 40 46	5.0	3.00	15.00	1.0	2,000	N	N	N	2,000	2,000
CI295C	65 1 37	145 31 49	2.0	.70	10.00	>2.0	500	1.0	N	N	500	3,000
CI296C	65 7 5	145 30 31	5.0	1.50	10.00	>2.0	1,000	<1.0	N	N	2,000	1,500
CI297C	65 4 54	145 31 37	3.0	.70	10.00	1.0	700	<1.0	N	N	1,500	700
CI298C	65 3 13	145 33 47	3.0	1.00	7.00	>2.0	1,000	<1.0	N	N	>5,000	1,500
CI299C	65 3 21	145 34 45	3.0	1.00	15.00	>2.0	1,000	1.0	N	N	3,000	1,500
CI300C	65 3 21	145 38 43	2.0	.50	10.00	>2.0	700	1.0	N	N	1,500	700
CI301C	65 3 31	145 41 52	3.0	.70	15.00	>2.0	700	<1.0	N	N	700	2,000
CI302C	65 3 35	145 42 12	7.0	2.00	7.00	2.0	1,500	<1.0	N	N	>5,000	2,000
CI303C	65 1 36	145 42 24	3.0	1.50	15.00	>2.0	700	5.0	N	N	1,000	3,000
CI304C	65 1 7	145 43 26	3.0	1.00	20.00	>2.0	1,000	<1.0	N	N	2,000	>10,000
CI305C	65 0 12	145 41 44	2.0	1.50	30.00	2.0	2,000	<1.0	N	N	500	>10,000
CI306C	65 0 14	145 43 21	2.0	1.00	20.00	>2.0	1,000	N	N	N	3,000	3,000
CI307C	65 1 54	145 45 33	5.0	1.00	7.00	2.0	1,500	N	N	N	2,000	2,000
CI308C	65 1 40	145 45 57	7.0	1.50	2.00	>2.0	1,500	N	N	N	>5,000	2,000
CI309C	65 7 37	145 37 30	2.0	.50	15.00	>2.0	700	N	N	N	1,000	3,000
CI310C	65 7 48	145 34 15	1.0	.20	3.00	1.0	300	1.0	N	N	200	>10,000
CI311C	65 6 14	145 33 59	5.0	1.00	3.00	>2.0	1,000	N	2,000	N	>5,000	3,000
CI312C	65 6 3	145 38 51	5.0	1.50	10.00	>2.0	700	N	1,000	N	>5,000	1,500
CI313C	65 5 13	145 41 25	5.0	2.00	10.00	>2.0	700	<1.0	N	N	5,000	2,000
CI314C	65 5 26	145 41 40	3.0	1.50	5.00	>2.0	1,500	N	N	N	>5,000	1,500
CI315C	65 1 13	144 59 36	2.0	1.00	10.00	>2.0	700	<1.0	N	N	3,000	700
CI316C	65 0 53	145 4 8	2.0	1.00	5.00	>2.0	500	<1.0	N	N	3,000	700
CI317C	65 0 48	145 8 44	2.0	1.50	7.00	>2.0	500	<1.0	N	N	1,000	700

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI273C	5	N	N	15	200	10	200	N	<50	30	50
CI274C	3	N	N	10	300	15	150	N	100	20	50
CI275C	2	N	N	15	300	10	300	N	50	15	50
CI276C	3	N	N	10	300	<10	100	N	<50	10	30
CI277C	2	N	N	15	300	10	700	N	100	10	50
CI278C	<2	N	N	15	500	N	150	N	150	30	<20
CI279C	3	N	N	10	200	<10	150	N	<50	10	30
CI280C	2	N	N	15	300	10	200	N	100	20	300
CI281C	5	N	N	15	300	20	500	N	<50	30	50
CI282C	2	N	N	30	300	20	200	N	50	50	70
CI283C	2	N	N	10	300	10	150	N	100	20	100
CI284C	5	100	N	10	200	15	150	N	70	<10	50
CI285C	<2	N	N	10	300	<10	200	N	150	15	200
CI286C	2	N	N	15	200	10	150	N	50	20	70
CI287C	5	100	N	15	300	10	2,000	N	70	15	70
CI288C	7	N	N	20	200	15	300	N	50	N	70
CI289C	7	N	N	10	300	10	200	N	150	20	<20
CI290C	10	<20	N	15	300	15	100	N	100	30	<20
CI291C	7	N	N	15	300	10	150	N	100	30	20
CI292C	<2	N	N	10	500	<10	150	N	150	30	<20
CI293C	10	N	N	15	300	30	500	N	50	20	30
CI294C	10	<20	N	15	200	100	150	N	50	50	20
CI295C	<2	N	N	15	200	15	70	N	200	30	30
CI296C	<2	N	N	15	300	15	150	N	150	50	100
CI297C	<2	N	N	10	200	<10	200	N	50	20	150
CI298C	<2	N	N	20	500	20	100	N	200	15	100
CI299C	2	N	N	10	700	<10	100	N	300	50	100
CI300C	<2	N	N	<10	500	N	100	N	300	10	50
CI301C	5	N	N	10	300	<10	150	N	150	15	100
CI302C	7	N	N	20	500	15	200	N	100	30	150
CI303C	<2	N	N	10	300	15	200	N	150	15	70
CI304C	2	N	N	10	300	<10	150	N	200	15	100
CI305C	<2	N	N	15	200	20	700	N	100	50	200
CI306C	3	N	N	10	300	<10	150	N	150	10	100
CI307C	10	N	N	20	500	15	200	N	50	30	100
CI308C	10	N	N	20	300	50	200	N	100	30	100
CI309C	2	N	N	<10	200	70	150	N	200	<10	70
CI310C	<2	N	N	<10	100	15	200	N	50	10	20
CI311C	3	N	N	50	300	70	200	N	300	20	150
CI312C	2	N	N	50	700	10	150	N	300	20	70
CI313C	2	N	N	15	500	10	100	N	200	30	50
CI314C	7	N	N	15	500	15	300	N	150	20	70
CI315C	<2	N	N	10	500	<10	150	N	200	50	150
CI316C	3	N	N	15	300	10	100	N	200	30	100
CI317C	<2	N	N	<10	200	<10	200	N	150	10	20

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI273C	N	20	150	1,000	300	N	70	N	200	N
CI274C	N	30	70	1,000	300	500	150	N	1,500	N
CI275C	N	15	100	1,000	200	100	300	N	>2,000	N
CI276C	N	15	N	700	500	N	150	N	500	N
CI277C	N	20	N	500	200	200	300	N	>2,000	200
CI278C	N	15	50	500	300	700	200	N	1,000	N
CI279C	N	20	N	1,000	500	150	150	N	500	N
CI280C	N	30	150	300	300	1,000	200	N	>2,000	<200
CI281C	N	30	50	200	200	1,000	200	N	1,000	<200
CI282C	N	30	>2,000	1,000	200	200	100	N	300	N
CI283C	N	30	50	1,500	300	N	100	N	200	N
CI284C	N	30	70	300	150	1,000	200	N	>2,000	N
CI285C	N	30	N	2,000	300	N	100	N	200	N
CI286C	N	20	N	1,000	200	N	70	N	150	N
CI287C	N	20	150	300	100	700	200	N	>2,000	300
CI288C	N	20	N	300	70	<100	500	700	>2,000	N
CI289C	N	10	30	300	200	N	100	N	150	N
CI290C	N	20	70	500	300	100	150	N	500	N
CI291C	N	20	700	500	500	1,000	200	N	1,500	N
CI292C	N	15	50	700	300	150	150	N	1,000	N
CI293C	N	20	1,000	300	150	300	150	N	>2,000	N
CI294C	N	30	70	500	200	2,000	70	N	150	N
CI295C	N	10	30	700	700	N	500	N	100	N
CI296C	N	30	N	1,500	300	N	100	N	100	N
CI297C	N	30	N	2,000	300	N	70	N	150	N
CI298C	N	30	30	1,000	500	N	100	N	1,500	N
CI299C	N	30	50	1,000	300	N	150	N	100	N
CI300C	N	20	50	700	500	N	70	N	1,000	N
CI301C	N	50	30	1,500	300	N	100	N	700	N
CI302C	N	30	50	500	300	150	70	N	1,000	N
CI303C	N	20	20	1,000	300	<100	150	N	1,500	N
CI304C	N	20	70	1,000	300	150	150	N	1,500	N
CI305C	N	10	N	2,000	500	N	500	N	1,000	N
CI306C	N	30	30	1,500	300	100	200	N	>2,000	N
CI307C	N	30	50	500	300	N	70	N	2,000	N
CI308C	N	30	N	300	200	100	100	N	>2,000	N
CI309C	N	20	N	1,000	200	N	200	N	>2,000	N
CI310C	N	N	N	2,000	150	N	100	N	700	N
CI311C	N	20	30	200	200	300	200	N	>2,000	N
CI312C	N	30	30	700	500	100	150	N	>2,000	N
CI313C	N	30	20	1,000	500	N	100	N	1,500	N
CI314C	N	30	20	300	150	100	150	N	>2,000	N
CI315C	N	30	30	2,000	500	300	100	N	700	N
CI316C	N	20	N	1,000	200	N	70	N	1,500	N
CI317C	N	20	100	700	200	1,500	150	N	500	N

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI318C	65 0 21	145 12 27	5.0	1.00	10.00	2.0	700	<1.0	N	N	500	3,000
CI319C	65 5 23	145 12 41	3.0	2.00	3.00	>2.0	1,000	N	N	N	>5,000	700
CI320C	65 0 26	145 18 1	3.0	1.00	15.00	1.0	300	<1.0	N	N	300	>10,000
CI321C	65 2 27	145 20 12	20.0	1.00	10.00	2.0	200	5.0	N	N	100	10,000
CI322C	65 0 7	145 20 40	2.0	.50	20.00	.7	700	N	N	N	150	>10,000
CI323C	65 2 10	145 23 11	2.0	1.00	10.00	2.0	700	<1.0	N	N	1,000	10,000
CI324C	65 2 37	145 23 45	3.0	.70	10.00	>2.0	700	<1.0	N	N	1,000	700
CI325C	65 0 50	145 25 17	2.0	.50	20.00	1.0	300	<1.0	N	N	300	>10,000
CI326C	65 7 15	145 15 32	3.0	.70	1.50	>2.0	1,000	N	N	N	>5,000	1,000
CI327C	65 8 7	145 19 30	3.0	.70	5.00	>2.0	1,000	N	N	N	5,000	700
CI328C	65 11 11	145 22 17	5.0	1.00	7.00	>2.0	1,000	N	N	N	5,000	5,000
CI329C	65 12 17	145 19 17	3.0	1.00	5.00	>2.0	1,000	N	N	N	500	>10,000
CI330C	65 13 4	145 14 59	5.0	1.50	2.00	>2.0	1,500	N	N	N	5,000	2,000
CI331C	65 8 39	145 8 4	3.0	1.00	1.50	>2.0	700	N	N	N	>5,000	500
CI332C	65 8 41	145 3 51	5.0	2.00	2.00	>2.0	1,000	N	N	N	>5,000	700
CI333C	65 13 48	145 5 57	3.0	1.00	7.00	>2.0	1,000	N	N	N	500	1,500
CI334C	65 13 56	145 5 3	2.0	.70	5.00	>2.0	500	N	N	N	500	5,000
CI335C	65 15 37	145 7 54	3.0	1.50	7.00	2.0	1,000	15.0	N	N	200	5,000
CI336C	65 16 22	145 5 12	2.0	.70	3.00	>2.0	1,000	N	N	N	500	3,000
CI337C	65 15 45	145 9 46	3.0	.70	1.50	>2.0	500	N	N	N	500	5,000
CI338C	65 18 45	144 22 16	3.0	1.00	7.00	>2.0	700	N	N	N	700	700
CI339C	65 20 11	144 17 15	5.0	1.00	10.00	2.0	1,000	N	N	N	700	1,500
CI340C	65 21 41	144 15 33	3.0	.70	5.00	1.5	1,000	N	N	N	700	2,000
CI341C	65 22 8	144 11 52	5.0	.70	5.00	>2.0	1,000	N	N	N	2,000	1,500
CI342C	65 22 15	144 6 37	5.0	.70	2.00	1.0	700	7.0	N	N	1,500	1,500
CI343C	65 20 14	144 4 59	3.0	.50	10.00	>2.0	700	N	N	N	700	2,000
CI344C	65 19 35	144 1 6	2.0	.50	7.00	>2.0	1,000	N	N	N	700	1,500
CI345C	65 24 40	144 18 4	7.0	1.00	1.00	2.0	1,000	N	N	N	5,000	2,000
CI346C	65 24 59	144 24 37	5.0	1.00	3.00	2.0	1,000	N	N	N	>5,000	1,000
CI347C	65 0 48	145 28 11	3.0	1.00	20.00	.5	500	<1.0	N	N	500	5,000
CI348C	65 2 22	145 28 46	3.0	1.50	7.00	>2.0	2,000	<1.0	N	N	1,000	2,000
CI349C	65 0 21	145 32 32	3.0	.50	15.00	.7	1,500	<1.0	N	N	300	>10,000
CI350C	65 11 15	145 31 8	2.0	1.00	15.00	1.5	100	N	N	N	200	>10,000
CI351C	65 11 5	145 32 31	1.5	.20	5.00	.7	150	N	N	N	150	>10,000
CI352C	65 12 59	145 36 27	3.0	.30	2.00	>2.0	500	N	N	N	500	3,000
CI353C	65 13 22	145 35 38	3.0	.30	1.50	>2.0	300	N	N	N	500	3,000
CI354C	65 14 10	145 43 3	3.0	.30	2.00	>2.0	700	N	N	N	700	2,000
CI355C	65 14 10	145 42 15	2.0	.20	2.00	>2.0	500	N	N	N	500	1,000
CI356C	65 12 19	145 44 24	2.0	.20	2.00	>2.0	500	N	N	N	500	1,000
CI357C	65 14 13	145 47 47	2.0	.20	3.00	>2.0	500	N	N	N	500	2,000
CI358C	65 14 29	145 51 7	5.0	1.00	2.00	2.0	1,000	N	N	N	300	3,000
CI359C	65 14 5	145 57 23	20.0	.20	5.00	1.5	200	3.0	N	N	200	7,000
CI360C	65 0 37	145 53 41	3.0	.70	3.00	>2.0	500	N	N	N	3,000	1,000
CI361C	65 0 28	145 54 19	3.0	.50	15.00	1.5	300	N	N	N	500	1,000
CI362C	65 0 21	145 51 1	5.0	1.00	3.00	>2.0	1,000	N	N	N	>5,000	1,500

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI318C	<2	N	N	15	300	50	1,000	N	100	70	70
CI319C	2	N	N	10	300	10	300	N	150	<10	70
CI320C	<2	N	N	15	200	50	1,000	N	<50	50	50
CI321C	<2	N	N	150	150	1,000	700	N	100	150	100
CI322C	<2	N	N	15	300	30	700	N	<50	70	30
CI323C	3	N	N	15	150	20	500	N	70	20	70
CI324C	<2	N	N	10	300	<10	150	N	150	15	150
CI325C	<2	N	N	15	200	20	700	N	<50	50	20
CI326C	7	N	N	20	200	20	200	N	150	20	100
CI327C	3	N	N	20	200	15	200	N	200	<10	100
CI328C	5	N	N	20	300	15	200	N	100	30	150
CI329C	2	N	N	20	200	100	200	N	150	20	100
CI330C	7	<20	N	20	200	70	300	N	70	30	70
CI331C	3	N	N	15	200	10	1,000	N	150	<10	50
CI332C	5	<20	N	30	300	20	500	N	100	30	70
CI333C	<2	N	N	20	200	10	300	N	150	15	70
CI334C	<2	N	N	15	300	20	150	N	200	10	50
CI335C	2	N	N	20	300	50	300	N	100	20	70
CI336C	2	N	N	30	300	20	700	N	150	<10	200
CI337C	5	N	N	20	500	15	300	N	100	20	70
CI338C	7	N	N	10	300	<10	200	N	200	15	70
CI339C	3	<20	N	15	300	<10	1,500	N	150	10	100
CI340C	7	N	N	15	300	10	700	N	100	15	100
CI341C	7	N	N	20	300	<10	200	N	150	20	70
CI342C	10	N	N	15	300	<10	500	N	70	30	50
CI343C	7	<20	N	10	500	<10	2,000	N	200	<10	70
CI344C	5	70	N	<10	200	N	1,000	N	200	<10	150
CI345C	3	N	N	20	500	50	200	N	70	30	200
CI346C	2	N	N	15	300	15	150	N	100	15	100
CI347C	2	N	N	30	300	50	700	N	<50	100	300
CI348C	<2	N	N	20	200	10	150	N	200	50	100
CI349C	2	N	N	15	200	50	300	N	<50	70	70
CI350C	<2	N	N	10	300	15	300	N	50	30	20
CI351C	<2	N	N	15	100	100	300	N	<50	30	<20
CI352C	2	N	N	20	300	2,000	300	N	150	<10	100
CI353C	<2	N	N	20	500	3,000	200	N	150	<10	100
CI354C	2	N	N	20	300	15	200	N	100	<10	150
CI355C	2	N	N	20	150	<10	150	N	<50	N	200
CI356C	<2	N	N	20	150	<10	150	N	50	N	150
CI357C	<2	N	N	15	500	<10	300	N	100	<10	150
CI358C	3	N	N	30	300	30	300	N	<50	50	150
CI359C	<2	N	N	300	50	200	100	N	50	700	200
CI360C	3	N	N	20	500	15	150	N	200	20	70
CI361C	<2	N	N	10	300	10	200	N	50	15	150
CI362C	3	N	N	20	300	20	300	N	150	20	100

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI318C	N	10	50	1,000	500	200	500	N	500	N
CI319C	N	50	100	500	150	2,000	200	N	>2,000	N
CI320C	N	10	N	2,000	300	N	200	N	1,000	N
CI321C	N	<10	N	1,000	200	100	300	<500	300	N
CI322C	N	<10	N	2,000	700	N	300	N	500	N
CI323C	N	15	20	1,500	300	N	150	N	500	N
CI324C	N	30	N	2,000	300	<100	100	N	700	N
CI325C	N	15	N	1,500	500	200	150	N	150	N
CI326C	N	30	N	300	100	<100	100	N	2,000	N
CI327C	N	30	100	500	150	N	150	N	>2,000	<200
CI328C	N	30	30	1,000	200	N	100	N	1,000	N
CI329C	N	30	N	700	200	N	150	N	2,000	N
CI330C	N	20	20	500	150	N	100	N	700	N
CI331C	N	30	150	300	100	1,000	200	N	>2,000	200
CI332C	N	30	70	300	150	150	100	N	2,000	<200
CI333C	N	50	N	1,000	200	N	150	N	2,000	N
CI334C	N	30	N	500	200	N	200	N	>2,000	N
CI335C	N	50	N	700	200	N	150	N	2,000	N
CI336C	N	50	N	500	300	N	300	N	>2,000	<200
CI337C	N	50	N	500	200	N	150	N	>2,000	N
CI338C	N	70	500	500	300	100	500	N	>2,000	N
CI339C	N	50	100	1,000	300	150	200	N	>2,000	200
CI340C	N	50	50	700	200	N	150	N	1,500	<200
CI341C	N	50	50	700	200	200	150	N	1,000	N
CI342C	N	30	20	500	150	100	100	700	1,500	N
CI343C	N	50	70	700	200	N	200	N	>2,000	300
CI344C	N	50	500	500	150	150	500	N	>2,000	200
CI345C	N	50	20	300	300	N	100	N	1,000	N
CI346C	N	50	70	500	200	100	150	N	>2,000	N
CI347C	N	20	N	2,000	300	700	200	700	700	N
CI348C	N	20	50	1,000	300	N	150	N	200	N
CI349C	N	10	N	1,500	500	N	150	N	200	N
CI350C	N	15	N	3,000	300	N	300	N	100	N
CI351C	N	<10	N	3,000	200	N	150	N	1,000	N
CI352C	N	30	N	700	150	N	300	N	>2,000	<200
CI353C	N	30	N	700	200	N	300	N	>2,000	<200
CI354C	N	30	N	700	150	N	300	N	>2,000	<200
CI355C	N	100	N	300	100	N	700	N	>2,000	N
CI356C	N	100	20	500	100	N	700	N	>2,000	<200
CI357C	N	70	N	500	150	N	500	N	>2,000	<200
CI358C	N	50	N	500	150	N	200	N	>2,000	N
CI359C	N	15	N	500	50	N	200	N	>2,000	N
CI360C	N	30	20	500	300	1,000	100	N	2,000	N
CI361C	N	30	N	2,000	200	N	70	N	500	N
CI362C	N	50	N	700	150	<100	150	N	>2,000	N

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI363C	65 0 22	145 44 14	5.0	.70	5.00	1.5	1,000	2.0	N	N	3,000	7,000
CI364C	65 5 43	145 50 1	3.0	.50	2.00	1.0	1,000	1.5	N	N	2,000	700
CI365C	65 4 16	145 52 48	3.0	.70	10.00	1.5	1,000	N	N	N	700	500
CI366C	65 4 45	145 52 25	5.0	.50	10.00	1.0	1,500	N	N	N	1,000	500
CI367C	65 3 12	145 54 43	5.0	1.00	7.00	2.0	1,500	N	N	N	700	1,000
CI368C	65 2 47	145 57 32	1.5	.20	10.00	>2.0	1,000	N	N	N	700	300
CI369C	65 3 3	145 58 16	2.0	.20	10.00	>2.0	1,000	<1.0	N	N	100	500
CI370C	65 2 34	145 58 15	2.0	.30	10.00	>2.0	1,000	N	N	N	3,000	300
CI371C	65 0 17	146 36 46	5.0	1.00	2.00	2.0	1,000	N	N	N	2,000	2,000
CI372C	65 0 27	146 42 1	5.0	1.00	3.00	>2.0	700	N	N	N	1,000	3,000
CI373C	65 0 40	146 43 0	5.0	.70	2.00	>2.0	1,000	N	N	N	700	3,000
CI374C	65 0 25	146 45 34	3.0	1.00	7.00	>2.0	1,000	N	N	N	2,000	500
CI375C	65 4 20	146 46 27	3.0	1.50	7.00	>2.0	1,000	N	N	N	700	1,500
CI376C	65 5 12	146 48 56	3.0	1.00	2.00	>2.0	700	N	N	N	1,500	700
CI377C	65 4 57	146 52 14	3.0	5.00	7.00	>2.0	1,500	<1.0	N	N	500	500
CI378C	65 5 0	146 58 4	5.0	1.00	7.00	>2.0	1,000	<1.0	N	N	700	1,000
CI379C	65 3 40	146 58 42	3.0	1.00	7.00	>2.0	1,000	<1.0	N	N	2,000	1,000
CI380C	65 5 53	146 44 45	3.0	1.00	10.00	2.0	700	N	N	N	1,000	2,000
CI381C	65 4 39	146 44 36	5.0	1.00	10.00	>2.0	1,000	<1.0	N	N	700	2,000
CI382C	65 5 39	146 40 47	5.0	3.00	10.00	1.0	1,500	N	N	N	300	5,000
CI383C	65 6 51	146 32 40	3.0	.70	7.00	>2.0	700	N	N	N	500	1,500
CI384C	65 7 35	146 59 42	3.0	1.50	7.00	>2.0	1,000	N	N	N	>5,000	700
CI385C	65 7 25	146 55 57	2.0	1.00	2.00	>2.0	300	N	N	N	500	1,500
CI386C	65 7 17	146 51 49	2.0	2.00	7.00	>2.0	700	N	N	N	200	500
CI387C	65 8 46	146 49 57	2.0	1.00	7.00	>2.0	700	<1.0	N	N	300	500
CI388C	65 9 31	146 50 29	3.0	1.00	3.00	>2.0	500	N	N	N	>5,000	1,000
CI389C	65 9 56	146 49 37	5.0	.70	1.00	>2.0	1,000	<1.0	N	N	500	1,500
CI390C	65 10 32	146 44 42	3.0	.50	2.00	2.0	500	N	N	N	500	2,000
CI391C	65 12 14	146 40 59	5.0	1.00	.50	>2.0	1,000	<1.0	N	N	500	3,000
CI392C	65 13 16	146 47 48	5.0	.50	1.00	>2.0	700	N	N	N	700	1,500
CI393C	65 13 44	146 52 47	3.0	1.00	3.00	>2.0	1,000	N	N	N	5,000	1,500
CI394C	65 9 42	146 24 46	3.0	1.00	10.00	2.0	1,500	N	N	N	500	1,500
CI395C	65 12 16	146 24 48	3.0	3.00	7.00	>2.0	1,000	<1.0	N	N	150	700
CI396C	65 12 23	146 22 42	2.0	1.00	5.00	>2.0	500	N	N	N	300	700
CI397C	65 1 49	146 19 29	3.0	.50	10.00	2.0	1,500	N	N	N	1,000	500
CI398C	65 2 51	146 18 48	5.0	2.00	2.00	2.0	700	N	N	N	>5,000	2,000
CI399C	65 6 39	146 2 45	3.0	2.00	10.00	>2.0	500	N	N	N	>5,000	700
CI400C	65 6 5	146 1 10	2.0	.30	10.00	>2.0	1,000	N	N	N	500	300
CI401C	65 6 0	146 1 40	3.0	1.00	10.00	>2.0	700	N	N	N	2,000	5,000
CI402C	65 7 10	145 59 0	3.0	1.00	5.00	2.0	1,000	N	N	N	5,000	700
CI403C	65 6 0	145 56 0	5.0	1.00	7.00	2.0	1,000	2.0	N	N	1,000	1,000
CI405C	65 8 0	145 52 0	3.0	.50	2.00	>2.0	500	N	N	N	1,500	1,000
CI406C	65 8 10	145 57 0	5.0	.70	5.00	>2.0	500	N	N	N	1,500	5,000
CI407C	65 10 30	145 54 40	3.0	1.00	7.00	>2.0	700	N	N	N	200	1,500
CI408C	65 10 50	145 54 20	3.0	1.50	10.00	>2.0	1,000	N	N	N	300	2,000

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI363C	15	N	N	20	300	50	200	N	50	30	500
CI364C	10	N	N	15	300	15	150	200	50	20	500
CI365C	20	<20	N	15	300	10	150	N	100	15	20
CI366C	20	<20	N	15	300	10	200	N	70	15	20
CI367C	10	50	N	20	300	20	200	N	70	30	50
CI368C	<2	N	N	<10	150	N	300	N	300	N	20
CI369C	<2	N	N	<10	100	N	200	N	300	<10	50
CI370C	<2	N	N	<10	100	N	500	N	300	N	30
CI371C	7	N	N	15	500	20	150	N	150	15	500
CI372C	15	N	N	20	300	20	200	N	100	10	150
CI373C	2	N	N	15	500	15	150	N	150	10	100
CI374C	<2	N	N	20	500	N	150	N	200	10	70
CI375C	<2	N	N	20	500	<10	150	N	200	30	100
CI376C	<2	N	N	15	300	10	300	N	100	70	100
CI377C	<2	N	N	30	500	10	100	N	150	100	50
CI378C	<2	N	N	15	500	10	100	N	200	30	70
CI379C	<2	N	N	20	500	<10	100	N	150	20	70
CI380C	2	N	N	15	300	<10	200	N	100	<10	70
CI381C	3	N	N	20	500	15	200	N	150	50	100
CI382C	2	N	N	20	300	15	150	N	50	30	70
CI383C	<2	N	N	15	300	10	200	N	100	<10	100
CI384C	<2	N	N	20	500	<10	200	N	150	20	150
CI385C	3	N	N	10	300	<10	200	N	150	10	150
CI386C	<2	N	N	15	500	<10	100	N	150	100	30
CI387C	<2	N	N	15	500	N	70	N	200	50	70
CI388C	3	N	N	30	500	<10	200	N	200	50	150
CI389C	2	N	N	30	300	15	300	N	100	30	100
CI390C	2	N	N	20	300	10	200	N	100	10	100
CI391C	2	N	N	50	500	20	500	N	70	70	100
CI392C	2	N	N	50	300	30	300	N	70	30	100
CI393C	2	N	N	30	300	20	300	N	100	20	150
CI394C	2	N	N	15	200	<10	200	N	70	<10	70
CI395C	<2	N	N	30	500	10	100	N	150	50	50
CI396C	<2	N	N	20	1,000	<10	70	N	150	10	150
CI397C	7	20	N	15	300	10	1,000	N	200	15	70
CI398C	3	N	N	15	300	30	200	N	100	20	70
CI399C	2	N	N	10	300	<10	300	N	100	10	70
CI400C	10	<20	N	10	150	<10	200	N	300	10	<20
CI401C	3	N	N	20	500	15	200	N	150	30	70
CI402C	10	N	N	20	500	15	200	N	200	20	50
CI403C	7	30	N	30	500	20	500	N	150	30	50
CI405C	2	N	N	20	500	15	150	N	300	10	100
CI406C	5	N	N	30	300	20	500	N	150	50	70
CI407C	<2	N	N	15	500	10	150	N	150	15	70
CI408C	<2	N	N	15	500	<10	150	N	100	15	50

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI363C	N	20	50	500	300	100	70	N	2,000	N
CI364C	N	15	N	200	100	500	100	N	1,000	N
CI365C	N	20	100	500	200	<100	150	N	2,000	N
CI366C	N	20	100	500	150	300	100	N	2,000	N
CI367C	N	20	70	500	150	N	150	500	700	N
CI368C	N	50	1,000	<200	200	300	700	N	>2,000	N
CI369C	N	15	200	300	500	N	700	N	700	N
CI370C	N	50	300	<200	300	500	1,000	N	>2,000	N
CI371C	N	20	500	300	200	700	100	N	>2,000	N
CI372C	N	30	N	500	150	100	150	N	>2,000	N
CI373C	N	30	N	500	200	N	100	N	>2,000	N
CI374C	N	20	N	700	500	N	150	N	>2,000	N
CI375C	N	30	N	1,000	300	N	100	N	2,000	N
CI376C	N	50	N	500	100	N	500	N	>2,000	<200
CI377C	N	50	N	700	300	N	70	N	1,000	N
CI378C	N	30	N	1,000	300	N	100	N	1,500	N
CI379C	N	20	N	1,000	300	N	70	N	2,000	N
CI380C	N	50	70	1,000	150	N	200	N	>2,000	N
CI381C	N	30	N	1,000	200	N	100	N	2,000	N
CI382C	N	30	30	1,000	200	N	70	N	1,000	N
CI383C	N	50	N	500	150	N	300	N	>2,000	N
CI384C	<200	20	N	1,000	200	N	100	N	>2,000	N
CI385C	N	50	<20	500	200	N	100	N	>2,000	N
CI386C	N	30	N	700	300	N	70	N	2,000	N
CI387C	N	20	N	1,000	300	N	70	N	150	N
CI388C	N	30	<20	700	200	N	100	N	>2,000	<200
CI389C	N	30	N	500	300	N	70	N	2,000	N
CI390C	N	50	N	500	150	N	100	N	>2,000	N
CI391C	N	50	N	500	300	N	100	N	700	N
CI392C	N	30	N	500	200	N	150	N	2,000	N
CI393C	N	30	300	700	200	N	100	N	2,000	N
CI394C	N	30	100	1,000	200	N	150	N	>2,000	N
CI395C	N	50	N	700	300	N	70	N	1,000	N
CI396C	N	50	20	700	500	N	150	N	>2,000	N
CI397C	N	100	>2,000	500	150	150	500	N	>2,000	500
CI398C	N	30	100	700	200	<100	150	N	1,500	N
CI399C	N	50	50	700	200	150	200	N	>2,000	N
CI400C	N	30	700	<200	300	N	500	N	2,000	N
CI401C	N	30	20	1,000	300	<100	150	N	2,000	N
CI402C	N	20	500	300	200	150	100	N	2,000	N
CI403C	N	20	50	500	200	200	150	N	1,000	N
CI405C	N	30	30	500	300	<100	100	N	>2,000	N
CI406C	N	30	N	1,000	300	N	150	N	2,000	N
CI407C	N	30	N	1,000	300	N	100	N	>2,000	N
CI408C	N	30	N	1,500	300	N	100	N	>2,000	N

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI409C	65 17 48	145 1 42	5.0	1.50	7.00	>2.0	700	N	N	N	2,000	3,000
CI410C	65 10 41	144 59 28	5.0	2.00	5.00	>2.0	1,000	N	N	N	>5,000	1,500
CI411C	65 10 33	144 58 49	5.0	1.50	5.00	>2.0	1,500	N	N	N	>5,000	1,000
CI412C	65 11 38	144 57 59	3.0	1.00	5.00	>2.0	1,000	N	N	N	1,000	1,500
CI413C	65 13 19	144 57 39	7.0	1.00	1.00	1.5	1,500	7.0	N	N	500	3,000
CI414C	65 15 14	144 58 56	3.0	1.50	7.00	>2.0	1,000	3.0	N	N	5,000	2,000
CI415C	65 15 32	144 57 9	5.0	1.00	7.00	>2.0	1,500	<1.0	N	N	300	7,000
CI416C	65 14 49	144 56 50	5.0	1.50	5.00	1.5	1,500	50.0	N	N	200	2,000
CI417C	65 14 36	144 57 43	5.0	2.00	7.00	2.0	1,000	N	N	N	2,000	3,000
CI418C	65 14 15	144 52 55	5.0	1.00	3.00	2.0	1,000	N	N	50	1,000	2,000
CI419C	65 12 41	144 52 17	5.0	2.00	7.00	2.0	1,000	N	N	N	700	1,000
CI420C	65 13 19	144 48 3	5.0	2.00	10.00	>2.0	1,000	N	N	N	500	2,000
CI421C	65 14 12	144 39 20	5.0	3.00	7.00	>2.0	1,000	N	N	N	2,000	5,000
CI422C	65 11 59	144 34 40	5.0	2.00	10.00	2.0	1,000	N	N	N	5,000	1,500
CI423C	65 13 41	144 31 56	3.0	7.00	15.00	>2.0	1,000	N	N	N	3,000	500
CI424C	65 21 58	144 17 11	5.0	1.00	2.00	2.0	1,000	N	N	N	>5,000	1,500
CI425C	65 20 43	144 19 16	5.0	1.00	3.00	2.0	1,000	N	N	N	2,000	1,500
CI426C	65 19 39	144 23 13	3.0	.70	7.00	>2.0	700	N	N	N	1,500	1,500
CI427C	65 21 23	144 28 9	10.0	.70	.50	>2.0	1,000	N	N	N	3,000	2,000
CI428C	65 19 31	144 30 54	5.0	.70	2.00	2.0	1,000	N	N	N	2,000	1,500
CI429C	65 20 11	144 33 59	7.0	.70	3.00	>2.0	1,000	N	N	N	1,500	1,500
CI430C	65 22 40	144 31 58	5.0	1.00	1.00	1.5	1,000	N	N	N	1,000	2,000
CI431C	65 20 43	144 36 50	7.0	.70	.70	1.5	1,000	N	N	N	700	2,000
CI432C	65 12 42	146 57 12	5.0	1.50	7.00	>2.0	700	N	N	N	>5,000	700
CI433C	65 12 25	146 54 44	3.0	1.50	3.00	2.0	1,000	N	N	N	3,000	1,000
CI434C	65 15 36	146 50 8	5.0	1.00	7.00	2.0	1,000	N	N	N	150	500
CI435C	65 14 4	146 39 8	7.0	.70	1.00	>2.0	1,500	N	N	N	500	2,000
CI436C	65 16 1	146 41 56	15.0	1.00	1.00	>2.0	1,000	N	N	N	1,000	1,500
CI437C	65 17 41	146 38 41	3.0	1.00	2.00	>2.0	1,000	N	N	N	300	1,500
CI438C	65 17 40	146 37 37	5.0	1.00	5.00	2.0	1,000	N	N	N	200	500
CI439C	65 14 50	146 33 38	5.0	1.00	.20	2.0	1,500	N	N	N	500	2,000
CI440C	65 16 40	146 33 19	10.0	1.00	2.00	>2.0	2,000	<1.0	N	N	500	2,000
CI441C	65 17 51	146 57 22	3.0	.50	.20	>2.0	200	1.5	N	N	3,000	1,500
CI442C	65 18 34	146 58 9	5.0	.30	.15	>2.0	500	<1.0	N	N	500	1,000
CI443C	65 18 26	146 57 49	5.0	.30	.50	>2.0	700	1.0	N	N	700	1,000
CI444C	65 19 59	146 59 29	5.0	.30	.15	>2.0	1,000	<1.0	N	N	500	1,000
CI445C	65 20 18	146 58 31	7.0	.70	.20	>2.0	1,500	<1.0	N	N	500	1,500
CI446C	65 22 12	146 33 56	7.0	1.50	.10	>2.0	700	<1.0	N	N	700	3,000
CI447C	65 22 53	146 34 18	5.0	1.50	1.50	2.0	1,000	<1.0	N	N	1,000	1,500
CI448C	65 23 29	146 43 6	5.0	.50	.30	>2.0	700	<1.0	N	N	700	1,500
CI449C	65 23 39	146 44 49	5.0	1.00	.50	2.0	1,000	N	N	N	500	1,000
CI450C	65 25 25	146 45 15	5.0	.50	.70	>2.0	700	<1.0	N	N	500	1,000
CI451C	65 25 25	146 44 26	5.0	1.00	.20	>2.0	700	N	N	N	1,000	1,500
CI452C	65 25 3	146 48 21	5.0	.50	.20	1.5	1,000	N	N	N	500	1,000
CI453C	65 24 40	146 48 34	5.0	.70	.50	>2.0	1,000	<1.0	N	N	300	1,500

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI409C	3	N	N	30	300	15	200	N	150	20	200
CI410C	5	N	N	20	300	15	200	N	100	30	70
CI411C	7	N	N	20	500	20	200	N	100	20	70
CI412C	3	N	N	15	300	10	100	N	150	20	70
CI413C	3	N	N	30	500	30	200	N	50	30	100
CI414C	2	N	N	15	500	<10	200	N	150	<10	100
CI415C	5	N	N	20	300	20	150	N	150	30	70
CI416C	3	N	N	15	200	20	200	N	70	10	50
CI417C	7	N	N	20	300	15	200	N	100	20	70
CI418C	2	N	N	30	150	20	500	N	70	30	100
CI419C	<2	N	N	15	300	10	150	N	100	50	50
CI420C	<2	N	N	15	300	15	150	N	100	30	70
CI421C	<2	N	N	20	500	10	100	N	100	70	30
CI422C	7	N	N	15	200	10	300	N	100	10	20
CI423C	5	N	N	15	200	<10	100	N	150	30	20
CI424C	5	N	N	15	200	15	300	N	100	10	70
CI425C	2	N	N	15	200	10	200	N	150	15	70
CI426C	5	N	N	15	150	20	200	N	150	<10	50
CI427C	3	N	N	10	300	30	100	N	150	<10	100
CI428C	5	N	N	15	300	20	150	N	100	10	100
CI429C	3	N	N	50	300	20	200	N	100	15	100
CI430C	5	N	N	15	200	15	150	N	50	20	100
CI431C	5	N	N	20	200	50	100	N	50	20	100
CI432C	2	N	N	15	300	10	150	N	150	20	150
CI433C	5	N	N	15	200	10	150	N	100	20	150
CI434C	<2	N	N	20	300	15	50	N	50	30	70
CI435C	3	N	N	50	300	50	700	N	100	50	100
CI436C	3	N	N	30	200	70	700	N	100	50	100
CI437C	2	N	N	20	200	20	70	N	70	30	70
CI438C	<2	N	N	20	200	20	100	N	50	30	50
CI439C	7	N	N	30	300	20	300	N	50	70	100
CI440C	5	N	N	50	500	30	700	N	70	100	150
CI441C	3	N	N	15	500	<10	150	N	150	20	300
CI442C	5	N	N	20	200	10	100	N	150	50	150
CI443C	5	N	N	20	200	10	150	N	70	30	150
CI444C	5	N	N	70	200	15	150	N	100	50	150
CI445C	5	N	N	70	300	20	150	N	70	70	150
CI446C	5	N	N	50	300	50	200	N	70	70	100
CI447C	5	N	N	20	200	30	150	N	70	50	100
CI448C	5	N	N	50	200	20	200	N	100	30	150
CI449C	10	N	N	20	200	15	150	N	50	30	50
CI450C	3	N	N	30	300	10	200	N	100	30	70
CI451C	3	30	N	20	300	15	200	N	70	20	70
CI452C	3	N	N	20	150	15	100	N	50	30	50
CI453C	2	N	N	20	300	15	500	N	70	50	70

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI409C	N	30	70	1,000	200	<100	200	N	>2,000	<200
CI410C	N	30	N	1,000	150	N	100	N	2,000	N
CI411C	N	30	50	700	200	200	150	500	>2,000	N
CI412C	N	20	N	1,000	200	100	100	<500	2,000	N
CI413C	N	50	N	300	300	N	100	N	>2,000	N
CI414C	N	30	N	1,000	200	<100	150	N	>2,000	N
CI415C	N	50	N	1,000	200	N	150	N	1,500	N
CI416C	N	30	N	700	200	N	100	N	>2,000	N
CI417C	N	30	N	1,000	200	N	100	N	2,000	N
CI418C	N	50	N	700	150	N	300	N	>2,000	<200
CI419C	N	50	N	1,000	300	N	70	N	2,000	N
CI420C	N	50	20	1,500	300	N	70	N	2,000	N
CI421C	N	50	N	700	300	<100	100	N	2,000	N
CI422C	N	20	70	500	200	300	150	N	2,000	<200
CI423C	N	15	70	1,000	300	100	100	N	700	N
CI424C	N	30	70	300	200	<100	150	N	>2,000	N
CI425C	N	30	20	500	300	<100	150	N	>2,000	N
CI426C	N	20	50	300	200	100	150	N	>2,000	N
CI427C	N	30	N	500	300	N	70	N	2,000	N
CI428C	N	30	N	500	200	<100	100	N	2,000	N
CI429C	N	50	150	300	300	<100	150	N	>2,000	N
CI430C	N	30	70	300	200	100	100	N	1,000	N
CI431C	N	30	N	1,000	200	N	70	N	700	N
CI432C	N	30	N	1,000	300	N	70	N	2,000	N
CI433C	N	20	N	500	200	N	50	N	700	N
CI434C	N	30	N	500	500	N	50	N	500	N
CI435C	N	30	N	500	200	N	150	N	2,000	N
CI436C	N	20	N	500	200	N	100	N	2,000	N
CI437C	N	30	N	300	300	N	50	N	500	N
CI438C	N	30	N	300	500	N	50	N	700	N
CI439C	N	50	N	300	500	N	100	N	1,000	N
CI440C	N	50	N	700	500	N	150	N	1,000	<200
CI441C	N	50	N	500	500	N	100	N	>2,000	N
CI442C	N	30	N	500	300	N	70	N	700	N
CI443C	N	50	N	500	300	N	100	N	1,000	N
CI444C	N	30	N	300	200	N	100	N	1,500	N
CI445C	N	50	50	300	200	N	100	N	700	N
CI446C	N	50	N	300	200	N	100	N	1,000	N
CI447C	N	30	700	200	200	N	100	N	500	N
CI448C	N	50	100	500	200	N	150	N	1,000	N
CI449C	N	30	300	300	150	N	50	N	500	N
CI450C	N	30	500	500	300	N	150	N	1,000	N
CI451C	N	50	1,000	200	200	N	150	N	>2,000	N
CI452C	N	20	700	200	150	N	70	N	500	N
CI453C	N	30	500	200	200	N	150	N	1,000	<200

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI454C	65 7 18	145 46 5	5.0	.70	2.00	>2.0	700	N	N	N	5,000	700
CI455C	65 9 41	145 45 53	5.0	.70	7.00	>2.0	1,000	<1.0	N	N	2,000	>10,000
CI456C	65 9 58	145 45 49	3.0	.50	7.00	>2.0	700	N	N	N	2,000	>10,000
CI457C	65 24 12	146 58 31	2.0	.20	.50	>2.0	300	N	N	N	300	1,500
CI458C	65 24 21	146 55 41	3.0	.50	.30	>2.0	300	N	N	N	500	700
CI459C	65 24 54	146 52 2	3.0	.50	.20	>2.0	1,000	<1.0	N	N	500	1,000
CI460C	65 27 8	146 54 58	5.0	1.00	5.00	>2.0	2,000	N	N	N	500	1,500
CI461C	65 28 21	146 53 24	7.0	1.00	1.00	>2.0	500	N	N	N	700	1,500
CI462C	65 28 46	146 48 20	5.0	.50	5.00	>2.0	700	N	N	N	500	1,500
CI463C	65 27 52	146 38 35	3.0	.20	2.00	1.5	500	N	N	N	500	1,000
CI464C	65 29 8	146 34 8	5.0	1.00	2.00	>2.0	1,000	<1.0	N	N	500	1,500
CI465C	65 27 44	146 34 53	1.5	.15	5.00	5.0	700	N	N	N	500	1,500
CI466C	65 28 54	146 33 43	3.0	.70	1.00	>2.0	700	N	N	N	500	1,500
CI467C	65 29 16	146 43 6	3.0	.70	2.00	>2.0	700	N	N	N	700	1,500
CI468C	65 29 45	146 45 55	3.0	.50	3.00	>2.0	500	N	N	N	500	1,500
CI469C	65 31 2	146 43 47	5.0	1.50	5.00	>2.0	1,000	N	N	N	1,000	1,500
CI470C	65 39 30	146 50 34	5.0	5.00	7.00	2.0	1,000	N	N	N	700	1,500
CI471C	65 40 46	146 53 28	7.0	2.00	1.00	>2.0	1,000	N	N	N	500	10,000
CI472C	65 42 21	146 53 4	5.0	2.00	3.00	1.5	1,000	N	N	N	500	10,000
CI473C	65 42 19	146 50 15	7.0	5.00	7.00	2.0	1,000	N	N	N	300	>10,000
CI474C	65 40 18	146 43 15	5.0	2.00	5.00	2.0	1,000	<1.0	N	N	500	3,000
CI475C	65 40 24	146 42 45	7.0	2.00	2.00	2.0	1,000	N	N	N	700	3,000
CI476C	65 42 6	146 43 26	7.0	2.00	3.00	2.0	1,000	N	N	N	500	>10,000
CI477C	65 41 35	146 43 49	7.0	2.00	1.00	2.0	1,000	N	N	N	500	5,000
CI478C	65 42 46	146 49 12	7.0	2.00	2.00	2.0	1,500	<1.0	N	N	500	>10,000
CI479C	65 39 13	146 52 57	7.0	1.00	.20	>2.0	700	N	N	N	700	>10,000
CI480C	65 37 57	146 51 42	10.0	1.50	2.00	>2.0	1,500	1.0	N	N	1,000	3,000
CI481C	65 37 43	146 51 7	1.5	.10	3.00	1.0	300	N	N	N	300	300
CI482C	65 42 49	146 53 40	5.0	1.00	1.50	2.0	1,000	<1.0	N	N	500	>10,000
CI483C	65 44 36	146 57 17	3.0	.30	15.00	>2.0	2,000	N	N	N	500	>10,000
CI484C	65 44 32	146 53 27	3.0	.70	15.00	>2.0	3,000	N	N	N	2,000	5,000
CI486C	65 43 24	146 57 2	5.0	1.50	3.00	1.0	2,000	2.0	N	N	500	>10,000
CI487C	65 32 33	146 42 13	5.0	1.00	2.00	>2.0	1,000	N	N	N	500	2,000
CI488C	65 31 40	146 44 58	15.0	1.00	.20	>2.0	1,500	N	N	N	500	3,000
CI489C	65 34 3	146 45 36	3.0	.30	.30	1.0	700	N	N	N	500	500
CI490C	65 33 46	146 46 30	2.0	.20	.20	1.5	700	N	N	N	700	500
CI491C	65 16 34	145 49 52	3.0	1.00	5.00	>2.0	500	N	N	N	700	2,000
CI492C	65 16 47	145 46 22	5.0	2.00	1.00	2.0	700	N	N	N	300	5,000
CI493C	65 16 52	145 43 31	7.0	1.00	5.00	>2.0	1,000	N	<500	N	700	3,000
CI494C	65 16 30	145 39 16	7.0	1.50	5.00	>2.0	1,000	N	N	N	700	3,000
CI495C	65 16 10	145 32 50	5.0	1.00	2.00	>2.0	500	N	N	N	500	3,000
CI496C	65 15 27	145 24 26	3.0	.50	5.00	>2.0	500	N	N	N	500	>10,000
CI497C	65 18 45	145 2 11	7.0	1.50	3.00	>2.0	1,000	N	N	N	300	3,000
CI498C	65 18 10	144 58 11	5.0	1.50	1.50	>2.0	700	N	N	N	500	10,000
CI499C	65 17 7	144 50 7	5.0	1.00	7.00	>2.0	700	N	N	N	2,000	2,000

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI454C	5	N	N	15	200	20	300	N	70	15	70
CI455C	5	N	N	20	300	200	500	N	100	30	50
CI456C	3	N	N	10	300	10	700	N	150	20	30
CI457C	3	N	N	10	100	150	1,000	N	70	<10	70
CI458C	5	N	N	30	200	<10	500	N	100	10	150
CI459C	3	N	N	50	200	10	300	N	100	20	150
CI460C	3	N	N	50	300	20	200	N	100	50	100
CI461C	3	N	N	30	700	70	2,000	N	100	50	100
CI462C	5	N	N	20	300	15	300	N	100	20	150
CI463C	3	150	N	15	300	10	>2,000	N	150	<10	70
CI464C	2	N	N	20	300	50	300	N	100	30	200
CI465C	30	N	N	<10	100	<10	<50	N	100	<10	<20
CI466C	5	N	N	30	200	50	200	N	100	20	150
CI467C	3	<20	N	20	500	15	1,500	N	100	15	100
CI468C	2	<20	N	20	500	15	700	N	100	15	100
CI469C	5	N	N	30	500	20	1,000	N	100	30	150
CI470C	2	N	N	50	1,500	50	700	N	100	70	200
CI471C	3	N	N	70	700	200	700	N	100	50	100
CI472C	10	30	N	30	700	100	700	N	70	50	100
CI473C	3	N	N	70	1,000	700	500	N	70	100	50
CI474C	30	N	N	50	700	30	>2,000	30	100	20	300
CI475C	5	N	N	50	500	200	700	N	70	70	150
CI476C	3	N	N	50	500	50	500	N	70	50	70
CI477C	10	N	N	50	500	30	500	N	70	70	100
CI478C	3	N	N	70	700	50	700	N	70	100	100
CI479C	5	N	N	50	500	30	300	N	100	50	100
CI480C	3	N	N	70	700	150	300	N	70	70	500
CI481C	10	300	N	10	100	20	>2,000	150	50	<10	500
CI482C	3	N	150	50	500	100	500	N	50	100	100
CI483C	<2	200	N	10	300	<10	2,000	N	500	<10	50
CI484C	<2	700	N	50	700	10	2,000	N	700	30	70
CI486C	3	N	N	50	500	70	500	N	50	150	50
CI487C	3	30	N	20	300	10	500	N	150	20	150
CI488C	5	N	N	70	700	70	500	N	100	70	100
CI489C	20	N	N	10	200	20	>2,000	N	70	<10	300
CI490C	10	70	N	10	200	15	2,000	N	70	10	20
CI491C	2	N	N	30	200	10	500	N	50	15	300
CI492C	3	N	N	70	300	70	150	N	50	20	70
CI493C	2	N	N	200	300	50	200	N	100	30	500
CI494C	<2	N	N	50	300	50	500	N	50	50	150
CI495C	3	N	N	20	300	10	300	N	100	<10	70
CI496C	2	N	N	20	500	100	2,000	N	100	20	150
CI497C	2	N	N	50	300	150	300	N	50	20	100
CI498C	<2	N	N	15	500	10	300	N	100	<10	70
CI499C	<2	N	N	10	200	15	200	N	70	<10	150

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI454C	N	30	N	300	150	<100	100	N	>2,000	N
CI455C	N	30	N	1,000	200	N	150	N	2,000	N
CI456C	N	15	N	1,500	200	N	150	N	1,000	N
CI457C	N	30	1,500	200	150	<100	200	N	>2,000	200
CI458C	N	50	150	200	300	N	200	N	>2,000	<200
CI459C	N	30	300	200	200	N	200	N	2,000	<200
CI460C	N	50	N	1,000	300	N	150	N	2,000	N
CI461C	N	30	1,000	700	200	N	500	N	>2,000	<200
CI462C	N	50	1,500	700	500	150	200	N	2,000	<200
CI463C	N	20	N	<200	150	200	500	N	>2,000	1,500
CI464C	N	30	1,000	300	200	N	150	N	1,500	<200
CI465C	N	<10	5,000	<200	100	N	100	N	>2,000	N
CI466C	N	50	1,000	300	200	N	200	N	2,000	N
CI467C	N	30	N	500	200	<100	200	N	>2,000	300
CI468C	N	30	500	700	200	<100	200	N	>2,000	200
CI469C	N	50	2,000	500	200	100	150	N	>2,000	<200
CI470C	N	100	500	700	300	N	200	N	2,000	<200
CI471C	N	50	<20	300	300	N	150	N	2,000	<200
CI472C	N	50	1,000	300	200	N	300	N	>2,000	1,000
CI473C	N	70	N	500	300	N	150	N	1,000	N
CI474C	N	30	>2,000	200	200	N	700	N	>2,000	3,000
CI475C	N	50	20	500	200	N	150	N	>2,000	N
CI476C	N	50	N	200	300	N	150	N	>2,000	N
CI477C	N	50	70	300	300	N	150	N	1,000	200
CI478C	N	50	N	300	300	N	150	N	1,000	N
CI479C	N	50	150	200	300	N	100	N	2,000	N
CI480C	N	50	300	300	300	100	150	N	2,000	<200
CI481C	N	20	>2,000	<200	50	N	2,000	N	>2,000	3,000
CI482C	N	30	1,000	1,000	300	N	150	5,000	1,500	N
CI483C	N	20	700	N	200	N	1,000	N	>2,000	N
CI484C	N	20	300	<200	300	100	700	N	>2,000	N
CI486C	N	20	N	1,000	200	N	100	1,500	1,000	N
CI487C	N	30	200	500	200	200	200	N	>2,000	200
CI488C	N	50	N	200	300	N	200	N	>2,000	N
CI489C	N	15	>2,000	N	70	100	700	N	>2,000	500
CI490C	N	15	>2,000	N	100	100	200	N	>2,000	500
CI491C	N	70	100	500	100	N	500	N	>2,000	200
CI492C	N	50	N	300	200	N	150	N	>2,000	N
CI493C	N	50	N	700	200	N	200	N	>2,000	N
CI494C	N	70	N	500	150	N	500	N	>2,000	200
CI495C	N	50	N	500	200	N	200	N	>2,000	N
CI496C	N	100	N	1,000	150	N	1,000	N	>2,000	300
CI497C	N	50	N	500	150	N	200	N	>2,000	N
CI498C	N	50	20	300	200	N	500	N	>2,000	N
CI499C	N	70	N	500	150	N	300	N	>2,000	N

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI500C	65 19 12	144 52 32	5.0	1.00	5.00	>2.0	1,000	N	N	N	700	3,000
CI501C	65 20 9	144 48 12	5.0	1.00	3.00	>2.0	700	N	<500	N	700	2,000
CI502C	65 36 25	146 59 12	7.0	1.50	2.00	2.0	1,000	N	N	N	500	5,000
CI503C	65 39 19	146 59 4	10.0	1.00	.20	2.0	500	N	N	N	500	7,000
CI504C	65 41 31	146 57 44	5.0	1.50	5.00	2.0	2,000	N	N	N	300	>10,000
CI505C	65 42 53	146 36 1	7.0	.30	2.00	2.0	700	<1.0	N	N	300	>10,000
CI506C	65 42 43	146 35 11	5.0	.70	10.00	2.0	1,500	N	N	N	1,000	>10,000
CI507C	65 42 30	146 35 55	7.0	2.00	.50	2.0	1,000	N	N	N	700	5,000
CI508C	65 39 58	146 33 28	10.0	1.00	.20	2.0	2,000	N	N	N	700	10,000
CI509C	65 40 4	146 34 38	3.0	1.00	3.00	>2.0	1,000	N	N	N	300	1,000
CI510C	65 37 45	146 40 22	3.0	1.00	10.00	.5	700	N	N	N	150	300
CI511C	65 37 35	146 39 52	10.0	2.00	1.00	2.0	1,000	N	N	N	500	2,000
CI512C	65 48 45	146 58 8	7.0	1.00	7.00	>2.0	1,000	N	N	N	700	2,000
CI514C	65 50 36	146 51 21	7.0	.70	10.00	>2.0	1,500	N	N	N	500	>10,000
CI515C	65 49 50	146 46 23	5.0	1.00	7.00	>2.0	1,000	N	<500	N	500	>10,000
CI516C	65 47 44	146 42 56	10.0	1.50	2.00	2.0	700	10.0	N	N	>5,000	>10,000
CI517C	65 23 50	144 21 3	5.0	1.50	2.00	>2.0	1,000	N	N	N	>5,000	2,000
CI518C	65 19 34	144 11 38	5.0	.70	5.00	1.5	1,000	N	N	N	1,000	2,000
CI519C	65 18 46	144 15 15	2.0	.50	10.00	>2.0	700	N	N	N	700	700
CI520C	65 19 7	145 54 15	5.0	.50	2.00	>2.0	1,000	N	1,000	N	500	10,000
CI521C	65 20 59	145 57 25	7.0	.70	1.00	>2.0	1,000	N	N	N	700	1,500
CI522C	65 21 18	145 56 41	3.0	.70	3.00	>2.0	700	N	N	N	1,000	1,500
CI523C	65 20 14	146 3 56	5.0	.70	1.00	>2.0	1,000	N	N	N	1,500	1,500
CI524C	65 19 46	146 4 19	3.0	.70	5.00	>2.0	1,000	N	N	N	3,000	1,500
CI525C	65 19 9	146 2 21	5.0	.50	1.50	>2.0	700	N	N	N	700	3,000
CI526C	65 19 6	146 0 28	5.0	.70	1.00	>2.0	1,500	N	N	N	700	2,000
CI527C	65 16 53	146 12 18	7.0	1.00	1.50	>2.0	1,000	N	N	N	1,000	3,000
CI528C	65 17 12	146 12 19	5.0	1.00	1.50	>2.0	700	N	N	N	2,000	2,000
CI529C	65 16 24	146 14 24	5.0	1.00	2.00	>2.0	700	N	N	N	700	2,000
CI530C	65 16 48	146 19 28	5.0	1.00	.50	>2.0	1,500	N	N	N	500	3,000
CI531C	65 16 30	146 19 37	3.0	.15	.15	2.0	1,000	N	N	N	200	500
CI532C	65 17 27	146 20 9	7.0	1.00	2.00	>2.0	1,500	N	N	N	500	2,000
CI533C	65 18 59	146 16 23	3.0	.70	5.00	>2.0	700	N	N	N	700	700
CI534C	65 20 49	146 11 53	3.0	.70	5.00	2.0	500	N	N	N	500	500
CI535C	65 20 44	146 8 31	3.0	1.00	7.00	>2.0	700	N	N	N	700	700
CI536C	65 17 29	146 25 52	5.0	.70	7.00	>2.0	1,000	N	N	N	500	1,000
CI537C	65 22 34	145 18 16	5.0	.70	10.00	>2.0	500	N	N	N	700	1,500
CI538C	65 21 40	145 14 11	5.0	1.00	5.00	>2.0	700	N	N	N	700	1,500
CI539C	65 7 38	145 30 56	20.0	.10	2.00	>2.0	100	N	5,000	N	200	2,000
CI540C	65 7 54	145 28 30	5.0	.30	5.00	>2.0	700	N	1,000	N	700	700
CI541C	65 26 20	144 39 30	5.0	1.50	7.00	>2.0	1,500	70.0	N	150	150	700
CI542C	65 40 19	145 3 57	15.0	1.50	2.00	1.0	1,500	N	N	N	200	>10,000
CI543C	65 40 30	145 11 34	20.0	1.00	5.00	2.0	1,500	N	N	N	500	>10,000
CI544C	65 40 13	145 16 37	20.0	1.00	2.00	>2.0	1,500	N	N	N	1,000	10,000
CI545C	65 39 53	145 17 2	5.0	1.50	3.00	>2.0	1,500	N	N	N	500	1,500

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI500C	<2	N	N	15	300	15	500	N	100	<10	100
CI501C	<2	N	N	15	300	20	300	N	70	N	200
CI502C	10	50	N	30	500	100	1,000	N	70	30	300
CI503C	7	N	N	50	500	100	300	N	70	50	150
CI504C	3	50	N	70	500	700	200	N	100	70	30
CI505C	2	N	N	50	300	100	1,000	N	70	100	100
CI506C	7	N	N	20	500	70	500	50	100	15	300
CI507C	7	N	N	50	500	20	200	N	100	50	70
CI508C	7	N	N	50	500	700	1,000	N	70	50	500
CI509C	5	500	N	15	700	200	>2,000	30	150	20	200
CI510C	7	500	N	10	700	30	>2,000	500	70	<10	1,500
CI511C	10	200	N	50	500	100	1,000	50	100	50	300
CI512C	<2	N	N	30	500	50	700	N	500	70	100
CI514C	<2	<20	N	70	500	500	1,000	N	300	70	150
CI515C	<2	N	N	50	500	50	1,000	N	700	30	100
CI516C	2	<20	N	150	500	3,000	1,000	N	150	50	150
CI517C	2	N	N	15	500	30	200	N	100	<10	70
CI518C	7	<20	N	15	500	10	700	N	100	<10	200
CI519C	<2	N	N	10	300	N	1,000	N	200	N	70
CI520C	2	N	N	50	300	70	500	N	100	30	150
CI521C	3	N	N	50	300	50	200	N	150	30	100
CI522C	2	N	N	50	300	30	200	N	100	15	150
CI523C	3	N	N	30	300	20	500	N	100	15	150
CI524C	2	N	N	20	300	100	300	N	150	10	200
CI525C	2	N	N	30	300	30	1,000	N	100	20	100
CI526C	3	N	N	50	300	20	1,000	N	100	20	150
CI527C	2	N	N	50	500	30	500	N	100	30	150
CI528C	3	N	N	30	500	20	300	N	150	20	150
CI529C	2	N	N	70	500	30	700	N	150	20	100
CI530C	3	N	N	50	500	30	300	N	70	30	100
CI531C	2	N	N	20	100	15	100	N	<50	15	20
CI532C	2	N	N	70	500	70	700	N	100	30	100
CI533C	2	N	N	20	300	50	100	N	70	20	70
CI534C	<2	N	N	20	200	30	70	N	50	15	30
CI535C	<2	N	N	20	300	50	150	N	50	10	70
CI536C	2	N	N	30	500	50	300	N	100	15	150
CI537C	2	N	N	30	500	70	150	N	100	20	100
CI538C	3	N	N	20	500	30	150	N	100	20	100
CI539C	<2	N	N	300	200	100	200	N	150	200	500
CI540C	<2	N	N	150	700	20	300	N	150	15	150
CI541C	5	N	N	20	200	50	2,000	N	500	20	50
CI542C	5	N	N	50	150	300	500	N	70	150	100
CI543C	5	N	N	50	150	700	>2,000	N	70	100	150
CI544C	5	N	N	50	200	200	>2,000	N	70	150	150
CI545C	2	N	N	20	150	150	1,500	N	100	20	150

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI500C	N	30	N	500	200	N	200	N	>2,000	N
CI501C	N	50	70	300	150	N	200	N	>2,000	N
CI502C	N	50	>2,000	200	200	<100	200	N	2,000	<200
CI503C	N	50	700	200	300	N	150	N	2,000	N
CI504C	N	30	N	1,500	200	N	100	5,000	2,000	N
CI505C	N	20	N	1,000	200	N	100	1,000	2,000	N
CI506C	N	30	>2,000	300	200	200	200	500	>2,000	<200
CI507C	N	50	200	200	300	150	100	N	2,000	N
CI508C	N	30	>2,000	<200	200	N	150	500	2,000	N
CI509C	N	50	>2,000	<200	100	100	1,500	N	>2,000	5,000
CI510C	N	20	>2,000	<200	150	100	700	N	>2,000	2,000
CI511C	N	30	1,500	<200	200	N	500	1,500	2,000	700
CI512C	N	20	100	200	300	N	200	N	1,000	N
CI514C	N	20	100	1,000	300	100	300	N	2,000	200
CI515C	N	15	150	200	300	300	500	N	>2,000	200
CI516C	N	30	150	200	300	200	150	2,000	>2,000	N
CI517C	N	50	70	300	200	500	500	N	>2,000	N
CI518C	N	50	30	1,000	200	N	150	N	>2,000	200
CI519C	N	70	150	1,000	200	N	300	N	>2,000	300
CI520C	N	30	20	700	200	N	150	N	>2,000	N
CI521C	N	30	N	300	150	N	100	N	>2,000	N
CI522C	N	30	N	700	200	N	150	N	>2,000	N
CI523C	N	50	N	500	150	N	150	N	>2,000	N
CI524C	N	30	N	1,000	150	N	150	N	>2,000	N
CI525C	N	30	<20	300	150	N	150	N	>2,000	<200
CI526C	N	30	70	300	200	N	150	N	>2,000	N
CI527C	N	30	N	500	200	N	150	N	>2,000	N
CI528C	N	50	N	500	150	N	150	N	>2,000	N
CI529C	N	50	N	500	150	N	150	N	>2,000	N
CI530C	N	50	N	300	300	N	100	N	>2,000	N
CI531C	N	15	N	<200	70	N	50	N	1,000	N
CI532C	N	50	N	500	300	N	150	N	>2,000	N
CI533C	N	30	N	500	300	N	70	N	2,000	N
CI534C	N	20	50	300	300	N	50	N	2,000	N
CI535C	N	50	N	500	500	N	100	N	>2,000	N
CI536C	N	50	30	700	300	N	100	N	>2,000	N
CI537C	N	50	70	500	300	N	100	N	>2,000	N
CI538C	N	50	N	500	300	N	150	N	>2,000	<200
CI539C	N	20	1,500	200	150	1,000	200	N	>2,000	<200
CI540C	N	30	1,000	1,500	700	700	100	N	>2,000	N
CI541C	N	30	1,000	200	300	1,000	1,500	N	>2,000	N
CI542C	N	20	20	500	200	100	150	500	1,000	N
CI543C	N	20	150	1,500	300	N	500	1,000	>2,000	N
CI544C	N	30	500	1,500	300	N	500	500	>2,000	300
CI545C	N	50	500	2,000	200	N	500	N	>2,000	N

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI546C	65 41 25	145 19 16	10.0	1.00	5.00	1.5	1,000	1.0	N	N	200	>10,000
CI547C	65 40 1	145 24 58	7.0	1.00	2.00	>2.0	1,500	N	N	N	1,000	1,500
CI548C	65 43 57	145 20 2	7.0	5.00	10.00	1.5	1,500	N	N	N	50	>10,000
CI549C	65 42 29	145 23 35	7.0	1.00	1.00	>2.0	1,500	N	N	N	500	7,000
CI550C	65 45 47	145 23 31	7.0	1.50	5.00	2.0	1,500	N	N	N	70	5,000
CI551C	65 48 29	145 22 53	7.0	1.50	5.00	>2.0	1,500	N	N	N	200	1,500
CI552C	65 49 6	144 18 24	7.0	1.50	7.00	2.0	1,500	N	N	N	1,500	>10,000
CI553C	65 49 36	144 33 32	7.0	2.00	10.00	2.0	1,500	N	N	N	1,000	>10,000
CI554C	65 45 22	145 36 53	7.0	1.50	2.00	>2.0	1,500	N	N	N	500	1,500
CI555C	65 41 22	145 36 59	7.0	1.50	2.00	>2.0	1,500	N	N	N	500	1,500
CI556C	65 36 14	145 42 1	7.0	1.50	2.00	>2.0	1,500	N	N	N	200	1,500
CI557C	65 34 46	145 43 28	7.0	1.00	1.50	>2.0	1,500	N	N	N	500	1,500
CI558C	65 33 48	145 42 57	7.0	1.50	2.00	>2.0	1,500	20.0	N	300	700	1,000
CI559C	65 33 13	145 44 11	5.0	1.50	2.00	>2.0	1,500	N	N	N	500	1,000
CI560C	65 31 45	145 43 15	15.0	2.00	1.00	2.0	2,000	N	N	N	1,000	1,000
CI561C	65 31 56	145 42 16	7.0	1.50	3.00	>2.0	1,500	N	N	N	1,000	1,000
CI562C	65 32 20	145 43 40	7.0	1.50	2.00	>2.0	1,500	N	N	N	1,000	1,000
CI563C	65 38 30	145 40 15	7.0	1.00	2.00	>2.0	1,500	N	N	N	500	1,000
CI564C	65 37 25	145 47 0	7.0	1.50	2.00	>2.0	1,500	N	N	N	500	1,500
CI565C	65 41 20	145 40 43	7.0	1.50	1.00	>2.0	1,500	N	N	N	500	1,500
CI566C	65 36 25	144 42 41	7.0	1.50	5.00	>2.0	1,500	N	N	N	500	10,000
CI567C	65 37 36	144 46 18	7.0	2.00	7.00	>2.0	1,500	N	N	N	500	10,000
CI568C	65 37 45	144 48 36	7.0	1.50	7.00	>2.0	1,500	N	N	N	100	5,000
CI569C	65 38 49	144 54 37	15.0	1.00	5.00	>2.0	1,500	N	N	N	300	>10,000
CI570C	65 40 14	144 57 55	15.0	1.50	5.00	>2.0	1,500	N	N	N	300	10,000
CI571C	65 40 24	144 58 59	10.0	1.50	2.00	>2.0	1,500	N	N	N	1,500	>10,000
CI573C	65 36 39	144 58 27	5.0	1.00	1.00	>2.0	1,500	N	N	N	1,000	1,000
CI574C	65 36 27	145 6 2	5.0	1.00	.50	>2.0	1,000	N	N	N	500	700
CI575C	65 36 50	145 6 22	5.0	1.00	.50	>2.0	1,000	N	N	N	150	500
CI576C	65 46 55	144 23 13	7.0	7.00	15.00	>2.0	2,000	N	N	N	150	5,000
CI577C	65 47 22	144 25 32	7.0	5.00	7.00	>2.0	1,500	N	N	N	500	10,000
CI578C	65 47 8	144 26 22	7.0	5.00	10.00	2.0	1,500	N	N	N	100	5,000
CI579C	65 44 52	144 36 58	7.0	5.00	10.00	2.0	1,500	N	N	N	100	>10,000
CI580C	65 45 0	144 37 38	7.0	5.00	7.00	1.5	1,500	N	N	N	150	>10,000
CI581C	65 43 28	144 42 43	7.0	5.00	10.00	2.0	1,500	N	N	N	200	>10,000
CI582C	65 43 1	144 42 29	10.0	1.50	5.00	2.0	1,000	N	N	N	300	5,000
CI583C	65 42 56	144 49 31	7.0	7.00	10.00	>2.0	1,500	N	N	N	500	10,000
CI584C	65 42 42	144 48 57	7.0	2.00	5.00	>2.0	1,500	N	N	N	300	>10,000
CI585C	65 46 33	144 32 52	7.0	5.00	10.00	2.0	1,500	N	N	N	500	10,000
CI586C	65 21 1	144 41 54	7.0	1.50	2.00	>2.0	2,000	N	N	N	500	10,000
CI587C	65 21 37	144 40 20	5.0	.70	2.00	1.0	300	N	N	N	100	150
CI588C	65 18 28	144 47 29	7.0	1.50	2.00	>2.0	1,500	N	N	N	200	1,000
CI589C	65 20 10	144 45 45	7.0	1.50	2.00	>2.0	1,500	N	N	N	200	1,000
CI590C	65 39 51	144 36 45	7.0	1.50	5.00	2.0	1,500	N	N	N	100	10,000
CI591C	65 27 55	145 47 26	2.0	.70	5.00	>2.0	1,500	N	N	N	1,500	500

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI546C	5	N	N	30	200	150	2,000	N	N	150	150
CI547C	N	N	N	20	150	150	1,000	N	200	20	70
CI548C	5	N	N	50	500	150	N	N	N	100	30
CI549C	5	N	N	20	150	150	300	N	200	20	70
CI550C	5	N	N	20	500	100	50	N	70	50	30
CI551C	5	N	N	20	200	100	1,000	N	100	50	70
CI552C	5	N	N	20	200	20	1,000	N	200	20	30
CI553C	5	N	N	20	500	20	2,000	N	100	50	50
CI554C	5	N	N	30	200	150	700	N	150	20	50
CI555C	5	N	N	30	200	150	700	N	200	20	150
CI556C	5	N	N	30	100	150	100	N	200	20	150
CI557C	5	N	N	30	100	150	100	N	200	20	70
CI558C	5	N	N	30	150	150	1,000	N	100	20	100
CI559C	5	N	N	20	150	150	200	N	150	20	70
CI560C	5	N	N	50	150	150	300	N	50	70	70
CI561C	5	N	N	20	150	150	300	N	100	20	150
CI562C	5	N	N	30	200	150	500	N	150	20	100
CI563C	5	N	N	30	150	150	500	N	200	20	70
CI564C	N	N	N	30	200	150	200	N	200	70	300
CI565C	N	N	N	30	150	300	200	N	300	70	150
CI566C	2	N	N	30	150	150	300	N	150	70	50
CI567C	5	N	100	30	300	300	50	N	50	100	30
CI568C	2	N	N	30	150	70	200	N	100	70	30
CI569C	5	N	N	30	200	2,000	150	N	50	200	70
CI570C	5	N	N	50	700	1,500	700	N	100	200	150
CI571C	2	N	N	70	500	150	2,000	N	300	70	150
CI573C	2	N	N	20	200	150	700	N	500	20	70
CI574C	2	N	N	20	150	150	200	N	1,000	20	200
CI575C	2	N	N	20	150	150	200	N	500	20	100
CI576C	2	N	N	30	1,000	100	500	N	50	150	70
CI577C	2	N	N	30	1,000	100	1,500	N	150	70	70
CI578C	2	N	N	30	700	50	200	N	50	100	50
CI579C	2	N	N	20	500	1,000	700	N	70	70	1,500
CI580C	2	N	N	20	200	150	700	N	50	70	70
CI581C	2	N	100	20	500	100	100	N	70	100	100
CI582C	5	N	N	50	200	150	300	N	70	100	200
CI583C	2	N	N	50	2,000	30	200	N	N	200	<20
CI584C	2	N	50	30	700	100	700	N	100	150	150
CI585C	2	N	N	30	700	50	150	N	50	100	100
CI586C	2	N	N	20	150	100	1,000	N	100	20	100
CI587C	N	N	N	10	50	10	N	N	100	10	N
CI588C	N	N	N	30	150	150	1,000	N	100	20	100
CI589C	N	N	N	30	150	150	1,500	N	70	20	100
CI590C	2	N	N	50	500	150	200	N	100	150	30
CI591C	3	N	N	10	100	70	100	N	50	20	N

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI546C	N	20	N	2,000	300	N	300	1,000	1,500	N
CI547C	N	30	>2,000	200	200	300	300	N	>2,000	N
CI548C	N	30	20	200	500	N	70	500	500	N
CI549C	N	30	700	200	150	N	200	N	>2,000	N
CI550C	N	20	N	1,500	300	N	70	N	2,000	N
CI551C	N	20	700	500	500	<100	200	N	>2,000	N
CI552C	N	20	100	500	300	150	200	N	>2,000	N
CI553C	N	30	30	700	500	100	200	N	>2,000	200
CI554C	N	30	150	500	150	N	150	N	>2,000	N
CI555C	N	30	N	500	200	N	150	N	>2,000	N
CI556C	N	30	N	500	150	N	200	N	>2,000	N
CI557C	N	30	20	500	150	N	150	N	>2,000	N
CI558C	N	30	700	500	200	100	500	N	>2,000	N
CI559C	N	30	N	500	150	N	150	N	>2,000	N
CI560C	N	30	N	200	200	N	150	500	500	N
CI561C	N	30	300	500	200	1,500	200	N	>2,000	N
CI562C	N	30	N	500	200	N	150	N	>2,000	N
CI563C	N	30	N	500	150	100	200	N	>2,000	N
CI564C	N	30	N	700	150	N	150	N	1,500	N
CI565C	300	20	N	700	200	N	150	N	2,000	N
CI566C	N	10	200	1,000	300	N	100	500	2,000	N
CI567C	N	30	N	1,000	500	N	100	7,000	700	N
CI568C	N	20	20	700	500	N	100	2,000	2,000	N
CI569C	N	10	N	1,000	300	N	150	N	2,000	N
CI570C	N	20	N	1,000	500	N	200	5,000	1,500	N
CI571C	N	30	700	2,000	300	N	500	500	>2,000	N
CI573C	N	20	500	500	200	N	200	N	>2,000	N
CI574C	N	30	N	N	200	N	200	N	>2,000	N
CI575C	N	30	700	N	200	N	200	N	>2,000	N
CI576C	N	30	N	1,000	500	N	100	N	1,500	N
CI577C	N	30	N	1,000	500	N	200	N	>2,000	N
CI578C	N	30	N	700	500	N	100	N	1,500	N
CI579C	N	10	N	1,500	200	N	100	N	500	N
CI580C	N	10	N	1,500	200	N	70	1,000	500	N
CI581C	N	20	N	1,500	200	N	70	5,000	500	N
CI582C	N	10	N	500	200	N	100	1,500	1,000	N
CI583C	N	50	20	1,000	300	N	70	N	1,000	N
CI584C	N	20	N	1,500	300	N	100	2,000	1,000	N
CI585C	N	20	N	500	300	N	70	N	500	N
CI586C	N	50	N	200	100	N	500	N	>2,000	N
CI587C	N	20	N	N	200	N	70	N	>2,000	N
CI588C	N	30	N	200	200	N	500	N	>2,000	N
CI589C	N	30	N	500	150	N	500	N	>2,000	N
CI590C	N	30	N	300	500	N	100	N	1,000	N
CI591C	N	20	50	200	200	10,000	100	N	>2,000	N

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI592C	65 28 16	145 46 37	3.0	.50	2.00	>2.0	1,000	N	N	N	1,500	700
CI593C	65 27 37	145 45 3	3.0	.50	5.00	>2.0	1,000	N	N	N	1,000	700
CI594C	65 25 49	145 44 21	3.0	.50	7.00	>2.0	700	N	N	N	1,000	500
CI595C	65 25 45	145 41 49	3.0	.50	.50	>2.0	700	N	N	N	2,000	1,000
CI596C	65 27 28	145 38 49	5.0	.50	1.50	>2.0	2,000	<1.0	N	N	1,000	700
CI597C	65 28 1	145 35 22	7.0	1.50	1.50	>2.0	1,500	2.0	N	N	150	1,500
CI598C	65 24 55	145 24 31	7.0	.70	.70	>2.0	1,000	N	N	N	700	1,500
CI599C	65 24 35	145 24 11	7.0	.50	.30	>2.0	700	N	N	N	1,000	1,000
CI600C	65 24 24	145 27 3	7.0	.70	.30	>2.0	700	N	N	N	1,000	1,000
CI602C	65 42 39	145 46 47	3.0	1.50	3.00	>2.0	1,000	N	N	N	500	700
CI603C	65 40 53	145 53 22	3.0	.20	.50	>2.0	1,000	N	N	N	500	5,000
CI604C	65 38 35	145 57 1	3.0	.30	.30	>2.0	1,500	N	N	N	500	1,000
CI605C	65 34 46	145 52 52	5.0	.50	.50	>2.0	1,500	15.0	N	N	500	1,000
CI606C	65 34 35	145 54 56	3.0	.30	.70	>2.0	1,000	N	N	N	1,000	1,000
CI607C	65 34 51	145 58 44	7.0	.50	1.50	>2.0	1,500	N	N	N	500	1,000
CI608C	65 33 20	146 0 5	5.0	.30	1.00	>2.0	1,000	N	N	N	700	1,000
CI609C	65 34 8	146 7 2	5.0	.20	.20	>2.0	1,000	N	N	N	500	1,000
CI610C	65 35 7	146 0 18	5.0	.20	.30	>2.0	1,500	N	N	N	500	1,500
CI611C	65 37 45	145 58 44	7.0	.30	.50	>2.0	1,000	N	N	N	1,500	5,000
CI612C	65 37 13	146 9 12	3.0	.50	.50	>2.0	1,000	N	N	N	700	2,000
CI613C	65 36 53	146 9 7	5.0	.30	.20	>2.0	1,000	N	N	N	700	1,000
CI614C	65 36 7	146 11 14	5.0	.50	.30	>2.0	1,000	N	N	N	700	1,500
CI615C	65 38 14	146 4 42	5.0	.70	2.00	>2.0	1,000	<1.0	N	N	500	2,000
CI616C	65 39 7	145 57 27	5.0	.70	1.50	>2.0	1,500	N	N	N	500	1,500
CI617C	65 42 28	146 4 36	3.0	.50	1.00	>2.0	500	N	N	N	500	>10,000
CI618C	65 42 6	146 4 30	7.0	.50	1.50	>2.0	1,500	N	N	N	700	3,000
CI620C	65 42 53	145 57 19	5.0	1.00	2.00	>2.0	2,000	N	N	N	500	10,000
CI621C	65 53 53	145 10 4	5.0	2.00	10.00	>2.0	1,500	<1.0	N	N	700	2,000
CI622C	65 49 41	145 12 54	5.0	2.00	10.00	>2.0	2,000	<1.0	N	N	150	5,000
CI624C	65 48 37	145 7 5	7.0	5.00	10.00	2.0	2,000	1.0	N	N	100	500
CI625C	65 48 30	145 3 25	5.0	5.00	10.00	2.0	2,000	<1.0	N	N	100	500
CI627C	65 49 11	145 53 30	5.0	1.00	5.00	>2.0	1,000	<1.0	N	N	200	>10,000
CI628C	65 48 52	145 54 45	3.0	1.50	7.00	>2.0	1,500	N	N	N	1,000	>10,000
CI629C	65 46 25	145 51 51	7.0	1.00	3.00	2.0	3,000	<1.0	N	N	300	700
CI630C	65 47 18	146 0 51	3.0	1.00	5.00	2.0	1,500	N	N	N	200	3,000
CI632C	65 36 7	146 32 46	5.0	.70	1.00	>2.0	700	N	N	N	700	1,500
CI633C	65 35 53	146 32 11	5.0	.70	2.00	>2.0	500	N	N	N	1,500	1,000
CI634C	65 36 50	146 32 29	7.0	.70	.30	2.0	1,500	N	N	N	500	1,500
CI635C	65 37 22	146 29 37	7.0	1.00	.70	>2.0	700	N	N	N	700	3,000
CI636C	65 39 23	146 24 40	5.0	.70	.50	>2.0	700	N	N	N	500	1,500
CI637C	65 37 38	146 19 58	3.0	.50	1.50	>2.0	700	N	N	N	700	3,000
CI638C	65 38 5	146 19 19	3.0	.50	1.50	>2.0	500	N	N	N	500	3,000
CI639C	65 37 52	146 21 37	3.0	.70	1.50	>2.0	700	N	N	N	700	2,000
CI640C	65 37 48	146 22 27	5.0	1.00	1.50	>2.0	1,000	N	N	N	1,000	700
CI641C	65 41 12	146 22 36	7.0	.70	.30	2.0	1,000	N	N	N	500	1,500

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI592C	2	N	N	10	150	15	700	N	100	30	30
CI593C	<2	N	N	10	100	20	70	N	70	20	<20
CI594C	<2	N	N	15	100	20	50	N	50	30	20
CI595C	5	N	N	20	150	30	200	N	150	30	100
CI596C	3	N	N	20	100	50	100	N	100	50	20
CI597C	5	N	N	20	200	150	200	N	100	20	100
CI598C	3	N	N	30	150	150	200	N	100	70	200
CI599C	3	N	N	30	100	150	200	N	100	70	100
CI600C	5	N	N	50	150	100	150	N	150	100	100
CI602C	3	N	N	20	200	<10	100	N	70	50	70
CI603C	3	N	N	30	150	10	100	N	150	50	70
CI604C	3	N	N	30	100	30	100	N	200	70	100
CI605C	5	N	N	20	100	<10	100	N	70	30	50
CI606C	5	N	N	30	150	20	70	N	200	50	70
CI607C	3	N	N	50	100	70	100	N	100	100	70
CI608C	3	N	N	50	150	50	100	N	200	100	150
CI609C	3	N	N	50	150	50	100	N	200	100	100
CI610C	5	N	N	50	150	50	70	N	200	100	70
CI611C	3	N	N	50	100	50	500	N	150	150	150
CI612C	3	N	N	30	150	20	300	N	100	70	70
CI613C	3	N	N	50	100	30	70	N	150	100	50
CI614C	3	N	N	30	150	20	100	N	100	70	100
CI615C	5	N	N	30	200	20	700	N	100	70	100
CI616C	5	N	N	30	200	50	200	N	100	100	100
CI617C	2	N	N	20	500	<10	>2,000	N	200	50	50
CI618C	5	N	N	30	200	50	500	N	150	100	150
CI620C	5	N	N	30	300	20	200	N	70	70	70
CI621C	3	N	N	30	700	20	70	N	50	150	<20
CI622C	3	N	N	50	700	30	70	N	<50	100	<20
CI624C	2	N	N	50	1,000	20	70	N	N	150	<20
CI625C	2	N	N	50	1,000	15	50	N	<50	150	20
CI627C	3	N	N	30	300	30	100	N	150	50	20
CI628C	3	N	N	30	300	30	70	N	100	50	20
CI629C	5	N	N	50	300	100	150	N	70	100	50
CI630C	3	N	N	20	200	10	150	N	70	50	<20
CI632C	5	N	N	30	200	15	1,000	N	200	50	70
CI633C	5	N	N	50	200	30	200	N	150	70	70
CI634C	5	N	N	50	300	150	2,000	N	200	70	100
CI635C	5	N	N	30	200	50	1,000	N	200	50	70
CI636C	5	N	N	20	150	30	200	N	200	50	50
CI637C	5	N	N	20	150	<10	700	N	100	50	50
CI638C	3	N	N	30	150	20	300	N	70	70	30
CI639C	3	N	N	30	150	15	200	N	100	100	200
CI640C	5	N	N	50	150	50	700	N	150	100	50
CI641C	5	N	N	30	200	15	100	<10	50	70	20

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI592C	N	30	500	300	150	10,000	200	N	>2,000	<200
CI593C	N	30	N	300	200	100	150	N	>2,000	N
CI594C	N	30	N	500	300	N	70	N	2,000	N
CI595C	N	30	N	200	150	N	100	N	>2,000	N
CI596C	N	50	N	200	200	N	100	N	2,000	N
CI597C	3,000	30	30	200	200	N	100	N	1,500	N
CI598C	N	20	30	200	200	2,000	150	N	2,000	N
CI599C	N	20	N	200	150	N	150	N	>2,000	N
CI600C	N	30	N	200	200	N	100	N	>2,000	N
CI602C	N	50	N	500	150	N	150	N	>2,000	N
CI603C	N	30	N	300	150	N	150	N	>2,000	N
CI604C	N	50	500	300	150	N	200	N	>2,000	N
CI605C	N	30	N	300	150	N	70	N	2,000	N
CI606C	N	50	N	300	150	N	150	N	>2,000	N
CI607C	N	30	N	500	200	N	200	N	>2,000	N
CI608C	N	50	N	500	150	N	200	N	>2,000	N
CI609C	N	30	N	200	200	N	150	N	>2,000	N
CI610C	N	30	N	200	150	N	100	N	>2,000	N
CI611C	N	30	1,000	300	150	N	200	N	>2,000	N
CI612C	N	30	N	300	150	N	200	N	>2,000	N
CI613C	N	20	150	<200	150	N	150	N	>2,000	N
CI614C	N	30	>2,000	200	150	N	150	N	>2,000	N
CI615C	N	30	50	500	200	N	200	N	>2,000	N
CI616C	N	30	N	500	200	N	200	N	>2,000	N
CI617C	N	50	N	500	150	N	700	N	>2,000	N
CI618C	N	50	N	500	150	N	300	N	>2,000	N
CI620C	N	30	N	700	150	N	150	N	>2,000	N
CI621C	N	50	<20	300	700	N	50	N	2,000	N
CI622C	N	50	50	300	700	N	70	N	150	N
CI624C	N	70	N	200	700	N	70	N	200	N
CI625C	N	70	N	<200	500	N	50	N	500	N
CI627C	N	70	N	700	500	N	100	N	2,000	N
CI628C	N	70	N	500	500	N	100	N	1,500	N
CI629C	N	50	N	700	500	N	100	N	1,000	N
CI630C	N	50	1,000	500	300	N	150	N	>2,000	N
CI632C	N	50	20	500	150	<100	700	N	>2,000	<200
CI633C	N	50	N	700	200	N	300	N	>2,000	N
CI634C	N	50	N	<200	150	N	500	N	>2,000	N
CI635C	N	50	N	300	150	N	500	N	>2,000	N
CI636C	N	30	N	500	150	N	150	N	>2,000	N
CI637C	N	30	N	500	150	N	300	N	>2,000	N
CI638C	N	30	N	500	150	N	150	N	>2,000	N
CI639C	N	30	N	500	150	N	200	N	>2,000	N
CI640C	N	30	1,500	300	150	300	200	N	>2,000	N
CI641C	N	30	N	200	200	N	100	500	2,000	N

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI642C	65 35 10	146 26 37	2.0	.30	5.00	>2.0	2,000	300.0	N	N	5,000	500
CI643C	65 35 2	146 25 47	3.0	.70	2.00	>2.0	1,500	N	N	N	1,000	700
CI644C	65 36 17	146 24 2	3.0	.70	2.00	2.0	1,000	N	N	N	2,000	1,000
CI645C	65 37 23	146 22 11	3.0	.70	1.00	>2.0	700	N	N	N	3,000	700
CI646C	65 40 51	146 29 37	5.0	1.00	1.50	2.0	1,500	N	N	N	1,000	2,000
CI647C	65 41 16	146 24 1	5.0	.50	.50	2.0	1,500	N	N	N	700	1,000
CI648C	65 42 55	146 17 37	5.0	.70	.50	>2.0	1,000	N	N	N	700	5,000
CI649C	65 43 46	146 16 30	7.0	.20	.50	2.0	1,000	N	N	N	200	>10,000
CI651C	65 39 48	146 11 42	5.0	.50	2.00	>2.0	1,000	N	N	N	500	3,000
CI652C	65 42 4	146 9 48	5.0	.50	1.00	>2.0	1,500	N	N	N	1,000	1,000
CI653C	65 42 2	146 10 42	3.0	.50	1.00	>2.0	1,000	N	N	N	500	700
CI654C	65 44 13	146 11 22	5.0	.50	1.50	>2.0	2,000	N	N	N	500	>10,000
CI655C	65 34 16	146 19 24	3.0	.50	.50	>2.0	1,000	N	N	N	3,000	1,000
CI656C	65 33 35	146 18 3	7.0	.70	.50	>2.0	2,000	N	3,000	N	3,000	1,000
CI657C	65 33 15	146 18 7	7.0	.50	.20	>2.0	700	N	N	N	1,500	1,000
CI658C	65 33 7	146 22 34	3.0	.50	.70	>2.0	1,000	N	N	N	1,000	1,000
CI659C	65 33 11	146 16 4	10.0	.30	.10	>2.0	1,000	<1.0	N	N	700	1,000
CI660C	65 32 37	146 15 37	5.0	.15	.10	>2.0	1,000	N	N	N	700	1,000
CI661C	65 32 39	146 13 59	7.0	.20	.10	>2.0	1,500	N	N	N	500	1,000
CI662C	65 31 17	146 24 22	5.0	.50	.30	>2.0	1,000	N	N	N	500	1,000
CI663C	65 30 55	146 24 36	5.0	.50	.30	>2.0	1,000	N	N	N	300	1,500
CI664C	65 29 29	146 23 43	3.0	.30	.50	>2.0	1,000	<1.0	1,500	N	500	700
CI665C	65 29 19	146 23 8	5.0	.70	.30	>2.0	1,500	N	N	N	700	1,000
CI666C	65 30 23	146 20 58	7.0	.70	.70	>2.0	1,500	<1.0	N	N	2,000	1,500
CI667C	65 30 48	146 21 9	5.0	.50	.50	>2.0	1,000	N	N	N	300	1,000
CI668C	65 30 36	146 19 10	5.0	.50	.70	>2.0	1,000	2.0	N	N	500	1,000
CI669C	65 31 32	146 13 26	7.0	.20	.30	>2.0	1,000	1.0	N	N	700	1,500
CI670C	65 31 57	146 13 8	5.0	.30	.50	>2.0	1,000	N	N	N	500	1,000
CI671C	65 31 23	146 10 13	5.0	.30	.70	>2.0	1,000	N	N	N	500	1,000
CI672C	65 32 24	146 2 41	7.0	1.00	1.50	>2.0	2,000	2.0	N	N	200	5,000
CI673C	65 46 33	146 3 34	3.0	.70	3.00	.7	1,000	<1.0	N	N	150	>10,000
CI674C	65 46 18	145 55 45	5.0	1.50	5.00	.7	700	1.5	N	N	100	>10,000
CI675C	65 46 28	145 46 7	2.0	1.00	5.00	>2.0	1,500	N	N	N	300	>10,000
CI676C	65 45 57	145 49 6	7.0	7.00	15.00	>2.0	2,000	N	N	N	300	5,000
CI677C	65 46 15	145 37 4	2.0	.20	1.00	>2.0	700	<1.0	N	N	100	>10,000
CI678C	65 47 21	145 32 41	3.0	.50	3.00	>2.0	1,500	N	N	N	300	>10,000
CI679C	65 24 44	146 13 50	3.0	.70	.70	>2.0	1,000	N	N	N	200	3,000
CI680C	65 25 12	146 14 30	5.0	.30	.30	>2.0	1,000	N	N	N	300	1,500
CI681C	65 24 49	146 26 32	3.0	.70	.50	>2.0	700	N	N	N	2,000	1,500
CI682C	65 24 27	146 26 31	.7	.07	.30	.5	1,000	N	N	N	500	300
CI683C	65 24 4	146 16 45	3.0	.50	.20	>2.0	1,500	N	N	N	500	1,000
CI684C	65 22 25	146 18 14	3.0	.30	.15	>2.0	300	N	N	N	100	500
CI685C	65 19 50	146 21 9	2.0	.70	5.00	>2.0	500	N	N	N	300	700
CI686C	65 13 32	146 29 30	5.0	.50	1.00	>2.0	1,500	N	N	N	1,000	1,500
CI687C	65 21 51	146 36 3	3.0	.70	1.00	>2.0	2,000	N	N	N	1,500	1,000

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI642C	15	>2,000	N	10	50	<10	2,000	N	700	15	200
CI643C	5	300	N	20	150	<10	1,000	N	300	30	300
CI644C	7	<20	N	15	200	10	100	N	100	30	20
CI645C	5	N	N	30	150	20	150	N	100	50	20
CI646C	7	N	N	20	500	70	>2,000	N	150	30	150
CI647C	3	N	N	15	200	100	>2,000	N	150	20	500
CI648C	3	N	N	20	300	15	2,000	N	150	50	50
CI649C	3	N	N	30	100	100	1,000	N	70	150	100
CI651C	5	N	N	30	200	50	200	N	100	70	70
CI652C	2	N	N	30	150	70	1,000	N	100	70	100
CI653C	3	N	N	20	100	15	1,000	N	70	50	30
CI654C	3	N	N	30	150	70	2,000	N	70	70	20
CI655C	5	N	N	10	200	15	700	N	200	30	50
CI656C	5	N	N	50	150	200	200	N	150	100	150
CI657C	3	N	N	50	150	200	150	N	150	150	100
CI658C	5	N	N	20	150	15	100	N	200	50	200
CI659C	3	N	N	150	150	200	700	N	100	500	150
CI660C	5	N	N	50	150	20	150	N	100	100	100
CI661C	5	N	N	30	150	20	150	N	70	150	70
CI662C	5	N	N	30	100	20	200	N	150	70	100
CI663C	5	N	N	30	100	20	70	N	200	70	70
CI664C	7	N	N	20	100	30	200	N	100	30	70
CI665C	5	N	N	20	100	15	100	N	100	50	50
CI666C	5	N	N	30	200	20	100	N	100	70	100
CI667C	5	N	N	30	150	20	100	N	150	70	70
CI668C	20	N	N	30	100	20	100	N	150	50	70
CI669C	5	N	N	70	150	20	100	N	150	200	100
CI670C	3	N	N	50	150	15	100	N	200	100	70
CI671C	5	N	N	30	100	15	70	N	150	50	50
CI672C	5	N	N	50	150	200	300	N	200	20	100
CI673C	<2	N	N	30	500	20	200	N	<50	100	50
CI674C	<2	N	N	150	700	100	70	N	N	100	150
CI675C	2	N	N	20	700	20	150	N	100	50	20
CI676C	3	N	N	50	2,000	10	700	N	70	200	20
CI677C	2	N	N	15	100	30	500	N	50	30	300
CI678C	3	N	N	20	70	50	100	N	100	50	200
CI679C	3	N	N	30	200	15	100	N	150	30	500
CI680C	5	N	N	30	100	10	100	N	150	70	70
CI681C	5	N	N	20	100	10	100	N	150	30	30
CI682C	3	N	N	10	20	<10	N	N	50	<10	N
CI683C	5	N	N	30	70	15	100	N	150	50	50
CI684C	3	N	N	15	100	30	70	N	70	50	70
CI685C	2	N	N	15	100	70	70	N	50	20	<20
CI686C	3	N	N	30	150	<10	>2,000	N	100	30	50
CI687C	7	N	N	30	100	15	100	N	100	70	50

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI642C	N	50	>2,000	<200	100	2,000	700	N	>2,000	1,000
CI643C	N	30	1,000	200	150	700	300	N	>2,000	500
CI644C	N	20	700	300	200	5,000	150	N	>2,000	N
CI645C	N	20	70	300	150	500	150	N	>2,000	N
CI646C	N	30	>2,000	<200	150	300	1,000	N	>2,000	3,000
CI647C	N	30	>2,000	<200	100	100	700	N	>2,000	2,000
CI648C	N	50	300	300	150	N	500	1,000	>2,000	<200
CI649C	N	15	100	500	150	N	150	700	2,000	N
CI651C	N	50	70	500	200	N	200	N	>2,000	N
CI652C	N	50	N	200	100	N	300	N	>2,000	N
CI653C	N	30	30	200	150	N	200	N	>2,000	N
CI654C	N	30	100	500	100	N	200	N	>2,000	N
CI655C	N	30	100	<200	150	1,000	300	N	>2,000	<200
CI656C	N	30	300	300	150	500	200	N	>2,000	N
CI657C	N	30	200	200	150	<100	150	N	>2,000	N
CI658C	N	30	1,000	200	200	N	150	N	>2,000	N
CI659C	N	20	100	200	100	N	100	N	>2,000	N
CI660C	N	30	N	200	150	N	200	N	>2,000	N
CI661C	N	30	N	200	150	N	100	N	>2,000	N
CI662C	N	30	N	200	150	N	150	N	>2,000	N
CI663C	N	30	N	200	150	N	150	N	>2,000	N
CI664C	N	20	N	200	100	N	100	N	2,000	N
CI665C	N	30	1,000	300	150	<100	100	N	2,000	N
CI666C	N	30	N	300	150	N	100	N	2,000	N
CI667C	N	30	N	200	150	N	200	N	2,000	N
CI668C	N	30	N	300	150	N	150	N	>2,000	N
CI669C	N	30	150	300	200	N	150	N	>2,000	<200
CI670C	N	50	100	300	150	N	150	N	>2,000	N
CI671C	N	30	>2,000	200	150	N	100	N	>2,000	N
CI672C	N	30	30	500	200	N	200	N	2,000	N
CI673C	N	20	50	3,000	100	N	50	N	500	N
CI674C	N	50	N	1,500	100	N	30	700	300	N
CI675C	N	30	200	1,000	200	N	150	N	>2,000	N
CI676C	N	150	500	700	300	N	100	N	2,000	N
CI677C	N	15	1,000	1,000	150	N	200	N	2,000	N
CI678C	N	20	300	1,000	150	100	200	2,000	2,000	N
CI679C	N	50	>2,000	200	200	100	150	N	>2,000	N
CI680C	N	50	30	300	100	N	150	N	>2,000	N
CI681C	N	50	2,000	200	150	200	100	N	>2,000	N
CI682C	N	<10	>2,000	N	30	100	70	N	200	N
CI683C	N	30	500	200	150	<100	200	N	>2,000	N
CI684C	N	15	50	N	100	<100	70	N	2,000	N
CI685C	N	20	N	300	200	N	50	N	2,000	N
CI686C	N	20	N	700	70	N	300	N	>2,000	N
CI687C	N	20	2,000	200	150	100	100	N	2,000	N

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI688C	65 20 23	146 42 50	5.0	.50	1.00	>2.0	1,500	N	N	N	700	1,500
CI689C	65 20 1	146 48 27	3.0	.50	.70	>2.0	700	N	N	N	700	700
CI690C	65 20 32	146 48 39	3.0	.30	.50	>2.0	1,000	N	N	N	700	700
CI691C	65 20 16	146 54 11	7.0	.70	.50	>2.0	2,000	N	N	N	1,000	1,000
CI692C	65 27 50	146 24 23	3.0	.50	.70	>2.0	1,000	N	N	N	700	700
CI693C	65 27 30	146 24 27	.7	.05	1.00	2.0	1,000	<1.0	N	N	700	70
CI694C	65 27 29	146 21 5	3.0	.50	1.00	>2.0	1,500	N	N	N	2,000	500
CI695C	65 27 28	146 19 21	5.0	.70	.50	>2.0	1,000	N	N	N	1,500	1,000
CI696C	65 28 29	146 15 22	7.0	.70	1.00	>2.0	1,000	N	N	N	700	2,000
CI697C	65 28 18	146 16 46	5.0	.50	1.00	>2.0	1,500	15.0	N	N	1,000	700
CI698C	65 29 15	146 13 1	5.0	.30	.70	>2.0	700	N	N	N	300	7,000
CI699C	65 30 52	146 10 52	3.0	.30	1.00	>2.0	1,000	N	N	N	500	700
CI700C	65 30 57	146 6 30	5.0	.30	.50	>2.0	700	N	N	N	500	700
CI701C	65 31 18	146 4 48	5.0	.50	1.00	>2.0	1,500	N	N	N	500	1,000
CI702C	65 28 26	146 6 40	3.0	.30	.50	>2.0	1,000	N	N	N	500	1,000
CI703C	65 25 32	146 4 26	2.0	.50	.70	>2.0	700	N	N	N	300	700
CI704C	65 25 34	146 3 22	2.0	.70	1.00	>2.0	700	N	N	N	2,000	700
CI705C	65 26 40	146 4 18	5.0	1.00	.70	>2.0	1,500	<1.0	N	N	2,000	1,000
CI706C	65 26 56	146 5 3	3.0	.50	.30	>2.0	1,000	3.0	N	N	1,000	1,000
CI707C	65 27 43	146 3 21	7.0	.50	.50	>2.0	700	<1.0	<500	N	700	700
CI708C	65 29 44	146 3 30	10.0	.70	1.00	>2.0	1,000	N	<500	N	3,000	1,000
CI709C	65 26 29	145 57 39	3.0	1.00	1.50	>2.0	700	N	N	N	>5,000	700
CI710C	65 26 58	145 56 51	5.0	3.00	3.00	2.0	2,000	N	N	N	>5,000	500
CI711C	65 27 47	145 56 38	5.0	1.50	2.00	>2.0	1,500	N	2,000	N	>5,000	700
CI712C	67 27 33	145 53 10	7.0	1.50	3.00	2.0	1,500	N	500	N	>5,000	700
CI713C	65 28 53	145 55 55	7.0	1.50	1.50	2.0	1,500	N	N	N	>5,000	700
CI714C	65 29 31	145 51 0	5.0	1.00	1.50	>2.0	1,000	N	2,000	N	2,000	1,000
CI715C	65 29 10	145 51 39	3.0	.70	7.00	1.5	3,000	N	N	N	>5,000	500
CI716C	65 29 22	145 55 31	3.0	.70	3.00	>2.0	1,500	N	500	N	5,000	700
CI717C	65 30 15	145 57 51	5.0	.70	.70	>2.0	700	N	N	N	>5,000	700
CI718C	65 31 8	145 58 2	7.0	1.00	3.00	>2.0	2,000	N	N	N	>5,000	700
CI719C	65 31 25	146 3 29	10.0	.70	.50	>2.0	1,000	<1.0	N	N	1,500	2,000
CI720C	65 31 46	146 2 25	7.0	.50	.70	>2.0	1,000	N	N	N	1,500	1,000
CI721C	65 31 5	145 51 3	3.0	.50	2.00	>2.0	1,500	N	N	N	1,500	700
CI722C	65 31 26	145 50 24	5.0	.70	1.50	>2.0	1,000	N	N	N	1,000	1,000
CI723C	65 31 33	145 57 14	5.0	.50	1.50	>2.0	1,000	N	N	N	500	1,000
CI724C	65 32 35	146 1 13	5.0	.50	1.00	>2.0	700	N	N	N	1,000	1,000
CI725C	65 42 34	145 57 13	3.0	.50	2.00	>2.0	1,000	N	N	50	500	>10,000
CI726C	65 42 15	145 51 45	5.0	1.00	3.00	>2.0	1,500	N	N	N	700	1,500
CI728C	65 36 3	145 36 9	3.0	.50	1.00	>2.0	700	N	N	N	500	1,500
CI729C	65 36 1	145 35 0	3.0	.50	.70	>2.0	1,500	N	N	N	700	700
CI730C	65 36 23	145 32 42	3.0	.70	.50	>2.0	1,500	N	N	N	1,500	700
CI731C	65 39 36	145 31 10	5.0	.70	.50	>2.0	1,500	<1.0	N	N	1,000	1,500
CI732C	65 39 0	145 21 30	2.0	.30	.50	>2.0	1,000	N	N	N	300	1,000
CI733C	65 44 54	145 24 46	5.0	1.00	5.00	>2.0	1,000	N	N	N	500	>10,000

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI688C	5	N	N	50	100	20	150	N	150	100	70
CI689C	3	N	N	20	100	10	70	N	150	30	50
CI690C	5	N	N	30	100	<10	300	N	150	70	30
CI691C	3	N	N	30	150	15	150	N	150	70	70
CI692C	7	N	N	10	100	15	150	N	150	30	30
CI693C	3	>2,000	N	<10	<20	<10	300	N	150	<10	50
CI694C	7	N	N	15	100	15	100	N	150	30	20
CI695C	5	N	N	30	200	15	100	N	150	70	100
CI696C	5	N	N	30	200	20	200	N	100	100	50
CI697C	5	N	N	30	150	20	70	N	150	50	30
CI698C	5	N	N	20	150	15	100	N	200	70	70
CI699C	5	N	N	20	100	50	100	N	100	50	50
CI700C	3	N	N	20	150	15	150	N	150	50	70
CI701C	3	N	N	20	100	10	200	N	150	50	50
CI702C	5	N	N	20	100	10	100	N	200	50	70
CI703C	3	N	N	15	100	<10	100	N	150	30	70
CI704C	3	N	N	10	70	150	70	N	100	20	50
CI705C	5	N	N	20	150	100	150	N	70	50	100
CI706C	5	N	N	15	70	<10	100	N	100	30	30
CI707C	5	N	N	150	70	100	150	N	100	300	100
CI708C	3	N	N	100	150	70	200	N	100	150	150
CI709C	3	N	N	20	150	20	100	N	100	50	50
CI710C	3	N	N	20	150	70	100	N	50	50	N
CI711C	3	N	N	30	200	1,000	150	N	70	50	20
CI712C	5	N	N	20	200	100	100	N	50	70	<20
CI713C	5	500	N	20	200	50	200	N	50	50	<20
CI714C	3	N	N	20	150	50	150	N	70	50	150
CI715C	3	N	N	15	150	10	>2,000	100	100	20	N
CI716C	3	300	N	20	150	70	2,000	50	100	30	300
CI717C	3	N	N	30	150	<10	2,000	N	100	30	50
CI718C	3	100	N	30	200	15	1,500	N	100	50	200
CI719C	5	N	N	50	200	100	100	N	50	150	100
CI720C	3	N	N	30	200	50	150	N	100	70	50
CI721C	3	N	N	30	100	10	500	N	100	50	30
CI722C	3	N	N	20	150	15	150	N	100	50	70
CI723C	3	N	N	20	100	10	1,000	N	100	50	70
CI724C	5	N	N	70	100	100	500	N	70	70	50
CI725C	3	N	N	20	200	20	300	N	100	70	70
CI726C	3	N	N	30	200	50	100	N	70	70	100
CI728C	5	N	N	10	100	10	100	N	150	30	70
CI729C	3	N	N	20	70	<10	70	N	100	30	20
CI730C	3	N	N	20	100	<10	100	N	150	30	50
CI731C	3	N	N	30	100	15	70	N	150	50	50
CI732C	3	N	N	10	70	<10	100	N	150	20	30
CI733C	3	N	N	20	200	70	100	N	70	70	30

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI688C	N	30	700	300	150	N	150	N	>2,000	N
CI689C	N	20	2,000	200	150	100	100	N	>2,000	N
CI690C	N	30	300	300	150	N	200	N	>2,000	<200
CI691C	N	20	100	300	150	N	150	N	>2,000	N
CI692C	N	50	2,000	<200	100	N	100	N	>2,000	<200
CI693C	N	10	>2,000	N	20	<100	200	N	>2,000	<200
CI694C	N	50	>2,000	N	100	100	150	N	2,000	N
CI695C	N	50	700	200	150	100	150	N	2,000	N
CI696C	N	50	200	300	150	N	200	N	>2,000	<200
CI697C	N	30	200	N	70	150	200	N	>2,000	N
CI698C	N	50	700	500	200	N	150	N	>2,000	N
CI699C	N	30	2,000	200	100	N	200	N	>2,000	N
CI700C	N	30	300	300	150	N	150	N	>2,000	N
CI701C	N	30	N	500	100	500	150	N	>2,000	N
CI702C	N	70	N	500	100	N	150	N	>2,000	N
CI703C	N	50	500	300	150	500	100	N	>2,000	N
CI704C	N	30	700	200	150	1,000	100	N	>2,000	N
CI705C	N	50	300	200	200	500	150	N	2,000	N
CI706C	N	20	70	200	100	N	100	N	2,000	N
CI707C	N	30	N	200	150	N	100	N	2,000	N
CI708C	N	50	50	500	150	300	200	N	>2,000	N
CI709C	N	50	50	300	200	10,000	200	N	>2,000	N
CI710C	N	50	70	<200	200	15,000	100	N	2,000	N
CI711C	N	70	200	200	300	700	150	N	>2,000	N
CI712C	N	70	150	<200	300	15,000	150	N	1,000	N
CI713C	N	50	30	200	200	10,000	100	N	2,000	N
CI714C	N	30	N	300	200	300	150	N	2,000	N
CI715C	N	20	200	<200	100	20,000	500	N	>2,000	500
CI716C	N	30	500	200	100	15,000	300	N	>2,000	200
CI717C	N	30	N	200	150	10,000	300	N	>2,000	200
CI718C	N	50	500	200	200	7,000	200	N	>2,000	N
CI719C	N	30	20	300	200	100	100	N	2,000	N
CI720C	N	50	700	300	150	100	150	N	>2,000	N
CI721C	N	50	20	300	150	300	200	N	>2,000	N
CI722C	N	30	N	200	150	N	150	N	>2,000	N
CI723C	N	30	N	300	100	N	200	N	>2,000	N
CI724C	N	30	1,000	200	150	2,000	100	N	>2,000	<200
CI725C	N	50	N	700	150	N	200	N	>2,000	200
CI726C	N	50	N	500	150	N	100	N	2,000	N
CI728C	N	50	500	500	100	N	150	N	>2,000	N
CI729C	N	20	N	200	100	N	100	N	>2,000	N
CI730C	N	30	N	300	150	N	100	N	>2,000	N
CI731C	N	30	N	300	150	N	100	N	2,000	N
CI732C	N	20	N	200	100	N	100	N	>2,000	N
CI733C	N	20	N	300	200	N	100	1,000	2,000	N

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI734C	65 55 12	146 58 5	5.0	5.00	10.00	2.0	1,500	2.0	N	N	200	>10,000
CI735C	65 57 8	146 53 47	10.0	1.50	2.00	2.0	1,000	N	N	N	500	>10,000
CI736C	65 55 19	146 55 0	15.0	1.00	2.00	1.5	700	N	N	N	500	>10,000
CI737C	65 55 39	146 51 31	7.0	.70	1.00	2.0	1,000	N	N	N	500	10,000
CI738C	65 55 17	146 47 59	7.0	1.50	2.00	2.0	2,000	N	N	N	500	>10,000
CI741C	65 50 39	146 56 46	7.0	1.00	1.50	2.0	700	N	N	N	500	>10,000
CI742C	65 51 59	146 49 51	7.0	1.50	2.00	>2.0	1,500	N	N	N	700	2,000
CI744C	65 51 15	146 51 34	5.0	1.00	1.50	>2.0	1,000	N	N	N	500	2,000
CI745C	65 49 13	146 38 37	7.0	1.50	5.00	>2.0	1,500	1.5	N	N	200	>10,000
CI746C	65 30 27	145 7 32	5.0	.50	2.00	>2.0	1,500	N	N	N	700	700
CI747C	65 30 27	145 6 43	5.0	.50	1.00	>2.0	1,500	N	N	N	1,000	700
CI748C	65 31 5	145 5 24	5.0	.50	.20	>2.0	2,000	N	N	N	1,000	700
CI749C	65 32 15	145 5 9	3.0	.30	.30	>2.0	1,000	N	N	N	700	700
CI750C	65 27 17	144 45 53	7.0	1.00	3.00	>2.0	1,500	N	7,000	N	200	700
CI751C	65 27 10	144 44 59	7.0	1.00	5.00	>2.0	2,000	N	N	N	700	700
CI752C	65 26 19	144 37 37	2.0	.50	5.00	>2.0	2,000	N	N	N	300	700
CI753C	65 28 34	144 35 51	3.0	.70	5.00	>2.0	2,000	N	N	N	1,500	700
CI754C	65 27 11	144 33 0	1.5	.15	7.00	>2.0	2,000	N	N	N	200	500
CI755C	65 28 52	144 40 7	2.0	.50	5.00	>2.0	1,500	N	1,500	N	500	700
CI756C	65 26 39	144 29 29	3.0	.70	7.00	>2.0	2,000	N	N	N	700	500
CI757C	65 26 27	144 28 55	7.0	1.00	10.00	>2.0	3,000	N	N	N	1,500	700
CI758C	65 28 42	144 44 28	3.0	.50	10.00	2.0	3,000	70.0	N	50	500	500
CI759C	65 28 59	144 45 27	1.5	.20	2.00	>2.0	1,500	N	N	N	500	500
CI760C	65 25 21	145 1 19	5.0	.70	5.00	>2.0	700	N	N	N	700	700
CI761C	65 25 10	145 0 50	5.0	1.00	5.00	2.0	1,000	N	N	N	1,000	700
CI762C	65 26 3	144 57 52	5.0	1.00	1.50	2.0	1,000	N	N	N	500	700
CI763C	65 26 9	144 58 17	5.0	.70	5.00	>2.0	700	N	700	N	700	1,000
CI764C	65 27 57	145 6 53	5.0	.70	1.50	>2.0	1,000	N	N	N	700	1,000
CI765C	65 27 45	145 6 14	3.0	.70	1.50	>2.0	1,000	N	N	N	300	1,000
CI766C	65 26 41	145 4 1	5.0	.70	2.00	>2.0	1,000	N	N	N	500	1,500
CI767C	65 26 43	145 4 55	5.0	.50	3.00	>2.0	1,000	N	N	N	1,000	1,000
CI768C	65 28 3	145 4 40	3.0	.70	1.50	>2.0	700	N	N	N	500	700
CI769C	65 27 40	145 4 21	3.0	1.00	3.00	>2.0	700	N	N	N	1,000	700
CI770C	65 30 15	144 59 14	5.0	.70	.70	2.0	2,000	N	N	N	1,000	1,500
CI771C	65 30 18	145 0 33	7.0	1.00	3.00	>2.0	1,000	N	N	N	1,500	700
CI772C	65 32 16	144 57 0	5.0	.70	1.50	>2.0	1,000	N	N	N	1,000	1,000
CI773C	65 34 41	144 53 41	7.0	.70	1.50	>2.0	1,500	N	N	N	1,000	1,500
CI774C	65 44 21	146 50 42	5.0	.70	2.00	2.0	1,500	N	N	N	500	>10,000
CI775C	65 43 50	146 44 17	10.0	1.00	2.00	2.0	1,500	20.0	N	N	500	>10,000
CI776C	65 46 5	146 44 40	10.0	1.00	1.50	1.5	1,000	5.0	N	N	300	>10,000
CI777C	65 46 46	146 40 33	10.0	.20	.50	.7	500	10.0	N	N	200	>10,000
CI778C	65 47 39	146 36 57	15.0	.70	.30	1.0	5,000	1.0	N	N	300	3,000
CI779C	65 46 28	146 31 54	15.0	.20	.50	1.0	1,000	N	N	N	300	>10,000
CI780C	65 46 37	146 31 4	7.0	.50	.70	>2.0	1,500	10.0	N	N	500	>10,000
CI781C	65 49 13	146 33 2	15.0	.50	.50	1.0	2,000	1.0	N	N	300	7,000

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI734C	3	N	N	50	1,500	50	200	N	50	200	70
CI735C	5	N	N	70	500	100	150	N	70	200	50
CI736C	5	N	N	50	300	500	200	N	50	150	50
CI737C	3	N	N	30	150	100	200	N	50	100	70
CI738C	5	N	N	50	300	70	100	N	70	150	100
CI741C	5	N	N	30	300	70	70	N	50	150	50
CI742C	5	N	N	30	200	100	200	N	100	100	150
CI744C	5	N	N	20	150	50	300	N	50	70	70
CI745C	3	N	N	70	700	1,500	500	N	200	200	70
CI746C	3	N	N	30	100	50	700	N	100	50	500
CI747C	3	N	N	15	100	30	2,000	N	100	30	30
CI748C	5	N	N	15	100	70	1,000	N	200	30	100
CI749C	3	N	N	15	150	10	1,000	N	150	15	100
CI750C	3	150	N	30	300	30	1,000	N	70	30	100
CI751C	3	N	N	20	200	50	2,000	N	50	50	70
CI752C	5	N	N	<10	200	<10	70	N	300	15	30
CI753C	5	N	N	10	150	10	100	N	200	30	150
CI754C	3	N	N	<10	50	N	300	N	3,000	<10	50
CI755C	5	N	N	10	200	<10	200	N	300	20	<20
CI756C	7	N	N	10	100	<10	50	N	200	30	50
CI757C	3	N	N	15	200	10	100	N	200	50	70
CI758C	30	N	N	15	200	15	>2,000	N	150	20	100
CI759C	10	N	N	10	100	10	500	N	500	15	<20
CI760C	3	N	N	70	100	70	200	N	300	70	<20
CI761C	3	N	N	20	150	70	100	N	50	70	30
CI762C	5	N	N	20	100	50	150	N	70	70	50
CI763C	5	N	N	30	150	150	200	N	100	150	30
CI764C	3	N	N	20	150	15	200	N	100	70	50
CI765C	3	N	N	15	100	10	150	N	70	50	50
CI766C	3	N	N	15	100	50	100	N	150	70	50
CI767C	3	N	N	15	100	70	500	N	100	50	70
CI768C	3	N	N	15	100	<10	500	N	100	30	50
CI769C	3	N	N	20	150	10	500	N	150	100	30
CI770C	5	N	N	20	200	15	200	N	70	30	100
CI771C	3	N	N	30	200	20	200	N	150	100	50
CI772C	5	N	N	20	200	10	500	N	150	100	70
CI773C	5	N	N	20	200	20	150	N	100	70	100
CI774C	5	N	N	15	300	50	150	N	70	50	<20
CI775C	5	N	N	30	500	150	500	10	50	150	50
CI776C	3	N	N	30	500	100	700	10	<50	100	50
CI777C	3	N	N	10	100	300	700	15	<50	70	50
CI778C	7	N	N	100	200	300	500	N	100	200	100
CI779C	5	N	N	30	150	200	2,000	20	50	150	300
CI780C	7	N	N	30	100	70	1,000	10	200	100	100
CI781C	5	N	N	70	150	200	300	20	50	200	50

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI734C	N	70	N	500	300	N	70	500	1,000	N
CI735C	N	30	N	500	200	N	150	N	>2,000	N
CI736C	N	30	N	700	150	N	150	N	2,000	N
CI737C	N	30	N	300	200	N	150	N	2,000	N
CI738C	N	30	N	1,000	300	N	100	N	2,000	N
CI741C	N	30	N	300	150	N	150	N	2,000	N
CI742C	N	30	N	200	200	N	200	N	>2,000	N
CI744C	N	20	N	200	150	N	100	N	2,000	N
CI745C	N	20	N	200	150	N	200	N	2,000	N
CI746C	N	30	30	<200	150	N	300	N	>2,000	300
CI747C	N	20	2,000	<200	150	100	200	N	>2,000	700
CI748C	N	50	2,000	<200	150	<100	300	N	>2,000	200
CI749C	N	30	>2,000	<200	200	N	150	N	>2,000	700
CI750C	N	30	1,500	200	200	2,000	200	N	>2,000	200
CI751C	N	30	>2,000	500	150	2,000	150	N	2,000	300
CI752C	N	50	300	700	200	700	1,000	N	>2,000	N
CI753C	N	70	100	500	200	<100	500	N	>2,000	N
CI754C	N	50	1,500	N	150	200	1,500	N	>2,000	200
CI755C	N	50	200	500	200	150	700	N	>2,000	<200
CI756C	N	50	100	1,000	200	N	300	N	>2,000	N
CI757C	N	70	150	1,000	500	N	500	N	>2,000	N
CI758C	N	20	>2,000	300	100	5,000	700	N	>2,000	N
CI759C	N	20	>2,000	N	100	2,000	700	N	>2,000	2,000
CI760C	N	30	70	500	150	<100	150	N	>2,000	1,500
CI761C	N	50	20	500	200	N	100	N	2,000	N
CI762C	N	30	N	300	150	N	100	N	2,000	N
CI763C	N	30	N	500	150	N	150	N	>2,000	N
CI764C	N	30	500	200	150	N	150	N	>2,000	N
CI765C	N	30	N	300	150	N	150	N	>2,000	N
CI766C	N	30	N	200	150	N	150	N	>2,000	N
CI767C	N	30	N	500	150	N	200	N	>2,000	N
CI768C	N	30	1,000	300	150	N	150	N	>2,000	N
CI769C	N	70	300	500	150	N	300	N	>2,000	<200
CI770C	N	30	N	200	200	N	150	N	2,000	N
CI771C	N	30	300	200	200	N	200	N	>2,000	N
CI772C	N	50	100	300	200	<100	200	N	>2,000	N
CI773C	N	50	<20	200	300	N	20	N	>2,000	N
CI774C	N	30	300	300	500	N	100	N	>2,000	N
CI775C	N	50	N	700	300	N	150	1,000	2,000	N
CI776C	N	30	N	500	200	N	150	N	2,000	N
CI777C	N	15	500	1,000	150	N	100	<500	700	N
CI778C	N	50	20	<200	200	N	150	700	2,000	N
CI779C	N	15	200	1,000	150	N	150	N	700	N
CI780C	N	30	N	200	150	N	300	N	>2,000	N
CI781C	N	30	N	200	200	N	100	<500	700	N

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI782C	65 33 58	145 4 49	5.0	.70	1.50	>2.0	1,500	N	N	N	500	2,000
CI783C	65 32 27	145 36 1	3.0	.70	1.00	>2.0	1,000	N	2,000	N	500	1,500
CI784C	65 32 7	145 35 51	5.0	.70	1.50	>2.0	1,500	N	700	N	300	2,000
CI785C	65 32 17	145 33 42	5.0	.70	.70	>2.0	1,500	<1.0	N	N	500	1,500
CI786C	65 32 48	145 29 16	5.0	1.00	1.00	>2.0	1,500	N	1,000	N	500	1,500
CI787C	65 33 17	145 29 46	5.0	.70	1.50	>2.0	1,500	N	N	N	500	1,500
CI788C	65 33 34	145 26 58	3.0	.70	1.00	>2.0	100	N	N	N	500	1,000
CI789C	65 30 56	145 25 18	5.0	.70	1.50	>2.0	1,000	N	N	N	700	1,000
CI790C	65 30 44	145 24 38	5.0	.70	1.00	>2.0	1,000	N	N	N	300	1,000
CI791C	65 31 47	145 23 15	7.0	1.00	1.00	>2.0	2,000	150.0	700	30	500	1,500
CI792C	65 32 10	145 21 56	5.0	1.00	1.00	>2.0	1,500	3.0	<500	N	500	1,500
CI793C	65 33 15	145 19 18	7.0	1.00	1.50	>2.0	1,500	N	N	N	700	1,500
CI794C	65 33 34	145 19 58	7.0	1.00	1.50	>2.0	1,500	N	N	N	500	2,000
CI795C	65 33 11	145 15 6	3.0	.70	1.00	>2.0	1,500	N	N	N	500	1,000
CI796C	65 33 5	145 11 14	3.0	.50	2.00	>2.0	1,000	N	N	N	700	1,500
CI798C	65 45 22	146 33 20	5.0	.30	1.00	2.0	1,000	1.0	N	N	500	>10,000
CI799C	65 45 14	146 32 35	5.0	.20	1.00	2.0	1,000	1.0	N	N	500	>10,000
CI800C	65 43 11	146 32 38	1.0	.05	.30	.7	1,000	N	N	N	100	>10,000
CI801C	65 43 25	146 33 34	7.0	.70	2.00	2.0	2,000	N	N	N	700	>10,000
CI802C	65 42 33	146 30 27	7.0	1.50	2.00	2.0	1,500	N	N	N	100	10,000
CI803C	65 42 42	146 29 13	7.0	1.00	1.50	2.0	1,500	N	N	N	150	>10,000
CI804C	65 44 8	146 28 32	5.0	.15	1.00	.5	300	N	N	N	70	>10,000
CI805C	65 44 25	146 27 58	7.0	.20	.20	.5	200	N	N	N	150	>10,000
CI806C	65 45 29	146 30 6	7.0	.20	.50	.7	200	N	N	N	150	>10,000
CI807C	65 29 48	145 35 54	7.0	1.00	5.00	>2.0	1,500	N	N	N	150	2,000
CI808C	65 30 14	145 35 0	7.0	1.00	2.00	>2.0	1,500	N	N	N	150	1,500
CI809C	65 30 0	145 34 55	7.0	1.50	5.00	>2.0	1,500	5.0	N	N	500	1,500
CI810C	65 29 50	145 31 3	7.0	1.00	2.00	>2.0	1,500	N	N	N	500	1,000
CI811C	65 29 48	145 31 57	7.0	1.00	1.50	>2.0	1,500	N	N	N	200	1,000
CI812C	65 27 29	145 29 13	7.0	1.50	1.50	>2.0	1,500	N	N	N	500	1,500
CI813C	65 27 53	145 30 2	7.0	1.50	2.00	>2.0	1,500	N	N	N	500	1,500
CI814C	65 28 0	145 24 12	7.0	1.50	2.00	>2.0	1,500	N	N	N	200	1,500
CI815C	65 52 53	146 22 3	15.0	1.00	3.00	>2.0	2,000	N	N	N	200	5,000
CI816C	65 52 12	146 18 21	15.0	1.00	2.00	>2.0	1,500	N	N	N	200	10,000
CI817C	65 51 32	146 16 39	7.0	1.50	5.00	>2.0	1,500	N	N	N	200	10,000
CI818C	65 50 48	146 16 52	10.0	.70	1.00	>2.0	1,500	N	N	N	200	10,000
CI819C	65 49 7	146 20 23	15.0	.70	.50	>2.0	1,500	N	N	N	200	>10,000
CI820C	65 46 30	146 26 50	15.0	.70	.50	>2.0	1,500	N	N	N	150	10,000
CI821C	65 45 2	146 21 32	10.0	.50	.30	.7	300	N	N	N	150	>10,000
CI822C	65 44 59	146 20 32	10.0	.70	.50	2.0	500	N	N	N	200	10,000
CI823C	65 46 24	146 21 45	15.0	.50	.10	>2.0	300	N	N	N	150	10,000
CI824C	65 46 8	146 21 0	7.0	.70	.50	>2.0	1,500	N	N	N	100	>10,000
CI825C	65 48 12	146 18 16	10.0	.70	2.00	>2.0	1,000	N	N	N	150	>10,000
CI826C	65 48 25	146 17 31	10.0	.70	2.00	2.0	1,500	2.0	N	N	150	10,000
CI829C	65 50 27	146 14 47	5.0	1.50	5.00	>2.0	700	N	N	N	150	10,000

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI782C	7	N	N	20	150	20	200	N	100	50	70
CI783C	5	N	N	20	100	20	70	N	70	50	100
CI784C	5	N	N	20	200	30	150	N	100	70	150
CI785C	5	N	N	20	200	30	150	N	100	70	70
CI786C	5	N	N	20	200	30	200	N	100	70	300
CI787C	3	N	N	20	150	10	100	N	150	50	50
CI788C	5	N	N	15	100	15	150	N	100	30	100
CI789C	5	N	N	30	200	20	200	N	150	70	100
CI790C	5	N	N	20	150	20	100	N	150	50	70
CI791C	5	N	N	30	300	50	200	N	100	70	200
CI792C	5	N	N	30	300	30	200	N	100	70	3,000
CI793C	5	N	N	50	300	70	200	N	100	100	150
CI794C	5	N	N	30	300	15	150	N	100	70	300
CI795C	3	N	N	20	150	10	100	N	150	30	100
CI796C	3	N	N	30	200	15	150	10	150	30	70
CI798C	5	N	N	20	100	150	1,500	10	<50	70	300
CI799C	5	N	N	20	100	300	>2,000	10	<50	100	50
CI800C	2	N	N	<10	20	20	100	N	N	20	N
CI801C	7	N	N	30	150	100	300	10	70	100	150
CI802C	7	N	N	20	150	70	1,000	N	150	50	70
CI803C	7	N	N	20	150	700	700	N	50	50	20
CI804C	N	N	N	N	50	70	50	N	N	20	50
CI805C	10	N	N	10	70	100	>2,000	N	N	70	150
CI806C	2	N	N	N	70	300	1,000	N	N	50	150
CI807C	7	N	N	30	200	150	500	N	100	20	100
CI808C	7	N	N	20	150	150	300	N	100	20	70
CI809C	7	N	N	30	150	150	500	N	100	20	200
CI810C	7	N	N	30	150	150	500	N	100	20	150
CI811C	7	N	N	20	150	100	200	N	100	20	70
CI812C	7	N	N	30	150	150	1,000	N	150	20	70
CI813C	7	N	N	30	150	150	700	N	100	20	100
CI814C	7	N	N	50	150	150	700	N	150	20	70
CI815C	5	N	N	50	150	150	2,000	N	200	100	50
CI816C	5	N	N	30	150	150	2,000	N	200	100	100
CI817C	5	N	N	30	200	100	1,000	N	100	70	70
CI818C	5	N	N	30	200	150	2,000	N	300	70	50
CI819C	7	N	N	200	150	200	1,500	N	100	200	50
CI820C	7	N	N	30	150	150	2,000	N	200	100	50
CI821C	5	N	N	10	100	150	>2,000	15	N	70	20
CI822C	5	N	N	10	150	150	2,000	20	200	100	200
CI823C	5	N	N	10	150	150	2,000	N	200	20	<20
CI824C	5	700	N	30	150	150	2,000	N	500	30	<20
CI825C	5	N	N	30	200	300	2,000	N	300	50	<20
CI826C	5	700	N	30	150	700	1,000	N	70	100	<20
CI829C	5	N	N	20	150	100	700	N	150	20	30

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI782C	N	50	30	300	200	N	150	N	>2,000	N
CI783C	N	30	150	200	150	100	100	N	>2,000	N
CI784C	N	50	300	200	200	500	150	N	>2,000	N
CI785C	N	50	500	200	200	<100	150	N	>2,000	N
CI786C	N	50	1,000	200	200	200	150	N	>2,000	N
CI787C	N	50	50	300	300	N	200	N	>2,000	N
CI788C	N	50	1,000	300	200	<100	300	N	>2,000	N
CI789C	N	50	50	300	200	N	200	N	>2,000	N
CI790C	N	50	N	200	150	N	150	N	>2,000	N
CI791C	N	50	>2,000	300	200	700	200	N	>2,000	N
CI792C	N	50	50	300	200	N	150	N	2,000	N
CI793C	N	50	100	500	300	N	200	N	>2,000	N
CI794C	N	50	70	300	200	N	200	N	>2,000	N
CI795C	N	30	500	200	150	N	150	N	>2,000	N
CI796C	N	50	150	300	200	100	200	N	>2,000	N
CI798C	N	15	500	1,000	200	150	150	N	1,500	<200
CI799C	N	10	300	700	150	N	100	N	1,000	200
CI800C	N	N	200	1,500	50	N	20	N	700	N
CI801C	N	20	1,000	300	200	N	100	N	>2,000	N
CI802C	N	20	500	700	300	N	150	N	2,000	N
CI803C	N	N	200	2,000	300	N	200	N	1,500	N
CI804C	N	10	N	2,000	200	N	20	N	200	N
CI805C	N	10	>2,000	1,000	300	N	300	N	1,000	200
CI806C	N	20	1,000	1,000	300	N	100	N	700	N
CI807C	1,000	20	300	700	200	N	200	N	2,000	N
CI808C	<200	20	300	200	200	N	200	N	2,000	N
CI809C	300	20	1,000	500	300	N	200	N	2,000	N
CI810C	500	20	N	500	300	N	200	N	2,000	N
CI811C	1,500	20	150	500	200	N	100	N	1,500	N
CI812C	1,500	20	20	200	200	N	300	N	2,000	N
CI813C	300	20	N	500	200	N	200	N	2,000	N
CI814C	N	20	N	500	200	200	300	N	2,000	N
CI815C	N	20	150	500	700	N	300	N	2,000	N
CI816C	N	20	N	700	700	N	300	N	2,000	N
CI817C	N	20	30	1,500	500	N	300	N	2,000	N
CI818C	N	20	30	200	700	N	300	500	1,500	N
CI819C	N	20	N	200	300	N	200	N	1,500	N
CI820C	N	20	30	200	700	N	500	N	2,000	N
CI821C	N	10	2,000	700	300	N	300	N	1,500	300
CI822C	N	20	200	N	500	100	200	N	2,000	N
CI823C	N	20	N	N	500	N	200	N	1,500	N
CI824C	N	20	150	500	500	<100	500	N	2,000	N
CI825C	N	20	N	500	500	N	500	N	2,000	N
CI826C	N	10	N	500	300	N	100	N	500	N
CI829C	N	20	N	500	300	N	300	N	>2,000	N

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI830C	65 50 55	146 14 43	7.0	1.50	2.00	2.0	1,500	N	N	N	150	5,000
CI831C	65 50 27	146 20 36	7.0	1.00	2.00	2.0	1,500	N	N	N	200	5,000
CI832C	65 51 7	146 3 58	7.0	1.00	1.50	2.0	1,000	N	N	<20	300	10,000
CI833C	65 51 40	146 3 39	5.0	2.00	5.00	2.0	1,000	N	N	N	300	>10,000
CI834C	65 51 20	146 9 4	7.0	1.50	5.00	>2.0	1,000	N	N	N	300	>10,000
CI835C	65 48 32	146 15 22	7.0	1.00	5.00	>2.0	1,500	N	N	N	100	>10,000
CI836C	65 48 30	146 14 22	7.0	1.00	5.00	>2.0	1,500	N	N	N	200	>10,000
CI837C	65 46 24	146 12 42	7.0	1.00	3.00	>2.0	1,500	N	N	N	200	2,000
CI838C	65 47 21	146 12 4	5.0	.70	3.00	>2.0	1,500	N	N	N	300	>10,000
CI839C	65 46 56	146 12 38	7.0	1.00	3.00	>2.0	1,500	N	N	N	300	10,000
CI841C	65 30 44	145 18 53	7.0	1.50	2.00	>2.0	1,000	N	N	N	300	1,000
CI842C	65 30 23	145 18 23	7.0	1.50	2.00	>2.0	1,500	N	N	N	150	1,000
CI843C	65 27 2	145 22 43	7.0	1.50	2.00	>2.0	1,500	N	N	N	200	1,500
CI844C	65 26 40	145 22 53	7.0	1.00	2.00	>2.0	1,500	N	1,000	N	200	1,000
CI845C	65 26 31	145 29 12	7.0	.70	1.00	>2.0	1,000	N	N	N	150	700
CI846C	65 25 48	145 30 45	7.0	1.50	2.00	>2.0	1,000	N	N	N	500	1,000
CI847C	65 25 30	145 31 44	7.0	1.50	3.00	>2.0	1,500	N	N	N	300	1,000
CI848C	65 22 48	145 31 32	5.0	1.50	3.00	>2.0	700	N	N	N	300	700
CI849C	65 23 14	145 30 58	5.0	1.50	7.00	>2.0	700	1.0	N	N	300	500
CI850C	65 24 12	145 33 16	5.0	1.50	5.00	>2.0	700	N	N	N	500	500
CI851C	65 24 17	145 37 46	7.0	1.00	5.00	>2.0	1,000	N	N	N	200	1,000
CI852C	65 23 33	145 48 49	5.0	.70	7.00	>2.0	1,000	N	N	N	500	700
CI853C	65 23 25	145 47 59	7.0	1.00	7.00	>2.0	1,000	N	N	N	1,000	700
CI854C	65 24 2	145 47 31	7.0	1.00	7.00	>2.0	1,000	N	N	N	1,000	500
CI855C	65 26 36	144 56 24	7.0	1.50	5.00	>2.0	1,000	N	N	N	150	1,000
CI856C	65 27 17	144 56 18	7.0	1.50	7.00	>2.0	1,000	2.0	N	N	150	1,500
CI857C	65 29 56	144 52 0	7.0	1.50	7.00	>2.0	1,500	7.0	3,000	N	500	1,500
CI859C	65 50 41	145 44 33	10.0	1.50	7.00	>2.0	2,000	2.0	N	N	150	>10,000
CI860C	65 51 50	145 57 5	7.0	1.50	3.00	>2.0	1,500	N	N	N	500	5,000
CI860C	65 51 50	145 57 5	7.0	1.00	2.00	>2.0	1,500	N	N	N	100	1,000
CI861C	65 45 27	144 53 38	7.0	1.00	7.00	2.0	1,000	N	N	N	100	>10,000
CI862C	65 46 11	144 50 9	5.0	1.50	7.00	>2.0	1,500	N	N	N	200	>10,000
CI863C	65 46 13	144 47 59	5.0	1.50	10.00	>2.0	1,500	N	N	N	500	>10,000
CI864C	65 48 8	144 49 27	5.0	1.50	10.00	>2.0	1,500	N	N	N	200	>10,000
CI865C	65 47 18	144 44 24	5.0	1.50	10.00	>2.0	1,500	N	N	N	1,000	>10,000
CI866C	65 49 55	144 36 16	5.0	1.50	10.00	>2.0	1,500	N	N	N	1,000	10,000
CI867C	65 50 24	144 28 16	7.0	2.00	20.00	>2.0	1,500	N	N	N	1,500	3,000
CI868C	65 25 2	145 14 50	2.0	.70	2.00	>2.0	300	1,500.0	5,000	>1,000	150	1,000
CI869C	65 25 9	145 12 15	2.0	.70	2.00	>2.0	300	7,000.0	N	>1,000	150	500
CI870C	65 25 11	145 7 38	7.0	1.00	5.00	>2.0	1,000	50.0	N	100	200	2,000
CI871C	65 24 26	145 6 59	7.0	1.50	5.00	>2.0	1,500	30.0	N	70	500	1,500
CI872C	65 23 20	145 6 50	7.0	1.50	5.00	>2.0	1,500	150.0	N	20	300	1,500
CI873C	65 22 13	145 7 33	10.0	1.50	2.00	>2.0	1,500	2.0	N	N	500	1,500
CI874C	65 21 48	145 8 18	7.0	1.50	2.00	>2.0	1,000	2.0	N	N	300	2,000
CI875C	65 21 42	145 6 49	7.0	1.50	2.00	>2.0	1,500	2.0	N	N	200	1,500

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI830C	5	N	N	30	150	1,500	500	N	150	100	20
CI831C	5	N	N	30	150	150	1,000	N	100	100	20
CI832C	5	N	N	30	150	100	1,500	N	70	100	50
CI833C	5	N	N	20	150	50	500	N	50	50	30
CI834C	5	N	N	30	200	150	500	N	500	50	100
CI835C	5	N	150	30	150	150	700	N	150	50	30
CI836C	5	N	50	30	150	200	1,500	N	150	50	20
CI837C	5	N	N	30	200	150	1,500	N	100	50	<20
CI838C	2	N	200	20	150	150	300	10	150	70	150
CI839C	5	N	N	30	150	150	1,500	N	100	50	20
CI841C	5	N	N	30	150	150	500	N	150	20	50
CI842C	5	N	N	20	150	150	500	N	150	20	50
CI843C	5	N	N	30	200	150	500	N	200	20	150
CI844C	5	N	N	50	150	150	1,000	N	150	70	70
CI845C	5	N	N	30	100	150	300	N	150	20	20
CI846C	5	N	N	30	150	150	500	N	200	20	70
CI847C	5	N	N	30	150	150	500	N	200	20	70
CI848C	5	N	N	20	150	100	300	N	150	20	30
CI849C	5	N	N	20	100	100	100	N	150	20	<20
CI850C	5	N	N	20	100	100	300	N	150	20	20
CI851C	7	N	N	20	150	150	200	N	70	20	50
CI852C	7	N	N	20	150	150	500	N	100	20	200
CI853C	7	N	N	20	150	100	200	N	150	20	70
CI854C	7	N	N	20	150	100	200	N	100	20	50
CI855C	5	N	N	30	150	150	500	N	300	20	200
CI856C	5	N	N	50	200	150	500	N	300	30	50
CI857C	5	N	N	50	200	200	1,000	N	150	30	500
CI859C	5	N	N	50	700	700	1,000	N	150	70	150
CI860C	5	N	N	30	150	100	1,000	N	300	70	500
CI860C	5	N	N	20	150	150	200	N	150	20	70
CI861C	2	N	N	20	200	70	1,000	N	70	70	150
CI862C	5	N	N	20	300	70	1,000	N	70	50	150
CI863C	5	N	N	20	200	100	2,000	N	500	50	100
CI864C	5	N	N	20	200	100	1,000	N	200	50	150
CI865C	5	N	N	20	200	70	1,000	N	200	20	50
CI866C	5	N	N	20	200	70	1,000	N	500	20	100
CI867C	5	N	N	20	300	50	500	N	500	20	100
CI868C	5	30	N	20	70	2,000	N	N	200	20	3,000
CI869C	5	N	N	20	70	150	N	70	70	20	200
CI870C	5	N	N	30	150	150	500	N	200	20	100
CI871C	5	N	N	30	200	150	300	N	200	20	70
CI872C	5	500	N	50	200	200	300	N	200	20	100
CI873C	5	N	N	50	200	200	500	N	200	20	70
CI874C	5	N	N	30	150	200	300	N	500	20	100
CI875C	5	N	N	30	200	150	300	N	500	20	70

Table 4.--Analyses of heavy-mineral-concentrate samples from the Circle Quadrangle, Alaska--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
CI830C	N	10	50	500	300	N	150	N	2,000	N
CI831C	N	10	N	500	500	N	150	N	2,000	N
CI832C	N	20	N	500	300	N	500	1,500	2,000	N
CI833C	N	10	N	1,000	300	N	150	N	2,000	N
CI834C	N	20	30	1,000	500	N	200	N	2,000	N
CI835C	N	10	N	1,000	500	N	200	5,000	1,500	N
CI836C	N	20	150	500	300	N	200	2,000	2,000	N
CI837C	N	20	N	200	300	N	500	500	500	N
CI838C	N	20	N	700	300	N	200	15,000	2,000	N
CI839C	N	20	N	500	300	N	200	500	1,000	N
CI841C	N	20	N	300	300	N	200	N	1,000	N
CI842C	N	20	N	500	300	N	200	N	1,000	N
CI843C	N	30	150	500	200	N	200	N	1,500	N
CI844C	N	20	N	200	200	2,000	200	N	2,000	N
CI845C	300	20	N	200	200	N	150	N	2,000	N
CI846C	N	20	100	500	200	N	200	N	1,500	N
CI847C	N	20	N	500	200	N	300	N	2,000	N
CI848C	N	20	N	500	200	N	100	N	2,000	N
CI849C	N	20	N	500	300	N	70	N	1,500	N
CI850C	N	20	N	500	200	N	100	N	2,000	N
CI851C	N	20	N	500	200	N	200	N	2,000	N
CI852C	N	20	N	700	200	N	200	N	2,000	N
CI853C	N	20	N	1,000	200	N	200	N	2,000	N
CI854C	N	10	N	1,000	200	N	200	N	200	N
CI855C	N	20	N	500	200	N	700	N	>2,000	N
CI856C	N	20	N	500	300	N	500	N	>2,000	N
CI857C	N	20	1,000	700	300	2,000	500	N	>2,000	N
CI859C	200	30	30	10,000	500	N	500	1,000	2,000	N
CI860C	N	20	N	1,000	300	<100	500	N	>2,000	N
CI860C	2,000	20	20	500	500	N	150	N	2,000	N
CI861C	N	10	N	7,000	200	N	300	N	2,000	N
CI862C	200	20	N	7,000	300	N	500	N	>2,000	N
CI863C	<200	20	700	5,000	500	N	500	N	>2,000	N
CI864C	200	20	N	7,000	700	N	700	N	>2,000	N
CI865C	<200	20	300	2,000	500	150	1,000	N	>2,000	N
CI866C	200	20	300	2,000	500	500	700	N	>2,000	N
CI867C	200	20	50	2,000	500	100	700	N	>2,000	N
CI868C	N	20	>2,000	200	300	5,000	100	N	>2,000	N
CI869C	N	10	>2,000	200	200	700	100	N	>2,000	N
CI870C	N	30	500	500	300	N	300	N	>2,000	N
CI871C	N	30	300	500	300	N	300	N	>2,000	N
CI872C	N	30	2,000	500	300	N	500	N	>2,000	N
CI873C	N	30	700	500	300	N	300	N	>2,000	N
CI874C	N	30	700	500	300	N	300	N	>2,000	N
CI875C	N	30	200	500	300	N	200	N	>2,000	N