UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

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

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STUDIES RELATED TO AMRAP

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

INTRODUCTION

In 1980, 1981, and 1982 we conducted a reconnaissance geochemical survey of the Healy quadrangle, Alaska.

The Healy quadrangle which comprises about 6720 Mi^2 (17,200 km^2) lies about 60 mi (90 km) south of Fairbanks, Alaska, and is transversed by the Alaska range. Access to the vicinity of the study area is provided on the north and south by the George Parks highway, on the east by the Denali highway. Access in the Healy quadrangle was provided by helicopter with the exception of a few sites that were accessible by road vehicle from the George Parks and Denali highways.

The geology of the Healy quadrangle includes 13 tectonostratigraphic terranes as outlined and described by Jones and others (1981), each terrane having distrinctive stratigraphic sequences or rock assemblanges. Cretaceous and/or Tertiary granitic rocks have intruded rocks of the various terranes; exposures are chiefly in the eastern and southern three fourths of the quadrangle. Several major faults transect the quadrangle including the McKinley and Hines Creek strands of the Denali fault, and the Talkeetna thrust fault. A geologic map of the Healy quadrangle at 1:250,000 scale is in preparation by Bela Csejtey, Jr. and others. The Healy quadrangle is included in a preliminary geologic map of the southeast quadrant of Alaska at 1:1,000,000 (Beikman, 1974). Geology of parts of the Healy quadrangle are contained in a number of reports. A few selected references are as follows: Csejtey, Jr. and others (1978); Hawley and Clark (1974); Smith (1981); Wahrhaftig (1970a, b, c, d).

The average topographic relief in the study area is about 3000 ft (915 m), with a maximum elevation of 12,540 ft (3825 m).

METHODS OF STUDY

Sample Collection

We collected samples at 1066 sites (plate 1). At nearly all of those sites, we collected both a stream-sediment sample and a heavy-mineral concentrate. We analyzed 1064 stream-sediment samples and 1045 panned-concentrate samples, for a sampling density of about 1 sample site per 6 mi^2 for the stream sediment and heavy-mineral concentrate. The drainage basins sampled ranged from 3 to 6 mi^2.

Stream-sediment samples

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.

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).

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

Glacial-debris samples and heavy-mineral concentrates of glacial-debris samples were collected at the following sites: 143-150, 156-157, 217-233, 488-490, 704-705, and 748-750.

Heavy-mineral-concentrate samples

We panned heavy-mineral-concentrate samples from the same active alluvium as the stream-sediment samples. Each bulk sample was passed through a 2.0-mm (10-mesh) screen to remove the coarse material. The sediment passing through the screen was panned until most of the quartz, feldspar, organic material, and clay-sized material was removed. The sample was oven dried at 16°C.

Sample Preparation

We sieved the stream-sediment samples at the collection site through a 10-mesh screen and the minus-10-mesh material was retained. The samples were oven dried and sieved at 80-mesh (.18 mm) using stainless steel sieves. The portion of the sediment passing through the sieve was saved for analysis.

The heavy-mineral-concentrate samples were preliminarily prepared in the field by panning the minus-10-mesh fraction of the stream sediment to remove the bulk of the light minerals. The panned samples were sieved through a 35-mesh (0.42-mm) screen in the laboratory and the minus-35-mesh fraction was further separated with bromoform (specific gravity 2.86) to remove the remaining light minerals. The heavy minerals were separated into three fractions using a large electromagnet (in this case a modified Frantz Isodynamic Separator). The most magnetic material (largely magnetite) was discarded. The second fraction (largely ferromagnesian silicates and iron oxides) was saved for archival storage. The third fraction (the least magnetic material including nonmagnetic ore minerals, zircon, sphene, etc.) was divided into two splits using a Jones splitter. One split was hand ground for spectrographic analysis; the other split was saved for mineralogical analysis.

The magnetic separates discussed are the same separates that would be produced by removing the magnetite with a hand magnet and then using a Frantz Isodynamic Separator set at a slope of 15° and a tilt of 10° with a current of 0.1 ampere to remove the ilmenite, and a current of 0.6 ampere to split the remainder of the sample into magnetic and nonmagnetic fractions.

Sample Analysis

Spectrographic method

We analyzed the stream-sediment and heavy-mineral-concentrate samples 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 unit at the 83 percent confidence level and plus or minus two reporting units 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 Healy quadrangle are listed in tables 3 and 4.

The spectrographic analyses were done by D. A. Risoli, J. A. Domenico, G. W. Day, S. J. Sutley, and E. F. Cooley.

TABLE 1.--Limits of determination for the spectrographic analysis of heavy-mineral concentrates, based on a 5-mg sample; and stream sediments, based on a 10-mg sample

[The spectrographic limits of determination for heavy-mineral-concentrate samples are two reporting units higher than the limits given below for rocks and stream sediments]

Elements	Lower determination limit	Upper determination limit
	Percent	
Iron (Fe)	0.05	20
Magnesium (Mg)	.02	10
Calcium (Ca)	.05	20
Titanium (Ti)	.002	1
	Parts per million	
Manganese (Mn)	10	5,000
Silver (Ag)	0.5	5,000
Arsenic (As)	200	10,000
Gold (Au)	10	500
Boron (B)	10	2,000
Barium (Ba)	20	5,000
Beryllium (Be)	1	1,000
Bismuth (Bi)	10	1,000
Cadmium (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

Chemical methods

Other methods of analysis used on samples from the Healy quadrangle are summarized in table 2.

Table 2.--Chemical methods used

Sample type	Constituent determined	Analytical method	Determination limit[1] micrograms/ gram or ppm	Analyst	Reference
Sediments	Au	AA	.05	R. O'Leary J. Hoffman	Thompson and others, 1968.
	Zn	AA	5	A. Gruzensky A. Meier	Ward and others, 1969.
	Sb	AA	2	F. Takacs D. Hopkins	Modification of Viets, 1978.
	As	AA	10	A. Mantei W. Martin	Modification of Viets, 1978.
	Cd	AA	.1		Modification of Viets, 1978.

[1]The determination limit is dependent upon sample weight. Given limits imply use of sample weight required by method. Higher limits of determination result from using less than required sample weight.

ROCK ANALYSIS STORAGE SYSTEM

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

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TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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
HE001S	63 23 0	148 26 0	5.0	1.00	1.00	.50	2,000	.5	N	N	70	1,000
HE002S	63 53 0	148 41 55	3.0	.50	.30	.70	1,000	N	N	N	50	1,000
HE003S	63 53 15	148 43 35	3.0	.70	.50	1.00	500	<.5	N	N	50	1,000
HE004S	63 52 40	148 40 25	7.0	1.00	.70	.50	1,000	<.5	N	N	70	500
HE005S	63 53 15	148 55 0	5.0	1.00	1.00	1.00	700	N	N	N	30	1,000
HE006S	63 52 30	148 43 35	2.0	.50	.10	.50	300	N	N	N	50	700
HE007S	63 51 50	148 45 30	2.0	.30	.10	.50	500	N	N	N	70	1,000
HE008S	63 51 30	148 51 0	3.0	.70	.50	.50	700	<.5	N	N	30	1,500
HE009S	63 49 0	148 58 30	7.0	1.00	.50	.70	1,000	N	N	N	70	1,000
HE010S	63 48 20	148 57 10	7.0	1.00	.50	.50	1,000	N	N	N	150	700
HE011S	63 2 10	147 10 50	7.0	1.50	1.50	.70	1,500	N	N	N	20	500
HE012S	63 2 40	147 14 40	7.0	2.00	3.00	.70	2,000	N	N	N	20	500
HE013S	63 3 5	147 16 20	7.0	2.00	3.00	1.00	1,500	N	N	N	20	700
HE014S	63 3 15	147 22 15	7.0	2.00	3.00	1.00	1,500	N	N	N	15	200
HE015S	63 3 45	147 26 25	7.0	3.00	3.00	1.00	2,000	N	N	N	10	500
HE016S	63 11 5	149 14 10	3.0	1.00	.30	.50	500	.7	N	N	100	1,500
HE017S	63 11 0	149 9 5	5.0	1.00	.15	.50	500	<.5	N	N	70	1,000
HE018S	63 9 30	149 9 35	5.0	1.50	.20	.70	1,000	.5	N	N	100	1,500
HE019S	63 7 40	149 11 0	5.0	1.50	.15	.50	1,000	.7	N	N	100	1,500
HE020S	63 7 20	149 10 45	5.0	1.50	.15	.50	500	.7	N	N	100	1,000
HE021S	63 5 30	149 8 0	5.0	1.00	.15	.50	2,000	1.0	N	N	100	1,000
HE022S	63 5 25	149 8 25	3.0	1.00	.20	.50	1,500	1.0	N	N	70	1,500
HE023S	63 4 50	149 2 50	5.0	.70	.50	.30	1,000	N	N	N	30	1,000
HE024S	63 3 10	149 9 35	5.0	1.50	.20	.70	3,000	<.5	N	N	50	1,000
HE025S	63 3 50	149 13 30	7.0	2.00	.20	1.00	1,000	.7	N	N	50	1,500
HE026S	63 2 20	149 13 25	7.0	1.00	.15	1.00	1,500	.5	N	N	50	700
HE027S	63 4 55	149 17 25	7.0	1.50	.30	.50	1,000	<.5	N	N	70	700
HE028S	63 5 55	149 17 50	5.0	1.00	.20	.50	700	<.5	N	N	50	700
HE029S	63 5 55	149 18 0	7.0	1.00	.50	.50	1,500	.5	N	N	50	1,000
HE030S	63 0 50	149 18 10	7.0	1.50	.30	1.00	1,000	.7	N	N	20	2,000
HE031S	63 2 20	149 21 55	3.0	1.00	.50	.30	500	<.5	N	N	70	500
HE032S	63 2 35	149 23 10	3.0	.70	.20	.30	300	<.5	N	N	50	500
HE033S	63 3 40	149 23 25	5.0	1.00	.30	.30	500	.7	N	N	50	500
HE034S	63 4 30	149 8 15	7.0	1.50	.30	.70	1,000	<.5	N	N	50	700
HE035S	63 2 50	149 31 20	5.0	.50	.20	.30	1,500	5.0	N	N	20	700
HE036S	63 2 15	149 32 25	5.0	.70	.20	.50	1,500	.5	N	N	30	700
HE037S	63 0 30	149 30 45	3.0	.30	.30	.30	1,000	1.0	N	N	10	500
HE038S	63 0 25	149 30 50	2.0	.30	.30	.20	300	<.5	N	N	15	500
HE039S	63 5 50	149 27 50	5.0	1.50	.20	.70	500	<.5	N	N	50	1,000
HE040S	63 10 30	149 18 50	5.0	1.00	.30	.70	700	.5	<200	N	70	700
HE041S	63 9 10	149 19 40	7.0	2.00	.20	.50	1,500	N	N	N	100	1,000
HE042S	63 7 15	149 25 30	2.0	.70	.30	.30	300	<.5	N	N	50	500
HE043S	63 1 20	149 0 55	5.0	1.00	.50	.30	1,500	<.5	N	N	30	1,000
HE044S	63 1 10	149 2 5	5.0	1.50	.50	.50	1,500	.5	N	N	50	500
HE045S	63 3 15	148 58 10	2.0	.30	.70	.20	2,000	N	N	N	10	300

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska

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	Sb-ppm s	Sc-ppm s
HE001S	1.5	N	N	30	200	50	30	N	N	100	15	N	30
HE002S	1.0	N	N	20	100	20	50	N	N	50	20	N	20
HE003S	1.0	N	N	20	200	30	50	N	N	50	20	N	30
HE004S	1.5	N	N	30	100	50	50	N	N	50	150	N	20
HE005S	1.0	N	N	20	200	30	50	N	N	50	15	N	30
HE006S	1.0	N	N	15	50	20	30	N	N	30	20	N	15
HE007S	1.0	N	N	15	100	10	50	N	<20	15	20	N	15
HE008S	1.0	N	N	15	70	20	30	N	N	30	15	N	20
HE009S	1.5	N	N	30	100	50	100	N	<20	50	50	N	20
HE010S	1.5	N	N	30	100	70	200	N	<20	50	50	N	20
HE011S	<1.0	N	N	30	300	50	N	N	N	50	10	N	30
HE012S	<1.0	N	N	20	200	50	50	N	N	30	15	N	50
HE013S	<1.0	N	N	30	300	70	20	N	N	50	10	N	50
HE014S	<1.0	N	N	50	500	100	<20	N	N	70	<10	N	50
HE015S	<1.0	N	N	30	500	100	100	N	N	50	15	N	50
HE016S	1.0	N	N	15	300	70	20	5	N	70	20	N	20
HE017S	1.0	N	N	20	150	50	N	N	N	70	15	N	20
HE018S	1.0	N	N	30	300	100	<20	7	N	70	20	N	30
HE019S	1.0	N	N	30	500	70	<20	N	N	100	20	N	30
HE020S	1.0	N	N	30	500	70	20	N	N	100	30	N	30
HE021S	1.0	N	N	30	300	50	20	N	N	70	20	N	30
HE022S	1.5	N	N	20	100	50	30	5	<20	70	30	N	20
HE023S	1.0	N	N	20	70	30	200	5	<20	20	20	N	20
HE024S	1.0	N	N	30	200	50	30	<5	<20	70	20	N	30
HE025S	1.5	N	<20	30	150	100	100	15	20	100	20	N	50
HE026S	1.0	N	N	30	150	70	70	N	<20	70	30	N	30
HE027S	1.5	N	N	50	150	70	50	5	N	70	20	N	30
HE028S	1.0	N	N	30	150	50	50	N	N	70	15	N	20
HE029S	1.5	N	N	20	150	100	50	5	N	50	20	N	30
HE030S	1.5	N	<20	30	70	150	50	20	20	50	20	N	30
HE031S	1.5	N	N	30	150	50	20	N	N	70	15	N	20
HE032S	1.5	N	N	15	70	30	100	7	<20	50	30	N	15
HE033S	1.5	N	<20	30	100	100	70	5	<20	100	70	N	20
HE034S	1.0	N	N	20	150	50	50	N	N	50	15	N	20
HE035S	7.0	N	N	20	30	30	100	<5	<20	30	100	N	15
HE036S	1.5	N	N	20	300	20	150	<5	<20	50	20	N	15
HE037S	2.0	N	N	5	20	5	200	<5	<20	5	30	N	15
HE038S	2.0	N	N	5	15	5	150	7	<20	<5	20	N	10
HE039S	1.0	N	N	30	200	50	30	N	N	70	20	N	30
HE040S	1.0	N	N	50	200	70	50	5	<20	70	30	N	30
HE041S	1.0	N	N	30	300	100	20	5	<20	100	10	N	30
HE042S	1.5	N	N	10	100	30	20	N	N	50	15	N	20
HE043S	1.0	N	N	30	150	30	30	7	N	70	30	N	20
HE044S	1.0	N	N	20	150	50	30	<5	N	70	15	N	30
HE045S	1.5	N	N	7	20	10	200	N	<20	10	15	N	10

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Sb-ppm aa
HE001S	N	300	150	N	30	500	300	N	N	--	350	--	--
HE002S	N	200	100	N	30	N	300	N	N	--	60	--	--
HE003S	N	150	150	N	50	N	300	N	N	--	65	--	--
HE004S	N	100	100	N	30	<200	200	N	N	--	100	--	--
HE005S	N	200	200	N	20	N	150	N	N	--	70	--	--
HE006S	N	100	100	N	15	N	200	N	N	--	65	--	--
HE007S	N	100	100	N	30	N	500	N	N	--	40	--	--
HE008S	N	200	100	N	20	N	200	N	.80	--	55	--	--
HE009S	N	100	100	N	30	<200	300	<100	N	--	105	--	--
HE010S	N	<100	100	N	50	<200	300	<100	N	--	105	--	--
HE011S	N	300	200	N	20	N	150	N	N	--	60	--	--
HE012S	N	700	200	N	200	N	300	N	N	--	45	--	--
HE013S	N	500	200	N	30	N	150	N	N	--	50	--	--
HE014S	N	300	300	N	30	<200	150	N	N	--	70	--	--
HE015S	N	500	300	N	30	N	300	N	N	--	55	--	--
HE016S	N	100	200	N	20	N	100	N	N	--	160	--	--
HE017S	N	N	150	N	20	<200	150	N	N	--	120	--	--
HE018S	N	<100	200	N	30	200	150	N	N	--	170	--	--
HE019S	N	<100	200	N	20	200	150	N	N	--	150	--	--
HE020S	10	<100	200	N	20	<200	150	N	3.50	--	150	--	--
HE021S	N	100	200	N	30	200	200	N	N	--	130	--	--
HE022S	N	100	150	N	30	300	150	N	N	--	250	--	--
HE023S	N	200	100	N	30	N	700	N	N	--	100	--	--
HE024S	N	100	200	N	70	<200	150	N	.10	--	130	--	--
HE025S	15	<100	300	N	1	300	200	N	.30	--	300	--	--
HE026S	10	100	200	N	20	<200	200	N	N	--	130	--	--
HE027S	N	150	200	N	30	200	150	N	N	--	140	--	--
HE028S	N	150	150	N	20	<200	150	N	N	--	150	--	--
HE029S	N	200	150	N	30	200	100	N	N	--	150	--	--
HE030S	N	200	300	N	70	500	200	N	N	--	300	--	--
HE031S	N	200	150	N	20	<200	150	N	N	--	200	--	--
HE032S	70	<100	100	N	70	<200	300	N	N	--	100	--	--
HE033S	30	200	150	N	30	<200	200	N	N	--	190	--	--
HE034S	<10	100	150	N	20	N	200	N	N	--	95	--	--
HE035S	15	100	70	N	100	200	500	N	N	--	170	--	--
HE036S	<10	100	100	N	50	<200	500	N	N	--	95	--	--
HE037S	10	100	50	N	70	N	1,000	N	N	--	70	--	--
HE038S	N	100	50	N	50	N	700	N	N	--	70	--	--
HE039S	<10	150	150	N	20	<200	150	N	N	--	120	--	--
HE040S	N	150	200	N	30	N	200	N	N	--	110	--	--
HE041S	N	100	200	N	30	<200	150	N	N	--	140	--	--
HE042S	N	150	150	N	20	N	100	N	N	--	130	--	--
HE043S	N	300	150	N	30	<200	150	N	N	--	130	--	--
HE044S	N	200	150	N	20	<200	150	N	N	--	110	--	--
HE045S	N	150	70	N	50	N	300	N	N	--	65	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	Au-ppm	B-ppm	Ba-ppm
			s	s	s	s	s	s	s	s	s	s
HE046S	63 0 20	148 50 5	5.0	1.50	1.50	.70	700	N	N	N	15	700
HE047S	63 0 30	148 50 20	5.0	1.00	1.00	>1.00	1,000	N	N	N	10	700
HE048S	63 0 15	148 47 10	5.0	.50	.20	.50	1,000	.5	N	N	50	500
HE049S	63 0 55	148 45 30	5.0	.70	.70	.50	1,000	<.5	N	N	10	700
HE050S	63 2 40	148 47 45	5.0	1.00	1.50	.70	1,000	N	N	N	10	700
HE051S	63 1 55	148 52 15	3.0	.70	1.00	.50	300	N	N	N	10	700
HE052S	63 4 5	148 52 0	3.0	.70	1.00	.50	500	N	N	N	10	700
HE053S	63 6 30	148 48 35	5.0	.70	1.00	.50	1,000	.5	N	N	15	700
HE054S	63 6 20	148 48 40	7.0	1.50	1.50	.70	700	<.5	N	N	15	700
HE055S	63 6 55	148 50 45	5.0	.70	.70	.30	500	1.0	N	N	20	500
HE056S	63 7 0	148 50 30	5.0	.70	.50	.70	700	.5	N	N	10	700
HE057S	63 7 50	148 52 40	3.0	.20	.10	.20	500	N	N	N	15	500
HE058S	63 8 25	148 52 20	5.0	1.00	.20	.30	1,000	1.0	N	N	20	700
HE059S	63 9 0	148 56 0	7.0	.70	.50	.70	1,000	<.5	N	N	30	700
HE060S	63 8 40	148 56 20	3.0	.70	.20	.30	700	<.5	N	N	30	500
HE061S	63 15 20	149 8 50	5.0	1.50	.30	.50	300	.5	N	N	70	700
HE062S	63 14 30	149 10 55	5.0	1.50	.50	.50	700	1.0	N	N	70	700
HE063S	63 11 25	149 4 40	7.0	1.00	.20	.50	1,000	.5	N	N	150	1,000
HE064S	63 11 15	149 4 25	7.0	1.50	.50	.70	700	<.5	N	N	70	1,000
HE065S	63 8 50	149 4 5	7.0	1.50	1.50	1.00	1,000	N	N	N	20	700
HE066S	63 7 40	149 5 55	3.0	.70	.20	.30	700	<.5	N	N	30	700
HE067S	63 5 30	148 57 20	2.0	.50	.30	.20	300	N	N	N	10	500
HE068S	63 5 40	148 57 20	1.5	.20	.15	.20	200	N	N	N	10	500
HE069S	63 7 40	148 59 10	5.0	1.00	.30	.50	300	.5	N	N	20	700
HE070S	63 10 0	148 57 30	7.0	.70	.50	.70	500	<.5	N	N	20	700
HE071S	63 10 15	148 56 25	3.0	.20	.30	.20	300	<.5	N	N	20	1,500
HE072S	63 11 0	148 51 55	3.0	.50	.20	.30	300	<.5	N	N	15	1,000
HE073S	63 11 0	148 51 30	2.0	.30	.15	.30	150	5.0	N	N	50	200
HE074S	63 11 5	148 45 40	5.0	.70	.20	.70	500	.5	N	N	30	700
HE075S	63 11 30	148 47 25	5.0	.70	.50	.50	500	<.5	N	N	20	700
HE076S	63 11 50	148 45 40	2.0	.30	.15	.20	300	.7	N	N	30	300
HE077S	63 12 40	148 47 30	3.0	.30	.10	.30	300	<.5	N	N	50	1,000
HE078S	63 13 40	148 40 45	3.0	.30	.20	.20	300	<.5	N	N	20	1,500
HE079S	63 15 20	148 50 20	7.0	1.00	.30	.70	1,000	<.5	N	N	100	700
HE080S	63 16 45	148 50 50	7.0	2.00	.15	.70	300	<.5	N	N	70	1,000
HE081S	63 17 10	148 52 0	7.0	3.00	.15	.70	1,500	.5	N	N	150	2,000
HE082S	63 16 10	148 57 5	5.0	1.00	.10	.50	300	N	N	N	70	1,000
HE083S	63 14 30	148 59 15	2.0	1.00	.15	.30	300	<.5	N	N	30	1,000
HE084S	63 13 30	148 54 30	2.0	.70	.15	.20	1,000	.7	N	N	100	2,000
HE085S	63 13 20	148 54 30	3.0	.50	.20	.50	500	.5	N	N	50	1,500
HE086S	63 13 30	148 58 10	2.0	.70	.15	.30	500	.5	N	N	50	1,000
HE087S	63 9 35	148 42 0	2.0	.70	.30	.50	300	N	N	N	20	1,000
HE088S	63 8 0	148 44 25	1.5	.50	.15	.10	500	1.5	N	N	15	700
HE089S	63 7 5	148 42 30	1.5	.50	.50	.15	300	<.5	N	N	20	1,500
HE090S	63 7 15	148 38 5	1.5	.30	.30	.20	300	1.5	N	N	20	1,500

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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	Sb-ppm s	Sc-ppm s
HE046S	1.5	N	N	15	100	15	70	N	<20	30	20	N	20
HE047S	1.5	N	N	10	50	15	50	N	20	15	20	N	30
HE048S	2.0	N	N	15	30	20	70	10	<20	20	30	N	20
HE049S	1.5	N	N	10	30	20	20	5	<20	15	20	N	20
HE050S	1.5	N	N	10	50	15	100	N	20	30	20	N	20
HE051S	2.0	N	N	7	20	7	100	N	20	7	15	N	10
HE052S	2.0	N	N	7	15	10	100	N	<20	10	20	N	15
HE053S	2.0	N	N	10	30	30	70	7	<20	15	50	N	15
HE054S	1.5	N	N	20	70	30	50	N	<20	30	20	N	20
HE055S	5.0	N	N	7	20	50	30	7	<20	10	30	N	15
HE056S	2.0	N	N	10	30	30	100	7	20	15	30	N	15
HE057S	3.0	N	N	5	20	5	70	10	<20	5	20	N	10
HE058S	2.0	N	N	30	150	30	50	5	<20	50	30	N	20
HE059S	2.0	N	N	20	100	30	100	N	20	30	20	N	30
HE060S	2.0	N	N	20	300	20	30	5	<20	50	20	N	20
HE061S	1.0	N	N	20	200	30	20	N	N	70	30	N	20
HE062S	3.0	N	N	30	200	50	<20	N	N	70	30	N	30
HE063S	1.0	N	N	30	300	70	20	10	N	100	30	N	50
HE064S	1.5	N	N	30	200	50	20	5	<20	50	20	N	30
HE065S	1.5	N	N	30	100	20	50	<5	<20	20	20	N	50
HE066S	1.0	N	N	15	150	20	300	N	<20	30	20	N	20
HE067S	2.0	N	N	<5	20	5	70	N	20	<5	50	N	10
HE068S	3.0	N	N	N	10	<5	<20	N	<20	N	20	N	7
HE069S	2.0	N	N	10	70	15	30	N	<20	20	30	N	20
HE070S	2.0	N	N	15	70	20	30	5	20	20	20	N	30
HE071S	5.0	N	N	<5	20	7	100	5	30	10	50	N	7
HE072S	3.0	N	N	5	30	7	100	7	20	10	50	N	10
HE073S	5.0	N	N	N	15	5	N	N	30	10	70	N	5
HE074S	2.0	N	N	15	70	20	70	5	<20	20	30	N	20
HE075S	2.0	N	N	15	100	20	100	5	20	20	30	N	20
HE076S	15.0	N	N	N	20	7	50	<5	20	15	50	N	5
HE077S	3.0	N	N	5	30	10	50	7	20	10	50	N	15
HE078S	2.0	N	N	N	20	7	50	N	<20	10	20	N	10
HE079S	1.5	N	N	30	200	30	30	5	<20	50	30	N	50
HE080S	1.0	N	N	30	300	50	<20	N	N	100	30	N	30
HE081S	1.0	N	N	30	500	70	20	<5	<20	100	30	N	50
HE082S	1.0	N	N	20	150	30	20	N	N	70	15	N	30
HE083S	1.5	N	N	30	300	50	30	<5	<20	70	20	N	30
HE084S	3.0	N	<20	30	100	100	70	15	<20	70	30	N	30
HE085S	5.0	N	N	20	70	30	70	5	20	30	50	N	30
HE086S	3.0	N	N	30	150	50	70	5	<20	70	30	N	30
HE087S	2.0	N	N	20	100	20	70	N	<20	50	20	N	20
HE088S	3.0	N	<20	7	50	50	70	5	<20	30	100	N	15
HE089S	2.0	N	N	10	50	15	100	<5	<20	20	30	N	15
HE090S	3.0	N	N	7	50	10	150	N	<20	15	30	N	15

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Sb-ppm aa
HE046S	N	300	100	N	30	N	500	N	N	--	100	--	--
HE047S	N	300	100	N	30	<200	500	N	N	--	110	--	--
HE048S	N	100	100	N	30	<200	300	N	N	--	120	--	--
HE049S	N	300	70	N	20	<200	150	N	N	--	110	--	--
HE050S	<10	300	100	N	30	N	300	N	N	--	90	--	--
HE051S	<10	300	70	N	50	N	500	N	N	--	80	--	--
HE052S	10	200	50	N	30	N	200	N	N	--	120	--	--
HE053S	N	300	70	N	20	300	200	N	N	--	300	--	--
HE054S	N	500	150	N	30	<200	200	N	N	--	110	--	--
HE055S	N	100	70	N	70	200	150	N	N	--	130	--	--
HE056S	50	200	70	N	50	200	500	N	N	--	300	--	--
HE057S	10	<100	50	N	70	<200	300	N	N	--	120	--	--
HE058S	N	150	150	N	20	200	150	N	N	--	140	--	--
HE059S	N	150	150	N	50	<200	500	N	N	--	110	--	--
HE060S	N	100	100	N	30	<200	300	N	N	--	130	--	--
HE061S	N	150	200	N	20	<200	100	N	N	--	140	--	--
HE062S	100	200	200	N	20	200	150	N	N	--	180	--	--
HE063S	N	100	300	N	30	200	150	N	N	--	150	--	--
HE064S	N	150	300	N	30	<200	150	N	N	--	130	--	--
HE065S	N	300	200	N	70	<200	150	N	N	--	100	--	--
HE066S	N	100	150	N	50	N	700	N	N	--	90	--	--
HE067S	N	<100	50	N	70	N	300	N	N	--	100	--	--
HE068S	N	N	50	N	50	N	1,000	N	N	--	65	--	--
HE069S	N	100	100	N	50	<200	200	N	N	--	90	--	--
HE070S	N	100	150	N	50	<200	300	N	N	--	100	--	--
HE071S	<10	<100	50	N	100	<200	700	N	N	--	140	--	--
HE072S	N	N	70	N	100	<200	500	N	N	--	140	--	--
HE073S	10	N	50	N	100	<200	200	N	N	--	100	--	--
HE074S	N	<100	100	N	50	<200	500	N	N	--	120	--	--
HE075S	N	200	100	N	70	<200	300	N	N	--	100	--	--
HE076S	<10	N	50	N	70	<200	200	N	N	--	110	--	--
HE077S	N	N	50	N	70	200	500	N	N	--	85	--	--
HE078S	N	100	30	N	50	N	200	N	N	--	80	--	--
HE079S	N	100	200	N	50	200	200	N	N	--	140	--	--
HE080S	N	100	200	N	30	200	150	N	N	--	130	--	--
HE081S	N	<100	200	N	30	200	150	N	N	--	160	--	--
HE082S	N	100	150	N	20	<200	150	N	N	--	110	--	--
HE083S	N	150	150	N	30	<200	150	N	N	--	140	--	--
HE084S	N	100	200	N	50	200	300	N	N	--	190	--	--
HE085S	N	100	150	N	70	200	300	N	N	--	150	--	--
HE086S	N	100	150	N	30	<200	200	N	N	--	140	--	--
HE087S	N	300	100	N	30	N	150	N	N	--	85	--	--
HE088S	20	200	100	N	50	300	100	N	N	--	350	--	--
HE089S	N	300	100	N	30	<200	150	N	N	--	110	--	--
HE090S	N	300	100	N	30	<200	150	N	N	--	100	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	Au-ppm	B-ppm	Ba-ppm
			s	s	s	s	s	s	s	s	s	s
HE091S	63 8 0	148 33 55	1.5	.70	.20	.30	1,000	<.5	N	N	30	1,000
HE092S	63 5 45	148 40 25	2.0	.70	1.00	1.00	1,500	N	N	N	15	1,000
HE093S	63 5 35	148 40 0	2.0	.70	.70	.20	500	<.5	N	N	50	1,000
HE094S	63 4 45	148 37 20	1.5	.70	.30	.20	500	N	N	N	15	1,000
HE095S	63 3 15	148 36 30	2.0	1.00	.70	.30	500	N	N	N	30	1,000
HE096S	63 2 50	148 35 5	2.0	1.00	1.00	.30	1,500	<.5	N	N	20	1,500
HE097S	63 2 35	148 35 40	2.0	1.00	.70	.50	700	.5	N	N	50	1,000
HE098S	63 0 40	148 38 10	3.0	1.00	1.50	.70	1,000	1.5	300	N	20	1,000
HE099S	63 0 30	148 37 50	3.0	.50	.50	.30	700	N	N	N	20	1,000
HE100S	63 1 30	148 32 30	5.0	1.50	1.50	.70	3,000	<.5	N	N	15	1,000
HE101S	63 2 35	148 27 30	3.0	1.00	1.00	.50	2,000	<.5	N	N	20	1,500
HE102S	63 2 10	148 24 35	3.0	1.00	1.00	.30	1,500	N	N	N	15	500
HE103S	63 2 40	148 23 20	2.0	1.00	.70	.70	1,000	N	N	N	15	500
HE104S	63 2 50	148 18 20	1.5	.50	.70	.30	300	N	N	N	15	1,500
HE105S	63 0 50	148 18 55	3.0	1.50	3.00	.20	500	N	N	N	15	300
HE106S	63 6 5	148 19 50	2.0	.50	.30	.15	500	N	N	N	20	300
HE107S	63 6 40	148 19 30	2.0	.70	.70	1.00	500	N	N	N	10	500
HE108S	63 4 50	148 24 25	3.0	1.50	1.00	.30	500	<.5	N	N	20	1,000
HE109S	63 6 20	148 27 20	1.5	.70	.30	.10	300	<.5	N	N	15	700
HE110S	63 6 20	148 30 20	2.0	.50	.30	.15	500	N	N	N	10	1,500
HE111S	63 6 25	148 30 25	1.5	.50	.30	.10	500	<.5	N	N	20	1,000
HE112S	63 19 55	148 46 45	2.0	1.50	.10	.15	300	N	N	N	50	1,000
HE113S	63 18 35	148 43 0	2.0	2.00	.15	.20	300	.5	N	N	70	1,000
HE114S	63 19 5	148 42 0	3.0	1.00	.20	.50	3,000	1.0	N	N	100	1,500
HE115S	63 17 10	148 45 45	2.0	1.50	.10	.15	300	N	N	N	50	700
HE116S	63 16 55	148 46 15	3.0	1.50	.10	.20	300	<.5	N	N	50	1,000
HE117S	63 16 40	148 45 10	2.0	1.00	.20	.70	700	.5	N	N	30	1,000
HE118S	63 17 30	148 39 15	3.0	1.50	.20	.20	300	1.5	N	N	50	1,000
HE119S	63 17 0	148 38 40	2.0	1.00	.10	.15	700	.5	N	N	70	1,000
HE120S	63 17 5	148 37 50	2.0	1.00	.10	.50	700	<.5	N	N	100	1,000
HE121S	63 18 5	148 33 40	2.0	1.00	.15	.30	700	.5	N	N	70	1,000
HE122S	63 18 15	148 33 55	2.0	1.00	.20	.20	1,000	.5	N	N	100	1,000
HE123S	63 16 45	148 30 35	3.0	1.00	.15	.50	500	<.5	N	N	70	1,500
HE124S	63 16 50	148 30 10	2.0	.70	.15	.15	300	.5	N	N	30	1,000
HE125S	63 17 0	148 27 35	2.0	1.00	.30	.50	1,000	.5	N	N	30	1,500
HE126S	63 16 45	148 28 0	2.0	.50	.50	.50	300	N	N	N	15	1,000
HE127S	63 18 15	148 25 5	2.0	.70	.15	.15	500	<.5	N	N	70	1,000
HE128S	63 17 5	148 21 35	2.0	1.00	1.00	.50	700	N	N	N	30	1,000
HE129S	63 16 10	148 17 10	2.0	1.00	1.50	1.00	1,000	N	N	N	30	700
HE130S	63 18 20	148 16 15	3.0	1.00	1.50	>1.00	1,500	N	N	N	30	700
HE131S	63 18 20	148 16 40	2.0	1.00	.70	.50	700	N	N	N	50	1,000
HE132S	63 19 5	148 17 30	3.0	1.50	2.00	.70	1,500	<.5	N	N	50	1,000
HE133S	63 21 45	148 14 50	2.0	1.00	1.00	.30	1,500	<.5	N	N	50	1,000
HE134S	63 24 40	148 16 40	1.5	.30	.20	.15	300	N	N	N	20	500
HE135S	63 24 40	148 21 15	1.5	.30	.20	.07	300	N	N	N	30	300

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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	Sb-ppm s	Sc-ppm s
HE091S	2.0	N	N	15	100	30	70	5	<20	50	30	N	20
HE092S	1.5	N	N	20	70	20	150	N	20	20	20	N	30
HE093S	2.0	N	N	20	100	30	100	<5	<20	50	30	N	20
HE094S	2.0	N	N	15	100	20	70	N	<20	30	30	N	20
HE095S	1.5	N	N	30	150	30	100	7	N	50	20	N	30
HE096S	2.0	N	N	20	100	50	20	N	N	50	30	N	30
HE097S	1.5	N	N	30	200	30	100	5	N	70	30	N	30
HE098S	1.5	<10	N	30	100	70	50	<5	20	30	50	N	50
HE099S	1.5	N	N	7	30	10	30	10	<20	10	30	N	30
HE100S	1.5	N	N	30	150	50	150	N	<20	50	20	N	50
HE101S	1.0	N	N	30	200	50	50	7	N	70	20	N	50
HE102S	2.0	N	N	30	100	30	150	5	<20	50	30	N	50
HE103S	1.5	N	N	30	150	30	70	N	<20	50	30	N	30
HE104S	1.5	N	N	10	70	15	70	N	N	15	20	N	20
HE105S	2.0	N	N	20	70	20	50	N	<20	30	30	N	30
HE106S	3.0	N	N	7	70	10	200	N	<20	20	20	N	15
HE107S	1.5	N	N	10	70	15	70	N	20	30	20	N	30
HE108S	1.5	N	N	30	300	70	50	5	<20	70	30	N	30
HE109S	2.0	N	N	7	50	20	100	N	<20	20	20	N	15
HE110S	2.0	N	N	5	20	15	70	<5	N	5	30	N	10
HE111S	2.0	N	N	7	50	20	70	N	<20	30	20	N	15
HE112S	1.5	N	N	30	300	30	20	N	<20	70	20	N	20
HE113S	1.5	N	N	30	500	50	50	N	<20	100	30	N	30
HE114S	3.0	N	N	50	150	100	50	15	<20	70	50	N	30
HE115S	2.0	N	N	30	500	30	20	N	N	100	15	N	20
HE116S	2.0	N	N	30	300	50	30	N	<20	100	70	N	30
HE117S	1.5	N	N	30	500	50	20	N	<20	70	20	N	30
HE118S	7.0	N	N	30	300	50	20	<5	N	100	30	N	20
HE119S	1.5	N	N	30	200	50	20	7	N	100	20	N	20
HE120S	2.0	N	N	30	200	50	30	N	<20	70	20	N	20
HE121S	1.5	N	N	30	500	50	50	5	<20	70	20	N	30
HE122S	5.0	N	N	30	200	50	70	7	<20	100	20	N	20
HE123S	2.0	N	N	30	200	30	30	5	<20	70	20	N	20
HE124S	3.0	N	N	10	70	30	50	N	<20	30	30	N	15
HE125S	2.0	N	N	20	100	20	100	15	20	30	30	N	20
HE126S	2.0	N	N	7	50	10	300	N	20	15	30	N	15
HE127S	2.0	N	N	20	300	50	30	<5	<20	70	20	N	20
HE128S	1.5	N	N	20	150	20	50	N	<20	20	20	N	30
HE129S	1.5	N	N	20	300	7	50	N	<20	20	10	N	50
HE130S	1.5	N	N	20	500	7	100	N	<20	20	10	N	70
HE131S	1.5	N	N	20	500	20	50	N	<20	30	15	N	30
HE132S	1.5	N	N	20	500	30	100	N	<20	50	20	N	70
HE133S	1.0	N	N	15	300	15	30	N	<20	30	10	N	30
HE134S	2.0	N	N	7	30	7	150	N	20	5	30	N	15
HE135S	3.0	N	N	5	100	10	70	N	<20	10	30	N	10

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Sb-ppm aa
HE091S	N	200	150	N	50	<200	200	N	N	--	120	--	--
HE092S	N	500	150	N	30	N	200	N	N	--	80	--	--
HE093S	N	500	150	N	20	<200	150	N	N	--	120	--	--
HE094S	N	300	100	N	30	<200	150	N	N	--	95	--	--
HE095S	N	500	150	N	20	<200	150	N	N	--	110	--	--
HE096S	N	700	150	N	30	<200	100	N	N	--	95	--	--
HE097S	N	500	150	N	20	<200	100	N	N	--	120	--	--
HE098S	70	500	150	<50	50	300	150	N	N	--	250	--	--
HE099S	N	200	150	N	30	N	200	N	N	--	100	--	--
HE100S	N	500	150	N	70	<200	150	N	N	--	120	--	--
HE101S	N	500	200	N	50	<200	100	N	N	--	120	--	--
HE102S	N	500	150	N	70	<200	150	N	N	--	100	--	--
HE103S	N	300	150	N	50	<200	200	N	N	--	110	--	--
HE104S	N	500	100	N	30	N	150	N	N	--	50	--	--
HE105S	N	500	150	N	50	N	150	N	N	--	65	--	--
HE106S	N	150	100	N	70	N	500	<100	N	--	75	--	--
HE107S	N	500	150	N	30	N	300	N	N	--	75	--	--
HE108S	N	500	200	N	30	200	100	N	N	--	120	--	--
HE109S	N	200	100	N	30	<200	200	N	N	--	80	--	--
HE110S	N	300	70	N	20	<200	150	N	N	--	80	--	--
HE111S	N	300	100	N	30	<200	150	N	N	--	85	--	--
HE112S	N	<100	150	<50	30	<200	100	N	N	--	150	--	--
HE113S	N	200	200	N	30	200	150	N	N	--	180	--	--
HE114S	N	300	200	N	50	300	150	N	N	--	400	--	--
HE115S	N	<100	150	N	30	<200	150	N	N	--	120	--	--
HE116S	N	100	150	N	30	200	100	N	N	--	190	--	--
HE117S	N	200	150	N	30	<200	200	N	.40	--	160	--	--
HE118S	<10	300	150	N	30	<200	100	N	N	--	140	--	--
HE119S	N	150	150	N	30	<200	150	N	N	--	160	--	--
HE120S	N	150	150	N	30	<200	150	N	1.50	--	120	--	--
HE121S	N	150	150	N	30	200	200	N	N	--	180	--	--
HE122S	30	150	150	<50	50	200	150	N	.10	--	250	--	--
HE123S	N	150	150	N	30	<200	150	N	N	--	120	--	--
HE124S	N	200	100	N	30	<200	200	N	N	--	130	--	--
HE125S	N	300	150	N	50	<200	200	N	N	--	160	--	--
HE126S	<10	500	100	N	70	N	700	<100	N	--	90	--	--
HE127S	N	100	150	N	30	<200	150	N	N	--	100	--	--
HE128S	N	500	150	N	30	N	200	N	N	--	60	--	--
HE129S	N	500	150	N	50	N	300	N	N	--	40	--	--
HE130S	N	300	200	N	50	N	700	N	N	--	30	--	--
HE131S	10	300	150	N	30	N	200	N	N	--	65	--	--
HE132S	N	500	200	N	50	N	300	N	N	--	55	--	--
HE133S	N	300	150	N	30	N	300	N	N	--	65	--	--
HE134S	N	<100	70	N	70	N	500	<100	N	--	85	--	--
HE135S	15	<100	70	N	50	<200	200	N	N	--	90	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	Au-ppm	B-ppm	Ba-ppm
			s	s	s	s	s	s	s	s	s	s
HE136S	63 24 45	148 21 30	1.5	.30	.20	.10	300	N	N	N	30	300
HE137S	63 25 45	148 27 15	1.5	.30	.20	.10	300	5.0	N	N	20	300
HE138S	63 24 5	148 31 45	1.5	1.00	1.00	.10	500	<.5	N	N	50	700
HE139S	63 47 50	148 55 15	5.0	.50	.15	.20	500	<.5	N	N	50	700
HE140S	63 48 5	148 55 30	3.0	.30	.15	.50	500	1.5	N	N	50	700
HE141S	63 46 5	148 54 15	3.0	.50	.20	.30	300	N	N	N	70	700
HE142S	63 45 55	148 54 10	3.0	.50	.30	.30	300	<.5	N	N	50	700
HE143S	63 33 10	147 11 10	3.0	2.00	2.00	.30	500	<.5	N	N	50	1,500
HE144S	63 32 25	147 15 55	2.0	2.00	2.00	.10	500	N	N	N	50	1,000
HE145S	63 31 15	147 16 15	2.0	1.50	.70	.30	500	<.5	N	N	30	1,000
HE146S	63 32 45	147 17 55	3.0	3.00	3.00	.20	500	.5	N	N	50	1,500
HE147S	63 31 40	147 22 0	3.0	1.50	3.00	.50	300	N	N	N	30	1,500
HE148S	63 31 10	147 26 0	2.0	1.50	2.00	.20	500	<.5	N	N	100	1,000
HE149S	63 31 10	147 26 30	5.0	3.00	2.00	.50	500	<.5	N	N	200	1,500
HE150S	63 29 30	147 29 25	2.0	1.50	3.00	.15	500	<.5	N	N	70	1,000
HE151S	63 26 20	147 19 50	5.0	2.00	10.00	1.00	500	.5	N	N	30	1,000
HE152S	63 26 25	147 19 35	7.0	1.50	5.00	>1.00	1,500	.7	N	N	50	1,000
HE153S	63 26 45	147 22 5	2.0	2.00	10.00	.50	300	.5	N	N	20	1,000
HE154S	63 28 40	147 20 20	3.0	2.00	7.00	.70	300	.7	N	N	30	1,000
HE155S	63 28 40	147 19 50	5.0	1.50	7.00	>1.00	700	.5	N	N	50	1,000
HE156S	63 30 45	147 1 40	7.0	2.00	3.00	>1.00	1,000	<.5	N	N	10	1,000
HE157S	63 31 30	147 2 20	2.0	1.50	1.50	.70	500	N	N	N	70	1,000
HE158S	63 30 50	147 6 40	5.0	2.00	2.00	1.00	700	.5	N	N	50	1,000
HE159S	63 28 10	147 2 10	5.0	2.00	3.00	1.00	2,000	<.5	N	N	20	700
HE160S	63 25 50	147 2 45	5.0	3.00	3.00	1.00	700	<.5	N	N	15	1,000
HE161S	63 27 55	147 10 40	5.0	1.50	1.50	.70	2,000	<.5	N	N	50	1,500
HE162S	63 27 15	147 13 0	3.0	1.50	5.00	.30	3,000	.5	N	N	150	1,500
HE163S	63 26 10	147 15 20	7.0	3.00	5.00	.70	1,500	<.5	N	N	30	1,500
HE164S	63 24 25	147 9 30	7.0	1.50	3.00	.70	1,000	<.5	N	N	10	700
HE165S	63 24 30	147 24 0	5.0	1.00	2.00	.50	300	1.5	N	N	70	1,500
HE166S	63 22 25	147 3 40	3.0	1.00	1.00	>1.00	1,000	N	N	N	20	700
HE167S	63 21 50	147 2 20	3.0	1.50	1.50	.30	500	<.5	N	N	15	700
HE168S	63 19 30	147 24 5	3.0	1.50	1.00	.50	500	<.5	N	N	20	500
HE169S	63 16 25	147 8 20	3.0	1.50	1.00	.30	700	<.5	N	N	15	1,000
HE170S	63 16 0	147 3 55	3.0	2.00	2.00	.50	1,000	N	N	N	10	500
HE171S	63 18 25	147 3 50	5.0	2.00	2.00	.70	700	<.5	N	N	15	500
HE172S	63 17 0	147 7 40	5.0	3.00	3.00	.70	1,000	<.5	N	N	10	500
HE173S	63 17 50	147 16 45	5.0	2.00	3.00	.70	1,500	N	N	N	20	700
HE174S	63 17 40	147 17 30	5.0	1.50	1.50	.70	2,000	<.5	N	N	20	500
HE175S	63 17 0	147 21 5	5.0	2.00	2.00	.50	1,000	<.5	N	N	20	1,000
HE176S	63 15 40	147 23 30	2.0	1.50	1.00	.20	500	.5	N	N	30	700
HE177S	63 31 40	148 1 20	3.0	1.50	.10	.50	300	1.5	N	N	50	1,500
HE178S	63 31 35	148 1 0	5.0	1.50	2.00	.30	1,000	1.5	N	N	20	500
HE179S	63 30 30	148 1 40	5.0	1.00	.07	.50	500	1.0	N	N	30	1,500
HE180S	63 27 10	148 9 55	5.0	1.50	.10	.70	300	.7	N	N	50	1,000

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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	Sb-ppm s	Sc-ppm s
HE136S	5.0	N	N	7	70	10	20	N	<20	10	30	N	10
HE137S	3.0	N	N	7	200	7	100	N	50	15	30	N	10
HE138S	1.5	N	N	10	200	15	50	N	N	20	20	N	15
HE139S	2.0	N	N	30	150	50	100	N	<20	50	50	N	20
HE140S	1.5	N	N	20	100	30	100	N	<20	50	30	N	20
HE141S	2.0	N	N	30	100	30	70	<5	<20	30	30	N	20
HE142S	1.5	N	N	30	100	50	100	N	<20	30	30	N	20
HE143S	1.0	N	N	30	500	30	50	N	N	50	20	N	50
HE144S	1.0	N	N	20	500	15	50	N	<20	100	20	N	50
HE145S	1.5	N	N	20	200	30	70	7	30	70	30	N	30
HE146S	1.0	N	N	30	500	30	50	N	N	50	20	N	70
HE147S	1.0	N	N	30	300	30	70	N	<20	50	30	N	70
HE148S	1.0	N	N	20	300	20	70	N	<20	30	20	N	50
HE149S	1.0	N	N	30	500	30	70	N	<20	50	30	N	70
HE150S	1.5	N	N	20	150	20	50	N	N	30	30	N	50
HE151S	<1.0	N	N	20	300	30	<20	N	N	30	10	N	30
HE152S	<1.0	N	N	20	200	50	<20	<5	20	20	10	N	70
HE153S	N	N	N	20	200	30	50	N	N	30	10	N	30
HE154S	N	N	N	15	150	20	<20	N	N	20	<10	N	30
HE155S	<1.0	N	N	20	100	50	20	5	<20	20	<10	N	50
HE156S	1.0	N	N	30	100	30	70	N	<20	15	15	N	50
HE157S	1.0	N	N	20	300	30	50	N	N	70	10	N	20
HE158S	1.0	N	N	30	200	100	70	N	20	70	10	N	30
HE159S	1.0	N	N	20	150	50	200	5	<20	20	10	N	50
HE160S	<1.0	N	N	30	500	20	150	N	<20	30	15	N	50
HE161S	<1.0	N	N	20	100	30	70	5	<20	50	<10	N	50
HE162S	1.0	N	N	15	200	30	100	10	N	50	10	N	30
HE163S	1.0	N	N	50	500	50	30	N	<20	70	15	N	70
HE164S	<1.0	N	N	30	200	20	100	N	<20	50	20	N	70
HE165S	1.0	N	N	20	150	70	70	15	<20	50	15	N	30
HE166S	1.0	N	N	20	200	10	150	N	20	20	20	N	50
HE167S	1.0	N	N	30	500	20	70	N	<20	50	20	N	50
HE168S	1.0	N	N	20	150	30	30	N	<20	30	20	N	30
HE169S	1.0	N	N	30	500	30	70	5	<20	70	15	N	50
HE170S	1.0	N	N	30	500	20	100	N	<20	50	15	N	70
HE171S	1.0	N	N	30	500	15	100	N	<20	30	20	N	70
HE172S	1.0	N	N	30	500	10	50	N	<20	50	15	N	70
HE173S	1.0	N	N	30	500	20	150	N	20	50	20	N	70
HE174S	1.0	N	N	30	500	20	150	N	<20	50	20	N	70
HE175S	1.0	N	N	50	500	30	70	N	<20	70	20	N	50
HE176S	1.0	N	N	20	500	20	50	5	<20	50	30	N	30
HE177S	1.0	N	N	30	500	100	70	10	<20	100	30	N	50
HE178S	1.0	N	N	30	200	50	30	N	<20	50	20	N	50
HE179S	1.5	N	N	50	300	150	70	5	<20	100	30	N	50
HE180S	1.5	N	N	50	200	200	70	7	<20	100	30	N	50

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Sb-ppm aa
HE136S	30	100	70	N	50	<200	300	N	N	--	100	--	--
HE137S	30	100	70	N	70	<200	500	N	N	--	85	--	--
HE138S	N	300	100	N	30	<200	150	N	N	--	60	--	--
HE139S	N	100	150	N	50	<200	300	N	N	--	100	--	--
HE140S	N	<100	150	N	50	<200	300	N	N	--	95	--	--
HE141S	N	100	150	N	30	<200	200	N	N	--	120	--	--
HE142S	N	100	150	N	70	<200	300	N	N	--	120	--	--
HE143S	N	500	200	N	30	N	150	N	N	--	60	--	--
HE144S	N	500	200	N	30	N	150	N	N	--	30	--	--
HE145S	N	200	150	N	70	<200	200	N	N	--	90	--	--
HE146S	N	500	300	N	50	<200	150	N	N	--	60	--	--
HE147S	N	500	200	N	50	N	150	N	N	--	55	--	--
HE148S	N	500	200	N	70	N	300	<100	N	--	25	--	--
HE149S	N	500	200	N	50	N	200	N	N	--	70	--	--
HE150S	N	700	200	N	30	N	150	N	N	--	25	--	--
HE151S	N	1,000	200	N	50	N	500	N	.05	--	45	--	--
HE152S	N	1,000	300	N	50	N	300	N	N	--	55	--	--
HE153S	N	1,000	150	N	30	N	200	N	N	--	40	--	--
HE154S	N	1,000	150	N	50	N	150	N	N	--	60	--	--
HE155S	N	1,000	200	N	50	<200	300	N	N	--	65	--	--
HE156S	N	700	150	N	50	<200	300	N	N	--	30	--	--
HE157S	N	500	100	N	30	N	200	N	N	--	40	--	--
HE158S	N	300	150	N	50	<200	200	N	N	--	40	--	--
HE159S	N	500	150	<50	150	N	700	N	.60	--	30	--	--
HE160S	N	700	150	N	50	<200	200	N	N	--	55	--	--
HE161S	N	200	150	N	50	N	300	N	N	--	55	--	--
HE162S	N	500	150	N	50	<200	300	N	N	--	60	--	--
HE163S	<10	700	200	N	70	<200	150	N	N	--	55	--	--
HE164S	N	700	150	N	50	N	300	N	.30	--	45	--	--
HE165S	N	500	200	N	50	<200	200	N	N	--	120	--	--
HE166S	N	500	200	N	70	N	500	N	.55	--	35	--	--
HE167S	N	700	200	N	50	N	200	<100	N	--	65	--	--
HE168S	N	500	200	N	30	N	100	N	N	--	60	--	--
HE169S	N	500	200	N	50	<200	200	N	N	--	95	--	--
HE170S	N	700	300	N	50	N	150	N	N	--	45	--	--
HE171S	N	700	200	N	50	N	200	N	N	--	55	--	--
HE172S	N	700	300	N	30	N	100	N	N	--	40	--	--
HE173S	N	700	300	N	70	N	300	N	N	--	40	--	--
HE174S	N	500	200	N	70	N	200	N	N	--	40	--	--
HE175S	N	700	200	N	50	<200	100	N	N	--	65	--	--
HE176S	N	500	150	N	30	N	150	<100	N	--	50	--	--
HE177S	N	100	300	N	50	200	150	N	N	--	180	--	--
HE178S	N	700	200	N	50	N	100	N	N	--	65	--	--
HE179S	N	<100	200	N	70	200	150	N	N	--	200	--	--
HE180S	N	<100	300	N	70	<200	150	<100	N	--	190	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	Au-ppm	B-ppm	Ba-ppm
			s	s	s	s	s	s	s	s	s	s
HE181S	63 27 10	148 7 50	2.0	1.00	.70	.15	300	1.0	N	N	70	1,500
HE182S	63 30 45	148 9 45	3.0	1.00	.05	.20	300	.7	N	N	70	1,000
HE183S	63 29 20	148 9 5	2.0	.70	.05	.15	200	1.0	N	N	50	700
HE184S	63 29 0	148 13 25	3.0	.30	.07	.30	300	.5	N	N	50	700
HE185S	63 29 5	148 17 0	2.0	.20	<.05	.30	300	<.5	N	N	70	1,000
HE186S	63 30 25	148 17 5	2.0	.20	<.05	.20	300	<.5	N	N	70	700
HE187S	63 28 5	148 19 40	2.0	1.50	.70	.50	500	N	N	N	15	500
HE188S	63 29 20	148 21 50	1.5	.30	.05	.15	200	.7	N	N	30	700
HE189S	63 29 20	148 22 15	3.0	.70	.10	.20	500	1.0	N	N	50	1,000
HE190S	63 28 5	148 26 25	1.5	.30	.07	.15	500	<.5	N	N	50	700
HE191S	63 24 30	148 8 45	1.5	.50	.50	.20	300	N	N	N	30	500
HE192S	63 22 45	148 6 20	2.0	.70	1.00	.15	500	N	N	N	30	700
HE193S	63 25 10	148 4 40	1.5	.50	1.00	.15	300	1.0	N	N	50	1,000
HE194S	63 25 30	148 1 55	1.5	.10	.15	.15	300	N	N	N	20	300
HE195S	63 26 40	148 1 15	1.5	.50	.70	.15	300	<.5	N	N	30	1,000
HE196S	63 29 0	147 58 15	2.0	.30	.10	.10	500	<.5	N	N	30	300
HE197S	63 28 45	147 55 40	1.0	.20	.20	.07	200	N	N	N	15	200
HE198S	63 28 20	148 30 20	1.5	.30	.20	.07	300	.7	N	N	20	300
HE199S	63 27 0	148 32 30	1.0	.30	.20	.10	200	1.0	N	N	20	200
HE200S	63 13 15	147 2 5	3.0	1.50	1.50	.70	700	N	N	N	20	1,000
HE201S	63 12 10	147 0 45	5.0	1.50	.50	.50	500	N	N	N	50	500
HE202S	63 12 20	147 0 50	3.0	1.50	2.00	.70	700	<.5	N	N	30	500
HE203S	63 9 50	147 1 15	5.0	2.00	2.00	.70	700	.5	N	N	20	300
HE204S	63 10 35	147 2 25	2.0	1.50	.20	.30	500	.5	N	N	50	500
HE205S	63 8 25	147 5 35	7.0	2.00	1.50	>1.00	1,000	.7	N	N	20	300
HE206S	63 8 15	147 5 30	7.0	1.50	3.00	1.00	700	N	N	N	10	150
HE207S	63 10 15	147 7 50	2.0	1.00	1.00	.20	1,000	N	N	N	30	700
HE208S	63 11 15	147 10 15	5.0	1.50	1.00	.70	700	<.5	N	N	30	300
HE209S	63 11 40	147 19 0	3.0	1.50	.50	.70	700	<.5	N	N	70	500
HE210S	63 11 35	147 19 15	3.0	1.50	.70	.50	700	<.5	N	N	50	700
HE211S	63 11 0	147 13 5	10.0	1.50	3.00	.15	500	N	N	N	10	500
HE212S	63 12 55	147 9 45	2.0	1.00	1.00	.20	1,000	<.5	N	N	20	300
HE213S	63 13 5	147 9 30	5.0	1.50	2.00	.50	1,000	N	N	N	10	500
HE214S	63 13 30	147 11 45	2.0	1.00	1.00	.30	2,000	N	N	N	20	300
HE215S	63 13 20	147 12 40	3.0	1.50	1.50	.50	3,000	N	N	N	15	300
HE216S	63 12 45	147 15 50	2.0	1.00	1.50	.50	1,500	N	N	N	30	300
HE217S	63 37 45	147 19 55	5.0	1.50	.70	.20	500	1.5	N	N	30	1,000
HE218S	63 36 50	147 22 55	7.0	2.00	2.00	.70	700	1.0	N	N	30	1,000
HE219S	63 36 25	147 26 50	2.0	.70	.50	.30	300	1.0	N	N	30	3,000
HE220S	63 35 20	147 29 30	3.0	1.50	.20	.20	300	1.0	N	N	70	1,000
HE221S	63 35 35	147 36 55	3.0	1.00	.15	.30	500	.7	N	N	100	1,000
HE222S	63 39 45	147 25 30	3.0	1.00	.70	.70	700	.5	N	N	20	2,000
HE223S	63 37 30	147 29 45	5.0	1.00	.30	.70	500	N	N	N	30	1,000
HE224S	63 38 15	147 30 5	2.0	1.00	.20	.20	300	1.5	N	N	70	2,000
HE225S	63 37 10	147 32 40	3.0	1.00	.50	.50	500	1.5	N	N	20	3,000

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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	Sb-ppm s	Sc-ppm s
HE181S	2.0	N	N	10	200	30	150	10	<20	50	20	N	20
HE182S	1.5	N	N	20	150	70	70	7	<20	70	30	N	30
HE183S	2.0	N	N	20	100	50	30	5	<20	50	15	N	30
HE184S	2.0	N	N	20	100	70	50	5	<20	50	10	N	30
HE185S	2.0	N	N	10	70	50	30	7	<20	50	<10	N	20
HE186S	1.5	N	N	20	70	50	50	10	<20	50	10	N	20
HE187S	1.5	N	N	15	200	15	200	N	20	30	20	N	20
HE188S	2.0	N	N	20	100	30	20	N	N	50	30	N	15
HE189S	3.0	N	N	30	150	70	30	5	<20	100	70	N	30
HE190S	1.5	N	N	30	70	30	50	N	N	70	10	N	15
HE191S	1.5	N	N	7	100	10	70	N	N	20	10	N	15
HE192S	3.0	N	N	10	70	20	150	N	<20	20	30	N	20
HE193S	1.5	N	N	7	100	20	50	N	N	30	20	N	15
HE194S	2.0	N	N	5	15	5	500	N	20	<5	15	N	10
HE195S	3.0	N	N	7	70	15	200	5	<20	20	20	N	15
HE196S	2.0	N	N	7	70	30	150	5	<20	30	30	N	15
HE197S	1.5	N	N	5	20	7	100	N	N	5	20	N	10
HE198S	3.0	N	N	7	30	30	70	<5	<20	15	30	N	15
HE199S	10.0	N	N	7	50	20	50	N	20	20	30	N	10
HE200S	1.5	N	N	30	200	30	70	5	<20	50	20	N	50
HE201S	1.5	N	N	30	100	50	20	N	N	50	20	N	30
HE202S	1.5	N	N	30	300	50	70	N	<20	50	30	N	50
HE203S	1.0	N	N	50	200	150	20	N	N	100	50	N	70
HE204S	1.5	N	N	30	150	50	<20	N	N	70	50	N	30
HE205S	1.0	N	N	50	700	1,000	30	5	<20	100	15	N	70
HE206S	<1.0	N	N	50	300	150	20	N	N	70	20	N	70
HE207S	1.5	N	N	15	70	30	30	N	N	30	20	N	20
HE208S	1.0	N	N	30	100	30	20	N	<20	30	20	N	50
HE209S	1.5	N	N	30	150	50	30	N	N	50	15	N	30
HE210S	1.0	N	N	30	150	70	30	N	<20	50	15	N	50
HE211S	<1.0	N	N	50	150	30	20	N	N	20	10	N	50
HE212S	1.0	N	N	20	100	30	30	N	N	30	15	N	30
HE213S	1.0	N	N	20	200	30	70	N	N	50	20	N	50
HE214S	1.5	N	N	20	100	30	30	N	N	50	15	N	50
HE215S	1.0	N	N	20	100	30	50	N	N	30	10	N	50
HE216S	1.0	N	N	20	150	20	30	N	<20	50	10	N	50
HE217S	1.5	N	N	30	150	300	30	20	N	70	50	N	30
HE218S	<1.0	N	N	30	70	150	20	N	N	30	20	N	70
HE219S	1.0	N	N	20	100	30	70	15	<20	50	10	N	30
HE220S	1.5	N	N	30	200	50	70	15	N	100	50	N	20
HE221S	1.5	N	N	20	200	50	70	15	<20	100	20	N	30
HE222S	1.0	N	N	30	100	100	50	20	N	70	15	N	50
HE223S	1.5	N	N	30	100	50	100	7	<20	50	20	N	50
HE224S	2.0	N	N	20	150	50	70	15	N	50	30	N	20
HE225S	1.5	N	<20	20	70	70	50	20	<20	70	20	N	30

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Sb-ppm aa
HE181S	N	200	200	N	50	<200	200	N	N	--	160	--	--
HE182S	N	N	200	N	30	200	150	<100	N	--	170	--	--
HE183S	N	<100	200	N	50	<200	150	N	N	--	150	--	--
HE184S	N	<100	200	N	50	300	150	N	N	--	200	--	--
HE185S	N	<100	150	N	50	200	150	N	N	--	200	--	--
HE186S	N	<100	150	N	50	200	150	N	N	--	200	--	--
HE187S	N	200	100	N	50	N	300	N	N	--	55	--	--
HE188S	N	<100	150	N	30	<200	150	N	N	--	160	--	--
HE189S	N	100	200	N	30	200	150	N	N	--	250	--	--
HE190S	N	<100	150	N	30	300	100	N	N	--	250	--	--
HE191S	N	200	100	N	30	N	200	N	N	--	65	--	--
HE192S	N	300	100	N	50	N	200	N	N	--	120	--	--
HE193S	N	200	150	N	30	N	200	N	N	--	120	--	--
HE194S	N	<100	30	N	100	N	700	N	N	--	130	--	--
HE195S	N	300	100	N	70	<200	500	N	N	--	130	--	--
HE196S	<10	<100	150	N	100	<200	200	100	N	--	100	--	--
HE197S	N	N	70	N	50	N	200	<100	N	--	45	--	--
HE198S	<10	<100	100	N	70	N	100	N	N	--	80	--	--
HE199S	50	N	100	N	70	300	150	N	N	--	300	--	--
HE200S	N	700	200	N	50	N	200	N	N	--	90	--	--
HE201S	N	300	150	N	30	<200	100	N	N	--	120	--	--
HE202S	N	700	200	N	50	<200	200	N	.50	--	85	--	--
HE203S	N	300	300	N	30	<200	100	N	N	--	95	--	--
HE204S	N	300	150	N	30	<200	100	N	N	--	120	--	--
HE205S	N	200	300	N	50	<200	100	N	N	--	110	--	--
HE206S	N	300	500	N	30	<200	100	N	N	--	60	--	--
HE207S	N	700	150	N	30	N	70	N	N	--	65	--	--
HE208S	N	500	200	N	30	<200	100	N	N	--	90	--	--
HE209S	N	300	150	N	30	<200	150	N	.70	--	95	--	--
HE210S	N	500	200	N	30	<200	150	N	1.00	--	90	--	--
HE211S	N	1,000	500	N	20	N	70	N	N	--	45	--	--
HE212S	N	700	150	N	30	N	150	N	.80	--	65	--	--
HE213S	N	700	150	N	30	N	100	N	N	--	50	--	--
HE214S	N	700	150	N	50	N	150	N	N	--	65	--	--
HE215S	N	500	150	N	50	N	150	N	N	--	60	--	--
HE216S	N	500	150	N	50	N	200	N	.35	--	55	--	--
HE217S	N	200	150	N	30	200	150	N	N	--	250	--	--
HE218S	N	200	200	N	30	<200	70	N	N	--	85	--	--
HE219S	N	150	300	N	30	300	150	N	N	--	300	--	--
HE220S	N	300	150	<50	30	<200	100	N	.05	--	200	--	--
HE221S	N	200	200	N	50	<200	150	N	N	--	170	--	--
HE222S	N	100	200	N	30	<200	150	N	N	--	190	--	--
HE223S	N	200	150	N	50	<200	200	N	N	--	120	--	--
HE224S	N	<100	150	N	50	200	150	N	N	--	190	--	--
HE225S	N	100	300	<50	30	300	150	N	N	--	400	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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
HE226S	63 36 30	147 32 10	2.0	.70	.15	.50	300	.5	N	N	30	1,500
HE227S	63 37 0	147 36 40	5.0	1.50	3.00	1.00	700	1.0	N	N	15	1,500
HE228S	63 37 25	147 39 55	2.0	1.00	1.00	.70	500	.7	N	N	20	2,000
HE229S	63 36 30	147 41 5	3.0	1.00	.70	.30	500	1.0	N	N	50	1,000
HE230S	63 35 50	147 41 5	3.0	.30	.10	.20	300	1.0	N	N	70	700
HE231S	63 34 45	147 45 25	1.0	.20	.30	.07	150	N	N	N	20	300
HE232S	63 34 20	147 48 20	1.5	.20	.15	.07	200	N	N	N	20	300
HE233S	63 36 45	147 47 5	3.0	1.50	3.00	1.00	1,000	<.5	N	N	10	2,000
HE234S	63 36 5	147 50 25	2.0	.70	.30	.15	2,000	N	N	N	30	2,000
HE235S	63 36 10	147 49 50	1.0	.30	.20	.10	>5,000	N	N	N	30	700
HE236S	63 36 0	147 52 50	3.0	1.50	1.00	.50	1,500	<.5	N	N	30	1,500
HE237S	63 32 20	147 54 15	.7	.10	.30	.05	150	N	N	N	15	300
HE238S	63 32 25	147 53 15	.7	.10	.20	.03	150	N	N	N	20	200
HE239S	63 54 35	148 9 25	2.0	.30	.20	.70	300	N	N	N	50	300
HE240S	63 54 30	148 9 5	2.0	.30	.15	.30	200	.5	N	N	50	500
HE241S	63 54 50	148 8 40	2.0	.50	.50	.50	300	.5	N	N	30	500
HE242S	63 56 40	148 8 5	2.0	.30	.50	.30	300	<.5	N	N	50	1,000
HE243S	63 56 35	148 8 45	2.0	.30	.10	.20	300	<.5	N	N	50	700
HE244S	63 57 30	148 8 30	1.5	.30	.15	.15	200	<.5	N	N	50	700
HE245S	63 57 35	148 2 55	3.0	.50	.10	.30	300	.5	N	N	50	1,500
HE246S	63 57 35	148 2 40	2.0	.30	.30	.30	300	.7	N	N	70	1,500
HE247S	63 58 30	148 6 40	2.0	.50	.07	.50	500	<.5	N	N	30	700
HE248S	63 59 55	148 1 55	1.5	.30	.05	.20	300	<.5	N	N	30	1,000
HE249S	63 59 10	148 10 20	2.0	.30	.15	.30	300	<.5	N	N	50	1,500
HE250S	63 59 5	148 10 55	1.5	.30	.30	.20	300	N	N	N	30	300
HE251S	63 58 15	148 13 50	1.5	.30	<.05	.15	200	N	N	N	30	700
HE252S	63 58 10	148 14 10	2.0	.30	.07	.30	300	N	N	N	50	1,500
HE253S	63 58 50	148 16 35	1.5	.20	.05	.70	300	<.5	N	N	50	700
HE254S	63 57 20	148 16 45	5.0	.70	.15	.50	500	1.5	N	N	50	1,500
HE255S	63 53 50	148 17 15	2.0	1.00	.70	.30	300	.5	N	N	30	700
HE256S	63 53 35	148 20 25	3.0	1.00	.10	.50	500	<.5	N	N	50	700
HE257S	63 53 30	148 20 5	3.0	.50	.20	.50	300	<.5	N	N	50	500
HE258S	63 33 10	147 55 55	5.0	.50	.07	.70	200	<.5	N	N	50	500
HE259S	63 33 0	147 56 25	5.0	1.50	.20	.50	1,000	1.0	N	N	70	1,500
HE260S	63 34 20	147 58 50	3.0	1.00	1.50	.30	500	1.5	N	N	70	2,000
HE261S	63 37 25	147 57 5	3.0	1.00	.30	.50	700	1.0	N	N	50	2,000
HE262S	63 38 45	147 57 0	1.5	.30	.20	.30	300	<.5	N	N	30	1,000
HE263S	63 38 5	147 56 40	3.0	1.50	1.50	1.00	1,000	.5	N	N	20	2,000
HE264S	63 37 45	147 58 25	1.5	.20	.10	.50	200	<.5	N	N	30	700
HE265S	63 34 45	148 0 35	5.0	3.00	2.00	1.00	500	1.0	N	N	50	2,000
HE266S	63 36 45	148 2 50	1.5	.30	.15	.20	200	<.5	N	N	30	1,000
HE267S	63 34 30	148 5 0	3.0	1.50	.50	.50	300	N	N	N	50	2,000
HE268S	63 34 35	148 6 55	2.0	.70	.20	.20	300	1.0	N	N	30	1,500
HE269S	63 32 5	148 12 0	3.0	.50	.10	.20	300	.5	N	N	70	1,000
HE270S	63 32 0	148 12 35	3.0	.50	.10	.30	500	.5	N	N	100	1,000

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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	Sb-ppm s	Sc-ppm s
HE226S	1.5	N	N	30	100	30	100	7	20	50	20	N	20
HE227S	1.0	N	N	30	200	50	20	N	<20	70	10	N	50
HE228S	1.0	N	N	20	100	50	50	10	<20	50	<10	N	30
HE229S	1.0	N	N	30	200	200	50	15	<20	100	15	N	50
HE230S	1.5	N	N	5	150	70	50	20	<20	30	20	N	20
HE231S	1.5	N	N	5	30	15	150	N	N	10	10	N	10
HE232S	1.0	N	N	5	10	<5	300	N	N	5	10	N	7
HE233S	<1.0	N	N	30	200	50	20	N	<20	70	N	N	50
HE234S	1.5	N	N	30	100	50	30	15	N	70	20	N	20
HE235S	10.0	N	20	150	70	300	200	N	N	300	<10	N	15
HE236S	1.5	N	N	70	150	70	70	7	<20	150	10	N	30
HE237S	1.5	N	N	5	<10	<5	100	N	N	5	<10	N	5
HE238S	3.0	N	N	5	<10	5	300	N	30	5	15	N	N
HE239S	1.5	N	N	20	50	70	50	5	<20	30	30	N	15
HE240S	1.0	N	N	20	70	30	70	<5	<20	30	70	N	15
HE241S	1.5	N	N	20	70	50	100	5	20	50	30	N	15
HE242S	1.5	N	N	20	100	50	100	N	<20	50	20	N	20
HE243S	2.0	N	N	30	100	30	100	10	20	70	20	N	20
HE244S	1.5	N	30	15	70	30	70	5	<20	30	30	N	15
HE245S	2.0	N	30	20	100	30	100	7	20	50	30	N	30
HE246S	2.0	N	N	20	100	50	100	N	20	50	150	N	30
HE247S	1.5	N	<20	20	70	30	70	10	<20	50	30	N	20
HE248S	2.0	N	N	7	50	10	100	N	20	20	30	N	15
HE249S	1.5	N	<20	15	70	50	100	N	20	30	30	N	20
HE250S	1.0	N	N	10	30	20	50	N	<20	30	20	N	15
HE251S	2.0	N	N	7	30	7	70	N	<20	15	30	N	10
HE252S	2.0	N	N	20	70	30	150	N	<20	30	30	N	20
HE253S	1.5	N	N	7	100	7	150	N	30	15	20	N	15
HE254S	1.5	<10	<20	30	100	100	100	N	<20	70	150	N	30
HE255S	1.5	N	N	20	70	30	50	5	<20	50	30	N	20
HE256S	1.5	<10	N	30	150	50	150	N	30	50	50	N	30
HE257S	1.0	N	N	20	50	70	70	N	<20	50	50	N	15
HE258S	1.5	N	N	15	200	30	100	<5	20	50	30	N	50
HE259S	1.0	N	N	30	300	100	70	10	<20	150	30	N	50
HE260S	1.0	N	<20	30	200	70	50	15	N	150	30	N	30
HE261S	1.5	N	N	30	150	100	70	20	<20	100	20	N	30
HE262S	1.0	N	N	20	100	30	30	5	N	50	<10	N	20
HE263S	1.0	N	N	30	150	100	30	10	<20	70	10	N	50
HE264S	1.0	N	N	10	70	30	50	7	N	30	10	N	15
HE265S	1.0	N	<20	50	500	70	70	10	<20	100	30	N	70
HE266S	1.0	N	N	15	100	30	50	5	N	50	20	N	20
HE267S	1.0	N	N	50	500	30	30	7	<20	150	10	N	50
HE268S	1.5	N	N	20	500	70	20	30	<20	70	10	N	20
HE269S	1.5	N	N	20	100	70	50	7	<20	50	10	N	30
HE270S	1.5	N	N	20	100	70	70	7	<20	50	20	N	30

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Sb-ppm aa
HE226S	N	<100	150	N	30	N	150	N	N	--	110	--	--
HE227S	N	200	300	N	30	<200	70	N	N	--	130	--	--
HE228S	N	<100	200	N	30	<200	150	N	N	--	150	--	--
HE229S	N	300	300	N	50	200	100	N	<.05	--	200	--	--
HE230S	N	<100	200	N	30	<200	100	N	<.05	--	110	--	--
HE231S	N	<100	70	N	150	N	300	<100	N	--	40	--	--
HE232S	N	N	50	N	50	N	150	100	N	--	50	--	--
HE233S	N	200	300	N	30	N	70	N	N	--	70	--	--
HE234S	N	<100	150	N	30	500	100	N	N	--	450	--	--
HE235S	N	N	100	N	300	1,500	70	N	N	--	5,500	--	--
HE236S	N	100	200	N	50	500	100	N	N	--	450	--	--
HE237S	N	N	30	N	30	N	200	200	N	--	20	--	--
HE238S	N	N	30	N	100	N	200	N	N	--	15	--	--
HE239S	N	100	70	N	30	N	150	N	N	--	90	--	--
HE240S	N	<100	70	N	30	N	300	N	N	--	85	--	--
HE241S	N	100	100	N	50	<200	500	<100	N	--	110	--	--
HE242S	N	100	100	N	50	<200	200	N	N	--	150	--	--
HE243S	N	100	150	N	70	700	150	N	N	--	580	--	--
HE244S	N	<100	100	N	50	300	300	N	N	--	300	--	--
HE245S	N	100	150	N	70	700	500	<100	N	--	650	--	--
HE246S	N	100	100	N	70	200	500	N	N	--	180	--	--
HE247S	N	N	150	N	70	300	150	N	N	--	400	--	--
HE248S	N	N	150	N	70	<200	300	N	N	--	110	--	--
HE249S	N	<100	150	N	50	200	500	<100	N	--	180	--	--
HE250S	N	<100	70	N	20	N	200	N	N	--	90	--	--
HE251S	N	N	100	N	30	N	150	N	N	--	40	--	--
HE252S	N	100	150	N	50	200	300	N	N	--	180	--	--
HE253S	N	<100	100	N	50	N	500	N	.40	--	60	--	--
HE254S	N	100	150	N	50	300	500	<100	N	--	330	--	--
HE255S	N	150	100	N	30	N	150	N	N	--	85	--	--
HE256S	N	<100	150	N	70	<200	150	N	N	--	130	--	--
HE257S	N	<100	100	N	30	<200	700	N	N	--	110	--	--
HE258S	N	<100	200	N	30	<200	200	N	N	--	120	--	--
HE259S	N	200	300	N	50	300	150	N	N	--	250	--	--
HE260S	N	200	300	N	50	300	300	N	N	--	280	--	--
HE261S	N	<100	200	N	50	200	150	N	N	--	250	--	--
HE262S	N	100	150	N	30	<200	150	N	N	--	100	--	--
HE263S	N	150	200	N	30	<200	150	N	N	--	100	--	--
HE264S	N	<100	150	N	20	<200	300	N	N	--	110	--	--
HE265S	N	300	200	N	50	200	150	N	N	--	160	--	--
HE266S	N	<100	150	N	30	N	150	N	N	--	110	--	--
HE267S	N	100	200	N	30	200	100	N	N	--	250	--	--
HE268S	N	<100	150	N	30	200	150	N	N	--	280	--	--
HE269S	N	<100	150	N	50	200	100	N	N	--	180	--	--
HE270S	N	<100	150	N	50	200	150	N	N	--	200	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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
HE271S	63 32 10	148 7 0	5.0	1.00	.15	.20	300	<.5	N	N	50	1,000
HE272S	63 37 15	148 7 20	1.5	.20	.10	.15	150	N	N	N	30	700
HE273S	63 39 45	148 7 20	1.5	.30	.10	.20	200	<.5	N	N	50	1,000
HE274S	63 40 20	148 3 30	1.5	.70	.15	.20	3,000	N	N	N	30	2,000
HE275S	63 40 40	147 59 55	1.5	.50	.20	.15	500	<.5	<200	N	30	1,000
HE276S	63 41 5	148 4 0	1.5	.30	.15	.10	150	.7	N	N	50	700
HE277S	63 41 10	148 8 45	2.0	.30	.10	.20	200	.5	N	N	30	1,000
HE278S	63 41 20	148 9 6	2.0	.50	.15	.20	300	<.5	N	N	30	1,000
HE279S	63 40 50	148 9 45	2.0	.50	.20	.15	500	<.5	N	N	30	700
HE280S	63 39 0	148 12 40	1.5	.50	.20	.30	300	1.0	N	N	30	500
HE281S	63 34 35	148 16 0	2.0	.70	.15	.50	500	1.0	500	N	100	1,500
HE282S	63 36 40	148 15 10	2.0	1.00	.20	.50	500	.5	200	N	70	3,000
HE283S	63 16 10	149 3 40	2.0	1.00	.15	.50	300	.5	N	N	50	700
HE284S	63 18 25	149 1 45	2.0	1.00	.10	.30	300	<.5	N	N	50	700
HE285S	63 19 15	148 58 15	2.0	1.50	.15	.20	300	.5	N	N	30	700
HE286S	63 19 20	148 58 5	3.0	1.50	.15	.50	700	<.5	N	N	70	1,000
HE287S	63 18 30	148 55 20	2.0	1.00	.07	.15	500	<.5	N	N	70	1,500
HE288S	63 20 10	148 51 5	2.0	1.00	.15	.20	500	2.0	N	N	50	1,500
HE289S	63 21 20	148 51 25	3.0	1.00	.15	.30	500	.7	N	N	70	1,500
HE290S	63 21 30	148 40 10	1.5	.30	.15	.10	2,000	.7	N	N	70	700
HE291S	63 20 30	148 37 10	2.0	.50	.20	.10	1,000	.5	N	N	70	500
HE292S	63 22 5	148 35 20	1.5	.70	.50	.15	700	.7	N	N	50	1,500
HE293S	63 24 35	148 41 15	2.0	1.00	.50	.30	500	.5	N	N	30	1,000
HE294S	63 23 35	148 46 10	2.0	1.00	.70	.50	500	.7	300	N	30	1,000
HE295S	63 10 0	147 51 45	5.0	1.00	2.00	.50	1,000	1.5	N	N	70	700
HE296S	63 8 35	147 53 35	5.0	1.00	2.00	.30	1,500	1.0	N	N	50	700
HE297S	63 7 15	147 56 55	5.0	.70	1.50	1.00	2,000	1.5	N	N	70	700
HE298S	63 6 20	147 53 10	5.0	1.00	2.00	.50	1,000	.5	N	N	70	700
HE299S	63 5 55	147 51 25	5.0	1.50	1.50	.30	1,000	1.0	N	N	70	700
HE300S	63 6 0	147 51 15	7.0	1.50	2.00	1.00	1,500	1.0	N	N	150	500
HE301S	63 7 5	147 46 30	2.0	.50	1.50	.20	1,000	<.5	N	N	70	300
HE302S	63 7 5	147 45 55	5.0	1.50	2.00	.30	1,000	.5	N	N	50	700
HE303S	63 8 5	147 47 30	5.0	1.50	2.00	.50	1,500	<.5	N	N	70	700
HE304S	63 9 5	147 46 25	5.0	.70	1.50	.30	2,000	<.5	N	N	30	700
HE305S	63 7 20	147 40 45	7.0	2.00	1.50	1.00	1,500	.5	N	N	70	700
HE306S	63 7 30	147 41 5	5.0	1.50	2.00	1.00	1,500	<.5	N	N	70	700
HE307S	63 6 40	147 42 0	5.0	1.00	1.50	.30	1,000	<.5	N	N	70	700
HE308S	63 4 50	147 39 45	5.0	1.00	1.50	.70	1,500	.5	N	N	70	1,000
HE309S	63 3 0	147 38 55	7.0	3.00	5.00	.70	1,500	N	N	N	20	500
HE310S	63 2 50	147 39 25	7.0	3.00	5.00	.70	1,500	<.5	N	N	100	200
HE311S	63 2 50	147 41 15	7.0	2.00	3.00	.70	1,500	N	N	N	100	1,500
HE312S	63 1 50	147 45 40	7.0	3.00	5.00	.70	1,500	N	N	N	50	70
HE313S	63 0 55	147 49 20	7.0	1.50	2.00	1.00	1,500	2.0	N	N	50	300
HE314S	63 1 20	147 56 50	2.0	.70	1.50	.30	1,000	N	N	N	70	700
HE315S	63 3 10	147 58 10	7.0	1.50	3.00	>1.00	2,000	N	N	N	20	1,000

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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	Sb-ppm s	Sc-ppm s
HE271S	1.0	N	N	20	100	100	50	5	<20	70	10	N	20
HE272S	1.0	N	N	7	150	15	30	N	N	30	<10	N	15
HE273S	1.0	N	N	10	100	20	50	5	<20	30	10	N	15
HE274S	1.0	N	N	20	70	50	50	10	<20	100	10	N	20
HE275S	1.0	N	N	20	100	30	30	10	<20	50	15	N	20
HE276S	1.0	N	N	10	100	20	50	N	N	30	20	N	15
HE277S	1.0	N	N	15	200	30	50	5	<20	50	15	N	20
HE278S	1.0	N	N	20	150	30	30	5	N	50	20	N	20
HE279S	1.0	N	N	15	150	30	30	N	N	50	20	N	20
HE280S	1.5	N	N	10	100	50	50	N	N	50	20	N	20
HE281S	1.5	N	N	20	150	70	100	15	<20	70	30	N	30
HE282S	1.5	N	N	50	200	50	50	15	<20	100	15	N	50
HE283S	1.0	N	N	20	150	50	70	<5	N	70	20	N	30
HE284S	1.0	N	N	20	200	50	<20	N	<20	70	15	N	30
HE285S	1.5	N	N	30	300	30	20	N	N	100	10	N	20
HE286S	1.5	N	N	30	300	70	50	N	N	100	20	N	30
HE287S	1.5	N	N	20	200	50	30	N	N	100	20	N	20
HE288S	1.5	N	N	20	150	50	50	5	<20	70	100	N	20
HE289S	1.5	N	N	20	300	50	70	<5	<20	70	30	N	30
HE290S	3.0	N	N	10	50	30	50	7	<20	30	30	N	15
HE291S	5.0	N	N	15	100	30	20	7	20	50	50	N	15
HE292S	1.5	N	<20	15	100	30	50	7	N	50	20	N	20
HE293S	1.5	N	N	30	200	50	70	5	<20	70	30	N	30
HE294S	1.5	N	N	20	300	50	50	<5	N	50	20	N	30
HE295S	1.5	N	N	20	150	30	20	N	N	70	15	N	20
HE296S	1.5	N	N	15	70	20	20	N	N	30	10	N	15
HE297S	2.0	N	N	20	150	30	30	N	<20	70	15	N	20
HE298S	1.5	N	N	15	200	50	20	N	N	70	15	N	20
HE299S	1.5	N	N	20	150	70	20	N	N	70	20	N	20
HE300S	1.0	N	N	50	300	100	50	N	<20	70	15	N	30
HE301S	1.5	N	N	15	30	30	20	N	N	15	10	N	10
HE302S	2.0	N	N	30	150	70	50	N	N	70	20	N	20
HE303S	1.5	N	N	20	150	30	30	N	<20	50	20	N	20
HE304S	1.5	N	N	30	70	20	20	N	N	20	20	N	15
HE305S	1.5	N	N	30	150	150	70	N	<20	70	20	N	20
HE306S	1.5	N	N	20	200	50	30	N	N	70	20	N	30
HE307S	1.5	N	N	30	150	100	50	N	N	70	20	N	30
HE308S	1.5	N	N	20	150	70	50	N	N	50	20	N	20
HE309S	<1.0	N	N	50	700	150	20	N	N	150	10	N	30
HE310S	<1.0	N	N	70	1,500	200	20	N	N	200	10	N	30
HE311S	<1.0	N	N	50	1,000	100	20	N	N	200	10	N	30
HE312S	<1.0	N	N	100	3,000	150	20	N	N	300	10	N	30
HE313S	1.0	N	N	50	200	150	30	N	N	100	50	N	30
HE314S	2.0	N	N	15	70	15	30	N	N	20	10	N	15
HE315S	1.5	N	N	30	150	30	100	N	<20	70	15	N	20

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Sb-ppm aa
HE271S	N	N	200	N	30	<200	100	N	N	--	160	--	--
HE272S	N	100	100	N	15	N	200	N	N	--	80	--	--
HE273S	N	<100	150	N	20	N	150	N	N	--	95	--	--
HE274S	N	N	150	N	30	300	100	N	N	--	280	--	--
HE275S	N	<100	150	N	20	<200	100	N	N	--	110	--	--
HE276S	N	N	100	N	20	<200	100	N	N	--	150	--	--
HE277S	N	100	150	N	20	<200	150	N	N	--	110	--	--
HE278S	N	150	150	N	30	<200	100	N	N	--	100	--	--
HE279S	N	150	150	N	20	<200	100	N	N	--	110	--	--
HE280S	N	150	150	N	20	<200	150	N	N	--	100	--	--
HE281S	10	100	200	N	50	200	150	N	N	--	240	--	--
HE282S	N	100	200	N	30	300	100	N	N	--	300	--	--
HE283S	N	200	200	N	30	<200	100	N	N	--	130	--	--
HE284S	N	<100	200	N	30	<200	150	N	N	--	120	--	--
HE285S	N	100	200	N	20	<200	100	N	N	--	140	--	--
HE286S	N	100	200	N	30	200	150	N	N	--	160	--	--
HE287S	N	<100	200	N	30	<200	100	N	N	--	160	--	--
HE288S	N	100	200	N	30	200	150	N	N	--	250	--	--
HE289S	N	100	200	N	50	<200	150	N	N	--	190	--	--
HE290S	N	100	150	N	70	300	150	N	N	--	260	--	--
HE291S	N	100	150	N	100	300	100	N	N	--	180	--	--
HE292S	N	200	150	N	30	300	200	N	N	--	400	--	--
HE293S	N	300	200	<50	30	200	150	N	.25	--	300	--	--
HE294S	N	300	150	N	30	<200	150	N	N	--	150	--	--
HE295S	N	500	150	N	30	N	700	N	N	--	60	--	--
HE296S	N	500	150	N	30	N	700	N	N	--	45	--	--
HE297S	N	500	100	N	50	<200	500	N	N	--	85	--	--
HE298S	N	500	100	N	30	<200	200	N	N	--	80	--	--
HE299S	N	300	150	N	30	<200	300	N	.20	--	90	--	--
HE300S	N	500	200	N	50	<200	700	N	.25	--	75	--	--
HE301S	N	300	70	N	20	<200	100	N	N	--	120	--	--
HE302S	N	500	150	N	30	<200	100	N	.10	--	90	--	--
HE303S	N	500	150	N	50	N	300	N	1.50	--	50	--	--
HE304S	N	300	70	N	20	N	150	N	N	--	55	--	--
HE305S	N	300	200	N	30	<200	150	N	.35	--	85	--	--
HE306S	N	500	200	N	30	<200	200	N	N	--	70	--	--
HE307S	N	500	200	N	30	<200	100	N	.05	--	75	--	--
HE308S	N	300	150	N	50	<200	200	N	1.50	--	150	--	--
HE309S	N	300	300	N	20	<200	150	N	N	--	90	--	--
HE310S	N	200	300	N	20	<200	50	N	N	--	75	--	--
HE311S	N	150	300	N	30	<200	70	N	N	--	100	--	--
HE312S	N	150	300	N	20	N	50	N	N	--	60	--	--
HE313S	N	300	500	N	30	<200	70	N	1.50	--	150	--	--
HE314S	N	500	100	N	20	N	200	N	<.05	--	70	--	--
HE315S	N	500	200	N	70	N	700	N	N	--	60	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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
HE316S	63 4 50	147 56 20	5.0	1.00	1.50	.70	1,500	<.5	N	N	70	700
HE317S	63 7 45	147 0 5	5.0	1.00	1.50	.30	1,000	1.0	N	N	30	200
HE318S	63 7 20	147 0 10	7.0	1.00	2.00	.70	1,500	N	N	N	30	70
HE319S	63 6 20	147 0 45	5.0	1.00	2.00	.50	1,000	N	N	N	30	300
HE320S	63 5 20	147 0 45	7.0	1.00	1.50	.30	1,000	N	N	N	30	500
HE321S	63 4 25	147 3 10	3.0	.70	1.50	.30	1,000	N	N	N	30	500
HE322S	63 3 50	147 4 0	3.0	.70	1.00	.20	1,000	N	N	N	30	700
HE323S	63 3 20	147 1 20	5.0	1.00	1.50	.50	1,000	N	N	N	50	500
HE324S	63 2 55	147 9 40	3.0	.70	1.00	.20	1,000	N	N	N	30	700
HE325S	63 3 40	147 11 40	5.0	1.00	1.50	.30	1,000	N	N	N	30	300
HE326S	63 4 0	147 14 20	5.0	1.00	1.50	.30	1,000	N	N	N	30	300
HE327S	63 4 10	147 14 40	7.0	1.00	1.50	.50	1,000	N	N	N	50	300
HE328S	63 6 0	147 7 0	7.0	1.50	2.00	.70	1,000	<.5	N	N	20	200
HE329S	63 5 50	147 7 30	7.0	2.00	3.00	.70	1,000	N	N	N	20	200
HE330S	63 7 55	147 17 30	7.0	.70	1.00	.30	1,000	N	<200	N	70	700
HE331S	63 7 55	147 17 50	5.0	.70	.70	.30	700	N	N	N	100	700
HE332S	63 6 55	147 16 15	7.0	2.00	2.00	.70	1,000	N	N	N	50	150
HE333S	63 5 50	147 19 45	5.0	2.00	2.00	.50	1,000	N	N	N	10	200
HE334S	63 6 0	147 19 10	5.0	1.50	1.50	.30	700	N	N	N	20	200
HE335S	63 5 15	147 17 25	3.0	1.50	1.50	.20	1,000	<.5	N	N	20	300
HE336S	63 5 5	147 20 5	5.0	1.00	3.00	.30	1,000	N	N	N	15	200
HE337S	63 5 5	147 19 35	7.0	2.00	3.00	.70	1,000	N	N	N	20	300
HE338S	63 6 40	147 22 45	7.0	1.50	3.00	.50	1,500	N	500	N	20	100
HE339S	63 6 40	147 23 40	7.0	2.00	3.00	1.00	1,500	N	N	N	30	100
HE340S	63 8 25	147 24 15	5.0	1.50	1.00	.50	1,000	N	N	N	100	1,000
HE341S	63 8 30	147 23 40	5.0	1.50	1.50	.50	1,000	<.5	N	N	100	700
HE342S	63 14 5	147 15 10	5.0	2.00	2.00	.30	2,000	N	N	N	70	500
HE343S	63 9 35	147 12 55	10.0	2.00	3.00	.30	1,500	<.5	N	N	30	1,000
HE344S	63 11 50	147 16 25	5.0	1.00	.70	1.00	1,000	.5	N	N	150	300
HE345S	63 10 50	147 17 0	5.0	1.00	1.00	.30	1,000	N	N	N	150	500
HE346S	63 10 45	147 17 25	7.0	1.50	1.50	.50	1,000	N	N	N	150	700
HE347S	63 11 0	147 18 35	5.0	1.00	1.00	.30	1,000	N	N	N	100	500
HE348S	63 12 15	147 21 15	5.0	1.00	2.00	.70	3,000	N	N	N	50	300
HE349S	63 12 10	147 23 30	5.0	1.00	1.50	.70	2,000	N	N	N	70	300
HE350S	63 10 40	147 22 35	7.0	1.00	1.50	.70	1,000	<.5	N	N	50	500
HE351S	63 11 50	148 35 0	2.0	.30	.20	.20	700	1.0	N	N	70	500
HE352S	63 11 45	148 34 50	3.0	.50	.50	.30	1,000	.5	N	N	70	700
HE353S	63 11 0	148 32 5	7.0	.70	.70	1.00	1,500	1.5	N	N	50	1,000
HE354S	63 11 20	148 32 40	3.0	.70	.50	.30	1,500	.7	N	N	100	1,000
HE355S	63 12 30	148 27 5	5.0	.70	.70	.70	1,000	2.0	N	N	50	1,000
HE356S	63 10 55	148 28 35	5.0	.70	.50	.50	1,000	1.5	N	N	100	1,000
HE357S	63 11 55	148 25 25	1.5	.30	.30	.20	700	<.5	N	N	30	500
HE358S	63 12 25	148 21 15	5.0	1.00	1.00	.50	1,000	.5	N	N	70	1,000
HE359S	63 10 30	148 18 40	5.0	.70	1.50	.50	1,500	N	N	N	30	1,000
HE360S	63 9 30	148 22 35	3.0	.70	1.50	.50	1,500	20.0	N	N	20	1,000

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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	Sb-ppm s	Sc-ppm s
HE316S	1.5	N	N	15	150	50	30	N	N	30	20	N	15
HE317S	<1.0	N	N	20	150	100	<20	N	N	70	10	N	20
HE318S	<1.0	N	N	30	150	150	<20	N	N	100	<10	N	30
HE319S	1.0	N	N	30	150	100	20	N	N	100	<10	N	30
HE320S	<1.0	N	N	30	200	100	<20	N	N	100	10	N	30
HE321S	1.0	N	N	20	100	100	<20	N	N	70	15	N	20
HE322S	1.0	N	N	15	150	70	20	N	N	70	15	N	20
HE323S	1.0	N	N	20	150	70	<20	N	N	100	10	N	30
HE324S	1.0	N	N	15	150	100	20	N	N	70	15	N	30
HE325S	<1.0	N	N	30	100	300	<20	N	N	50	15	N	30
HE326S	1.0	N	N	30	150	100	20	N	N	70	15	N	30
HE327S	2.0	N	N	50	200	100	50	N	<20	150	15	N	30
HE328S	<1.0	N	N	70	200	300	20	N	N	100	10	N	30
HE329S	<1.0	N	N	70	200	150	<20	N	N	100	<10	N	30
HE330S	1.0	N	N	30	150	70	20	N	N	70	10	N	30
HE331S	1.0	N	N	20	100	100	20	N	N	50	10	N	20
HE332S	<1.0	N	N	50	200	300	20	N	N	100	<10	N	30
HE333S	<1.0	N	N	50	200	150	20	N	N	100	<10	N	30
HE334S	1.0	N	N	30	150	150	20	N	N	70	15	N	20
HE335S	1.0	N	N	20	200	100	20	N	N	100	20	N	20
HE336S	<1.0	N	N	30	300	150	20	N	N	100	<10	N	30
HE337S	<1.0	N	N	70	500	150	20	N	N	100	10	N	30
HE338S	<1.0	N	N	50	200	200	<20	N	N	70	<10	N	30
HE339S	1.0	N	N	50	300	200	20	N	N	100	10	N	50
HE340S	2.0	N	N	30	100	100	30	N	N	100	20	N	30
HE341S	1.5	N	N	30	100	150	20	N	N	100	20	N	30
HE342S	1.5	N	N	20	300	50	30	N	N	150	15	N	30
HE343S	1.0	N	N	50	150	100	30	N	N	30	15	N	50
HE344S	1.5	N	N	30	100	150	30	N	20	70	20	N	20
HE345S	1.5	N	N	30	100	100	20	N	N	70	15	N	20
HE346S	1.5	N	N	30	200	70	20	N	N	70	10	N	20
HE347S	1.5	N	N	30	150	100	20	N	N	70	10	N	20
HE348S	1.5	N	N	15	150	70	50	N	<20	50	20	N	20
HE349S	1.5	N	N	15	150	70	20	N	<20	50	20	N	20
HE350S	1.0	N	N	20	150	100	30	N	N	70	15	N	30
HE351S	5.0	N	N	5	20	7	50	N	20	7	30	N	7
HE352S	20.0	N	N	10	30	15	70	N	20	15	50	N	10
HE353S	3.0	N	N	50	150	70	50	N	20	70	30	N	15
HE354S	10.0	N	N	50	200	50	50	N	<20	150	70	N	15
HE355S	2.0	N	N	20	200	50	50	N	<20	70	20	N	15
HE356S	2.0	N	N	20	200	70	20	N	N	100	20	N	15
HE357S	7.0	N	N	7	30	20	70	N	30	15	70	N	7
HE358S	2.0	N	N	15	150	50	30	N	<20	70	30	N	15
HE359S	2.0	N	N	15	70	30	100	N	<20	15	20	N	15
HE360S	2.0	N	N	15	70	50	100	N	<20	20	70	N	15

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Sb-ppm aa
HE316S	N	500	150	N	30	<200	200	N	N	--	100	--	--
HE317S	N	200	200	N	15	<200	70	N	N	--	75	--	--
HE318S	N	200	300	N	20	<200	50	N	N	--	90	--	--
HE319S	N	200	200	N	20	<200	70	N	N	--	85	--	--
HE320S	N	200	300	N	30	<200	70	N	N	--	95	--	--
HE321S	N	150	200	N	30	<200	100	N	N	--	110	--	--
HE322S	N	150	150	N	30	<200	100	N	N	--	120	--	--
HE323S	N	200	200	N	30	<200	100	N	N	--	80	--	--
HE324S	N	150	100	N	20	N	70	N	N	--	90	--	--
HE325S	N	150	200	N	20	<200	50	N	N	--	95	--	--
HE326S	N	200	200	N	20	<200	70	N	.20	--	100	--	--
HE327S	N	200	200	N	30	<200	150	N	N	--	130	--	--
HE328S	N	200	300	N	30	<200	100	N	N	--	90	--	--
HE329S	N	200	300	N	30	<200	70	N	N	--	80	--	--
HE330S	N	300	300	N	20	<200	70	N	N	--	80	--	--
HE331S	N	300	200	50	20	<200	100	N	.20	--	100	--	--
HE332S	N	300	300	N	30	<200	70	N	N	--	90	--	--
HE333S	N	200	200	N	30	N	50	N	<.05	--	80	--	--
HE334S	N	150	200	N	20	N	70	N	N	--	100	--	--
HE335S	N	200	150	N	15	<200	50	N	N	--	130	--	--
HE336S	N	200	200	N	20	<200	70	N	N	--	75	--	--
HE337S	N	200	300	N	30	<200	70	N	N	--	95	--	--
HE338S	N	150	300	N	20	<200	70	N	N	--	80	--	--
HE339S	N	300	300	N	30	<200	70	N	N	--	70	--	--
HE340S	N	300	200	N	30	<200	200	N	N	--	110	--	--
HE341S	N	300	200	N	30	<200	150	N	N	--	100	--	--
HE342S	N	500	150	N	30	<200	150	N	N	--	60	--	--
HE343S	N	1,000	300	N	20	<200	50	N	N	--	60	--	--
HE344S	N	500	200	N	30	<200	200	N	1.50	--	80	--	--
HE345S	N	300	200	N	20	<200	100	N	.20	--	100	--	--
HE346S	N	300	200	N	30	<200	200	N	N	--	100	--	--
HE347S	N	200	200	N	20	<200	100	N	N	--	110	--	--
HE348S	N	500	200	N	50	<200	200	N	.20	--	60	--	--
HE349S	N	500	150	N	30	<200	100	N	.50	--	70	--	--
HE350S	N	300	300	N	50	<200	200	N	N	--	90	--	--
HE351S	N	100	30	N	70	<200	300	N	N	--	100	--	--
HE352S	N	150	70	N	70	<200	200	N	N	--	120	--	--
HE353S	N	200	200	N	50	<200	300	N	N	--	160	--	--
HE354S	N	150	150	N	100	200	500	N	N	--	200	--	--
HE355S	N	200	200	N	30	<200	200	N	N	--	110	--	--
HE356S	N	150	200	N	50	200	150	N	N	--	130	--	--
HE357S	N	100	50	N	100	<200	500	N	N	--	120	--	--
HE358S	N	200	200	N	30	<200	200	N	N	--	100	--	--
HE359S	N	300	70	N	50	<200	1,000	N	N	--	80	--	--
HE360S	15	300	100	N	50	<200	500	N	N	--	150	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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
HE361S	63 8 40	148 25 15	5.0	1.00	1.50	1.00	1,500	<.5	N	N	50	1,000
HE362S	63 8 20	148 26 50	3.0	.50	1.00	.30	1,000	N	N	N	50	1,000
HE363S	63 6 5	148 27 50	5.0	.70	1.50	.30	1,500	N	N	N	20	1,000
HE364S	63 0 30	148 10 5	5.0	.70	1.50	>1.00	3,000	N	N	N	30	500
HE365S	63 2 0	148 12 0	7.0	1.00	2.00	.70	1,500	N	N	N	10	700
HE366S	63 3 55	148 9 10	5.0	1.00	2.00	.50	1,000	<.5	N	N	10	500
HE367S	63 3 35	148 7 0	5.0	.70	1.50	.50	1,000	<.5	N	N	50	1,000
HE368S	63 3 45	148 6 40	5.0	.70	2.00	.50	1,500	N	N	N	50	700
HE369S	63 4 50	148 4 35	5.0	1.00	2.00	.70	1,500	<.5	N	N	70	700
HE370S	63 6 50	147 26 0	7.0	2.00	5.00	.70	1,500	<.5	N	N	50	200
HE371S	63 6 45	147 14 30	10.0	7.00	5.00	.50	1,500	<.5	N	N	30	150
HE372S	63 6 45	147 12 25	10.0	7.00	7.00	.50	1,500	.5	N	N	30	500
HE373S	63 6 10	147 9 25	7.0	7.00	5.00	.50	1,500	<.5	N	N	50	1,000
HE374S	63 7 15	147 8 55	10.0	2.00	5.00	1.00	1,500	<.5	N	N	70	150
HE375S	63 9 25	147 27 30	7.0	2.00	2.00	1.00	1,000	<.5	N	N	100	1,000
HE376S	63 10 10	147 25 40	7.0	2.00	1.50	.50	1,000	.5	N	N	100	1,000
HE377S	63 10 30	147 24 10	7.0	2.00	2.00	.70	1,000	<.5	N	N	100	1,000
HE378S	63 0 20	147 36 45	10.0	3.00	5.00	.50	1,000	<.5	N	N	20	300
HE379S	63 3 25	147 35 40	7.0	2.00	3.00	.70	2,000	<.5	N	N	70	1,000
HE380S	63 6 15	147 34 30	7.0	3.00	5.00	.70	1,500	N	N	N	70	1,500
HE381S	63 0 10	149 50 30	7.0	5.00	.30	.30	1,000	.7	N	N	150	1,500
HE382S	63 1 55	149 51 5	7.0	3.00	.70	.30	1,000	<.5	N	N	100	700
HE383S	63 3 55	149 43 25	7.0	1.50	1.00	1.00	3,000	.5	N	N	50	2,000
HE384S	63 6 25	149 51 25	5.0	2.00	5.00	.50	1,000	<.5	N	N	100	700
HE385S	63 6 55	149 53 30	5.0	1.50	.70	.30	700	.7	500	N	100	1,000
HE386S	63 8 45	149 47 45	10.0	3.00	7.00	1.00	1,000	<.5	N	N	70	1,500
HE387S	63 8 50	149 47 30	5.0	.70	3.00	.50	700	.5	N	N	100	>5,000
HE388S	63 7 15	149 48 55	7.0	2.00	5.00	1.00	1,000	.5	N	N	70	>5,000
HE389S	63 9 25	149 54 40	5.0	1.50	.50	.50	1,000	.5	N	N	150	1,500
HE390S	63 9 30	149 54 15	5.0	2.00	1.00	.30	1,000	.5	N	N	150	2,000
HE391S	63 8 55	149 51 50	10.0	2.00	2.00	1.00	700	15.0	1,000	N	100	5,000
HE392S	63 8 50	149 54 10	7.0	3.00	1.00	.50	1,000	1.0	N	N	150	200
HE393S	63 2 10	149 56 15	5.0	1.50	.50	.30	500	<.5	N	N	100	500
HE394S	63 2 30	149 57 0	7.0	2.00	2.00	.50	700	.7	N	N	100	1,000
HE395S	63 1 40	149 56 35	7.0	3.00	1.00	.50	1,000	<.5	N	N	100	700
HE396S	63 0 40	149 54 0	7.0	1.50	.70	.70	1,000	.5	N	N	100	1,000
HE397S	63 3 45	149 52 15	7.0	3.00	7.00	1.00	1,000	.7	N	N	30	1,500
HE398S	63 3 10	149 49 20	7.0	2.00	.70	.30	700	.7	N	N	70	700
HE399S	63 5 55	149 36 20	7.0	1.50	1.50	.30	1,000	.7	N	N	100	2,000
HE400S	63 21 0	149 11 35	7.0	7.00	.20	.30	5,000	N	N	N	150	5,000
HE401S	63 6 10	149 41 30	5.0	1.00	.50	.50	2,000	<.5	N	N	200	1,500
HE402S	63 8 10	149 42 0	7.0	5.00	.70	.30	1,500	<.5	N	N	200	1,000
HE403S	63 9 25	149 43 0	10.0	3.00	2.00	.30	1,000	N	N	N	100	500
HE404S	63 9 40	149 42 45	7.0	2.00	2.00	.30	1,000	N	N	N	70	700
HE405S	63 10 0	149 44 10	7.0	1.00	2.00	.50	1,000	7.0	N	N	100	5,000

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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	Sb-ppm s	Sc-ppm s
HE361S	3.0	N	N	15	100	30	30	N	20	50	50	N	15
HE362S	3.0	N	N	15	70	15	150	N	<20	50	10	N	15
HE363S	1.5	N	N	20	50	100	100	5	<20	50	15	N	20
HE364S	2.0	N	N	15	50	<5	200	N	30	10	10	N	20
HE365S	1.5	N	N	15	70	15	200	N	20	15	20	N	20
HE366S	2.0	N	N	15	50	10	30	N	<20	15	15	N	20
HE367S	2.0	N	N	15	150	30	30	N	<20	50	10	N	20
HE368S	2.0	N	N	15	300	20	100	N	<20	30	15	N	20
HE369S	2.0	N	N	15	100	20	70	N	<20	20	15	N	20
HE370S	1.5	N	N	30	300	150	50	N	<20	100	15	N	50
HE371S	<1.0	N	N	70	1,000	300	20	N	N	300	10	N	50
HE372S	<1.0	N	N	70	1,000	200	20	N	N	200	10	N	70
HE373S	<1.0	N	N	70	2,000	100	30	N	N	200	15	N	50
HE374S	<1.0	N	N	70	700	300	30	N	N	100	10	N	50
HE375S	1.5	N	N	50	200	150	50	N	<20	100	15	N	30
HE376S	1.5	N	N	70	200	150	30	N	<20	100	15	N	30
HE377S	1.5	N	N	50	150	150	50	N	<20	70	20	N	50
HE378S	<1.0	N	N	70	300	200	30	N	N	100	10	N	50
HE379S	2.0	N	N	30	300	50	30	N	20	70	15	N	30
HE380S	1.5	N	N	20	200	30	70	N	<20	30	15	N	30
HE381S	2.0	N	N	70	1,500	100	30	N	<20	300	10	N	15
HE382S	1.0	N	N	50	2,000	100	20	N	N	300	10	N	30
HE383S	1.5	N	N	30	150	200	20	N	<20	70	20	N	30
HE384S	1.5	N	N	20	500	100	20	N	N	100	20	N	30
HE385S	1.5	N	N	20	300	100	20	N	<20	150	10	N	20
HE386S	1.5	N	N	70	500	500	30	N	<20	150	10	N	30
HE387S	2.0	N	N	20	200	150	20	10	<20	100	10	N	20
HE388S	1.5	N	N	50	300	700	20	N	20	150	10	N	20
HE389S	2.0	N	N	30	300	100	20	N	N	150	15	N	20
HE390S	1.5	N	N	20	300	100	50	N	N	150	20	N	20
HE391S	2.0	N	N	70	300	1,000	30	N	<20	100	150	N	30
HE392S	2.0	N	N	50	500	200	30	N	<20	2	50	N	30
HE393S	1.5	N	N	20	500	100	30	N	N	150	20	N	20
HE394S	1.5	N	N	30	1,000	100	20	N	<20	150	20	N	20
HE395S	1.0	N	N	50	500	100	20	N	N	150	20	N	30
HE396S	2.0	N	N	30	300	100	30	N	20	100	30	N	20
HE397S	1.5	N	N	50	700	200	20	N	<20	150	30	N	30
HE398S	1.0	N	N	30	700	300	20	N	N	200	15	N	30
HE399S	1.5	N	N	30	700	100	20	N	N	150	15	N	20
HE400S	3.0	N	N	70	200	300	30	10	20	150	30	N	20
HE401S	2.0	N	N	50	1,000	150	30	7	<20	150	20	N	20
HE402S	1.0	N	N	50	1,000	100	20	N	N	200	20	N	20
HE403S	1.0	N	N	50	2,000	100	20	N	N	150	20	N	30
HE404S	1.5	N	N	30	700	70	20	N	N	100	15	N	30
HE405S	1.5	N	N	30	300	700	30	N	<20	100	500	N	20

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Sb-ppm aa
HE361S	N	300	150	N	30	<200	200	N	N	--	100	--	--
HE362S	N	300	100	N	50	<200	700	N	N	--	90	--	--
HE363S	N	500	150	N	30	<200	1,000	N	N	--	70	--	--
HE364S	N	300	100	N	150	N	1,000	N	N	--	30	--	--
HE365S	N	500	100	N	50	N	500	N	N	--	55	--	--
HE366S	N	500	150	N	30	N	300	N	N	--	55	--	--
HE367S	N	300	150	N	50	<200	200	N	N	--	120	--	--
HE368S	N	500	100	N	50	<200	300	N	N	--	100	--	--
HE369S	N	500	100	N	50	<200	1,000	N	N	--	75	--	--
HE370S	N	700	300	N	50	N	300	N	N	--	65	--	--
HE371S	N	500	500	N	30	N	100	N	N	--	75	--	--
HE372S	N	500	500	N	30	<200	100	N	N	--	100	--	--
HE373S	N	300	500	N	30	<200	70	N	N	--	110	--	--
HE374S	N	300	500	N	30	<200	100	N	.20	--	85	--	--
HE375S	N	700	300	N	50	<200	150	N	N	--	100	--	--
HE376S	N	300	200	N	50	<200	200	N	.35	--	110	--	--
HE377S	N	500	200	N	50	<200	150	N	.10	--	95	--	--
HE378S	N	500	300	N	30	N	150	N	N	--	50	--	--
HE379S	N	500	200	N	50	N	300	N	.40	--	50	--	--
HE380S	N	700	200	N	50	N	200	N	N	--	45	--	--
HE381S	200	100	200	N	30	500	150	N	N	--	260	--	--
HE382S	N	150	300	N	30	<200	100	N	N	--	110	--	--
HE383S	N	200	200	N	70	200	200	N	N	--	150	--	--
HE384S	N	500	200	N	30	<200	200	N	.05	--	75	--	--
HE385S	N	200	200	N	30	<200	150	N	N	--	120	--	--
HE386S	N	500	300	N	70	<200	200	N	N	--	110	--	--
HE387S	N	500	200	N	50	300	200	N	N	--	200	--	--
HE388S	N	500	300	N	50	<200	200	N	N	--	150	--	--
HE389S	N	150	200	N	30	<200	300	N	.05	--	130	--	--
HE390S	N	200	200	N	50	<200	300	N	.40	--	130	--	--
HE391S	150	300	300	N	50	300	200	N	N	--	280	--	--
HE392S	N	200	300	<50	30	200	150	N	N	--	180	--	--
HE393S	N	150	200	<50	20	<200	200	N	N	--	120	--	--
HE394S	N	300	300	N	30	<200	150	N	N	--	110	--	--
HE395S	N	200	200	N	30	<200	100	N	N	--	110	--	--
HE396S	300	200	200	N	30	<200	500	N	.50	--	130	--	--
HE397S	N	500	300	N	50	<200	150	N	N	--	100	--	--
HE398S	N	150	200	N	30	<200	100	N	N	--	130	--	--
HE399S	N	200	200	N	30	200	150	N	N	--	140	--	--
HE400S	N	150	200	N	50	500	150	N	N	--	440	--	--
HE401S	N	100	200	N	50	500	150	N	N	--	400	--	--
HE402S	N	150	200	N	30	200	100	N	N	--	170	--	--
HE403S	N	150	200	N	30	<200	70	N	N	--	50	--	--
HE404S	N	150	200	N	20	<200	100	N	N	--	50	--	--
HE405S	N	200	150	N	30	<200	150	N	N	--	150	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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
HE406S	63 11 0	149 47 15	7.0	1.00	2.00	1.00	700	1.0	N	N	70	5,000
HE407S	63 10 55	149 47 25	7.0	1.00	.50	.50	1,000	.7	N	N	150	3,000
HE408S	63 8 55	149 37 45	7.0	2.00	3.00	.30	700	.7	N	N	150	1,500
HE409S	63 8 50	149 37 20	7.0	3.00	.70	.50	2,000	.5	N	N	100	1,000
HE410S	63 7 50	149 38 45	3.0	.50	.20	.30	1,000	2.0	N	N	150	1,500
HE411S	63 11 35	149 39 30	7.0	2.00	1.00	.50	1,000	.5	N	N	150	1,000
HE412S	63 11 50	149 39 40	7.0	1.00	5.00	.50	1,000	<.5	N	N	100	1,500
HE413S	63 11 45	149 39 50	7.0	2.00	.50	.50	1,500	.5	N	N	150	1,000
HE414S	63 11 35	149 43 40	5.0	.70	2.00	.30	700	N	N	N	100	1,500
HE415S	63 11 30	149 43 15	7.0	1.00	.50	.50	700	<.5	N	N	150	700
HE416S	63 13 10	149 44 30	5.0	1.00	.70	.30	2,000	.5	N	N	150	5,000
HE417S	63 14 30	149 41 25	5.0	1.00	.70	.30	2,000	<.5	N	N	150	2,000
HE418S	63 14 35	149 41 40	7.0	2.00	.70	.50	1,000	<.5	N	N	200	1,500
HE419S	63 14 5	149 40 35	5.0	1.00	.70	.50	1,000	<.5	N	N	150	5,000
HE420S	63 14 0	149 40 0	7.0	1.00	.30	.50	700	.5	N	N	100	1,000
HE421S	63 25 0	148 52 35	5.0	1.00	1.00	.70	1,000	<.5	N	N	100	1,500
HE422S	63 27 45	148 48 5	5.0	1.00	.70	.50	700	<.5	N	N	70	700
HE423S	63 52 5	148 27 45	5.0	.70	.50	.50	700	<.5	N	N	100	700
HE424S	63 52 15	148 28 5	7.0	.50	.70	.50	1,000	N	N	N	150	500
HE425S	63 52 30	148 30 35	5.0	.50	.50	.50	700	<.5	N	N	100	700
HE426S	63 52 10	148 31 10	7.0	.70	.70	.50	1,000	N	N	N	200	500
HE427S	63 52 45	148 32 40	7.0	.50	.50	.50	700	N	N	N	100	700
HE428S	63 50 30	148 35 10	7.0	.70	.50	.50	700	.5	N	N	70	500
HE429S	63 49 45	148 34 25	7.0	.70	1.00	.50	1,000	1.0	N	N	150	700
HE430S	63 49 50	148 34 0	5.0	.70	.70	.50	1,000	2.0	N	N	100	700
HE431S	63 52 0	148 42 15	5.0	.50	.50	1.00	1,000	N	N	N	70	700
HE432S	63 50 40	148 41 20	3.0	.50	.50	.50	1,000	N	N	N	150	700
HE433S	63 50 50	148 41 35	5.0	.50	.50	.50	700	<.5	N	N	100	500
HE434S	63 50 0	148 46 10	3.0	.50	.50	.50	700	N	N	N	70	700
HE435S	63 51 10	148 48 0	3.0	.50	.30	.50	700	<.5	N	N	100	700
HE436S	63 51 45	148 47 55	1.5	.30	.70	.30	700	<.5	N	N	50	1,500
HE437S	63 50 15	148 52 45	3.0	.50	.50	.50	1,000	<.5	N	N	70	700
HE438S	63 49 50	148 55 40	1.5	.20	.15	1.00	700	N	N	N	100	700
HE439S	63 54 45	148 36 20	5.0	.50	.20	.30	1,000	.5	N	N	150	1,500
HE440S	63 56 35	148 37 40	1.5	.30	.50	1.00	1,000	N	N	N	50	1,500
HE441S	63 55 30	148 39 0	1.0	.30	.30	.50	700	<.5	N	N	50	1,500
HE442S	63 55 20	148 41 50	1.5	.30	.50	.50	700	<.5	N	N	70	1,500
HE443S	63 55 15	148 41 45	1.5	.20	.20	.50	700	<.5	N	N	70	1,500
HE444S	63 55 25	148 43 35	2.0	.30	1.00	.70	700	<.5	N	N	70	1,500
HE445S	63 55 35	148 45 15	5.0	.50	1.50	1.00	1,000	<.5	N	N	70	1,000
HE446S	63 55 25	148 47 20	5.0	.30	.20	.70	700	<.5	N	N	200	1,000
HE447S	63 55 20	148 49 40	5.0	.70	1.00	1.00	1,000	<.5	N	N	70	1,000
HE448S	63 55 0	148 50 0	7.0	.50	.50	.50	700	3.0	N	N	100	1,000
HE449S	63 55 20	148 50 40	2.0	.30	.30	.50	500	<.5	N	N	100	1,000
HE450S	63 55 0	148 52 20	5.0	.30	.70	>1.00	1,000	N	N	N	70	1,000

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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	Sb-ppm s	Sc-ppm s
HE406S	1.0	N	N	30	200	300	20	N	<20	100	15	N	20
HE407S	2.0	N	N	30	200	200	30	5	N	150	20	N	20
HE408S	1.5	N	N	30	1,000	150	20	N	N	150	20	N	20
HE409S	1.5	N	N	30	1,500	100	20	N	N	150	30	N	20
HE410S	2.0	N	N	20	150	100	20	N	N	70	10	N	20
HE411S	1.0	N	N	50	500	100	20	N	N	150	20	N	30
HE412S	1.5	N	N	50	300	100	20	N	<20	100	20	N	20
HE413S	1.5	N	N	30	200	150	20	N	N	150	50	N	20
HE414S	2.0	N	N	30	150	100	20	N	N	100	10	N	20
HE415S	2.0	N	N	30	200	100	30	N	N	70	20	N	20
HE416S	2.0	N	N	50	200	150	30	N	N	150	20	N	20
HE417S	2.0	N	N	50	200	100	20	N	<20	150	15	N	20
HE418S	2.0	N	N	30	300	100	30	N	<20	150	20	N	20
HE419S	2.0	N	N	30	300	150	20	7	<20	100	15	N	20
HE420S	1.5	N	N	30	700	100	20	N	N	100	20	N	20
HE421S	1.5	N	N	20	500	50	70	N	<20	100	20	N	20
HE422S	1.5	N	N	20	500	100	50	5	<20	100	20	N	20
HE423S	2.0	N	N	30	100	70	70	N	<20	100	70	N	30
HE424S	1.5	N	N	30	150	100	50	N	20	100	50	N	30
HE425S	2.0	N	N	20	70	50	100	N	20	70	200	N	30
HE426S	1.5	N	N	70	100	150	100	N	20	100	70	N	30
HE427S	2.0	N	N	30	70	70	100	N	20	100	100	N	30
HE428S	1.5	N	N	50	100	100	70	N	<20	150	70	N	20
HE429S	2.0	N	N	50	150	200	50	N	<20	100	70	N	20
HE430S	1.5	<10	N	50	200	100	70	N	<20	150	300	N	30
HE431S	1.5	N	N	30	150	150	70	N	20	100	50	N	30
HE432S	1.5	N	N	30	150	100	70	N	20	100	50	N	30
HE433S	1.5	N	N	70	100	100	150	N	20	100	50	N	20
HE434S	1.5	N	N	50	100	100	70	N	20	70	30	N	20
HE435S	1.5	N	N	30	150	50	100	N	20	70	50	N	30
HE436S	1.0	N	N	15	500	30	70	N	20	50	10	N	20
HE437S	1.5	N	N	50	150	100	70	N	<20	100	30	N	20
HE438S	1.5	N	N	15	70	30	50	N	20	30	50	N	20
HE439S	2.0	N	N	50	100	150	100	N	<20	100	100	N	30
HE440S	1.0	N	N	15	700	10	70	N	20	15	10	N	15
HE441S	1.5	N	N	15	300	10	50	N	<20	20	20	N	15
HE442S	1.5	N	N	15	500	10	30	N	20	30	15	N	20
HE443S	1.5	N	N	15	200	20	50	N	<20	30	30	N	20
HE444S	1.5	N	N	15	700	15	70	N	<20	20	15	N	20
HE445S	1.5	N	N	15	700	15	100	N	20	50	30	N	20
HE446S	1.5	N	N	15	150	70	70	N	<20	70	20	N	10
HE447S	2.0	N	N	15	700	30	50	N	<20	70	10	N	20
HE448S	2.0	N	N	50	70	100	70	N	<20	70	50	N	15
HE449S	2.0	N	N	15	300	10	20	N	<20	30	15	N	70
HE450S	1.0	N	N	15	700	10	70	N	30	15	15	N	30

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Sb-ppm aa
HE406S	N	200	200	N	50	<200	150	N	.05	--	150	--	--
HE407S	N	150	200	N	50	200	200	N	N	--	170	--	--
HE408S	N	300	200	N	30	<200	100	N	N	--	110	--	--
HE409S	N	200	150	N	20	<200	100	N	N	--	110	--	--
HE410S	N	100	200	N	30	<200	150	N	N	--	100	--	--
HE411S	N	200	300	N	30	<200	100	N	N	--	100	--	--
HE412S	N	300	200	N	20	<200	150	N	N	--	110	--	--
HE413S	N	150	200	N	30	<200	150	N	N	--	120	--	--
HE414S	N	300	200	N	30	<200	200	N	N	--	120	--	--
HE415S	N	150	200	N	30	<200	150	N	N	--	100	--	--
HE416S	N	200	200	N	50	200	200	N	N	--	180	--	--
HE417S	N	200	200	N	30	<200	200	N	N	--	170	--	--
HE418S	N	200	200	N	30	<200	200	N	N	--	150	--	--
HE419S	N	300	200	N	30	200	200	N	N	--	190	--	--
HE420S	N	200	200	N	20	<200	150	N	N	--	90	--	--
HE421S	N	300	200	N	30	<200	200	N	N	--	120	--	--
HE422S	N	150	200	N	30	<200	500	N	N	--	100	--	--
HE423S	N	100	100	N	50	<200	700	N	N	--	130	--	--
HE424S	N	100	100	N	30	<200	700	N	N	--	120	--	--
HE425S	N	100	70	N	100	<200	>1,000	N	N	--	110	--	--
HE426S	N	150	100	N	50	<200	500	N	N	--	130	--	--
HE427S	N	100	70	N	50	<200	700	N	N	--	140	--	--
HE428S	N	100	70	N	30	<200	300	N	N	--	120	--	--
HE429S	N	100	70	N	150	<200	500	N	N	--	120	--	--
HE430S	N	200	100	N	30	<200	700	N	N	--	110	--	--
HE431S	N	200	100	N	30	<200	1,000	N	N	--	120	--	--
HE432S	N	150	70	N	30	<200	1,000	N	N	--	120	--	--
HE433S	N	100	70	N	30	<200	700	N	N	--	130	--	--
HE434S	N	150	70	N	20	<200	200	N	N	--	130	--	--
HE435S	N	150	70	N	30	<200	300	N	N	--	110	--	--
HE436S	N	200	100	N	20	N	200	N	1.00	--	60	--	--
HE437S	N	100	70	N	50	<200	500	N	N	--	100	--	--
HE438S	N	150	70	N	20	N	300	N	N	--	55	--	--
HE439S	N	100	70	N	50	200	500	N	N	--	190	--	--
HE440S	N	200	150	N	30	N	>1,000	N	N	--	40	--	--
HE441S	N	200	100	N	15	N	500	N	.10	--	40	--	--
HE442S	N	200	100	N	20	N	500	N	.70	--	40	--	--
HE443S	N	150	100	N	15	N	500	N	1.50	--	25	--	--
HE444S	N	300	100	N	30	N	300	N	N	--	35	--	--
HE445S	N	500	300	N	70	N	1,000	N	3.00	--	35	--	--
HE446S	N	150	100	N	50	N	700	N	N	--	90	--	--
HE447S	N	300	300	N	30	N	500	N	N	--	55	--	--
HE448S	N	100	150	N	100	<200	700	N	N	--	150	--	--
HE449S	N	200	100	N	15	N	300	N	N	--	40	--	--
HE450S	N	200	150	N	70	N	>1,000	N	.70	--	35	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	Au-ppm	B-ppm	Ba-ppm
			s	s	s	s	s	s	s	s	s	s
HE451S	63 54 40	148 53 45	1.5	.20	.20	.70	700	N	N	N	100	1,000
HE452S	63 52 35	149 52 15	5.0	.50	.15	.50	300	<.5	N	N	100	1,500
HE453S	63 53 5	149 48 15	7.0	.50	.30	.30	1,000	1.0	N	N	150	2,000
HE454S	63 54 15	149 50 5	5.0	.50	.20	.20	1,000	<.5	N	N	100	1,500
HE455S	63 55 50	149 52 30	5.0	.70	1.00	1.00	1,000	.5	N	N	100	1,500
HE456S	63 56 0	149 55 10	5.0	.30	.30	>1.00	3,000	N	N	N	100	1,000
HE457S	63 56 0	149 57 55	5.0	.50	.50	>1.00	1,500	N	N	N	70	1,000
HE458S	63 57 0	149 51 15	3.0	.50	.30	.30	1,000	.5	N	N	70	1,000
HE459S	63 58 15	149 50 45	5.0	.70	1.00	.50	1,000	<.5	N	N	100	1,500
HE460S	63 57 50	149 45 15	7.0	1.00	1.50	.70	1,500	<.5	N	N	70	1,500
HE461S	63 56 50	149 45 45	2.0	.50	1.50	.30	1,000	N	N	N	50	1,000
HE462S	63 56 40	149 40 35	7.0	.70	.20	.50	1,000	<.5	N	N	100	1,000
HE463S	63 57 45	149 39 50	7.0	.70	.30	.30	1,000	<.5	N	N	150	1,500
HE464S	63 57 5	149 37 40	5.0	.50	.20	.50	700	N	N	N	100	1,000
HE465S	63 58 30	149 37 35	5.0	.50	.15	.50	700	N	N	N	100	1,000
HE466S	63 59 5	149 33 35	5.0	.70	.70	.50	1,000	N	N	N	150	2,000
HE467S	63 58 50	149 24 30	5.0	.70	.70	.30	1,000	.5	N	N	150	>5,000
HE468S	63 59 0	149 24 20	5.0	.50	.50	.50	700	.5	N	N	100	>5,000
HE469S	63 59 35	149 27 15	3.0	.50	.30	.50	700	N	N	N	100	2,000
HE470S	63 55 55	149 23 15	3.0	.50	.30	.30	500	<.5	N	N	100	2,000
HE471S	63 56 15	149 26 30	5.0	.70	.50	.30	700	<.5	N	N	150	1,500
HE472S	63 56 35	149 29 35	3.0	.50	.70	.20	1,000	<.5	N	N	100	2,000
HE473S	63 56 0	149 30 50	5.0	1.00	.70	.30	500	<.5	N	N	150	1,500
HE474S	63 54 15	149 34 40	3.0	.50	.20	.50	700	<.5	N	N	100	1,500
HE475S	63 53 40	149 38 10	5.0	.50	.30	.30	2,000	N	N	N	70	1,500
HE476S	63 53 10	149 41 50	2.0	.30	.15	.20	700	N	N	N	100	1,000
HE477S	63 49 50	149 38 40	5.0	.50	1.00	1.00	1,000	<.5	N	N	50	1,000
HE478S	63 49 55	149 35 45	3.0	.70	1.50	1.00	1,000	<.5	N	N	70	1,000
HE479S	63 22 0	147 59 5	2.0	.70	2.00	.50	1,000	N	N	N	100	1,000
HE480S	63 22 35	147 57 0	2.0	.70	1.50	.50	1,000	N	N	N	70	1,000
HE481S	63 23 10	147 53 50	5.0	.70	2.00	1.00	2,000	N	N	N	100	700
HE482S	63 24 20	147 51 40	2.0	.50	1.50	.50	1,000	N	N	N	100	1,000
HE483S	63 24 50	147 55 55	2.0	.50	3.00	.30	700	1.5	N	N	70	1,000
HE484S	63 26 30	147 54 10	3.0	.70	2.00	1.00	1,500	1.0	N	N	100	1,500
HE485S	63 26 15	147 48 45	3.0	.70	1.50	.30	1,000	<.5	N	N	100	700
HE486S	63 27 35	147 51 50	3.0	1.00	3.00	.50	700	1.0	N	N	100	1,500
HE487S	63 29 20	147 48 50	3.0	.70	3.00	.70	1,000	1.0	N	N	100	1,500
HE488S	63 31 45	147 40 0	1.0	.30	2.00	.10	500	N	N	N	20	700
HE489S	63 31 50	147 39 10	3.0	1.00	.70	.20	1,000	.5	N	N	100	700
HE490S	63 30 35	147 41 10	1.0	.70	1.00	.15	700	N	N	N	150	300
HE493S	63 26 10	147 44 20	3.0	2.00	7.00	.50	700	3.0	N	N	150	2,000
HE494S	63 26 5	147 44 5	10.0	7.00	5.00	.70	1,000	<.5	N	N	70	1,000
HE495S	63 25 10	147 45 20	2.0	.50	1.00	.20	700	N	N	N	15	700
HE496S	63 28 5	147 39 0	7.0	3.00	3.00	1.00	1,000	1.5	N	N	100	1,500
HE497S	63 27 25	147 37 15	5.0	2.00	7.00	.70	1,000	1.5	N	N	100	1,500

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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	Sb-ppm s	Sc-ppm s
HE451S	1.0	N	N	15	200	7	20	N	<20	15	10	N	10
HE452S	2.0	N	N	10	100	20	70	7	20	30	20	N	20
HE453S	3.0	N	N	30	100	70	100	10	20	100	50	N	20
HE454S	2.0	N	N	15	70	20	70	N	<20	50	30	N	15
HE455S	2.0	N	N	20	300	30	50	5	<20	50	30	N	20
HE456S	1.5	N	N	50	150	15	200	N	30	30	20	N	20
HE457S	1.0	N	N	15	150	200	200	N	30	20	50	N	15
HE458S	3.0	N	N	15	150	20	30	5	<20	20	50	N	10
HE459S	1.5	N	N	15	150	20	50	N	<20	50	30	N	15
HE460S	1.5	N	N	20	300	30	30	N	20	50	50	N	20
HE461S	3.0	N	N	15	100	10	50	N	<20	30	20	N	15
HE462S	2.0	N	N	30	200	50	70	N	20	70	50	N	20
HE463S	2.0	N	N	30	200	50	100	N	20	70	70	N	20
HE464S	2.0	N	N	20	200	50	70	N	20	50	30	N	20
HE465S	3.0	N	N	20	150	50	50	N	20	50	50	N	20
HE466S	3.0	N	N	30	150	70	70	N	20	70	50	N	20
HE467S	2.0	N	N	20	200	70	50	N	<20	100	20	N	15
HE468S	2.0	N	N	15	100	70	20	N	<20	70	15	N	10
HE469S	2.0	N	N	15	70	30	50	N	<20	70	30	N	15
HE470S	2.0	N	N	10	70	30	70	N	<20	50	20	N	15
HE471S	2.0	N	N	30	150	50	70	N	<20	100	70	N	15
HE472S	2.0	N	N	20	70	50	30	5	<20	100	20	N	10
HE473S	3.0	N	N	30	150	50	70	7	<20	100	50	N	15
HE474S	2.0	N	N	20	100	30	150	N	<20	70	20	N	10
HE475S	1.5	N	N	30	100	30	100	N	<20	70	30	N	15
HE476S	2.0	N	N	15	70	70	150	N	<20	70	20	N	10
HE477S	1.5	N	N	30	200	30	30	N	<20	70	20	N	15
HE478S	1.5	N	N	30	200	50	50	N	<20	70	20	N	15
HE479S	1.5	N	N	15	150	7	200	N	<20	15	15	N	15
HE480S	1.5	N	N	15	300	10	100	N	<20	20	15	N	10
HE481S	1.0	N	N	15	150	70	700	N	20	30	10	N	20
HE482S	1.5	N	N	10	70	10	100	N	<20	20	20	N	10
HE483S	<1.0	N	N	20	70	100	70	10	<20	70	15	N	10
HE484S	1.5	N	N	15	100	50	50	N	<20	70	10	N	15
HE485S	2.0	N	N	15	70	20	70	N	N	30	15	N	10
HE486S	1.5	N	N	20	150	100	30	10	<20	70	15	N	15
HE487S	1.5	N	N	20	300	70	50	N	<20	50	10	N	15
HE488S	1.5	N	N	5	20	5	200	N	N	7	15	N	7
HE489S	1.0	N	N	20	50	200	30	N	N	100	20	N	15
HE490S	1.5	N	N	7	70	70	20	N	N	70	20	N	7
HE493S	1.5	N	N	20	200	100	30	N	N	100	15	N	20
HE494S	<1.0	N	N	70	1,000	50	20	N	<20	100	20	N	20
HE495S	2.0	N	N	10	15	<5	200	N	N	5	30	N	10
HE496S	1.0	N	N	50	200	150	30	15	<20	150	20	N	30
HE497S	1.0	N	N	20	150	100	20	15	N	100	15	N	20

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Sb-ppm aa
HE451S	N	150	70	N	50	N	700	N	N	--	30	--	--
HE452S	N	100	200	N	100	<200	500	N	N	--	110	--	--
HE453S	N	100	200	N	70	300	500	N	N	--	320	--	--
HE454S	N	100	150	N	50	<200	200	N	N	--	110	--	--
HE455S	N	200	200	N	50	<200	300	N	N	--	100	--	--
HE456S	N	150	150	N	50	<200	500	N	N	--	90	--	--
HE457S	15	200	150	N	50	N	700	N	N	--	45	--	--
HE458S	N	150	150	N	50	N	500	N	N	--	55	--	--
HE459S	N	300	150	N	30	N	500	N	N	--	65	--	--
HE460S	N	200	200	N	30	N	300	N	N	--	80	--	--
HE461S	N	150	70	N	30	<200	200	N	N	--	100	--	--
HE462S	N	100	200	N	30	<200	200	N	N	--	110	--	--
HE463S	N	150	200	N	50	<200	500	N	N	--	110	--	--
HE464S	N	<100	200	N	30	<200	300	N	N	--	100	--	--
HE465S	N	100	150	N	50	<200	500	N	N	--	100	--	--
HE466S	N	150	150	N	50	<200	300	N	N	--	100	--	--
HE467S	N	100	300	N	50	<200	500	N	N	--	120	--	--
HE468S	N	150	200	N	30	200	200	N	N	--	140	--	--
HE469S	N	200	150	N	30	N	500	N	N	--	70	--	--
HE470S	N	150	150	N	30	N	500	N	N	--	70	--	--
HE471S	N	<100	200	N	30	300	200	N	N	--	200	--	--
HE472S	N	150	200	N	30	700	150	N	N	--	560	--	--
HE473S	N	200	200	N	50	<200	200	N	N	--	140	--	--
HE474S	N	100	150	N	100	<200	300	N	N	--	120	--	--
HE475S	N	150	150	N	70	<200	300	N	N	--	150	--	--
HE476S	N	100	100	N	70	200	500	N	N	--	180	--	--
HE477S	N	200	150	N	20	N	300	N	N	--	70	--	--
HE478S	N	200	200	N	30	<200	300	N	N	--	90	--	--
HE479S	N	200	100	N	50	N	700	N	N	--	45	--	--
HE480S	N	200	100	N	50	N	500	N	N	--	45	--	--
HE481S	N	200	100	N	100	N	500	N	N	--	40	--	--
HE482S	N	150	100	N	70	N	700	N	N	--	50	--	--
HE483S	N	300	100	N	150	200	500	N	N	--	140	--	--
HE484S	N	300	200	N	50	<200	300	N	N	--	100	--	--
HE485S	N	200	100	N	70	N	300	N	N	--	50	--	--
HE486S	N	200	200	N	30	<200	150	N	N	--	140	--	--
HE487S	N	200	200	N	50	<200	300	N	N	--	110	--	--
HE488S	N	150	30	N	30	N	700	N	N	--	15	--	--
HE489S	N	200	100	N	20	200	100	N	N	--	90	--	--
HE490S	N	150	70	N	20	N	70	N	N	--	40	--	--
HE493S	N	500	300	N	50	<200	300	N	N	--	150	--	--
HE494S	N	300	300	N	50	N	150	N	.05	--	60	--	--
HE495S	N	150	50	N	70	N	300	N	N	--	35	--	--
HE496S	N	300	300	N	30	<200	300	N	N	--	130	--	--
HE497S	N	300	200	N	30	<200	300	N	N	--	110	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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
HE498S	63 27 30	147 37 15	7.0	2.00	5.00	>1.00	1,000	1.0	N	N	100	1,000
HE499S	63 26 45	147 36 10	3.0	2.00	3.00	.50	500	1.5	N	N	100	2,000
HE500S	63 22 40	147 43 20	3.0	1.50	5.00	.50	1,000	N	N	N	70	1,500
HE501S	63 22 45	147 43 0	7.0	7.00	5.00	.70	3,000	<.5	N	N	100	2,000
HE502S	63 23 35	147 37 45	5.0	5.00	5.00	.50	1,500	1.0	N	N	100	3,000
HE503S	63 16 15	147 55 5	5.0	1.00	2.00	1.00	2,000	.7	N	N	100	1,000
HE504S	63 16 10	148 1 50	3.0	1.00	2.00	1.00	1,500	.5	N	N	100	1,000
HE505S	63 13 40	148 4 45	5.0	1.00	2.00	.70	1,500	1.0	N	N	100	1,000
HE506S	63 12 35	148 6 45	5.0	1.00	2.00	.50	1,500	.7	N	N	70	1,000
HE507S	63 10 45	148 7 25	7.0	1.00	2.00	1.00	3,000	N	N	N	50	700
HE508S	63 9 35	148 9 5	5.0	1.00	1.50	.70	2,000	N	N	N	50	700
HE509S	63 8 25	148 13 55	7.0	.70	1.00	>1.00	2,000	N	N	N	50	700
HE510S	63 6 45	148 8 30	5.0	1.00	1.50	.70	1,500	N	N	N	20	1,000
HE511S	63 6 10	148 2 40	5.0	.70	1.50	1.00	1,500	N	N	N	30	700
HE512S	63 8 40	148 0 45	7.0	1.00	1.00	>1.00	2,000	N	N	N	70	1,000
HE513S	63 11 15	147 57 30	7.0	1.50	1.50	.70	3,000	<.5	N	N	70	1,000
HE514S	63 12 15	147 57 25	7.0	2.00	1.50	.50	1,500	N	N	N	70	1,000
HE515S	63 12 25	147 57 10	7.0	1.00	1.50	>1.00	3,000	N	N	N	50	700
HE516S	63 12 50	147 53 30	3.0	.70	1.50	.50	5,000	N	N	N	70	1,000
HE517S	63 10 50	147 42 15	3.0	.70	1.00	.30	1,500	.5	N	N	70	1,500
HE518S	63 10 25	147 39 50	7.0	1.00	2.00	>1.00	3,000	N	N	N	70	700
HE519S	63 8 45	147 33 0	7.0	1.00	1.50	1.00	1,500	N	N	N	100	700
HE520S	63 8 40	147 33 0	5.0	1.00	1.50	1.00	1,500	N	N	N	100	700
HE521S	63 7 45	147 35 15	5.0	.70	1.50	.30	5,000	N	N	N	100	1,000
HE522S	63 19 50	148 18 55	5.0	1.00	2.00	1.00	2,000	N	N	N	100	1,000
HE523S	63 19 10	148 21 40	3.0	.50	.70	.50	1,000	N	N	N	70	1,500
HE524S	63 19 20	148 26 50	5.0	.50	.50	.30	1,500	N	N	N	100	1,000
HE525S	63 19 10	148 27 5	3.0	.70	1.00	.30	1,000	N	N	N	100	1,000
HE526S	63 41 20	148 16 20	3.0	.70	.50	.50	700	N	N	N	70	1,000
HE527S	63 40 5	148 17 5	2.0	.50	.50	.30	500	N	N	N	70	1,000
HE528S	63 43 10	148 21 20	3.0	1.50	1.50	.50	1,000	N	N	N	70	1,000
HE529S	63 43 40	148 17 0	3.0	.70	.50	.70	1,000	N	N	N	70	1,000
HE530S	63 43 40	148 12 45	3.0	.70	.50	.70	1,000	N	N	N	70	1,000
HE531S	63 43 50	148 12 35	5.0	1.00	1.00	1.00	1,000	N	N	N	70	1,000
HE532S	63 44 55	148 12 5	3.0	.50	.70	.50	1,000	<.5	N	N	150	1,000
HE533S	63 44 55	148 11 35	5.0	.70	1.00	1.00	1,000	N	N	N	150	700
HE534S	63 44 55	148 11 5	7.0	2.00	1.50	>1.00	1,500	N	N	N	50	700
HE535S	63 44 45	148 16 55	3.0	.50	.50	.50	700	N	N	N	150	1,000
HE536S	63 45 0	148 16 20	3.0	.50	.70	.50	1,000	N	N	N	150	1,000
HE537S	63 46 10	148 15 55	3.0	.50	.30	.30	700	N	N	N	150	1,500
HE538S	63 46 50	148 13 45	5.0	.50	.70	.30	700	N	N	N	150	1,500
HE539S	63 46 45	148 13 25	3.0	.30	.50	.30	1,000	N	N	N	150	1,000
HE540S	63 45 30	148 22 55	2.0	.50	.50	.50	1,000	N	N	N	200	1,000
HE541S	63 45 40	148 23 10	2.0	.30	.20	.30	500	<.5	N	N	100	1,000
HE542S	63 45 55	148 26 55	2.0	.50	.50	.70	1,000	N	N	N	100	1,000

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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	Sb-ppm s	Sc-ppm s
HE498S	1.0	N	N	30	300	100	30	N	<20	100	10	N	30
HE499S	1.5	N	N	15	150	70	20	N	N	70	10	N	15
HE500S	1.5	N	N	15	200	7	50	N	N	30	10	N	30
HE501S	1.5	N	N	30	700	15	30	N	N	50	20	N	30
HE502S	2.0	N	N	30	500	70	30	10	N	100	20	N	15
HE503S	2.0	N	N	20	150	20	70	N	N	50	10	N	20
HE504S	2.0	N	N	15	200	7	70	N	<20	30	<10	N	20
HE505S	1.5	N	N	20	150	30	50	N	N	70	10	N	20
HE506S	1.5	N	N	20	150	20	30	N	N	50	20	N	15
HE507S	1.5	N	N	30	200	30	70	N	<20	70	20	N	30
HE508S	1.5	N	N	20	200	50	50	N	<20	70	15	N	20
HE509S	3.0	N	N	15	100	10	100	N	30	20	10	N	20
HE510S	1.5	N	N	30	150	30	50	N	<20	50	30	N	20
HE511S	1.5	N	N	20	300	15	100	N	<20	30	15	N	20
HE512S	1.5	N	N	20	200	50	100	N	<20	70	70	N	20
HE513S	1.5	N	N	50	300	100	70	N	N	100	10	N	30
HE514S	1.5	N	N	30	300	70	20	N	N	150	20	N	20
HE515S	1.5	N	N	30	200	20	70	N	<20	50	10	N	30
HE516S	1.5	N	N	20	100	15	70	N	N	50	10	N	15
HE517S	2.0	N	N	15	100	100	50	N	<20	50	20	N	15
HE518S	1.5	N	N	20	200	10	70	N	20	30	10	N	20
HE519S	1.5	N	N	30	150	150	50	N	N	70	15	N	20
HE520S	1.5	N	N	20	150	50	30	N	N	50	10	N	20
HE521S	1.5	N	N	30	100	150	30	5	N	150	10	N	15
HE522S	1.5	N	N	20	200	20	50	N	<20	50	10	N	15
HE523S	3.0	N	N	10	30	20	30	N	20	15	20	N	10
HE524S	2.0	N	N	15	200	100	50	N	<20	70	10	N	15
HE525S	2.0	N	N	15	200	30	30	N	<20	70	15	N	20
HE526S	1.5	N	N	15	150	50	20	N	N	70	10	N	15
HE527S	1.0	N	N	15	150	30	20	N	N	70	<10	N	15
HE528S	1.5	N	N	30	200	50	20	N	<20	150	10	N	15
HE529S	1.5	N	N	20	150	30	20	N	<20	70	<10	N	15
HE530S	1.5	N	N	20	150	30	20	N	<20	70	<10	N	20
HE531S	2.0	N	N	20	150	50	30	N	20	100	10	N	20
HE532S	1.5	N	N	20	150	30	20	N	<20	70	15	N	10
HE533S	1.0	N	N	20	150	50	20	N	20	70	<10	N	20
HE534S	1.5	N	N	50	200	50	30	N	20	150	10	N	20
HE535S	1.5	N	N	15	300	20	20	N	<20	70	<10	N	10
HE536S	1.5	N	N	15	150	30	30	N	20	70	10	N	15
HE537S	2.0	N	N	20	150	50	50	N	<20	70	20	N	15
HE538S	1.5	N	N	20	150	70	70	N	<20	100	30	N	15
HE539S	1.5	N	N	15	150	20	20	N	<20	70	<10	N	10
HE540S	1.0	N	N	15	200	30	20	N	<20	100	<10	N	10
HE541S	2.0	N	N	10	50	15	50	N	20	50	20	N	10
HE542S	1.0	N	N	15	200	20	30	N	<20	70	10	N	10

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Sb-ppm aa
HE498S	N	200	300	N	30	<200	300	N	N	--	120	--	--
HE499S	N	500	150	N	30	<200	300	N	N	--	150	--	--
HE500S	N	500	150	N	30	N	500	N	N	--	50	--	--
HE501S	N	300	200	N	50	N	500	N	N	--	60	--	--
HE502S	N	300	150	N	30	N	500	N	N	--	75	--	--
HE503S	N	500	200	N	50	N	500	N	N	--	40	--	--
HE504S	N	500	200	N	30	N	500	N	N	--	20	--	--
HE505S	N	500	200	N	30	N	500	N	N	--	45	--	--
HE506S	N	500	150	N	20	<200	300	N	N	--	70	--	--
HE507S	N	500	200	N	50	<200	700	N	N	--	70	--	--
HE508S	N	300	200	N	30	<200	1,000	N	N	--	70	--	--
HE509S	N	300	150	N	70	N	1,000	N	N	--	55	--	--
HE510S	N	500	150	N	30	N	700	N	N	--	80	--	--
HE511S	N	300	150	N	100	N	>1,000	N	N	--	50	--	--
HE512S	N	300	150	N	100	<200	1,000	N	N	--	90	--	--
HE513S	N	300	200	N	70	N	500	N	N	--	65	--	--
HE514S	N	500	200	N	30	N	200	N	N	--	45	--	--
HE515S	N	300	200	N	70	N	>1,000	N	N	--	40	--	--
HE516S	N	500	100	N	30	N	500	N	N	--	50	--	--
HE517S	N	300	100	N	50	300	700	N	N	--	35	--	--
HE518S	N	300	200	N	50	<200	700	N	N	--	25	--	--
HE519S	N	300	200	N	30	N	700	N	N	--	45	--	--
HE520S	N	300	200	N	30	N	700	N	N	--	40	--	--
HE521S	N	500	150	N	30	N	300	N	N	--	40	--	--
HE522S	N	500	200	N	30	N	700	N	N	--	35	--	--
HE523S	N	200	70	N	70	N	500	N	N	--	50	--	--
HE524S	N	150	150	N	30	<200	500	N	N	--	85	--	--
HE525S	N	200	100	N	30	<200	300	N	N	--	85	--	--
HE526S	N	150	100	N	20	N	200	N	N	--	85	--	--
HE527S	N	150	100	N	20	N	200	N	N	--	65	--	--
HE528S	N	200	100	N	20	<200	150	N	N	--	80	--	--
HE529S	N	150	100	N	30	<200	300	N	N	--	65	--	--
HE530S	N	150	150	N	20	<200	300	N	N	--	75	--	--
HE531S	N	200	150	N	30	<200	200	N	N	--	80	--	--
HE532S	N	200	100	N	20	N	150	N	N	--	70	--	--
HE533S	N	200	150	N	30	<200	200	N	N	--	75	--	--
HE534S	N	200	150	N	30	<200	200	N	N	--	75	--	--
HE535S	N	150	100	N	20	N	300	N	N	--	65	--	--
HE536S	N	150	100	N	30	N	500	N	N	--	80	--	--
HE537S	N	100	100	N	50	200	500	N	N	--	170	--	--
HE538S	N	100	150	N	30	500	500	N	N	--	360	--	--
HE539S	N	150	100	N	20	N	300	N	N	--	80	--	--
HE540S	N	200	100	N	20	N	500	N	N	--	70	--	--
HE541S	N	150	70	N	50	N	500	N	N	--	90	--	--
HE542S	N	150	100	N	30	N	500	N	N	--	60	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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
HE543S	63 47 10	148 29 15	5.0	.70	.70	.30	1,000	N	N	N	70	500
HE544S	63 47 20	148 25 20	3.0	.50	.50	.30	700	N	N	N	100	700
HE545S	63 48 25	148 25 20	5.0	.50	.70	.30	700	N	N	N	70	500
HE546S	63 48 45	148 21 50	5.0	.70	.50	.30	700	5.0	N	N	100	500
HE547S	63 48 25	148 20 45	5.0	.50	.20	.30	1,000	N	N	N	150	500
HE548S	63 48 15	148 20 45	5.0	.70	.50	.50	1,000	N	N	N	150	1,000
HE549S	63 47 5	148 32 25	7.0	.50	.50	.30	700	N	N	N	100	500
HE550S	63 45 45	148 37 5	5.0	.50	1.50	.50	1,500	N	N	N	70	1,000
HE551S	63 45 40	148 37 35	3.0	.30	.70	1.00	1,000	N	N	N	100	1,000
HE552S	63 46 15	148 38 45	7.0	.70	1.00	1.00	1,000	N	N	N	150	700
HE553S	63 46 40	148 42 0	3.0	.70	.70	.50	700	N	N	N	100	1,500
HE554S	63 47 0	148 42 20	7.0	.70	1.00	.70	700	N	N	N	150	500
HE555S	63 47 25	148 42 55	5.0	.50	1.00	.50	700	N	N	N	150	500
HE556S	63 47 45	148 45 20	5.0	.50	.50	.50	700	N	N	N	100	500
HE557S	63 48 10	148 46 40	5.0	.50	.30	.50	700	N	N	N	150	700
HE558S	63 36 35	148 40 10	5.0	.70	1.00	.50	1,000	N	N	N	50	700
HE559S	63 35 10	148 40 40	5.0	.70	1.00	.50	1,000	N	N	N	100	700
HE560S	63 34 15	148 37 15	3.0	.30	.30	.30	700	N	N	N	100	700
HE561S	63 32 20	148 39 10	3.0	.30	.20	.30	700	N	N	N	70	1,000
HE562S	63 33 5	148 34 35	5.0	.50	.70	.30	1,000	<.5	N	N	100	1,000
HE563S	63 31 45	148 34 20	7.0	1.00	1.00	.50	1,000	100.0	N	N	100	1,500
HE564S	63 32 35	148 33 20	7.0	1.00	1.00	.50	1,000	1.5	500	N	100	1,500
HE565S	63 31 40	148 28 35	7.0	2.00	5.00	.50	1,000	.5	N	N	70	1,500
HE566S	63 32 30	148 26 20	7.0	1.00	.20	.30	1,500	3.0	<200	N	150	1,500
HE567S	63 32 45	148 26 15	5.0	1.00	.50	.50	2,000	.5	N	N	150	2,000
HE568S	63 32 45	148 16 45	7.0	1.00	.10	.70	1,000	.5	N	N	200	1,500
HE569S	63 32 50	148 16 35	7.0	.70	.10	.50	1,000	.7	N	N	200	1,500
HE570S	63 32 10	148 19 30	7.0	.70	.15	.50	1,500	.5	N	N	200	1,500
HE571S	63 32 50	148 20 5	5.0	2.00	.70	.70	1,000	1.0	N	N	150	5,000
HE572S	63 33 25	148 18 45	5.0	1.00	.10	.70	1,000	<.5	N	N	200	1,000
HE573S	63 33 20	148 19 25	7.0	1.00	.10	.70	1,000	.5	N	N	200	1,500
HE574S	63 35 0	148 20 20	7.0	2.00	2.00	.70	1,000	1.0	N	N	150	2,000
HE575S	63 34 55	148 21 10	5.0	2.00	1.00	1.00	1,000	.5	N	N	100	2,000
HE576S	63 36 0	148 25 50	5.0	1.00	1.00	.50	700	<.5	N	N	100	1,500
HE577S	63 36 15	148 24 50	5.0	3.00	3.00	.50	700	<.5	N	N	50	1,000
HE578S	63 36 15	148 27 20	3.0	.70	.70	.50	700	<.5	N	N	70	1,500
HE579S	63 35 10	148 31 40	2.0	1.00	.50	.20	1,000	<.5	N	N	100	1,500
HE580S	63 36 50	148 30 55	3.0	.70	.50	.30	1,000	.5	N	N	70	1,000
HE581S	63 37 5	148 32 50	5.0	.70	.70	.50	1,000	.5	N	N	70	1,000
HE582S	63 38 0	148 37 40	2.0	.70	.50	.20	1,000	.5	N	N	100	1,000
HE583S	63 39 50	148 33 10	2.0	.70	2.00	.50	1,000	<.5	N	N	50	1,000
HE584S	63 26 10	148 49 45	5.0	1.50	1.50	1.00	2,000	<.5	N	N	150	2,000
HE585S	63 26 25	148 47 40	7.0	2.00	1.00	.50	1,500	.7	N	N	100	1,500
HE586S	63 27 35	148 41 30	5.0	2.00	1.50	.50	700	<.5	N	N	100	1,000
HE587S	63 27 50	148 37 10	3.0	.70	.70	.15	1,000	.5	N	N	70	1,000

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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	Sb-ppm s	Sc-ppm s
HE543S	1.5	N	N	50	100	100	70	N	<20	100	50	N	10
HE544S	1.5	N	N	20	70	50	50	N	20	70	20	N	15
HE545S	1.5	N	N	20	100	70	70	N	<20	100	50	N	10
HE546S	1.5	N	N	20	70	150	50	N	<20	70	30	N	10
HE547S	2.0	N	N	20	200	70	50	N	<20	70	50	N	15
HE548S	2.0	N	N	30	150	100	50	N	<20	150	20	N	20
HE549S	2.0	N	N	30	70	70	70	N	<20	100	50	N	15
HE550S	1.5	N	N	30	300	30	30	5	<20	100	15	N	15
HE551S	2.0	N	N	30	300	50	30	N	<20	100	10	N	20
HE552S	3.0	N	N	30	100	100	70	N	20	100	20	N	15
HE553S	2.0	N	N	20	150	70	50	N	<20	70	30	N	15
HE554S	1.5	N	N	100	100	100	100	N	<20	150	70	N	15
HE555S	1.5	N	N	50	70	150	100	N	<20	100	150	N	10
HE556S	2.0	N	N	20	100	50	70	N	<20	70	15	N	15
HE557S	2.0	N	N	30	100	70	50	N	<20	70	30	N	15
HE558S	1.5	N	N	20	300	30	50	N	<20	100	10	N	20
HE559S	2.0	N	N	30	300	30	20	N	<20	100	10	N	20
HE560S	1.5	N	N	15	150	30	20	N	N	70	<10	N	15
HE561S	1.5	N	N	15	150	50	20	<5	<20	70	10	N	10
HE562S	3.0	N	N	20	100	200	70	15	N	70	15	N	15
HE563S	3.0	N	N	50	150	300	50	20	<20	100	50	N	20
HE564S	5.0	N	N	70	150	700	50	50	N	150	30	N	20
HE565S	1.5	N	N	30	200	200	50	7	N	100	15	N	20
HE566S	3.0	N	N	100	200	300	30	10	<20	150	70	N	20
HE567S	2.0	N	N	50	300	50	50	7	<20	150	20	N	20
HE568S	3.0	N	N	20	150	200	70	5	20	100	20	N	20
HE569S	2.0	N	N	30	150	200	100	5	<20	100	20	N	20
HE570S	2.0	N	N	30	150	200	30	5	<20	100	20	N	20
HE571S	1.5	N	N	20	300	150	70	10	<20	150	20	N	20
HE572S	1.5	N	N	15	150	150	50	7	<20	70	30	N	15
HE573S	1.5	N	N	30	150	200	200	5	<20	100	20	N	20
HE574S	1.5	N	N	30	200	300	30	7	<20	150	30	N	30
HE575S	1.5	N	N	30	300	150	50	10	<20	150	20	N	20
HE576S	1.5	N	N	20	300	70	30	N	N	100	20	N	15
HE577S	1.5	N	N	20	200	100	30	N	N	70	20	N	20
HE578S	1.5	N	N	15	150	50	30	N	N	70	15	N	10
HE579S	1.5	N	N	15	150	70	30	N	N	70	20	N	15
HE580S	1.5	N	N	15	150	70	20	N	N	70	20	N	10
HE581S	1.5	N	N	20	500	100	30	N	N	100	20	N	15
HE582S	1.0	N	N	15	100	100	20	N	N	70	20	N	10
HE583S	1.0	N	N	15	100	50	70	N	N	50	15	N	10
HE584S	2.0	N	N	30	700	100	50	7	<20	150	30	N	15
HE585S	1.5	N	N	30	300	100	70	5	<20	100	30	N	30
HE586S	1.5	N	N	50	700	100	50	N	<20	300	20	N	20
HE587S	2.0	N	N	15	100	70	50	7	N	50	70	N	7

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Sb-ppm aa
HE543S	N	100	70	N	50	200	700	N	N	--	180	--	--
HE544S	N	100	100	N	30	N	700	N	N	--	80	--	--
HE545S	N	150	70	N	30	<200	500	N	N	--	100	--	--
HE546S	N	<100	70	N	30	N	300	N	N	--	75	--	--
HE547S	N	<100	70	N	50	<200	700	N	N	--	85	--	--
HE548S	N	100	200	N	30	500	500	N	N	--	460	--	--
HE549S	N	100	100	N	30	200	500	N	N	--	120	--	--
HE550S	N	200	150	N	30	<200	150	N	N	--	65	--	--
HE551S	N	200	200	N	20	<200	150	N	N	--	90	--	--
HE552S	N	150	150	N	50	<200	700	N	N	--	90	--	--
HE553S	N	150	150	N	30	<200	500	N	N	--	130	--	--
HE554S	N	100	70	N	50	<200	1,000	N	N	--	110	--	--
HE555S	N	100	70	N	50	<200	1,000	N	N	--	75	--	--
HE556S	N	<100	100	N	50	N	300	N	N	--	95	--	--
HE557S	N	100	100	N	50	<200	500	N	N	--	100	--	--
HE558S	N	200	200	N	30	<200	150	N	N	--	85	--	--
HE559S	N	200	150	N	30	<200	200	N	N	--	85	--	--
HE560S	N	150	150	N	20	<200	150	N	N	--	85	--	--
HE561S	N	150	150	N	20	<200	100	N	N	--	90	--	--
HE562S	N	100	200	<50	50	<200	150	N	N	--	140	--	--
HE563S	N	150	300	<50	70	200	300	N	N	--	150	--	--
HE564S	N	150	200	<50	100	200	300	N	N	--	200	--	--
HE565S	15	300	200	N	50	N	200	N	N	--	80	--	--
HE566S	N	100	200	<50	50	500	200	N	N	--	350	--	--
HE567S	N	100	300	N	50	500	200	N	N	--	350	--	--
HE568S	N	100	300	N	50	<200	300	N	N	--	120	--	--
HE569S	N	100	200	N	30	300	200	N	N	--	180	--	--
HE570S	N	100	200	N	30	300	200	N	N	--	180	--	--
HE571S	N	<100	300	N	30	200	200	N	N	--	160	--	--
HE572S	N	<100	200	N	30	<200	300	N	N	--	150	--	--
HE573S	N	150	200	N	50	200	200	N	N	--	140	--	--
HE574S	N	200	300	N	30	200	300	N	N	--	140	--	--
HE575S	N	100	300	N	30	200	300	N	N	--	180	--	--
HE576S	N	150	200	N	20	<200	150	N	N	--	90	--	--
HE577S	N	300	200	N	20	N	100	N	N	--	85	--	--
HE578S	N	150	200	N	15	<200	150	N	N	--	80	--	--
HE579S	N	200	150	N	30	<200	100	N	--	--	90	--	--
HE580S	N	200	150	N	15	<200	150	N	N	--	85	--	--
HE581S	N	150	200	N	20	N	200	N	N	--	80	--	--
HE582S	N	150	150	N	15	200	70	N	N	--	75	--	--
HE583S	N	200	100	N	20	N	200	N	N	--	45	--	--
HE584S	N	300	300	<50	30	300	300	N	N	--	150	--	--
HE585S	N	200	300	N	50	<200	500	N	N	--	110	--	--
HE586S	N	200	200	N	30	<200	200	N	N	--	90	--	--
HE587S	30	150	70	N	20	<200	150	N	N	--	60	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	Au-ppm	B-ppm	Ba-ppm
			s	s	s	s	s	s	s	s	s	s
HE588S	63 27 40	148 36 40	3.0	1.00	1.50	.20	700	.5	N	N	30	1,500
HE589S	63 27 50	148 35 5	.7	.50	.70	.10	1,000	<.5	N	N	15	700
HE590S	63 25 50	148 17 45	3.0	.50	1.00	.50	1,000	<.5	N	N	15	1,000
HE591S	63 26 0	148 16 30	3.0	.70	1.00	.50	700	N	N	N	20	1,000
HE592S	63 26 5	148 8 55	2.0	1.00	5.00	.30	700	.7	N	N	100	1,500
HE593S	63 21 25	148 19 35	3.0	2.00	5.00	.70	2,000	<.5	N	N	70	1,500
HE594S	63 21 30	148 23 30	2.0	1.00	1.00	.20	1,000	<.5	N	N	70	1,500
HE595S	63 22 35	148 31 15	5.0	2.00	1.50	.50	3,000	N	N	N	150	2,000
HE596S	63 22 0	148 31 10	5.0	2.00	2.00	.50	2,000	<.5	N	N	150	2,000
HE597S	63 22 0	148 30 55	5.0	2.00	1.00	.50	1,500	<.5	N	N	100	1,500
HE598S	63 20 45	148 29 55	7.0	3.00	1.50	.50	1,500	.5	N	N	200	1,500
HE599S	63 20 45	148 29 45	7.0	1.50	.50	.30	1,500	<.5	N	N	150	1,500
HE600S	63 18 20	148 30 15	5.0	1.00	.70	.50	1,500	.5	N	N	150	1,500
HE601S	63 53 5	149 8 8	2.0	.70	.70	1.00	700	N	N	N	70	700
HE602S	63 53 42	149 9 28	2.0	.50	.50	.70	2,000	N	N	N	50	500
HE603S	63 53 52	149 9 23	2.0	.30	.70	.50	700	N	N	N	50	700
HE604S	63 57 52	149 1 8	1.5	.30	.50	.50	300	N	N	N	50	500
HE605S	63 57 29	149 1 5	2.0	.50	.70	.50	700	N	N	N	50	700
HE606S	63 56 22	149 0 8	2.0	.30	.20	.50	500	N	N	N	50	700
HE607S	63 59 58	148 55 20	3.0	.50	1.00	>1.00	700	N	N	N	30	700
HE608S	63 59 49	148 52 40	2.0	.30	.50	.70	500	N	N	N	30	700
HE609S	63 59 24	148 47 25	3.0	.50	.50	1.00	700	N	N	N	70	700
HE610S	63 58 30	148 45 47	2.0	.15	.10	1.00	700	N	N	N	100	500
HE611S	63 58 28	148 45 33	2.0	.30	.30	.30	500	3.0	N	15	70	700
HE612S	63 57 18	148 42 52	1.5	.30	.50	.50	300	N	N	N	50	700
HE613S	63 58 2	148 38 30	1.5	.15	.30	.50	500	N	N	N	50	700
HE614S	63 59 46	148 39 52	3.0	.30	.15	.30	700	N	N	N	70	700
HE615S	63 59 58	147 47 32	2.0	.50	.50	.30	700	N	N	N	70	5,000
HE616S	63 58 56	147 41 46	3.0	.70	.50	.50	700	N	N	N	100	1,000
HE617S	63 56 40	147 45 16	3.0	2.00	1.00	.70	1,500	N	N	N	100	1,500
HE618S	63 56 47	147 56 47	5.0	1.00	1.00	.30	700	<.5	N	N	150	3,000
HE619S	63 55 22	147 52 23	2.0	.50	.15	.20	3,000	<.5	N	N	70	1,500
HE620S	63 54 53	147 50 45	5.0	1.00	.70	.30	1,000	N	N	N	150	1,500
HE621S	63 55 5	147 49 18	3.0	1.50	.20	.50	700	N	N	N	150	1,500
HE622S	63 53 54	147 48 0	5.0	1.50	.20	.30	500	N	N	N	150	1,500
HE623S	63 54 12	147 52 30	5.0	1.50	.50	.50	1,000	N	N	N	100	3,000
HE624S	63 53 52	147 50 52	5.0	1.00	.70	.30	1,500	.5	<200	N	150	2,000
HE625S	63 53 17	147 50 0	5.0	2.00	1.00	.50	1,000	.7	<200	N	500	2,000
HE626S	63 52 52	147 50 0	3.0	2.00	1.00	.30	700	N	N	N	200	1,500
HE627S	63 52 14	147 52 57	3.0	1.50	1.00	.20	1,500	<.5	N	N	70	3,000
HE628S	63 49 52	147 54 0	5.0	1.50	1.00	.50	700	N	N	N	200	1,000
HE629S	63 50 0	147 58 58	5.0	1.50	1.50	1.00	1,500	N	N	N	150	700
HE630S	63 49 44	148 4 41	5.0	1.00	.50	.70	1,000	N	N	N	150	1,500
HE631S	63 49 24	148 6 53	3.0	1.50	1.00	.70	1,000	N	N	N	100	2,000
HE632S	63 49 13	148 10 58	7.0	2.00	.70	.70	1,000	N	N	N	150	700

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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	Sb-ppm s	Sc-ppm s
HE588S	1.5	N	N	15	70	100	100	5	<20	70	50	N	10
HE589S	1.5	N	N	5	15	100	70	N	N	7	30	N	5
HE590S	7.0	N	N	7	20	7	150	N	30	5	50	N	7
HE591S	3.0	N	N	10	50	10	150	N	20	10	50	N	15
HE592S	1.5	N	N	10	100	30	70	N	N	30	10	N	7
HE593S	1.5	N	N	20	200	30	30	N	N	50	15	N	20
HE594S	2.0	N	N	7	50	30	50	N	N	20	30	N	10
HE595S	3.0	10	N	30	700	150	150	N	<20	150	20	N	15
HE596S	3.0	N	N	30	150	100	70	N	N	150	20	N	15
HE597S	2.0	N	N	20	200	70	50	N	<20	100	20	N	15
HE598S	2.0	N	N	50	300	150	70	N	<20	200	20	N	20
HE599S	2.0	N	N	30	200	100	30	N	<20	150	20	N	20
HE600S	2.0	N	N	30	200	70	30	N	<20	150	20	N	20
HE601S	1.5	N	N	10	100	20	N	N	N	30	10	N	10
HE602S	1.5	N	N	20	70	15	20	N	N	20	15	N	7
HE603S	1.5	N	N	15	70	15	20	N	N	15	10	N	7
HE604S	1.0	N	N	10	50	10	N	N	N	10	10	N	5
HE605S	1.0	N	N	15	70	15	N	N	N	20	10	N	10
HE606S	1.5	N	N	10	100	15	100	N	N	20	15	N	7
HE607S	1.5	N	N	15	150	30	50	N	N	20	10	N	15
HE608S	1.0	N	N	15	100	20	N	N	N	15	10	N	10
HE609S	1.0	N	N	15	300	30	50	N	N	30	<10	N	15
HE610S	1.0	N	N	15	100	15	100	N	N	15	20	N	15
HE611S	2.0	N	N	15	100	20	70	N	N	20	20	N	10
HE612S	2.0	N	N	7	100	5	20	N	N	10	10	N	5
HE613S	1.0	N	N	5	200	<5	30	N	N	7	10	N	7
HE614S	2.0	N	N	20	70	20	70	N	N	15	50	N	15
HE615S	1.5	N	N	15	150	20	N	<5	N	50	20	N	10
HE616S	3.0	N	N	20	70	100	100	5	20	70	50	N	15
HE617S	3.0	N	N	30	50	50	50	<5	30	30	30	N	20
HE618S	2.0	N	N	20	70	30	70	10	N	50	20	N	15
HE619S	2.0	N	30	30	100	30	100	20	N	150	50	N	10
HE620S	2.0	N	N	20	70	30	150	<5	N	70	70	N	15
HE621S	3.0	N	N	20	150	30	200	N	N	50	30	N	15
HE622S	3.0	N	N	20	150	50	100	<5	N	70	70	N	15
HE623S	2.0	N	N	20	70	50	150	5	N	70	30	N	20
HE624S	2.0	N	N	30	200	70	50	5	N	100	50	N	15
HE625S	1.5	N	N	30	150	70	70	<5	N	70	100	N	20
HE626S	2.0	N	N	20	150	30	50	10	N	70	20	N	15
HE627S	2.0	N	N	15	150	30	100	7	N	50	20	N	15
HE628S	2.0	N	N	20	150	50	70	N	N	50	15	N	15
HE629S	1.5	N	N	20	100	30	100	7	N	70	50	N	15
HE630S	2.0	N	N	20	150	50	50	N	N	50	30	N	15
HE631S	2.0	N	N	20	150	50	100	5	N	70	30	N	20
HE632S	2.0	N	N	50	300	100	150	N	N	70	70	N	15

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Sb-ppm aa
HE588S	N	150	100	N	50	N	300	N	N	--	45	--	--
HE589S	15	100	30	N	30	<200	150	N	N	--	30	--	--
HE590S	N	150	50	N	200	<200	700	N	N	--	60	--	--
HE591S	N	200	70	N	100	N	500	N	N	--	55	--	--
HE592S	N	300	100	N	30	<200	500	N	N	--	75	--	--
HE593S	N	500	150	N	30	<200	200	N	N	--	40	--	--
HE594S	N	200	70	N	50	<200	300	N	N	--	35	--	--
HE595S	30	200	200	N	70	1,000	300	N	N	--	340	--	--
HE596S	10	300	200	N	70	1,000	200	N	N	--	540	--	--
HE597S	N	200	200	N	30	300	500	N	N	--	170	--	--
HE598S	70	200	500	N	50	500	300	N	N	--	220	--	--
HE599S	N	150	200	N	20	300	300	N	N	--	150	--	--
HE600S	N	150	200	N	30	300	200	N	N	--	190	--	--
HE601S	N	200	150	N	30	N	200	N	N	--	45	--	--
HE602S	N	100	100	N	20	N	200	N	N	--	55	--	--
HE603S	N	100	100	N	15	N	300	N	N	--	60	--	--
HE604S	N	100	70	N	10	N	300	N	N	--	35	--	--
HE605S	N	200	100	N	15	N	300	N	N	--	60	--	--
HE606S	N	N	70	N	20	N	200	N	N	--	75	--	--
HE607S	N	100	200	N	15	N	500	N	1.20	--	45	--	--
HE608S	N	150	100	N	10	N	200	N	.20	--	60	--	--
HE609S	N	100	150	N	10	N	200	N	1.70	--	70	--	--
HE610S	N	100	70	N	30	N	1,000	N	N	--	55	--	--
HE611S	N	200	100	N	20	N	200	N	2.60	--	70	--	--
HE612S	N	200	100	N	10	N	200	N	N	--	35	--	--
HE613S	N	200	70	N	15	N	500	N	N	--	35	--	--
HE614S	N	<100	100	N	20	N	300	N	N	--	75	--	--
HE615S	N	100	150	N	50	N	500	N	N	--	40	--	--
HE616S	N	100	200	N	50	700	700	N	N	--	460	--	--
HE617S	N	N	300	N	30	<200	300	N	N	--	180	--	--
HE618S	N	100	200	N	50	N	300	N	N	--	130	--	--
HE619S	N	N	500	N	70	3,000	200	N	N	--	1,900	--	--
HE620S	N	100	150	N	50	N	500	N	N	--	160	--	--
HE621S	N	N	200	N	50	N	1,000	N	N	--	120	--	--
HE622S	N	N	150	N	50	N	1,000	N	N	--	120	--	--
HE623S	N	100	200	N	70	N	1,000	N	.05	--	180	--	--
HE624S	N	N	150	N	30	700	1,000	N	.05	--	540	--	--
HE625S	10	100	200	N	30	<200	700	N	N	--	140	--	--
HE626S	N	200	200	N	20	N	500	N	N	--	160	--	--
HE627S	N	300	150	N	100	N	200	N	N	--	90	--	--
HE628S	N	200	300	N	30	N	300	N	N	--	140	--	--
HE629S	N	300	200	50	50	N	500	N	N	--	70	--	--
HE630S	N	N	150	N	20	N	500	N	N	--	65	--	--
HE631S	N	100	200	N	30	N	700	N	N	--	170	--	--
HE632S	N	100	200	N	30	N	300	N	N	--	150	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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
HE633S	63 49 26	148 16 52	7.0	1.00	.30	.70	1,000	N	N	N	150	1,000
HE634S	63 49 22	148 16 40	7.0	.70	.20	.50	1,000	N	N	N	150	700
HE635S	63 50 5	148 15 45	7.0	1.50	.20	.70	1,000	N	N	N	150	700
HE636S	63 50 15	148 16 30	7.0	1.00	.50	1.00	1,000	N	N	N	100	700
HE637S	63 50 10	148 15 0	5.0	1.00	.20	.50	700	N	N	N	150	700
HE638S	63 50 30	148 14 46	7.0	1.50	.50	1.00	1,500	N	N	N	100	700
HE639S	63 57 35	148 31 27	2.0	.50	.20	.50	500	N	N	N	50	2,000
HE640S	63 54 51	148 42 23	3.0	.20	.15	>1.00	1,000	N	N	N	70	700
HE641S	63 54 40	148 37 15	7.0	1.50	.50	.70	2,000	1.0	N	N	100	1,000
HE642S	63 55 17	148 44 58	3.0	.50	.50	.50	2,000	N	N	N	100	1,000
HE643S	63 54 31	148 37 15	5.0	.50	.15	.70	1,000	N	N	N	150	700
HE644S	63 48 7	149 6 40	5.0	.70	.70	.30	1,000	N	N	N	150	700
HE645S	63 54 34	148 38 40	5.0	.70	.10	.70	1,000	N	N	N	300	700
HE646S	63 48 5	149 7 4	7.0	1.50	1.00	1.00	2,000	N	N	N	150	1,000
HE647S	63 48 35	149 4 52	10.0	1.00	.70	.50	1,000	N	N	N	150	700
HE648S	63 48 12	149 11 25	5.0	1.00	.50	.50	700	N	N	N	200	700
HE649S	63 48 10	149 8 42	10.0	1.00	.70	.50	1,500	N	N	N	150	700
HE650S	63 48 20	149 12 30	5.0	.70	.30	.50	700	N	N	N	150	700
HE651S	63 48 56	149 12 17	3.0	.30	.20	.70	1,500	N	N	N	150	700
HE652S	63 49 20	149 23 17	3.0	.70	.70	>1.00	1,500	N	N	N	100	700
HE653S	63 48 56	149 12 1	2.0	.50	.70	.70	500	N	N	N	100	700
HE654S	63 48 9	149 36 6	2.0	1.00	.70	1.00	500	N	N	N	100	1,000
HE655S	63 48 8	149 19 48	2.0	.30	.10	.70	1,500	N	N	N	100	500
HE656S	63 48 9	149 40 8	3.0	.70	1.00	.70	1,000	N	N	N	70	700
HE657S	63 48 15	149 30 15	2.0	.50	.70	.70	700	N	N	N	70	1,000
HE658S	63 48 7	149 46 48	3.0	.30	.50	1.00	1,500	N	N	N	150	1,000
HE659S	63 48 8	149 40 31	3.0	.50	1.00	>1.00	2,000	N	N	N	100	700
HE660S	63 52 40	149 20 18	2.0	.70	.70	.70	3,000	N	N	N	150	1,000
HE661S	63 50 47	148 24 6	3.0	1.00	.50	.50	1,000	7.0	N	N	150	700
HE662S	63 50 49	148 24 5	3.0	.50	.50	.70	1,000	N	N	N	150	700
HE663S	63 51 17	148 23 42	5.0	1.00	.70	.70	1,000	N	N	N	150	700
HE664S	63 52 16	148 23 17	3.0	.70	.10	>1.00	1,500	N	N	N	150	1,000
HE665S	63 51 55	148 18 16	3.0	.70	1.00	1.00	700	N	N	N	150	700
HE666S	63 51 42	148 18 30	3.0	1.00	1.00	1.00	1,000	N	N	N	200	700
HE667S	63 51 23	148 16 45	3.0	.70	.70	>1.00	1,500	N	N	N	150	700
HE668S	63 55 45	148 32 47	3.0	1.00	.50	.50	1,000	N	N	N	150	3,000
HE669S	63 55 39	148 32 38	3.0	.50	.10	.50	700	N	N	N	100	2,000
HE670S	63 57 43	148 29 24	3.0	.70	.30	.70	700	N	N	N	150	3,000
HE671S	63 57 0	148 29 0	3.0	.30	.10	.70	500	N	N	N	100	>5,000
HE672S	63 55 58	148 26 40	3.0	.70	.20	1.00	300	N	N	N	100	5,000
HE673S	63 52 0	149 21 45	3.0	.70	.70	.70	1,500	N	N	N	100	700
HE674S	63 56 2	149 9 29	3.0	.70	.70	1.00	1,000	N	N	N	70	1,000
HE675S	63 56 0	149 18 0	5.0	1.00	1.00	>1.00	1,500	N	N	N	70	1,000
HE676S	63 58 47	149 9 50	3.0	.70	.70	>1.00	1,000	N	N	N	100	700
HE677S	63 59 48	149 12 29	2.0	.70	.50	>1.00	700	N	N	N	100	700

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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	Sb-ppm s	Sc-ppm s
HE633S	2.0	N	N	30	100	70	100	N	N	70	50	N	15
HE634S	2.0	N	N	30	150	70	100	5	N	70	100	N	15
HE635S	2.0	N	N	30	100	100	150	N	N	70	30	N	15
HE636S	1.5	N	N	30	100	50	70	N	N	70	50	N	15
HE637S	1.5	N	N	20	100	50	70	N	N	70	30	N	15
HE638S	2.0	N	N	30	150	100	50	N	N	70	50	N	15
HE639S	1.5	N	N	15	100	20	150	5	N	50	20	N	10
HE640S	1.5	N	N	20	700	30	150	N	20	30	70	N	15
HE641S	2.0	N	N	50	100	150	200	5	N	100	300	N	15
HE642S	1.5	N	N	20	200	30	30	5	N	70	20	N	15
HE643S	2.0	N	N	20	70	50	100	5	N	30	70	N	15
HE644S	2.0	N	N	20	100	50	100	N	N	50	30	N	15
HE645S	3.0	N	N	20	100	30	150	7	N	30	30	N	20
HE646S	2.0	N	N	30	200	150	150	N	N	50	70	N	20
HE647S	1.5	N	N	30	150	100	70	N	N	30	100	N	15
HE648S	2.0	N	N	20	100	70	100	N	N	50	70	N	15
HE649S	2.0	N	N	30	150	200	100	N	N	70	150	N	15
HE650S	2.0	N	N	30	100	100	100	N	N	30	30	N	15
HE651S	1.5	N	N	15	70	30	N	5	N	30	20	N	15
HE652S	1.5	N	N	15	500	30	150	7	20	30	10	N	20
HE653S	1.5	N	N	15	100	15	20	N	N	20	10	N	15
HE654S	1.5	N	N	15	150	20	20	7	N	30	10	N	15
HE655S	1.5	N	N	10	70	10	N	N	N	15	10	N	7
HE656S	2.0	N	N	20	150	30	50	N	N	30	15	N	15
HE657S	2.0	N	N	10	100	15	70	N	N	20	15	N	10
HE658S	2.0	N	N	15	150	30	50	N	20	20	15	N	15
HE659S	1.5	N	N	20	150	30	70	N	<20	30	10	N	20
HE660S	2.0	N	N	30	150	20	70	N	N	30	15	N	15
HE661S	2.0	20	N	30	150	50	100	N	N	70	1,500	N	15
HE662S	2.0	N	N	30	100	50	100	N	<20	70	70	N	15
HE663S	2.0	N	N	30	150	100	70	N	N	70	50	N	15
HE664S	3.0	N	N	30	100	50	70	N	20	50	50	N	20
HE665S	2.0	N	N	30	70	30	70	N	N	50	30	N	15
HE666S	2.0	N	N	30	150	70	50	N	N	50	50	N	15
HE667S	2.0	N	N	30	100	70	50	N	N	30	30	N	10
HE668S	3.0	N	N	20	100	30	100	<5	N	30	30	N	15
HE669S	3.0	N	N	20	100	50	70	N	N	30	30	N	15
HE670S	2.0	N	N	30	70	30	150	N	N	30	30	N	15
HE671S	1.5	N	N	20	50	30	70	N	N	20	50	N	15
HE672S	3.0	N	N	10	70	100	50	5	N	30	30	N	15
HE673S	1.5	N	N	30	100	30	30	N	N	20	20	N	15
HE674S	1.5	N	N	20	200	20	50	N	N	30	10	N	15
HE675S	1.0	N	N	20	300	30	N	N	N	30	10	N	15
HE676S	2.0	N	N	20	200	15	200	N	N	30	10	N	15
HE677S	1.5	N	N	20	150	20	50	N	N	30	10	N	15

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Sb-ppm aa
HE633S	N	N	150	N	30	N	500	N	N	--	110	--	--
HE634S	N	<100	200	N	50	N	300	N	N	--	140	--	--
HE635S	N	N	200	N	70	N	300	N	.65	--	100	--	--
HE636S	N	N	150	N	20	N	300	N	N	--	95	--	--
HE637S	N	100	150	N	30	N	300	N	N	--	85	--	--
HE638S	N	100	150	N	30	N	300	N	N	--	100	--	--
HE639S	N	100	100	N	30	N	300	N	N	--	110	--	--
HE640S	20	N	100	N	50	N	>1,000	N	1.60	--	60	--	--
HE641S	N	100	150	N	50	500	1,000	N	N	--	280	--	--
HE642S	N	N	200	N	30	N	1,000	N	N	--	100	--	--
HE643S	N	N	150	N	50	N	>1,000	N	N	--	160	--	--
HE644S	N	N	150	N	20	N	300	N	<.05	--	110	--	--
HE645S	N	N	150	N	70	N	500	N	N	--	90	--	--
HE646S	N	150	200	N	70	N	300	N	N	--	140	--	--
HE647S	N	100	200	N	30	N	500	N	N	--	130	--	--
HE648S	N	N	150	N	30	N	500	N	N	--	140	--	--
HE649S	N	N	100	N	30	<200	700	N	N	--	170	--	--
HE650S	N	N	150	N	50	N	500	N	N	--	120	--	--
HE651S	N	N	150	N	30	N	700	N	N	--	50	--	--
HE652S	N	100	300	N	30	N	500	N	N	--	70	--	--
HE653S	N	150	200	N	20	N	300	N	N	--	50	--	--
HE654S	N	150	200	<50	20	N	300	N	N	--	75	--	--
HE655S	N	N	100	N	20	<200	300	N	<.05	--	30	--	--
HE656S	N	150	150	N	30	N	200	N	N	--	100	--	--
HE657S	N	100	150	N	20	N	300	N	N	--	85	--	--
HE658S	N	100	200	N	20	N	500	N	N	--	80	--	--
HE659S	N	150	200	N	30	N	300	N	.50	--	100	--	--
HE660S	N	200	150	N	30	N	300	N	N	--	90	--	--
HE661S	N	150	150	N	30	N	300	N	N	--	120	--	--
HE662S	N	<100	100	N	30	N	300	N	N	--	120	--	--
HE663S	N	N	150	N	30	N	300	N	.30	--	100	--	--
HE664S	N	N	150	N	50	200	500	N	<.05	--	170	--	--
HE665S	N	200	100	N	30	N	300	N	N	--	90	--	--
HE666S	N	100	150	N	30	<200	200	N	N	--	100	--	--
HE667S	N	100	100	N	30	N	200	N	N	--	80	--	--
HE668S	N	100	150	N	30	200	300	N	N	--	200	--	--
HE669S	N	N	150	N	30	300	300	N	N	--	240	--	--
HE670S	N	100	150	N	30	N	300	N	6.00	--	120	--	--
HE671S	N	<100	100	N	50	N	700	N	<.05	--	160	--	--
HE672S	N	N	150	N	30	200	200	N	N	--	170	--	--
HE673S	N	100	150	N	20	N	150	N	N	--	85	--	--
HE674S	N	150	150	N	20	N	200	N	N	--	60	--	--
HE675S	N	200	200	N	15	N	200	N	4.00	--	80	--	--
HE676S	N	300	150	N	30	N	200	N	.05	--	60	--	--
HE677S	N	300	150	N	20	N	150	N	N	--	80	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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
HE678S	63 59 53	149 13 53	3.0	.70	1.00	1.00	1,500	N	N	N	70	700
HE679S	63 55 54	147 21 44	3.0	1.50	.50	1.00	700	N	N	N	50	1,500
HE680S	63 56 1	147 22 6	3.0	1.50	.30	1.00	700	.5	N	N	30	1,500
HE681S	63 56 6	147 18 45	5.0	1.50	.50	>1.00	1,000	N	N	N	20	1,000
HE682S	63 55 35	147 17 40	1.5	.30	.20	.70	500	N	N	N	50	700
HE683S	63 56 24	147 15 31	2.0	1.00	.20	.70	700	N	N	N	70	1,000
HE684S	63 56 8	147 12 13	2.0	.50	.30	.50	700	N	N	N	50	1,500
HE685S	63 57 50	147 15 21	3.0	.50	.20	.50	1,500	<.5	N	N	100	1,000
HE686S	63 58 18	147 15 42	2.0	.70	.20	.30	700	N	N	N	70	1,000
HE687S	63 59 9	147 17 10	2.0	.50	.15	.20	500	N	N	N	70	1,000
HE688S	63 59 32	147 15 3	2.0	.70	1.00	.70	1,000	N	N	N	70	700
HE689S	63 59 51	147 27 58	5.0	1.50	.30	1.00	1,000	<.5	N	N	150	1,500
HE690S	63 59 47	147 21 20	3.0	1.00	.30	.50	700	3.0	N	N	100	1,500
HE691S	63 56 45	147 38 22	3.0	1.00	.30	.50	500	N	N	N	100	2,000
HE692S	63 59 44	147 25 22	3.0	1.00	.20	.70	1,000	N	N	N	150	2,000
HE693S	63 56 51	147 38 6	5.0	1.50	.20	.70	700	N	N	N	100	2,000
HE694S	63 59 56	147 30 43	3.0	1.50	.20	1.00	1,000	N	N	N	100	1,500
HE695S	63 54 40	147 43 45	5.0	1.00	.10	.30	700	N	N	N	150	1,500
HE696S	63 59 45	147 33 38	7.0	2.00	.30	.50	1,000	N	N	N	150	1,500
HE697S	63 56 35	147 40 47	2.0	.50	.15	.30	1,000	N	N	N	100	1,000
HE698S	63 59 53	147 37 5	7.0	2.00	.50	.50	1,000	.5	N	N	70	2,000
HE699S	63 56 29	147 40 25	5.0	1.50	.30	.70	1,000	N	N	N	100	2,000
HE700S	63 54 24	147 37 30	7.0	1.50	.10	.50	700	N	N	N	100	1,500
HE701S	63 43 25	147 26 25	7.0	2.00	3.00	.70	1,500	N	N	N	50	2,000
HE702S	63 42 45	147 26 43	7.0	2.00	2.00	1.00	1,500	N	N	N	50	1,000
HE703S	63 42 58	147 26 28	7.0	3.00	3.00	.70	1,500	<.5	N	N	30	1,500
HE705S	63 41 57	147 26 8	10.0	3.00	1.50	.70	700	.5	N	N	100	1,500
HE706S	63 43 42	147 27 17	5.0	2.00	3.00	.70	1,000	N	N	N	70	2,000
HE707S	63 44 20	147 27 13	5.0	3.00	1.50	.50	1,000	.5	N	N	70	1,000
HE707S	63 44 20	147 27 13	15.0	1.50	3.00	.30	2,000	N	N	N	50	700
HE708S	63 45 6	147 28 12	5.0	2.00	1.00	.30	1,000	N	N	N	70	2,000
HE709S	63 46 58	147 28 1	7.0	3.00	1.50	.70	700	N	N	N	30	1,500
HE710S	63 51 4	147 23 36	5.0	1.50	.70	.30	700	.5	N	N	100	1,500
HE711S	63 50 54	147 23 45	7.0	1.50	.50	.50	700	N	N	N	70	1,000
HE712S	63 53 12	147 11 45	3.0	1.50	.50	.30	500	N	N	N	50	1,000
HE713S	63 50 58	147 20 30	5.0	1.50	.50	.30	700	N	N	N	70	1,500
HE714S	63 52 44	147 15 17	2.0	1.50	.50	.20	700	.5	N	N	70	1,500
HE715S	63 49 41	147 17 40	1.5	1.00	.30	.30	700	N	N	N	70	700
HE716S	63 51 17	147 13 32	1.5	1.50	.30	.20	1,000	N	N	N	100	1,500
HE717S	63 49 40	147 18 0	3.0	1.50	.70	.30	700	N	N	N	100	1,000
HE718S	63 52 38	147 20 15	2.0	2.00	.70	.30	1,000	N	N	N	150	2,000
HE719S	63 49 10	147 21 32	1.5	2.00	1.00	.50	700	N	N	N	100	1,000
HE720S	63 52 47	147 20 5	1.5	1.00	.50	.30	700	N	N	N	50	1,000
HE721S	63 47 42	147 22 53	3.0	1.50	2.00	.30	700	N	N	N	30	1,000
HE722S	63 48 56	147 27 34	2.0	1.50	1.00	.30	700	N	N	N	100	700

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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	Sb-ppm s	Sc-ppm s
HE678S	1.5	N	N	20	100	30	50	N	N	30	10	N	15
HE679S	5.0	N	N	30	50	100	500	<5	30	50	100	N	15
HE680S	3.0	N	N	20	20	70	200	<5	70	20	200	N	15
HE681S	3.0	N	N	30	70	50	150	5	70	30	70	N	15
HE682S	1.5	N	N	10	70	5	50	N	<20	15	15	N	7
HE683S	2.0	N	N	10	50	15	150	N	20	20	20	N	15
HE684S	1.5	N	N	10	100	15	N	<5	N	20	15	N	10
HE685S	1.5	N	N	20	150	20	30	N	N	15	15	N	15
HE686S	2.0	N	N	15	70	15	100	N	20	20	20	N	15
HE687S	1.0	N	N	10	70	10	20	N	N	30	15	N	10
HE688S	1.5	N	N	15	70	10	30	N	N	15	15	N	15
HE689S	3.0	N	N	30	150	70	150	N	N	70	100	N	15
HE690S	3.0	N	N	15	70	30	50	<5	N	30	50	N	10
HE691S	2.0	N	N	20	70	30	100	N	20	50	30	N	15
HE692S	2.0	N	N	30	100	50	100	N	N	70	30	N	15
HE693S	1.5	N	N	20	100	100	100	N	20	70	100	N	15
HE694S	2.0	N	N	30	150	70	100	N	N	70	30	N	15
HE695S	1.5	N	N	30	100	30	100	N	N	50	300	N	15
HE696S	1.5	N	N	20	100	30	100	N	20	50	70	N	20
HE697S	1.5	N	N	15	50	10	100	N	30	20	30	N	7
HE698S	1.0	N	N	30	100	100	150	10	N	100	150	N	15
HE699S	1.0	N	N	30	100	50	100	N	N	70	50	N	20
HE700S	1.5	N	N	20	70	70	70	N	N	50	50	N	15
HE701S	<1.0	N	N	20	100	70	30	N	N	50	20	N	30
HE702S	N	N	N	30	50	100	N	10	N	70	10	N	30
HE703S	N	N	N	30	100	150	N	5	N	50	<10	N	30
HE705S	1.0	N	N	30	100	200	30	N	N	70	20	N	20
HE706S	N	N	N	30	100	30	50	N	N	50	15	N	30
HE707S	1.0	N	N	30	150	150	30	10	N	100	20	N	20
HE707S	1.0	N	N	30	150	10	150	7	N	10	30	N	20
HE708S	1.0	N	N	20	100	50	70	10	N	50	30	N	15
HE709S	1.0	N	N	30	150	50	50	5	N	100	20	N	20
HE710S	2.0	N	N	20	100	30	70	<5	N	70	30	N	15
HE711S	1.0	N	N	20	100	30	100	N	N	50	50	N	15
HE712S	1.0	N	N	15	100	15	70	10	20	70	10	N	15
HE713S	1.5	N	N	15	100	30	50	5	N	50	50	N	15
HE714S	1.0	N	N	15	70	50	30	7	N	70	30	N	10
HE715S	1.0	N	N	10	50	20	30	N	N	30	30	N	7
HE716S	1.0	N	N	20	70	30	70	<5	N	70	20	N	10
HE717S	1.5	N	N	30	70	30	100	N	N	50	30	N	15
HE718S	1.0	N	N	30	70	50	70	5	N	50	30	N	15
HE719S	1.0	N	N	20	100	15	100	<5	N	50	20	N	15
HE720S	N	N	N	30	70	100	50	<5	N	70	20	N	20
HE721S	1.0	N	N	20	70	10	70	5	N	30	30	N	15
HE722S	1.0	N	N	20	70	15	70	N	N	50	30	N	20

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Sb-ppm aa
HE678S	N	150	150	N	20	N	300	N	N	--	60	--	--
HE679S	N	N	150	N	100	2,000	500	N	.30	--	1,700	--	--
HE680S	<10	N	150	N	100	1,500	500	N	<.05	--	1,600	--	--
HE681S	<10	100	300	N	70	1,000	1,000	N	N	--	700	--	--
HE682S	N	100	100	N	15	N	500	N	N	--	140	--	--
HE683S	N	N	150	N	30	N	700	N	.50	--	40	--	--
HE684S	N	100	150	N	15	N	700	N	N	--	60	--	--
HE685S	N	100	150	N	30	N	300	N	N	--	100	--	--
HE686S	N	N	150	N	50	N	700	N	N	--	100	--	--
HE687S	N	N	150	N	20	N	500	N	N	--	50	--	--
HE688S	N	300	150	<50	30	N	500	N	N	--	50	--	--
HE689S	N	N	200	N	70	500	500	N	N	--	300	--	--
HE690S	N	N	150	N	30	200	300	N	N	--	210	--	--
HE691S	N	N	150	N	50	N	500	N	N	--	140	--	--
HE692S	N	N	150	N	30	700	300	N	N	--	340	--	--
HE693S	N	N	150	N	30	N	500	N	N	--	170	--	--
HE694S	N	N	150	N	30	N	500	N	N	--	170	--	--
HE695S	N	N	150	N	70	300	700	N	N	--	300	--	--
HE696S	N	N	200	N	50	200	500	N	N	--	300	--	--
HE697S	N	N	100	N	30	N	700	N	N	--	120	--	--
HE698S	N	N	200	N	100	1,500	500	N	N	--	1,200	--	--
HE699S	N	100	200	N	50	300	200	N	N	--	280	--	--
HE700S	N	N	100	N	30	N	200	N	N	--	170	--	--
HE701S	N	200	300	N	30	N	150	N	N	--	150	--	--
HE702S	N	150	500	N	30	N	150	N	N	--	110	--	--
HE703S	N	150	500	N	30	N	70	N	N	--	90	--	--
HE705S	N	100	300	N	30	200	150	N	N	--	170	--	--
HE706S	N	300	300	N	50	N	150	N	<.05	--	120	--	--
HE707S	N	100	300	N	30	<200	150	N	N	--	170	--	--
HE707S	N	500	700	N	50	N	700	N	N	--	25	--	--
HE708S	N	300	200	N	30	<200	1,000	N	N	--	260	--	--
HE709S	N	200	300	N	30	<200	300	N	N	--	260	--	--
HE710S	N	100	200	N	30	<200	300	N	N	--	360	--	--
HE711S	N	150	150	N	30	N	700	N	N	--	120	--	--
HE712S	N	100	150	<50	30	N	150	N	.10	--	100	--	--
HE713S	N	<100	100	N	20	N	500	N	.50	--	160	--	--
HE714S	N	<100	200	N	20	300	150	N	N	--	380	--	--
HE715S	N	N	70	N	20	N	300	N	N	--	100	--	--
HE716S	N	N	100	N	15	300	150	N	N	--	380	--	--
HE717S	N	100	100	N	30	N	200	N	N	--	120	--	--
HE718S	N	100	150	N	50	200	150	N	N	--	180	--	--
HE719S	N	150	150	N	30	N	200	N	N	--	80	--	--
HE720S	N	100	100	N	20	500	100	N	N	--	560	--	--
HE721S	N	500	150	N	30	N	150	N	N	--	70	--	--
HE722S	N	150	70	N	20	N	200	N	N	--	90	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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
HE723S	63 47 23	147 17 28	7.0	1.50	1.50	.50	700	N	N	N	30	1,000
HE724S	63 47 27	147 20 49	3.0	2.00	2.00	.30	1,000	N	N	N	30	1,000
HE725S	63 56 0	147 27 8	5.0	1.50	.70	.30	500	N	N	N	100	1,000
HE726S	63 57 33	147 6 0	3.0	1.50	1.00	.30	1,000	N	N	N	50	700
HE727S	63 58 8	147 5 8	3.0	1.00	1.00	.30	2,000	N	N	N	70	1,000
HE728S	63 57 30	147 1 30	5.0	1.50	1.00	.20	1,500	N	N	N	70	1,000
HE729S	63 54 23	147 6 35	3.0	.70	1.00	.50	700	<.5	N	N	50	1,000
HE730S	63 51 36	147 6 54	5.0	1.50	1.50	.70	1,500	N	N	N	70	700
HE731S	63 54 35	147 6 22	3.0	1.00	.70	.70	1,500	N	N	N	70	1,000
HE732S	63 51 2	147 7 49	7.0	2.00	3.00	.70	2,000	N	N	N	70	1,000
HE733S	63 51 4	147 5 20	5.0	2.00	2.00	1.00	1,500	N	N	N	100	700
HE734S	63 48 48	147 4 40	5.0	1.50	2.00	.70	1,500	N	N	N	150	1,000
HE735S	63 49 47	147 0 32	3.0	2.00	2.00	1.00	1,500	N	N	N	70	1,500
HE736S	63 47 42	147 2 46	7.0	1.50	2.00	>1.00	1,500	N	N	N	100	1,000
HE737S	63 46 41	147 10 0	7.0	2.00	3.00	.70	1,500	N	N	N	70	1,000
HE738S	63 47 45	147 3 15	5.0	2.00	7.00	>1.00	2,000	3.0	N	N	50	1,000
HE739S	63 56 19	147 28 0	5.0	1.50	.30	1.00	700	.5	N	N	100	700
HE740S	63 45 38	147 4 30	10.0	2.00	2.00	>1.00	2,000	<.5	N	N	50	1,000
HE741S	63 56 28	147 27 30	5.0	1.50	5.00	.70	700	N	N	N	150	1,000
HE742S	63 44 33	147 1 14	3.0	2.00	2.00	1.00	1,500	N	N	N	70	1,500
HE743S	63 56 28	147 25 38	5.0	1.50	.15	1.00	1,500	N	N	N	150	1,000
HE744S	63 43 25	147 1 16	7.0	1.50	1.00	1.00	1,000	.7	N	N	100	1,500
HE745S	63 55 40	147 26 30	3.0	1.50	1.00	.70	1,000	<.5	N	N	100	2,000
HE746S	63 43 53	147 6 46	7.0	3.00	3.00	.50	1,500	N	700	N	100	1,000
HE747S	63 43 11	147 13 7	7.0	2.00	5.00	1.00	1,500	N	N	N	70	1,000
HE748S	63 42 46	147 6 15	7.0	3.00	3.00	1.00	1,500	<.5	N	N	70	700
HE749S	63 43 3	147 4 34	5.0	1.50	1.00	.50	1,000	<.5	N	N	100	700
HE750S	63 42 50	147 7 26	7.0	2.00	2.00	.70	1,500	.5	N	N	100	1,500
HE751S	63 44 27	147 56 46	3.0	1.50	1.00	.70	700	.5	N	N	70	500
HE752S	63 44 32	147 57 10	5.0	1.50	3.00	.70	700	.5	N	N	150	700
HE753S	63 43 30	147 50 51	7.0	1.50	10.00	.30	1,000	1.5	N	N	200	1,000
HE754S	63 43 35	147 51 30	2.0	.70	.50	.50	500	1.0	N	N	100	700
HE755S	63 42 47	147 50 46	2.0	1.50	.70	.50	1,000	.7	N	N	100	2,000
HE756S	63 40 45	147 51 27	2.0	2.00	.70	.30	1,500	<.5	N	N	100	1,000
HE757S	63 40 43	147 51 42	7.0	2.00	3.00	>1.00	2,000	N	N	N	50	2,000
HE758S	63 41 10	147 51 51	1.5	.70	.20	.30	300	N	N	N	100	700
HE759S	63 45 43	147 52 8	7.0	3.00	3.00	>1.00	1,500	N	N	N	50	700
HE760S	63 45 23	147 49 6	5.0	5.00	5.00	1.00	2,000	N	N	N	70	1,000
HE761S	63 45 30	147 46 0	3.0	3.00	1.50	.70	1,000	N	N	N	50	1,500
HE762S	63 44 40	147 45 27	2.0	1.50	10.00	.30	500	2.0	N	N	150	2,000
HE763S	63 45 22	147 43 45	7.0	1.50	1.00	.70	1,500	<.5	N	N	70	5,000
HE764S	63 43 23	147 43 40	5.0	1.50	2.00	.50	1,500	1.0	N	N	100	2,000
HE765S	63 44 30	147 38 10	5.0	1.50	3.00	.50	1,500	1.0	N	N	100	500
HE766S	63 42 0	147 44 0	10.0	2.00	3.00	>1.00	2,000	<.5	N	N	50	2,000
HE767S	63 41 58	147 43 40	7.0	2.00	5.00	>1.00	1,500	N	N	N	20	1,000

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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	Sb-ppm s	Sc-ppm s
HE723S	<1.0	N	N	20	100	5	150	N	N	5	20	N	15
HE724S	1.0	N	N	15	70	7	150	N	N	7	20	N	30
HE725S	1.5	N	N	20	70	30	100	N	N	30	70	N	20
HE726S	1.0	N	N	15	70	15	50	N	N	20	15	N	15
HE727S	1.0	N	N	30	100	15	70	<5	N	30	15	N	15
HE728S	1.0	N	N	20	70	15	N	7	N	50	20	N	15
HE729S	1.0	N	N	10	100	15	30	N	N	30	50	N	10
HE730S	1.5	N	N	20	150	30	50	5	N	70	50	N	20
HE731S	1.0	N	N	20	150	30	N	<5	N	70	30	N	15
HE732S	1.5	N	N	20	150	30	100	<5	N	70	30	N	30
HE733S	1.0	N	N	20	200	20	100	N	N	70	30	N	20
HE734S	1.5	N	N	15	150	30	70	N	N	50	20	N	20
HE735S	2.0	N	N	15	150	15	70	<5	N	30	30	N	20
HE736S	1.0	N	N	20	150	50	70	15	N	50	30	N	20
HE737S	2.0	N	N	20	150	20	150	<5	N	30	30	N	20
HE738S	2.0	N	N	15	100	30	200	N	N	20	200	N	30
HE739S	2.0	N	N	20	100	30	70	N	20	30	100	N	15
HE740S	1.5	N	N	30	200	50	70	7	30	150	30	N	20
HE741S	1.5	N	N	20	150	50	100	N	N	50	50	N	15
HE742S	1.0	N	N	20	200	100	100	10	N	100	30	N	30
HE743S	1.5	N	N	20	100	30	150	N	N	50	30	N	20
HE744S	1.0	N	N	30	150	70	100	7	N	100	70	N	20
HE745S	3.0	N	N	20	100	50	150	20	30	70	70	N	15
HE746S	1.5	N	N	20	150	30	50	5	N	100	30	N	30
HE747S	1.0	N	N	30	150	150	70	<5	N	70	15	N	30
HE748S	1.0	N	N	30	500	200	30	5	N	150	10	N	30
HE749S	1.0	N	N	15	100	100	70	<5	N	30	20	N	15
HE750S	1.5	N	N	30	150	150	N	5	N	70	15	N	20
HE751S	1.0	N	N	20	200	70	50	5	N	50	30	N	15
HE752S	1.0	N	N	20	150	70	50	15	N	100	30	N	15
HE753S	1.5	N	N	30	150	150	70	20	N	100	50	N	15
HE754S	1.5	N	N	20	150	70	70	7	N	100	50	N	15
HE755S	1.5	N	N	20	100	100	50	7	N	100	20	N	15
HE756S	1.0	N	N	20	150	100	70	7	N	150	10	N	15
HE757S	N	N	N	30	200	150	N	5	N	150	N	N	30
HE758S	2.0	N	N	15	100	50	30	5	N	30	10	N	10
HE759S	N	N	N	50	200	50	N	N	N	150	10	N	30
HE760S	1.0	N	N	30	200	100	50	5	N	70	20	N	30
HE761S	1.0	N	N	15	100	30	100	7	N	20	20	N	20
HE762S	1.5	N	N	10	150	50	70	30	N	100	20	N	15
HE763S	1.5	N	N	20	150	50	100	N	30	70	20	N	30
HE764S	1.0	N	N	20	150	70	50	15	N	100	20	N	20
HE765S	1.5	N	N	15	100	70	50	20	20	100	20	N	15
HE766S	1.0	N	N	30	200	150	30	7	N	150	10	N	30
HE767S	N	N	N	20	150	70	30	N	N	50	N	N	30

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Sb-ppm aa
HE723S	N	700	200	N	50	N	700	N	N	--	30	--	--
HE724S	N	500	300	N	50	N	150	N	N	--	60	--	--
HE725S	N	N	100	N	50	N	700	N	N	--	130	--	--
HE726S	N	300	300	N	30	N	700	N	N	--	75	--	--
HE727S	N	200	150	N	20	N	500	N	.10	--	70	--	--
HE728S	N	200	150	N	15	N	200	N	N	--	70	--	--
HE729S	N	200	150	N	20	N	200	N	N	--	40	--	--
HE730S	N	150	200	N	30	200	300	N	N	--	190	--	--
HE731S	N	150	150	N	30	N	500	N	<.05	--	60	--	--
HE732S	N	500	300	N	50	N	500	N	N	--	50	--	--
HE733S	N	200	150	N	50	N	500	N	3.20	--	110	--	--
HE734S	N	300	100	N	30	N	300	N	N	--	70	--	--
HE735S	N	300	200	N	30	N	300	N	N	--	60	--	--
HE736S	N	300	200	N	30	<200	200	N	N	--	110	--	--
HE737S	N	1,000	100	N	30	N	200	N	N	--	55	--	--
HE738S	N	300	150	<50	50	N	700	N	N	--	55	--	--
HE739S	N	N	150	N	50	<200	300	N	--	--	140	--	--
HE740S	N	200	300	N	70	N	500	N	N	--	180	--	--
HE741S	N	100	150	N	50	<200	200	N	N	--	120	--	--
HE742S	N	300	300	N	30	N	150	N	N	--	140	--	--
HE743S	N	N	150	N	50	N	500	N	N	--	95	--	--
HE744S	N	150	300	N	30	1,000	300	N	N	--	500	--	--
HE745S	N	100	300	N	50	300	300	N	N	--	340	--	--
HE746S	N	700	300	N	50	N	300	N	<.05	--	75	--	--
HE747S	N	500	300	N	50	N	300	N	N	--	70	--	--
HE748S	N	150	500	N	50	<200	200	N	.30	--	120	--	--
HE749S	N	300	150	N	30	N	200	N	N	--	80	--	--
HE750S	N	150	300	N	30	200	150	N	N	--	200	--	--
HE751S	N	100	200	N	30	N	200	N	N	--	120	--	--
HE752S	N	300	300	N	50	200	200	N	N	--	190	--	--
HE753S	N	500	200	N	50	700	200	N	N	--	500	--	--
HE754S	N	100	300	N	50	<200	300	N	N	--	160	--	--
HE755S	N	150	300	N	30	N	200	N	.40	--	170	--	--
HE756S	N	<100	500	N	50	200	200	N	N	--	180	--	--
HE757S	N	200	500	N	30	N	150	N	N	--	110	--	--
HE758S	N	100	150	N	20	N	300	N	N	--	90	--	--
HE759S	N	300	200	N	50	N	200	N	N	--	75	--	--
HE760S	N	300	300	N	50	200	100	N	N	--	95	--	--
HE761S	N	200	150	N	50	N	300	N	N	--	90	--	--
HE762S	N	1,000	300	N	50	300	200	N	N	--	300	--	--
HE763S	N	500	300	N	70	<200	700	N	.10	--	150	--	--
HE764S	N	200	300	N	50	200	300	N	N	--	250	--	--
HE765S	N	300	200	N	70	200	500	N	N	--	200	--	--
HE766S	N	150	300	N	70	300	150	N	N	--	240	--	--
HE767S	N	100	500	N	30	N	100	N	N	--	90	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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
HE768S	63 44 30	147 34 50	5.0	2.00	5.00	.70	1,000	2.0	N	N	150	3,000
HE769S	63 44 20	147 34 50	7.0	3.00	7.00	>1.00	1,500	<.5	N	N	70	1,000
HE770S	63 47 30	147 51 30	10.0	5.00	5.00	>1.00	1,500	N	N	N	50	500
HE771S	63 45 26	147 51 35	5.0	2.00	2.00	1.00	1,000	N	N	N	30	700
HE772S	63 42 45	147 37 10	10.0	3.00	3.00	>1.00	1,500	N	N	N	50	1,000
HE773S	63 42 25	147 35 25	10.0	3.00	5.00	>1.00	2,000	N	N	N	30	1,000
HE774S	63 42 0	147 33 30	7.0	3.00	3.00	>1.00	1,500	1.0	N	N	70	700
HE775S	63 43 52	147 40 10	10.0	5.00	10.00	>1.00	2,000	N	N	N	100	700
HE776S	63 46 40	147 41 0	5.0	2.00	2.00	1.00	1,000	N	N	N	50	700
HE777S	63 45 50	147 56 45	5.0	2.00	2.00	1.00	1,500	N	N	N	70	1,500
HE778S	63 46 42	147 40 30	7.0	2.00	1.00	.70	1,500	N	N	N	50	1,000
HE779S	63 44 40	148 2 30	5.0	1.50	5.00	1.00	1,000	.7	N	N	100	3,000
HE780S	63 44 46	148 3 0	7.0	1.00	.50	1.00	1,000	N	N	N	50	1,000
HE781S	63 46 45	148 6 45	7.0	.70	.50	.70	1,000	N	N	N	100	700
HE782S	63 46 50	148 6 15	10.0	2.00	3.00	>1.00	1,500	N	N	N	100	1,000
HE783S	63 46 40	148 3 15	7.0	1.50	.70	1.00	1,000	N	N	N	70	1,000
HE784S	63 46 55	148 3 35	5.0	1.50	.70	1.00	1,000	N	N	N	100	1,500
HE785S	63 45 38	149 41 10	5.0	.50	.20	.70	1,000	N	N	N	70	700
HE786S	63 45 25	149 41 25	7.0	1.00	.50	1.00	1,500	N	N	N	100	500
HE787S	63 46 28	149 43 50	7.0	.70	.50	>1.00	1,000	N	N	N	200	700
HE788S	63 46 45	149 49 0	7.0	1.00	.30	1.00	1,500	<.5	N	N	150	700
HE789S	63 45 24	149 49 40	5.0	1.00	.20	1.00	2,000	N	N	N	200	500
HE790S	63 40 20	149 58 58	3.0	1.00	.30	.50	700	1.5	N	N	70	5,000
HE791S	63 43 14	149 56 35	7.0	.70	.30	>1.00	1,000	N	N	N	70	1,000
HE792S	63 41 12	149 51 10	7.0	1.50	1.50	.70	700	N	N	N	100	1,000
HE793S	63 41 28	149 50 45	7.0	1.00	.50	1.00	1,000	N	N	N	70	1,000
HE794S	63 41 35	149 53 45	10.0	1.50	.70	1.00	1,500	N	N	N	50	1,500
HE795S	63 39 50	149 53 30	7.0	1.50	.20	1.00	700	N	N	N	70	1,500
HE796S	63 38 8	149 53 45	2.0	1.50	10.00	.30	700	1.5	N	N	70	>5,000
HE797S	63 36 0	149 56 15	3.0	1.50	10.00	.50	500	N	N	N	150	1,000
HE798S	63 34 50	149 56 30	5.0	1.50	2.00	.70	1,500	N	N	N	100	700
HE799S	63 35 0	149 56 5	5.0	1.00	3.00	1.00	700	N	N	N	100	1,000
HE800S	63 34 40	149 52 30	7.0	1.50	3.00	>1.00	2,000	N	N	N	70	1,000
HE801S	63 36 5	149 52 15	5.0	1.50	1.00	1.00	1,000	N	N	N	100	700
HE802S	63 36 50	149 52 40	7.0	1.50	.50	>1.00	1,500	N	N	N	100	1,000
HE803S	63 37 33	149 50 10	5.0	1.00	.70	1.00	1,500	N	N	N	100	700
HE804S	63 36 20	149 42 10	7.0	1.00	.50	.70	1,500	N	N	N	70	700
HE805S	63 36 12	149 41 40	3.0	1.00	.70	1.00	1,500	N	N	N	100	700
HE806S	63 38 26	149 37 50	7.0	2.00	2.00	>1.00	2,000	N	N	N	100	700
HE807S	63 40 10	149 40 40	5.0	2.00	2.00	>1.00	1,500	<.5	N	N	150	700
HE808S	63 40 32	149 40 45	2.0	1.50	2.00	1.00	1,500	.5	N	N	100	1,000
HE809S	63 41 50	149 44 10	3.0	1.00	1.50	.70	1,000	N	N	N	150	1,000
HE810S	63 59 30	148 34 0	2.0	.70	1.00	.50	700	N	N	N	70	500
HE811S	63 59 50	148 32 50	5.0	1.00	1.00	1.00	1,000	N	N	N	100	500
HE812S	63 58 55	148 27 15	3.0	1.00	1.00	.50	500	N	N	N	100	1,500

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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	Sb-ppm s	Sc-ppm s
HE768S	1.5	N	N	15	150	50	20	15	N	100	15	N	15
HE769S	1.0	N	N	20	300	70	N	7	N	100	10	N	30
HE770S	1.0	N	N	30	150	30	N	N	N	150	10	N	20
HE771S	1.5	N	N	15	100	30	100	<5	20	30	30	N	20
HE772S	1.0	N	N	20	150	100	50	N	N	70	10	N	30
HE773S	N	N	N	30	200	100	N	N	N	70	10	N	30
HE774S	1.0	N	N	30	150	70	N	15	N	100	N	N	30
HE775S	1.5	N	N	30	200	100	N	7	N	100	15	N	20
HE776S	2.0	N	N	15	100	30	150	5	20	50	70	N	30
HE777S	1.5	N	N	10	70	15	70	7	N	20	50	N	20
HE778S	1.5	N	N	15	100	30	100	5	N	20	50	N	20
HE779S	1.0	N	N	15	100	50	N	10	N	50	30	N	15
HE780S	1.5	N	N	20	150	50	50	N	N	30	15	N	20
HE781S	2.0	N	N	20	200	30	70	N	20	30	30	N	15
HE782S	1.5	N	N	30	200	70	100	<5	20	150	30	N	30
HE783S	2.0	N	N	20	100	50	70	N	N	50	50	N	20
HE784S	2.0	N	N	20	150	30	50	5	N	70	30	N	15
HE785S	1.5	N	N	15	70	20	150	N	N	20	20	N	15
HE786S	1.0	N	N	20	100	30	70	N	N	50	30	N	15
HE787S	1.0	N	N	20	200	50	70	N	N	50	30	N	15
HE788S	1.5	N	N	15	150	50	30	N	N	50	20	N	15
HE789S	1.0	N	N	20	500	30	50	<5	N	50	20	N	15
HE790S	3.0	N	N	20	70	70	100	15	N	70	70	N	15
HE791S	2.0	N	N	15	100	30	70	5	20	30	30	N	15
HE792S	1.5	N	N	30	150	70	100	N	N	100	30	N	15
HE793S	1.5	N	N	30	100	70	100	N	N	100	50	N	15
HE794S	2.0	N	N	30	150	50	70	5	N	70	100	N	15
HE795S	1.5	N	N	30	100	150	100	N	N	30	70	N	15
HE796S	1.5	N	N	15	150	50	70	15	N	70	20	N	15
HE797S	1.0	N	N	15	100	50	50	10	N	50	20	N	10
HE798S	1.5	N	N	20	150	70	30	N	N	50	15	N	15
HE799S	1.5	N	N	20	150	70	20	N	N	50	10	N	15
HE800S	2.0	N	N	20	100	50	50	<5	N	50	20	N	20
HE801S	1.5	N	N	20	500	70	30	N	N	70	15	N	15
HE802S	1.0	N	N	30	150	70	50	N	N	100	15	N	20
HE803S	1.0	N	N	20	150	70	50	N	N	100	10	N	20
HE804S	1.5	N	N	20	150	70	30	N	N	100	20	N	20
HE805S	1.5	N	N	20	150	70	30	N	N	70	20	N	20
HE806S	1.5	N	N	30	300	100	30	N	N	100	10	N	30
HE807S	1.5	N	N	20	200	100	30	N	N	100	15	N	20
HE808S	1.5	N	N	20	150	50	30	10	N	100	20	N	15
HE809S	1.5	N	N	20	100	50	150	5	N	50	20	N	15
HE810S	1.5	N	N	10	70	15	30	N	N	20	N	N	15
HE811S	1.5	N	N	20	200	20	100	N	N	30	20	N	15
HE812S	1.5	N	N	20	100	30	50	5	N	50	15	N	15

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Sb-ppm aa
HE768S	N	200	200	N	30	<200	300	N	N	--	190	--	--
HE769S	N	300	300	N	50	N	200	N	N	--	140	--	--
HE770S	N	300	150	N	30	N	200	N	N	--	95	--	--
HE771S	N	150	200	N	70	N	200	N	N	--	90	--	--
HE772S	N	150	300	N	50	N	200	N	N	--	75	--	--
HE773S	N	150	500	N	50	N	150	N	N	--	80	--	--
HE774S	N	150	300	N	30	N	200	N	N	--	120	--	--
HE775S	N	150	300	N	30	<200	300	N	N	--	140	--	--
HE776S	N	150	150	N	50	N	300	N	N	--	85	--	--
HE777S	N	200	200	N	50	N	700	N	N	--	110	--	--
HE778S	N	100	150	N	30	N	300	N	N	--	90	--	--
HE779S	N	200	200	N	30	N	500	N	N	--	150	--	--
HE780S	N	150	200	N	30	N	700	N	N	--	90	--	--
HE781S	N	150	150	N	30	N	1,000	N	N	--	85	--	--
HE782S	N	200	300	N	70	N	300	N	N	--	110	--	--
HE783S	N	150	150	N	50	<200	500	N	N	--	120	--	--
HE784S	N	150	150	N	30	N	700	N	N	--	110	--	--
HE785S	N	100	100	N	30	N	300	N	N	--	40	--	--
HE786S	N	N	150	N	30	N	700	N	N	--	80	--	--
HE787S	N	100	200	N	30	N	500	N	N	--	90	--	--
HE788S	N	100	200	N	30	N	500	N	--	--	90	--	--
HE789S	150	100	200	N	50	N	700	N	--	--	100	--	--
HE790S	N	150	500	N	50	1,000	200	N	--	--	540	--	--
HE791S	N	100	150	N	70	N	300	N	--	--	110	--	--
HE792S	N	150	150	N	50	N	300	N	N	--	130	--	--
HE793S	N	100	150	N	50	N	700	N	N	--	130	--	--
HE794S	N	150	200	N	50	<200	500	N	.40	--	190	--	--
HE795S	N	150	200	N	50	N	500	N	N	--	140	--	--
HE796S	N	700	300	N	50	500	200	N	N	--	400	--	--
HE797S	N	700	200	N	50	<200	150	N	--	--	200	--	--
HE798S	N	200	150	N	30	N	200	N	N	--	130	--	--
HE799S	N	150	150	N	30	N	300	N	N	--	110	--	--
HE800S	N	300	100	N	70	<200	500	N	N	--	150	--	--
HE801S	N	100	150	N	30	<200	200	N	N	--	130	--	--
HE802S	N	100	150	N	50	N	300	N	N	--	120	--	--
HE803S	N	100	150	N	50	N	300	N	N	--	160	--	--
HE804S	N	<100	150	N	30	N	200	N	N	--	120	--	--
HE805S	N	150	200	N	30	N	200	N	.55	--	110	--	--
HE806S	N	150	300	N	50	<200	200	N	N	--	120	--	--
HE807S	N	150	200	N	50	300	200	N	N	--	190	--	--
HE808S	N	150	200	N	50	<200	500	N	N	--	180	--	--
HE809S	N	150	100	N	50	<200	300	N	N	--	120	--	--
HE810S	N	150	100	N	30	N	200	N	N	--	70	--	--
HE811S	N	200	200	N	70	<200	1,000	N	N	--	80	--	--
HE812S	N	150	300	N	50	200	300	N	N	--	200	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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
HE813S	63 58 45	148 23 30	5.0	.50	.50	.70	700	N	N	N	20	1,000
HE814S	63 59 0	148 15 25	5.0	.70	.15	.70	700	N	N	N	70	1,000
HE815S	63 57 5	148 19 5	5.0	.70	.50	.50	700	N	N	N	70	1,500
HE816S	63 56 45	148 23 40	5.0	.70	1.00	.50	700	N	N	N	50	1,500
HE817S	63 50 35	148 34 45	7.0	1.00	.30	.70	1,500	N	N	N	150	700
HE818S	63 49 22	148 32 27	7.0	1.00	1.00	.70	1,500	N	N	N	150	700
HE819S	63 48 53	148 33 15	7.0	.70	.70	.50	700	N	N	N	150	700
HE820S	63 49 35	148 36 30	7.0	.70	.70	.50	1,000	N	N	N	150	700
HE821S	63 52 5	148 39 40	7.0	.70	.20	.50	700	N	N	N	70	700
HE822S	63 51 32	148 37 20	7.0	.70	.50	.70	1,000	N	N	N	200	700
HE823S	63 51 15	148 36 55	7.0	.70	.70	.70	1,000	N	N	N	100	700
HE824S	63 52 26	148 34 0	5.0	.50	.30	.70	1,000	N	N	N	200	700
HE825S	63 50 0	148 10 26	5.0	.70	.70	.70	1,000	1.0	N	N	150	700
HE826S	63 50 4	148 7 30	5.0	1.00	1.00	.70	700	N	N	N	100	700
HE827S	63 51 48	148 6 25	5.0	1.00	1.00	.70	700	N	N	N	100	700
HE828S	63 51 30	148 6 2	5.0	1.00	.30	.50	1,000	N	N	N	100	700
HE829S	63 51 10	147 42 10	5.0	2.00	1.00	.70	1,000	N	N	N	100	1,500
HE830S	63 51 20	147 39 20	5.0	.70	.30	.70	1,000	N	N	N	100	1,500
HE831S	63 58 52	149 7 40	3.0	.50	.70	.50	1,000	N	N	N	100	1,000
HE832S	63 56 0	149 6 20	5.0	1.00	1.00	1.00	1,500	N	N	N	100	700
HE833S	63 55 3	149 5 5	5.0	1.00	1.00	1.00	1,500	N	N	N	70	700
HE834S	63 51 10	147 39 30	5.0	2.00	2.00	.50	1,500	N	N	N	70	1,000
HE835S	63 52 3	147 45 15	5.0	2.00	.10	.50	1,000	N	N	N	100	1,500
HE836S	63 49 51	147 47 20	5.0	2.00	2.00	.50	1,500	N	N	N	30	1,500
HE837S	63 49 36	147 47 50	5.0	3.00	3.00	.70	1,500	.5	N	N	100	5,000
HE838S	63 49 32	147 42 55	5.0	2.00	2.00	.50	1,500	N	N	N	50	5,000
HE839S	63 47 57	147 38 0	5.0	.50	.50	.70	700	N	N	N	70	700
HE840S	63 48 4	147 37 35	5.0	2.00	2.00	.50	1,000	N	N	N	50	1,500
HE841S	63 58 25	147 54 30	3.0	.70	.30	.70	700	N	N	N	70	1,500
HE842S	63 57 15	147 57 30	5.0	.50	.20	.70	700	N	N	N	70	2,000
HE843S	63 55 56	147 58 15	5.0	.70	.20	.70	700	N	N	N	200	1,500
HE844S	63 43 22	149 15 10	5.0	.50	.50	.50	700	N	N	N	100	700
HE845S	63 42 57	149 8 50	5.0	.30	.30	.50	700	N	N	N	200	700
HE846S	63 43 35	148 58 25	7.0	.70	1.00	1.00	1,000	N	N	N	100	700
HE847S	63 22 33	149 2 0	5.0	1.00	1.00	.50	1,500	N	N	N	100	1,500
HE848S	63 19 43	149 22 0	5.0	.70	.15	.50	700	N	N	N	100	700
HE849S	63 21 0	149 8 46	5.0	.70	.20	.30	5,000	N	N	N	200	2,000
HE850S	63 30 28	148 40 20	5.0	.50	.10	.30	700	N	N	N	100	1,000
HE851S	63 30 31	148 41 50	5.0	.50	.30	.30	3,000	N	N	N	200	1,000
HE852S	63 31 18	148 43 10	5.0	.70	.30	.50	2,000	N	N	N	200	1,000
HE853S	63 32 51	148 43 50	5.0	.50	.30	.50	1,000	N	N	N	100	1,000
HE854S	63 32 38	148 44 20	5.0	1.00	.50	.70	1,000	N	N	N	100	1,500
HE855S	63 34 10	148 46 45	5.0	1.00	.50	.70	1,000	N	N	N	100	1,500
HE856S	63 14 46	149 25 15	7.0	2.00	1.00	.70	1,500	N	N	N	200	1,500
HE857S	63 12 42	149 28 4	5.0	1.00	.50	.70	1,000	N	N	N	200	1,500

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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	Sb-ppm s	Sc-ppm s
HE813S	1.0	N	N	15	20	10	20	N	N	30	10	N	15
HE814S	2.0	N	N	20	70	30	70	N	<20	70	30	N	15
HE815S	1.0	N	N	30	100	50	150	N	N	100	30	N	15
HE816S	1.0	N	N	30	50	50	100	N	N	70	70	N	15
HE817S	2.0	N	N	70	100	100	150	N	N	100	70	N	15
HE818S	2.0	N	N	50	150	100	100	N	N	100	100	N	15
HE819S	2.0	N	N	50	100	50	100	N	N	70	200	N	15
HE820S	2.0	N	N	50	100	70	100	N	N	150	70	N	15
HE821S	2.0	N	N	30	100	50	100	N	N	70	50	N	15
HE822S	3.0	N	N	30	150	50	150	N	N	100	70	N	20
HE823S	3.0	N	N	50	100	100	150	N	N	150	150	N	15
HE824S	3.0	N	N	30	100	70	100	N	N	70	100	N	20
HE825S	3.0	N	N	30	100	30	100	N	N	100	500	N	15
HE826S	2.0	N	N	30	100	50	100	N	N	100	100	N	20
HE827S	3.0	N	N	30	100	50	200	N	N	100	50	N	20
HE828S	3.0	N	N	30	150	30	70	N	N	70	70	N	20
HE829S	2.0	N	N	30	150	50	70	N	N	150	100	N	30
HE830S	2.0	N	N	50	100	70	150	N	N	100	70	N	30
HE831S	2.0	N	N	20	150	30	20	N	N	50	30	N	15
HE832S	1.0	N	N	30	300	30	70	N	N	70	10	N	30
HE833S	1.0	N	N	30	200	30	100	N	20	70	20	N	30
HE834S	3.0	N	N	30	150	30	300	N	N	70	50	N	30
HE835S	3.0	N	N	30	150	30	150	N	20	70	70	N	20
HE836S	3.0	N	N	20	200	30	100	N	N	70	50	N	30
HE837S	1.0	N	N	50	200	50	100	10	N	150	50	N	30
HE838S	1.0	N	N	50	200	50	100	5	N	100	70	N	30
HE839S	1.0	N	N	20	150	30	30	N	N	100	50	N	10
HE840S	3.0	N	N	30	200	30	100	N	N	70	50	N	30
HE841S	3.0	N	N	10	100	20	200	N	<20	50	50	N	15
HE842S	3.0	N	N	10	100	30	100	N	20	70	30	N	15
HE843S	3.0	N	N	30	150	30	100	N	<20	70	70	N	20
HE844S	2.0	N	N	20	70	30	150	N	N	70	70	N	15
HE845S	2.0	N	N	30	70	30	100	N	N	100	50	N	15
HE846S	2.0	N	N	30	150	50	200	N	N	100	50	N	20
HE847S	1.0	N	N	20	100	30	20	N	N	15	30	N	30
HE848S	1.0	N	N	20	200	30	20	N	N	100	30	N	30
HE849S	3.0	N	N	50	200	300	20	7	N	150	70	N	30
HE850S	3.0	N	N	20	100	200	20	7	N	50	20	N	20
HE851S	2.0	N	N	70	150	100	20	N	N	150	50	N	30
HE852S	3.0	N	N	70	200	200	20	N	N	150	30	N	30
HE853S	1.0	N	N	30	300	30	N	N	N	50	20	N	20
HE854S	1.0	N	N	30	150	50	N	N	N	100	30	N	20
HE855S	1.0	N	N	30	150	50	20	N	N	150	30	N	20
HE856S	1.0	N	N	20	200	30	20	N	N	70	70	N	20
HE857S	1.0	N	N	20	1,000	30	20	N	N	70	50	N	20

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Sb-ppm aa
HE813S	N	200	300	N	30	300	700	N	N	--	280	--	--
HE814S	N	200	200	N	50	<200	1,000	N	N	--	150	--	--
HE815S	N	200	300	N	50	500	500	N	N	--	270	--	--
HE816S	N	200	200	N	30	300	300	N	N	--	260	--	--
HE817S	N	200	150	N	30	N	500	N	N	--	100	--	--
HE818S	N	300	150	N	50	N	700	N	.16	--	120	--	--
HE819S	N	200	150	N	30	<200	300	N	N	--	120	--	--
HE820S	N	200	150	N	70	<200	500	N	N	--	110	--	--
HE821S	N	200	100	N	50	N	30	N	N	--	90	--	--
HE822S	N	200	150	N	70	N	300	N	N	--	110	--	--
HE823S	N	200	150	N	70	<200	700	N	N	--	130	--	--
HE824S	N	200	150	N	70	<200	200	N	N	--	110	--	--
HE825S	N	200	100	N	50	<200	700	N	N	--	75	--	--
HE826S	N	300	100	N	50	<200	500	N	N	--	65	--	--
HE827S	N	300	100	N	50	<200	500	N	N	--	70	--	--
HE828S	N	200	150	N	30	<200	300	N	N	--	60	--	--
HE829S	N	200	200	N	70	200	500	N	N	--	180	--	--
HE830S	N	200	150	N	50	300	200	N	N	--	180	--	--
HE831S	N	200	150	N	30	N	200	N	N	--	60	--	--
HE832S	N	300	200	N	30	N	500	N	N	--	65	--	--
HE833S	N	300	300	N	30	<200	500	N	N	--	65	--	--
HE834S	N	700	200	N	50	N	500	N	.16	--	60	--	--
HE835S	N	N	100	N	50	N	500	N	N	--	100	--	--
HE836S	N	500	20	N	70	N	700	N	N	--	60	--	--
HE837S	N	500	30	N	70	1,000	700	N	N	--	490	--	--
HE838S	N	300	30	N	50	500	300	N	N	--	240	--	--
HE839S	N	200	100	N	30	N	100	N	3.80	--	70	--	--
HE840S	N	700	300	N	70	N	300	N	N	--	55	--	--
HE841S	N	200	200	N	70	N	700	N	N	--	50	--	--
HE842S	N	100	300	N	70	N	300	N	N	--	120	--	--
HE843S	N	100	300	N	70	N	200	N	<.05	--	100	--	--
HE844S	N	100	200	N	50	N	300	N	N	--	60	--	--
HE845S	N	100	100	N	50	N	500	N	N	--	80	--	--
HE846S	N	100	150	N	70	N	700	N	<.05	--	120	--	--
HE847S	N	500	200	N	30	N	150	N	N	--	95	--	--
HE848S	N	N	200	N	30	N	150	N	N	--	110	--	--
HE849S	N	100	300	N	30	700	200	N	N	--	380	--	--
HE850S	N	N	200	N	30	N	150	N	N	--	120	--	--
HE851S	N	200	200	N	30	700	200	N	N	--	430	--	--
HE852S	N	200	200	N	70	700	200	N	N	--	400	--	--
HE853S	N	200	300	N	20	N	200	N	<.05	--	100	--	--
HE854S	N	200	300	N	50	300	200	N	N	--	300	--	--
HE855S	N	200	200	N	50	500	200	N	N	--	350	--	--
HE856S	N	300	200	N	30	N	200	N	N	--	120	--	--
HE857S	N	200	200	N	30	N	300	N	N	--	140	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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
HE858S	63 19 42	149 27 40	7.0	1.00	.20	.50	700	N	N	N	200	1,500
HE859S	63 20 35	149 26 25	7.0	1.00	.30	.50	1,000	N	N	N	200	1,500
HE860S	63 22 35	149 20 45	7.0	10.00	2.00	.50	1,500	N	N	N	100	1,500
HE861S	63 25 20	149 17 50	5.0	5.00	10.00	.50	700	N	N	N	100	1,500
HE862S	63 25 10	149 17 30	5.0	.70	1.00	.50	700	N	N	N	100	1,500
HE863S	63 27 10	149 13 0	7.0	2.00	2.00	.50	700	N	N	N	200	2,000
HE864S	63 24 50	149 11 15	7.0	1.00	.20	.50	1,500	N	N	N	150	1,500
HE865S	63 24 44	149 9 28	5.0	1.00	.50	.50	700	N	N	N	1,000	1,000
HE866S	63 24 52	149 6 20	5.0	.50	1.00	.30	1,000	N	N	N	500	1,000
HE867S	63 24 40	149 0 30	5.0	1.00	.50	.50	1,000	N	N	N	200	1,500
HE868S	63 11 0	149 34 0	5.0	2.00	.30	.50	1,500	N	N	N	150	1,000
HE869S	63 10 0	149 34 58	7.0	5.00	1.00	.70	1,500	N	N	N	100	1,500
HE870S	63 13 50	149 36 0	7.0	2.00	2.00	.50	1,500	3.0	1,500	N	100	1,000
HE871S	63 14 20	149 33 25	7.0	2.00	1.00	.50	1,000	N	1,000	N	150	1,500
HE872S	63 11 40	147 49 25	5.0	2.00	2.00	1.00	2,000	N	N	N	100	1,000
HE873S	63 35 5	147 52 30	7.0	2.00	1.00	.50	1,500	N	N	N	200	1,500
HE874S	63 38 46	147 45 20	7.0	1.00	2.00	1.00	1,000	.5	N	N	70	5,000
HE875S	63 38 45	147 45 48	7.0	1.00	2.00	1.00	1,000	.5	N	N	70	5,000
HE876S	63 38 16	147 46 52	10.0	5.00	7.00	1.00	3,000	N	N	N	10	5,000
HE877S	63 37 28	147 52 0	7.0	5.00	5.00	1.00	3,000	N	N	N	30	3,000
HE878S	63 35 40	148 0 20	7.0	2.00	5.00	1.00	3,000	N	N	N	70	3,000
HE879S	63 38 30	148 18 36	7.0	2.00	2.00	1.00	1,500	N	N	N	70	2,000
HE880S	63 39 8	148 19 30	5.0	1.00	1.00	.50	1,500	N	N	N	50	1,500
HE881S	63 39 22	148 25 35	5.0	1.00	1.00	.50	1,500	N	N	N	70	2,000
HE882S	63 40 45	148 26 0	5.0	1.00	1.00	.50	1,500	N	N	N	70	1,500
HE883S	63 41 0	148 32 10	5.0	1.00	1.00	.70	1,000	N	N	N	70	1,500
HE884S	63 40 28	148 38 30	7.0	2.00	2.00	>1.00	1,500	N	N	N	70	1,500
HE885S	63 40 42	148 42 0	5.0	.70	.70	.50	1,000	N	N	N	100	1,500
HE886S	63 43 25	148 48 50	7.0	1.00	1.00	.70	1,500	N	N	N	70	1,000
HE887S	63 43 30	148 51 20	7.0	1.00	1.00	1.00	1,500	N	N	N	70	1,500
HE888S	63 44 0	148 45 18	7.0	1.00	1.00	1.00	1,500	N	N	N	70	1,000
HE889S	63 44 0	148 42 50	7.0	1.00	1.00	1.00	1,500	N	N	N	70	1,000
HE890S	63 42 18	148 37 4	5.0	.70	.70	1.00	1,500	N	N	N	70	1,000
HE891S	63 44 0	148 28 15	5.0	1.00	1.00	.50	1,000	N	N	N	100	1,000
HE892S	63 43 50	148 27 40	5.0	.70	.70	>1.00	1,500	N	N	N	100	1,000
HE893S	63 42 18	148 24 40	10.0	2.00	2.00	1.00	1,500	N	N	N	70	1,000
HE894S	63 11 40	148 3 46	10.0	3.00	3.00	1.00	2,000	N	N	N	70	1,000
HE895S	63 12 54	148 10 15	7.0	2.00	3.00	1.00	2,000	N	N	N	100	1,000
HE896S	63 14 50	148 19 0	7.0	2.00	2.00	1.00	1,500	N	N	N	100	1,000
HE897S	63 16 0	148 26 46	5.0	.70	1.00	.50	1,000	N	N	N	10	700
HE898S	63 16 8	148 26 20	5.0	1.00	2.00	.50	1,000	N	N	N	20	1,000
HE899S	63 14 56	148 26 40	5.0	1.00	2.00	.50	1,000	N	N	N	15	700
HE900S	63 14 50	148 27 15	5.0	.70	1.00	.50	1,000	N	N	N	20	700
HE901S	63 13 35	148 35 0	5.0	1.00	.50	.30	1,500	.5	N	N	100	700
HE902S	63 13 20	148 35 10	7.0	.70	.50	.50	1,000	N	N	N	70	1,500

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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	Sb-ppm s	Sc-ppm s
HE858S	1.0	N	N	20	500	100	20	N	N	150	30	N	20
HE859S	1.0	N	N	30	300	100	N	N	N	150	30	N	20
HE860S	1.0	N	N	50	1,500	70	N	N	N	300	30	N	20
HE861S	1.0	N	N	20	200	30	N	N	N	70	30	N	20
HE862S	1.0	N	N	20	300	100	20	N	N	70	70	N	20
HE863S	5.0	N	N	30	200	50	20	7	N	100	70	N	20
HE864S	1.0	N	N	50	200	70	20	N	N	100	30	N	20
HE865S	7.0	N	N	20	150	30	20	N	N	70	70	N	20
HE866S	10.0	N	N	10	70	20	200	N	N	20	70	N	15
HE867S	1.0	N	N	20	200	30	100	N	N	100	30	N	20
HE868S	1.0	N	N	30	2,000	50	20	N	N	100	30	N	20
HE869S	1.0	N	N	30	1,500	100	20	N	N	100	30	N	30
HE870S	1.0	N	N	30	1,500	300	20	N	N	100	100	N	30
HE871S	2.0	N	N	50	1,500	50	20	N	N	150	70	N	30
HE872S	1.0	N	N	20	200	20	20	N	N	50	10	N	30
HE873S	1.0	N	N	50	300	100	20	N	N	100	30	N	20
HE874S	1.0	N	N	20	150	150	150	10	N	70	50	N	20
HE875S	1.0	N	N	20	150	200	70	7	<20	70	50	N	20
HE876S	N	N	N	50	500	100	N	N	N	150	150	N	50
HE877S	N	N	N	70	300	300	N	N	N	150	N	N	30
HE878S	N	N	N	30	200	150	N	5	N	150	10	N	30
HE879S	N	N	N	20	200	50	20	N	N	100	20	N	20
HE880S	N	N	N	20	150	30	20	N	N	70	20	N	15
HE881S	1.0	N	N	20	200	30	20	N	N	70	20	N	15
HE882S	1.0	N	N	30	150	30	20	N	N	70	20	N	20
HE883S	1.0	N	N	20	150	30	20	N	N	50	10	N	20
HE884S	N	N	N	30	200	50	20	N	<20	70	20	N	30
HE885S	3.0	N	N	30	150	30	20	N	N	50	30	N	20
HE886S	1.0	N	N	30	150	30	20	N	N	50	30	N	20
HE887S	1.0	N	N	30	150	30	20	N	N	30	30	N	30
HE888S	1.0	N	N	30	150	30	50	N	<20	50	30	N	30
HE889S	1.0	N	N	30	500	30	70	N	<20	50	30	N	30
HE890S	1.0	N	N	30	500	30	20	N	N	50	30	N	30
HE891S	1.0	N	N	20	200	30	20	N	N	70	30	N	20
HE892S	N	N	N	20	200	30	N	N	30	50	30	N	30
HE893S	N	N	N	20	200	30	N	N	N	70	20	N	20
HE894S	1.0	N	N	20	200	30	N	N	N	100	20	N	20
HE895S	1.0	N	N	20	150	30	20	N	N	70	10	N	30
HE896S	1.0	N	N	15	300	30	20	N	N	50	30	N	30
HE897S	5.0	N	N	10	50	20	30	N	<20	20	50	N	10
HE898S	5.0	N	N	10	70	20	20	N	<20	50	50	N	10
HE899S	7.0	N	N	15	50	30	20	N	20	20	50	N	10
HE900S	7.0	N	N	10	50	20	30	N	<20	20	50	N	10
HE901S	7.0	N	N	30	150	50	20	N	N	100	70	N	10
HE902S	10.0	N	N	15	70	30	20	N	20	10	70	N	20

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Sb-ppm aa
HE858S	N	200	300	N	30	N	300	N	N	--	140	--	--
HE859S	N	200	300	N	30	200	300	N	N	--	140	--	--
HE860S	N	500	300	N	30	N	200	N	N	--	90	--	--
HE861S	N	1,000	300	N	30	N	200	N	.14	--	90	--	--
HE862S	N	300	300	N	30	N	200	N	N	--	160	--	--
HE863S	N	300	300	N	50	200	500	N	N	--	200	--	--
HE864S	N	300	300	N	50	200	200	N	N	--	150	--	--
HE865S	15	200	200	N	50	N	300	N	N	--	100	--	--
HE866S	10	200	100	N	70	N	300	N	N	--	80	--	--
HE867S	N	200	200	N	30	N	200	N	N	--	100	--	--
HE868S	N	200	300	N	50	N	100	N	.60	--	100	--	--
HE869S	N	500	300	N	70	N	200	N	.10	--	110	--	--
HE870S	N	200	300	N	30	N	100	N	.80	--	150	--	--
HE871S	N	200	300	N	30	N	1,000	N	8.00	--	130	--	--
HE872S	N	500	200	N	50	N	1,000	N	N	--	40	--	--
HE873S	N	200	300	N	50	200	200	N	N	--	130	--	--
HE874S	N	200	500	N	70	200	300	N	N	--	170	--	--
HE875S	N	200	500	N	70	300	300	N	N	--	180	--	--
HE876S	N	200	500	N	20	N	100	N	N	--	40	--	--
HE877S	N	200	500	N	30	N	150	N	N	--	110	--	--
HE878S	N	200	500	N	30	300	200	N	N	--	900	--	--
HE879S	N	300	300	N	30	N	1,000	200	N	--	80	--	--
HE880S	N	200	300	N	20	N	100	N	N	--	70	--	--
HE881S	N	300	300	N	30	N	300	N	N	--	80	--	--
HE882S	N	300	200	N	30	N	300	N	N	--	80	--	--
HE883S	N	300	200	N	30	N	500	N	N	--	50	--	--
HE884S	N	300	300	N	70	200	300	N	--	--	80	--	--
HE885S	N	300	200	N	50	<200	300	N	<.05	--	110	--	--
HE886S	N	500	150	N	30	<200	300	N	N	--	90	--	--
HE887S	N	300	150	N	50	<200	500	N	N	--	90	--	--
HE888S	N	300	150	N	50	<200	300	N	N	--	90	--	--
HE889S	N	500	150	N	70	<200	500	N	N	--	90	--	--
HE890S	N	300	200	N	30	<200	500	N	N	--	90	--	--
HE891S	N	300	200	N	30	<200	150	N	N	--	80	--	--
HE892S	N	300	300	N	30	<200	300	N	N	--	90	--	--
HE893S	N	200	300	N	30	N	500	N	N	--	70	--	--
HE894S	N	700	300	N	50	N	700	N	N	--	65	--	--
HE895S	N	700	300	N	50	N	700	N	N	--	50	--	--
HE896S	N	700	300	N	50	N	500	N	N	--	60	--	--
HE897S	N	300	100	N	30	N	>1,000	N	N	--	100	--	--
HE898S	N	500	100	N	50	N	500	N	N	--	110	--	--
HE899S	N	500	100	N	50	N	700	N	N	--	110	--	--
HE900S	N	500	100	N	50	N	1,000	N	N	--	100	--	--
HE901S	N	300	200	N	30	N	300	N	N	--	110	--	--
HE902S	N	300	150	N	100	N	700	N	N	--	110	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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
HE903S	63 12 33	148 31 0	7.0	1.00	1.00	.70	1,500	.5	N	N	50	1,500
HE904S	63 12 35	148 31 20	7.0	1.00	1.00	.70	1,000	.5	N	N	50	1,000
HE905S	63 12 28	148 39 0	3.0	.20	.20	.30	1,000	N	N	N	50	1,000
HE906S	63 13 42	148 42 5	5.0	1.00	.30	.50	1,000	N	N	N	70	1,000
HE907S	63 13 40	148 43 10	3.0	.30	.20	.50	1,000	N	N	N	70	1,000
HE908S	63 14 30	148 50 35	7.0	.50	1.00	.70	1,500	N	N	N	200	700
HE909S	63 14 30	148 51 1	7.0	1.00	.50	.70	1,000	N	N	N	200	1,000
HE910S	63 17 28	148 49 30	7.0	5.00	.30	.50	700	N	N	N	200	1,000
HE911S	63 10 12	148 48 29	7.0	.50	1.00	.50	1,000	N	N	N	20	700
HE912S	63 9 47	148 52 45	7.0	.70	.50	.50	1,500	N	N	N	100	1,000
HE913S	63 8 29	148 48 46	7.0	1.00	.30	.50	1,500	3.0	N	N	70	1,000
HE914S	63 8 42	148 48 50	7.0	.70	.20	.50	1,500	3.0	N	N	70	1,000
HE915S	63 8 10	148 44 2	5.0	.50	.50	.50	1,000	3.0	N	N	100	1,000
HE916S	63 10 40	148 45 32	3.0	.30	.30	.20	1,000	N	N	N	70	700
HE917S	63 27 20	148 51 48	7.0	1.00	1.00	.50	1,000	N	N	N	150	1,000
HE918S	63 30 57	148 53 10	5.0	1.00	.70	.50	1,000	N	N	N	150	1,500
HE919S	63 29 50	148 53 48	7.0	2.00	.70	.50	1,000	N	N	N	150	700
HE920S	63 29 23	148 44 40	7.0	1.00	.50	.50	1,000	N	N	N	200	1,000
HE921S	63 29 15	148 45 5	7.0	1.00	.50	.50	1,500	N	N	N	200	1,500
HE922S	63 33 2	148 50 0	7.0	1.00	1.00	.50	1,000	N	N	N	150	1,500
HE923S	63 34 20	148 50 30	7.0	2.00	2.00	1.00	1,500	N	N	N	70	1,000
HE924S	63 32 33	148 58 30	2.0	.50	.30	.50	700	N	N	N	1,000	1,000
HE925S	63 24 35	147 34 48	5.0	3.00	2.00	.50	1,500	N	N	N	200	1,000
HE926S	63 28 12	147 33 20	5.0	1.00	2.00	.50	1,500	1.0	N	N	100	1,500
HE927S	63 29 15	147 32 15	7.0	2.00	2.00	.50	1,500	1.0	N	N	100	2,000
HE928S	63 26 0	147 29 20	5.0	2.00	5.00	.50	1,500	N	N	N	100	1,500
HE929S	63 18 42	147 32 0	5.0	2.00	3.00	.50	1,500	N	N	N	70	1,500
HE930S	63 14 15	147 48 4	5.0	2.00	2.00	.50	1,500	N	N	N	70	1,500
HE931S	63 12 38	147 40 10	7.0	3.00	3.00	>1.00	3,000	N	N	N	70	1,000
HE932S	63 11 28	147 37 2	7.0	3.00	3.00	1.00	2,000	N	N	N	100	1,000
HE933S	63 5 50	149 12 45	7.0	2.00	.30	.70	1,000	.5	N	N	200	1,500
HE934S	63 7 42	149 12 10	7.0	2.00	.30	.70	1,500	N	N	N	200	1,500
HE935S	63 7 30	149 11 58	7.0	2.00	.20	.50	700	N	N	N	150	1,000
HE936S	63 6 0	149 13 8	7.0	2.00	.20	.70	700	7.0	N	N	200	1,000
HE937S	63 5 52	149 14 10	5.0	1.00	.70	.50	1,000	N	N	N	200	1,000
HE938S	63 3 45	149 21 2	7.0	1.00	.50	.50	1,000	N	N	N	100	1,000
HE939S	63 3 55	149 21 10	7.0	2.00	.70	.30	1,500	N	N	N	100	1,000
HE940S	63 3 35	149 29 20	5.0	2.00	.20	.50	1,000	N	N	N	100	1,000
HE941S	63 1 40	149 31 0	5.0	1.00	.30	.30	1,500	N	N	N	30	1,000
HE942S	63 2 10	149 29 15	2.0	.30	.30	.30	1,500	20.0	N	N	<10	1,000
HE943S	63 2 20	149 29 5	5.0	.50	.50	.30	1,000	2.0	N	N	50	700
HE944S	63 5 10	149 23 45	7.0	2.00	1.00	.70	2,000	.5	N	N	150	1,000
HE945S	63 16 12	149 31 33	2.0	.50	.10	.50	500	<.5	N	N	100	500
HE946S	63 16 19	149 37 40	2.0	.70	.30	.50	1,000	<.5	N	N	100	700
HE947S	63 16 25	149 37 28	2.0	.70	.20	.30	700	.5	N	N	100	700

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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	Sb-ppm s	Sc-ppm s
HE903S	10.0	N	N	20	150	30	50	N	<20	70	70	N	20
HE904S	10.0	N	N	20	150	30	50	N	<20	70	50	N	10
HE905S	10.0	N	N	10	20	10	100	N	20	5	70	N	15
HE906S	7.0	N	N	30	150	50	20	N	<20	100	70	N	15
HE907S	10.0	N	N	10	70	30	20	N	20	50	100	N	20
HE908S	10.0	N	N	30	70	30	50	N	20	20	50	N	20
HE909S	2.0	N	N	30	200	50	20	N	<20	100	50	N	20
HE910S	1.0	N	N	30	500	70	20	N	<20	200	30	N	20
HE911S	5.0	N	N	20	150	30	30	N	20	50	50	N	20
HE912S	5.0	N	N	30	150	50	20	N	<20	100	30	N	20
HE913S	5.0	N	N	50	150	150	100	N	N	100	150	N	20
HE914S	5.0	N	N	50	150	150	20	N	N	150	70	N	20
HE915S	7.0	N	N	15	50	30	70	N	<20	30	70	N	15
HE916S	15.0	N	N	7	20	20	150	N	20	10	70	N	15
HE917S	1.0	N	N	30	150	70	20	N	N	100	30	N	20
HE918S	1.0	N	N	30	500	30	20	N	N	100	70	N	20
HE919S	1.0	N	N	50	200	100	20	N	N	100	10	N	30
HE920S	1.0	N	N	50	200	50	20	N	N	150	50	N	30
HE921S	1.0	N	N	50	200	70	20	N	N	150	70	N	30
HE922S	5.0	N	N	30	200	30	20	N	N	100	70	N	20
HE923S	1.0	N	N	30	200	30	20	N	N	70	20	N	30
HE924S	7.0	N	N	10	150	30	N	N	N	70	30	N	15
HE925S	1.0	N	N	30	200	30	20	N	N	100	20	N	20
HE926S	1.0	N	N	20	150	50	20	S	N	70	30	N	15
HE927S	1.0	N	N	30	150	100	20	S	N	100	30	N	20
HE928S	1.0	N	N	20	150	30	20	N	N	100	30	N	20
HE929S	1.0	N	N	20	150	30	20	N	N	70	30	N	20
HE930S	1.0	N	N	30	150	30	30	N	N	70	30	N	30
HE931S	1.0	N	N	30	200	30	200	N	N	100	20	N	30
HE932S	1.0	N	N	30	200	30	150	N	N	70	30	N	30
HE933S	5.0	N	N	50	200	70	20	N	N	150	70	N	20
HE934S	2.0	N	N	70	300	100	20	N	N	150	30	N	30
HE935S	2.0	N	N	30	200	50	20	N	N	100	50	N	20
HE936S	2.0	N	N	70	200	300	20	N	N	100	70	N	30
HE937S	5.0	N	N	30	150	50	100	N	N	100	70	N	20
HE938S	5.0	N	N	50	150	70	100	7	N	100	100	N	20
HE939S	10.0	N	N	70	200	100	100	N	N	150	100	N	20
HE940S	5.0	N	N	70	200	70	20	N	N	100	50	N	20
HE941S	5.0	N	N	30	150	30	100	N	N	70	30	N	10
HE942S	7.0	N	N	10	20	30	200	N	N	5	500	N	5
HE943S	15.0	N	N	10	50	30	200	N	N	30	100	N	15
HE944S	2.0	N	N	50	200	100	20	N	N	100	50	N	30
HE945S	1.5	N	N	15	100	20	50	N	N	50	20	N	15
HE946S	2.0	N	N	20	200	50	<20	N	N	100	15	N	15
HE947S	2.0	N	N	20	200	50	N	N	N	70	20	N	15

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Sb-ppm aa
HE903S	N	500	200	N	70	N	700	N	N	--	110	--	--
HE904S	N	500	200	N	50	200	300	N	N	--	100	--	--
HE905S	N	N	50	N	70	N	700	N	N	--	110	--	--
HE906S	N	200	200	N	50	<200	300	N	N	--	130	--	--
HE907S	N	200	100	N	100	200	300	N	N	--	150	--	--
HE908S	N	300	200	N	100	200	300	N	N	--	150	--	--
HE909S	N	200	300	N	50	200	200	N	N	--	130	--	--
HE910S	N	200	300	N	30	200	200	N	N	--	140	--	--
HE911S	N	200	200	N	100	200	500	N	N	--	110	--	--
HE912S	N	200	200	N	50	200	500	N	N	--	140	--	--
HE913S	N	200	300	N	50	300	300	N	N	--	210	--	--
HE914S	N	200	300	N	50	300	200	N	.38	--	200	--	--
HE915S	N	300	70	N	70	N	>1,000	N	N	--	200	--	--
HE916S	N	200	70	N	100	N	500	N	N	--	100	--	--
HE917S	N	200	300	N	30	<200	200	N	N	--	120	--	--
HE918S	N	300	300	N	30	<200	200	N	N	--	120	--	--
HE919S	N	100	300	N	50	<200	200	N	N	--	130	--	--
HE920S	N	100	300	N	50	<200	500	N	<.05	--	120	--	--
HE921S	N	200	300	N	50	200	200	N	N	--	140	--	--
HE922S	70	300	300	N	50	<200	200	N	N	--	110	--	--
HE923S	N	300	300	N	50	200	200	N	N	--	85	--	--
HE924S	30	100	200	N	30	200	200	N	N	--	80	--	--
HE925S	N	700	300	N	50	N	500	N	N	--	60	--	--
HE926S	N	300	300	N	70	N	500	N	N	--	100	--	--
HE927S	N	300	300	N	50	200	200	N	N	--	100	--	--
HE928S	N	1,000	200	N	50	N	500	N	1.00	--	30	--	--
HE929S	N	700	200	N	30	N	500	N	N	--	95	--	--
HE930S	N	700	200	N	50	N	200	N	N	--	50	--	--
HE931S	N	500	300	N	70	N	700	N	N	--	45	--	--
HE932S	N	700	200	N	50	N	500	N	N	--	45	--	--
HE933S	N	200	300	N	50	300	500	N	N	--	180	--	--
HE934S	N	200	300	N	70	200	200	N	N	--	180	--	--
HE935S	N	200	300	N	30	<200	200	N	N	--	180	--	--
HE936S	N	200	300	N	30	300	200	N	N	--	190	--	--
HE937S	10	300	300	N	70	<200	500	N	N	--	130	--	--
HE938S	10	300	300	N	50	<200	300	N	N	--	170	--	--
HE939S	10	300	300	N	50	300	200	N	N	--	300	--	--
HE940S	N	200	300	N	30	200	200	N	N	--	190	--	--
HE941S	N	300	150	N	70	<200	300	N	N	--	90	--	--
HE942S	30	200	70	N	70	500	1,000	N	<.05	--	300	--	--
HE943S	15	200	100	N	70	<200	700	N	N	--	--	--	--
HE944S	N	300	300	N	50	200	200	N	N	--	150	--	--
HE945S	N	100	150	N	20	N	200	N	--	--	--	--	--
HE946S	N	100	200	N	20	N	300	N	--	--	--	--	--
HE947S	N	100	150	N	15	<200	150	N	--	--	--	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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
HE948S	63 18 2	149 34 46	3.0	1.00	.50	.50	500	<.5	N	N	100	1,000
HE949S	63 17 6	149 32 20	3.0	1.00	.20	.30	500	N	N	N	150	700
HE950S	63 54 15	147 29 7	3.0	.70	.20	.50	700	<.5	N	N	70	1,000
HE951S	63 53 30	147 28 28	3.0	.50	.15	.50	1,000	N	N	N	100	1,500
HE952S	63 52 48	147 30 27	3.0	.50	.10	.50	1,000	N	N	N	100	700
HE953S	63 51 35	147 30 52	2.0	.50	.15	.50	500	<.5	N	N	100	700
HE954S	63 51 37	147 31 16	3.0	.70	.70	.30	700	N	N	N	100	1,000
HE955S	63 48 24	147 32 15	2.0	.70	.70	.30	700	N	N	N	70	700
HE956S	63 47 48	147 34 0	2.0	.70	.70	.30	500	N	N	N	15	1,000
HE957S	63 46 45	149 1 58	3.0	.70	.20	.30	500	<.5	N	N	150	500
HE958S	63 46 55	149 5 18	3.0	.70	.20	.50	500	N	N	N	100	500
HE959S	63 47 18	149 16 43	3.0	.50	.10	.30	500	N	N	N	100	500
HE960S	63 46 56	149 23 55	2.0	.70	.05	.20	500	N	N	N	100	500
HE961S	63 46 13	149 48 37	.7	.20	.07	.20	200	N	N	N	30	500
HE962S	63 44 43	149 42 44	1.5	.50	.05	.30	300	N	N	N	70	500
HE963S	63 43 41	149 43 55	2.0	.50	.05	.50	300	N	N	N	50	500
HE964S	63 39 25	149 18 55	2.0	1.00	.30	.70	500	<.5	N	N	70	700
HE965S	63 39 20	149 13 55	2.0	1.00	.15	.50	200	.5	N	N	100	1,000
HE966S	63 36 48	149 14 10	2.0	1.50	.50	.50	300	<.5	N	N	100	700
HE967S	63 36 35	149 13 22	3.0	1.50	.50	.50	500	.7	N	N	150	1,000
HE968S	63 40 25	149 5 20	2.0	1.00	.20	.50	500	.5	N	N	100	1,500
HE969S	63 40 30	149 5 5	1.5	.70	.30	.50	700	1.0	N	N	100	2,000
HE970S	63 41 40	148 55 53	2.0	.50	.20	.50	300	<.5	N	N	100	1,000
HE971S	63 39 51	148 57 37	1.5	.70	.20	.50	200	.5	N	N	70	1,000
HE972S	63 38 14	148 58 15	2.0	1.00	.30	.50	500	.5	N	N	70	1,000
HE973S	63 37 46	149 1 5	3.0	1.00	.30	.70	500	<.5	N	N	70	1,000
HE974S	63 37 36	149 6 15	3.0	1.50	.50	.70	500	.5	N	N	100	1,000
HE975S	63 37 7	148 53 54	2.0	1.00	.50	.50	300	<.5	N	N	70	1,000
HE976S	63 35 28	148 56 30	2.0	1.00	.50	.50	500	<.5	N	N	70	1,000
HE977S	63 33 44	149 2 25	2.0	.70	.20	.20	500	.7	N	N	300	1,000
HE978S	63 33 58	149 3 58	2.0	.70	.20	.50	300	.7	N	N	100	1,000
HE979S	63 33 12	149 4 55	2.0	.70	.20	.50	300	.5	N	N	100	1,000
HE980S	63 33 25	149 8 0	2.0	1.00	.70	.50	500	<.5	N	N	70	1,000
HE981S	63 32 28	149 9 58	2.0	.70	.15	.50	300	<.5	N	N	100	1,000
HE982S	63 30 46	149 15 58	3.0	1.00	.50	.50	500	<.5	N	N	70	1,000
HE983S	63 32 58	149 21 22	2.0	.70	.20	.50	500	<.5	N	N	70	1,000
HE984S	63 34 7	149 18 48	3.0	1.50	1.00	.30	700	.7	N	N	100	1,000
HE985S	63 34 25	149 20 16	2.0	1.00	.30	.30	300	.5	N	N	100	1,000
HE986S	63 34 46	149 23 43	3.0	2.00	2.00	.30	500	N	N	N	30	500
HE987S	63 37 15	149 22 45	3.0	1.00	.70	.50	500	<.5	N	N	70	700
HE988S	63 36 35	149 25 37	2.0	1.00	1.50	.50	700	N	N	N	50	1,000
HE989S	63 29 55	149 20 42	2.0	.70	.70	.50	500	.7	N	N	150	1,000
HE990S	63 28 30	149 21 8	2.0	1.00	3.00	.20	300	.5	N	N	100	1,500
HE991S	63 28 48	149 29 13	3.0	.70	.30	.50	500	.5	N	N	150	700
HE992S	63 28 38	149 29 5	3.0	1.50	2.00	.50	500	.5	N	N	100	2,000

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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	Sb-ppm s	Sc-ppm s
HE948S	2.0	N	N	20	300	30	50	N	N	70	20	N	20
HE949S	2.0	N	N	20	150	50	<20	N	N	100	15	N	15
HE950S	2.0	N	N	20	70	30	70	N	<20	50	70	N	20
HE951S	2.0	N	N	20	70	50	100	N	<20	50	50	N	15
HE952S	3.0	N	N	30	70	50	100	N	<20	50	30	N	15
HE953S	2.0	N	N	20	50	20	50	N	<20	50	30	N	10
HE954S	2.0	N	N	20	70	20	50	N	<20	50	30	N	15
HE955S	2.0	N	N	20	100	30	30	7	<20	50	30	N	15
HE956S	2.0	N	N	15	50	15	50	N	<20	30	20	N	15
HE957S	1.5	N	N	20	100	30	100	N	20	20	200	N	10
HE958S	1.5	N	N	20	100	30	100	5	20	20	70	N	15
HE959S	1.0	N	N	20	50	30	100	N	<20	20	70	N	15
HE960S	1.0	N	N	15	70	20	150	N	<20	20	50	N	15
HE961S	1.0	N	N	10	20	10	50	N	<20	7	20	N	7
HE962S	1.0	N	N	15	50	15	70	N	<20	15	30	N	10
HE963S	1.0	N	N	15	30	10	100	N	<20	10	15	N	10
HE964S	<1.0	N	N	15	150	20	N	<5	<20	20	20	N	15
HE965S	<1.0	N	N	20	150	50	50	5	<20	70	20	N	20
HE966S	<1.0	N	N	20	200	50	50	<5	<20	70	50	N	20
HE967S	1.0	N	N	15	200	70	50	<5	<20	50	30	N	15
HE968S	1.0	N	<20	20	200	100	70	7	<20	70	20	N	15
HE969S	1.0	N	<20	20	150	30	50	10	<20	100	20	N	10
HE970S	1.0	N	N	20	300	20	N	<5	N	50	20	N	10
HE971S	1.0	N	N	15	100	20	30	5	<20	30	20	N	10
HE972S	1.0	N	N	20	150	50	70	N	<20	50	30	N	15
HE973S	1.0	N	N	20	150	30	50	<5	<20	30	30	N	15
HE974S	1.0	N	N	20	150	50	30	<5	<20	50	30	N	15
HE975S	1.0	N	N	15	100	20	30	<5	<20	20	30	N	10
HE976S	1.0	N	N	20	150	20	20	N	N	20	20	N	10
HE977S	1.5	N	N	15	150	20	20	N	<20	30	50	N	10
HE978S	1.0	N	N	15	300	50	20	<5	<20	50	30	N	15
HE979S	1.0	N	N	15	200	20	20	N	<20	30	30	N	10
HE980S	1.0	N	N	15	300	20	<20	N	N	30	20	N	15
HE981S	1.0	N	N	15	150	20	20	<5	<20	50	30	N	10
HE982S	1.0	N	N	20	150	70	20	N	<20	30	20	N	15
HE983S	1.0	N	N	15	100	20	50	<5	<20	50	30	N	10
HE984S	<1.0	N	N	20	200	50	50	<5	N	50	20	N	15
HE985S	1.0	N	N	15	150	30	50	N	<20	70	30	N	10
HE986S	<1.0	N	N	20	300	20	<20	N	N	15	30	N	20
HE987S	1.0	N	N	20	200	30	30	N	<20	50	20	N	15
HE988S	1.0	N	N	15	150	15	30	N	<20	20	20	N	15
HE989S	1.0	N	N	15	200	150	20	<5	<20	50	30	N	15
HE990S	1.0	N	<20	20	100	50	20	5	N	50	30	N	10
HE991S	1.0	N	N	20	150	70	<20	<5	<20	50	20	N	15
HE992S	<1.0	N	<20	20	300	50	N	<5	N	50	20	N	15

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Sb-ppm aa
HE948S	N	150	150	N	20	N	100	N	--	--	--	--	--
HE949S	N	200	150	N	20	<200	150	N	--	--	--	--	--
HE950S	N	<100	150	N	30	200	200	N	--	--	--	--	--
HE951S	N	<100	100	N	100	N	300	N	--	--	--	--	--
HE952S	N	100	100	N	30	N	300	N	--	--	--	--	--
HE953S	N	<100	100	N	20	<200	300	N	--	--	--	--	--
HE954S	N	500	100	N	20	N	300	N	--	--	--	--	--
HE955S	N	500	100	N	20	N	200	N	--	--	--	--	--
HE956S	N	300	100	N	30	N	200	N	--	--	--	--	--
HE957S	N	100	70	N	50	N	150	N	N	15	150	.2	N
HE958S	N	<100	70	N	30	<200	150	N	N	15	130	.2	N
HE959S	N	<100	50	N	20	N	200	N	N	15	95	.1	N
HE960S	N	<100	50	N	30	N	500	N	N	10	75	.2	N
HE961S	N	<100	50	N	20	N	200	N	N	5	35	.1	N
HE962S	N	N	70	N	30	N	700	N	N	10	65	.2	N
HE963S	N	N	50	N	20	N	200	N	N	5	50	<.1	N
HE964S	N	<100	100	N	20	N	100	N	N	10	100	.4	N
HE965S	N	<100	100	N	30	<200	100	N	N	10	200	1.3	2
HE966S	N	100	100	N	30	<200	100	N	N	15	170	.4	2
HE967S	N	<100	100	N	30	<200	100	N	N	20	190	.5	2
HE968S	N	<100	100	N	20	200	100	N	N	10	340	2.2	2
HE969S	N	<100	100	N	30	300	200	N	N	10	480	5.3	4
HE970S	N	100	70	N	20	N	500	N	N	5	90	.3	<2
HE971S	N	<100	100	N	20	N	100	N	N	10	110	1.0	2
HE972S	N	100	100	N	30	N	100	N	N	15	170	.3	2
HE973S	N	100	100	N	30	<200	100	N	N	10	115	.4	2
HE974S	N	<100	100	N	30	<200	100	N	.25	10	160	.5	2
HE975S	N	100	100	N	20	N	70	N	N	10	120	.4	2
HE976S	N	150	100	N	20	N	70	N	N	10	90	.4	<2
HE977S	<10	150	70	N	30	<200	100	N	N	75	130	1.3	4
HE978S	N	100	100	N	30	N	100	N	N	15	130	.8	<2
HE979S	N	100	70	N	20	N	100	N	N	10	130	.9	2
HE980S	N	150	100	N	20	N	70	N	N	10	100	.4	<2
HE981S	N	100	100	N	30	N	150	N	N	10	120	.5	2
HE982S	N	100	100	N	20	<200	100	N	N	15	140	.4	3
HE983S	N	100	70	N	30	<200	200	N	N	15	200	.8	2
HE984S	N	150	100	N	30	<200	70	N	N	15	200	.5	N
HE985S	N	<100	70	N	20	<200	150	N	N	15	160	.5	<2
HE986S	N	200	70	N	20	N	70	N	N	<5	75	.2	N
HE987S	N	100	70	N	50	<200	100	N	N	<5	95	.3	N
HE988S	N	150	70	N	30	N	70	N	N	5	85	.2	N
HE989S	N	100	70	N	20	N	70	N	N	20	180	.6	N
HE990S	N	200	70	N	20	300	50	N	N	25	390	.7	2
HE991S	N	100	100	N	20	200	70	N	N	15	190	.6	<2
HE992S	N	100	100	N	20	200	70	N	N	15	200	.4	2

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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
HE993S	63 28 23	149 30 31	2.0	1.00	5.00	.20	200	N	N	N	70	300
HE994S	63 27 16	149 30 15	3.0	1.00	5.00	.30	300	N	N	N	70	500
HE995S	63 27 20	149 34 53	3.0	1.00	2.00	.70	500	.5	N	N	100	1,000
HE996S	63 32 10	149 33 7	5.0	1.00	2.00	.50	700	N	N	N	50	1,500
HE997S	63 24 10	149 54 32	3.0	1.50	2.00	.30	300	.5	N	N	100	500
HE998S	63 24 7	149 55 31	3.0	1.50	2.00	.30	200	<.5	N	N	100	500
HE999S	63 25 22	149 50 7	5.0	2.00	2.00	.70	500	.5	N	N	100	1,000
HE1000S	63 25 6	149 50 13	3.0	1.50	3.00	.50	300	<.5	N	N	100	500
HE1001S	63 23 0	148 26 0	3.0	1.50	2.00	.50	500	.5	N	N	50	500
HE1002S	63 53 0	148 41 55	2.0	1.00	3.00	.15	150	.7	N	N	150	5,000
HE1003S	63 53 15	148 43 35	3.0	1.00	.70	.20	100	1.5	N	N	150	>5,000
HE1004S	63 52 40	148 40 25	5.0	1.00	1.50	.70	500	<.5	N	N	30	500
HE1005S	63 53 15	148 55 0	7.0	.70	1.00	.70	700	<.5	N	N	30	500
HE1006S	63 52 30	148 43 35	7.0	1.00	1.50	1.00	500	<.5	N	N	20	500
HE1007S	63 51 50	148 45 30	7.0	.70	1.50	.70	700	<.5	N	N	20	700
HE1008S	63 51 30	148 51 0	5.0	1.00	3.00	.50	500	<.5	N	N	100	1,000
HE1009S	63 49 0	148 58 30	3.0	1.00	3.00	.50	300	<.5	N	N	100	700
HE1010S	63 48 20	148 57 10	5.0	1.00	2.00	.50	700	<.5	N	N	70	1,000
HE1011S	63 2 10	147 10 50	7.0	1.00	.70	.70	700	<.5	N	N	70	700
HE1012S	63 2 40	147 14 40	3.0	1.00	.70	.20	500	<.5	N	N	70	700
HE1013S	63 3 5	147 16 20	5.0	1.00	1.00	.50	500	<.5	N	N	70	700
HE1014S	63 3 15	147 22 15	3.0	1.50	.70	.30	300	.5	200	N	100	1,000
HE1015S	63 3 45	147 26 25	3.0	1.50	5.00	.30	300	.5	N	N	70	500
HE1016S	63 11 5	149 14 10	3.0	1.00	3.00	.30	200	<.5	N	N	70	300
HE1017S	63 11 0	149 9 5	2.0	1.00	3.00	.20	300	N	N	N	100	500
HE1018S	63 9 30	149 9 35	3.0	1.50	2.00	.30	200	.7	500	N	100	500
HE1019S	63 7 40	149 11 0	3.0	2.00	.50	.50	300	.5	N	N	100	700
HE1020S	63 7 20	149 10 45	3.0	1.50	5.00	.70	500	<.5	200	N	100	1,000
HE1021S	63 5 30	149 8 0	5.0	1.50	3.00	.70	500	.5	N	N	100	500
HE1022S	63 5 25	149 8 25	5.0	1.50	5.00	.50	500	<.5	N	N	70	500
HE1023S	63 4 50	149 2 50	3.0	1.00	.30	.50	500	<.5	N	N	100	1,500
HE1024S	63 3 10	149 9 35	3.0	1.00	3.00	.30	300	<.5	N	N	100	500
HE1025S	63 3 50	149 13 30	3.0	1.00	2.00	.50	300	.5	300	N	150	700
HE1026S	63 2 20	149 13 25	5.0	2.00	2.00	.50	300	<.5	N	N	100	500
HE1027S	63 4 55	149 17 25	3.0	1.00	.30	.50	300	.5	N	N	100	1,500
HE1028S	63 5 55	149 17 50	3.0	1.00	3.00	.50	500	.5	N	N	100	500
HE1029S	63 5 55	149 18 0	2.0	.70	.50	.30	300	<.5	N	N	70	1,000
HE1030S	63 0 50	149 18 10	3.0	1.00	.70	.50	500	<.5	500	N	150	1,500
HE1031S	63 2 20	149 21 55	2.0	1.00	1.00	.50	500	.7	<200	N	70	1,500
HE1032S	63 2 35	149 23 10	3.0	1.50	.20	.30	500	<.5	N	N	200	1,000
HE1033S	63 3 40	149 23 25	3.0	1.00	.20	.70	500	N	N	N	70	1,000
HE1034S	63 4 30	149 8 15	2.0	1.00	.20	.50	500	.5	N	N	150	700
HE1035S	63 2 50	149 31 20	3.0	1.00	.30	.30	500	N	N	N	100	1,000
HE1036S	63 2 15	149 32 25	3.0	1.50	.15	.50	500	N	N	N	100	1,000
HE1037S	63 0 30	149 30 45	3.0	3.00	1.00	.30	500	<.5	N	N	70	700

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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	Sb-ppm s	Sc-ppm s
HE993S	<1.0	N	N	15	100	20	<20	N	N	30	20	N	10
HE994S	<1.0	N	N	20	100	30	<20	N	N	30	30	N	10
HE995S	1.0	N	N	20	100	30	<20	5	<20	50	20	N	10
HE996S	1.5	N	N	20	100	15	70	<5	20	20	30	N	10
HE997S	<1.0	N	N	30	150	30	50	<5	N	50	50	N	15
HE998S	<1.0	N	N	20	150	50	50	<5	N	50	30	N	15
HE999S	<1.0	N	N	30	300	100	30	N	<20	100	20	N	20
HE1000S	1.0	N	N	20	100	50	20	<5	N	50	50	N	10
HE1001S	<1.0	N	N	20	150	70	N	N	N	30	15	N	15
HE1002S	1.0	N	N	15	70	30	N	10	N	50	20	N	10
HE1003S	<1.0	N	<20	20	200	50	N	20	N	70	30	N	10
HE1004S	1.0	N	N	20	100	15	50	7	20	7	50	N	20
HE1005S	1.0	N	N	20	150	50	70	7	<20	15	100	N	20
HE1006S	<1.0	N	N	20	300	70	20	N	<20	30	20	N	20
HE1007S	1.5	N	N	15	70	20	50	7	20	7	50	N	15
HE1008S	<1.0	N	N	20	150	30	<20	<5	<20	20	70	N	15
HE1009S	<1.0	N	N	20	100	30	<20	<5	N	30	30	N	15
HE1010S	<1.0	N	N	20	150	20	30	<5	N	20	30	N	15
HE1011S	1.0	N	N	30	150	30	20	5	<20	20	30	N	15
HE1012S	<1.0	N	N	15	150	15	20	5	N	20	20	N	15
HE1013S	1.0	N	N	20	100	20	30	<5	<20	10	20	N	10
HE1014S	1.0	N	N	15	500	20	30	N	N	100	100	N	15
HE1015S	<1.0	N	N	20	200	20	<20	N	N	30	30	N	15
HE1016S	<1.0	N	N	15	100	20	20	N	N	20	20	N	15
HE1017S	1.0	N	N	15	70	20	50	N	N	20	20	N	15
HE1018S	1.0	N	N	20	100	30	50	N	N	50	70	N	15
HE1019S	1.0	N	N	30	500	70	50	N	N	200	50	N	20
HE1020S	<1.0	N	N	20	150	50	30	N	N	50	50	N	15
HE1021S	1.0	N	N	30	100	50	30	N	N	70	70	N	15
HE1022S	1.0	N	N	30	100	50	30	N	N	70	30	N	15
HE1023S	1.0	N	N	20	150	50	30	N	N	70	30	N	15
HE1024S	<1.0	N	N	20	100	30	20	N	N	70	50	N	15
HE1025S	1.0	N	N	100	100	50	70	<5	<20	100	50	N	15
HE1026S	1.0	N	N	30	700	30	50	N	N	200	30	N	10
HE1027S	1.0	N	N	20	150	50	30	N	N	70	30	N	15
HE1028S	1.0	N	N	20	100	50	70	N	N	100	50	N	15
HE1029S	<1.0	N	N	15	200	20	30	N	N	20	20	N	10
HE1030S	1.0	N	N	20	200	70	30	<5	N	100	30	N	15
HE1031S	1.0	N	N	15	100	70	30	<5	N	70	20	N	10
HE1032S	1.0	N	N	20	200	100	50	N	N	100	70	N	15
HE1033S	<1.0	N	N	20	700	30	<20	N	N	50	20	N	10
HE1034S	1.0	N	N	20	200	30	<20	N	N	50	20	N	10
HE1035S	1.0	N	N	20	100	30	20	N	N	50	15	N	10
HE1036S	1.0	N	N	30	200	50	20	N	N	70	20	N	15
HE1037S	1.0	N	N	20	500	30	50	N	N	150	30	N	20

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Sb-ppm aa
HE993S	N	200	70	N	15	N	50	N	N	15	140	.4	<2
HE994S	N	200	100	N	20	N	50	N	N	10	110	.4	2
HE995S	N	150	100	N	20	<200	70	N	N	10	280	.7	<2
HE996S	N	150	70	N	70	N	200	N	N	5	200	.6	<2
HE997S	<10	200	70	N	30	N	100	N	N	15	120	.3	2
HE998S	N	200	100	N	30	N	70	N	N	10	85	.3	2
HE999S	N	200	100	N	50	N	70	N	N	5	110	.2	<2
HE1000S	N	200	70	N	30	N	100	N	N	<5	200	.2	N
HE1001S	N	200	100	N	30	N	100	N	N	5	110	.4	N
HE1002S	N	200	150	N	20	200	50	N	N	10	220	1.3	3
HE1003S	N	300	300	N	20	300	50	N	N	30	470	5.3	8
HE1004S	N	200	50	N	50	200	200	N	N	10	140	.3	<2
HE1005S	N	150	50	N	70	<200	200	N	N	15	170	.5	<2
HE1006S	N	200	100	N	50	N	100	N	N	10	90	.2	<2
HE1007S	N	150	50	N	50	200	300	N	N	10	250	.4	2
HE1008S	N	200	70	N	20	<200	70	N	N	5	250	.5	<2
HE1009S	N	200	70	N	20	N	70	N	N	10	130	.3	<2
HE1010S	N	200	70	N	30	N	150	N	N	25	100	.2	3
HE1011S	N	150	70	N	30	<200	100	N	N	20	120	.4	4
HE1012S	N	100	70	N	20	N	70	N	N	5	85	.3	2
HE1013S	N	150	70	N	50	N	100	N	N	10	120	.3	4
HE1014S	N	100	100	N	30	N	100	N	N	130	85	.2	6
HE1015S	N	300	70	N	20	N	100	N	N	25	65	.3	5
HE1016S	N	150	70	N	20	N	50	N	N	10	70	.4	5
HE1017S	N	300	70	N	20	N	70	N	N	15	90	.4	3
HE1018S	N	200	100	N	50	N	50	N	N	110	80	.4	14
HE1019S	N	150	100	N	30	<200	70	N	N	70	100	.4	4
HE1020S	N	300	100	N	30	N	70	N	N	20	80	.4	4
HE1021S	N	200	70	N	30	N	70	N	N	30	90	.4	6
HE1022S	N	300	70	N	30	N	100	N	N	20	95	.3	3
HE1023S	N	200	100	N	20	<200	70	N	N	15	100	.2	2
HE1024S	N	200	70	N	20	N	50	N	N	20	75	.4	5
HE1025S	N	200	70	N	30	N	70	N	N	25	110	.4	4
HE1026S	N	200	70	N	20	N	70	N	N	25	70	.3	3
HE1027S	N	150	100	N	20	N	100	N	N	15	120	.3	3
HE1028S	N	300	70	N	30	N	70	N	N	30	70	.4	3
HE1029S	N	200	70	N	20	N	200	N	N	10	65	.1	<2
HE1030S	N	150	100	N	20	<200	70	N	.20	65	150	.3	3
HE1031S	N	300	70	N	20	N	100	N	<.05	150	100	.4	12
HE1032S	N	200	100	N	20	200	70	N	N	30	220	.2	3
HE1033S	N	100	100	N	20	N	500	N	N	15	90	.2	3
HE1034S	N	100	100	N	20	N	70	N	N	30	110	.2	10
HE1035S	N	150	100	N	20	N	100	N	N	20	120	.2	2
HE1036S	N	100	100	N	20	<200	100	N	N	30	140	.3	5
HE1037S	N	300	70	N	30	N	70	N	N	30	95	.2	3

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	Au-ppm	B-ppm	Ba-ppm
			s	s	s	s	s	s	s	s	s	s
HE1038S	63 0 25	149 30 50	3.0	2.00	1.00	.30	300	N	N	N	50	700
HE1039S	63 5 50	149 27 50	2.0	1.00	.70	.50	300	.7	N	N	100	500
HE1040S	63 10 30	149 18 50	3.0	1.00	.70	.50	300	.7	N	N	100	700
HE1041S	63 9 10	149 19 40	3.0	1.50	.70	.50	200	.5	N	N	100	700
HE1042S	63 7 15	149 25 30	2.0	.50	.10	.20	200	<.5	N	N	70	500
HE1043S	63 1 20	149 0 55	2.0	.70	.20	.50	200	.5	N	N	70	500
HE1044S	63 1 10	149 2 5	2.0	1.00	.70	.50	300	N	N	N	150	700
HE1045S	63 3 15	148 58 10	3.0	1.00	.07	.30	300	1.0	200	N	300	500
HE1046S	63 0 20	148 50 5	3.0	.70	.07	.30	500	1.0	N	N	150	700
HE1047S	63 0 30	148 50 20	2.0	1.00	.50	.30	300	.5	200	N	100	700
HE1048S	63 0 15	148 47 10	3.0	1.00	.15	.20	500	.7	N	N	500	700
HE1049S	63 0 55	148 45 30	5.0	1.00	2.00	.70	300	.5	N	N	50	500
HE1050S	63 2 40	148 47 45	5.0	1.00	3.00	.70	500	.5	N	N	20	150
HE1051S	63 1 55	148 52 15	2.0	.70	.15	.30	200	<.5	N	N	70	300
HE1052S	63 4 5	148 52 0	2.0	.70	.05	.20	200	<.5	N	N	70	500
HE1053S	63 6 30	148 48 35	3.0	1.00	2.00	.30	300	.7	N	N	50	300
HE1054S	63 6 20	148 48 40	3.0	1.00	.10	.50	700	.5	N	N	100	2,000
HE1055S	63 6 55	148 50 45	3.0	1.00	.10	.50	700	.5	N	N	150	1,500
HE1056S	63 7 0	148 50 30	2.0	1.00	.20	.30	300	.5	N	N	100	1,000
HE1057S	63 7 50	148 52 40	2.0	.70	.70	.50	300	.7	N	N	70	1,000
HE1058S	63 8 25	148 52 20	3.0	.70	.50	.30	300	.5	N	N	100	1,500
HE1059S	63 9 0	148 56 0	3.0	.70	.50	.30	200	1.0	200	N	70	200
HE1060S	63 8 40	148 56 20	2.0	.70	.10	.30	300	.5	N	N	70	1,500
HE1061S	63 15 20	149 8 50	2.0	.70	.15	.30	500	.5	N	N	100	700
HE1062S	63 14 30	149 10 55	3.0	.70	.50	.50	500	3.0	300	N	100	3,000
HE1063S	63 11 25	149 4 40	3.0	1.00	.50	.30	300	<.5	N	N	70	700
HE1064S	63 11 15	149 4 25	2.0	1.00	5.00	.30	300	N	N	N	50	200
HE1065S	63 8 50	149 4 5	3.0	1.00	1.50	.50	300	.7	N	N	100	700
HE1066S	63 7 40	149 5 55	2.0	2.00	.50	.30	500	.5	N	N	100	700

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy 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	Sb-ppm s	Sc-ppm s
HE1038S	<1.0	N	N	20	700	20	N	N	N	100	15	N	20
HE1039S	<1.0	N	N	15	150	50	30	N	N	30	20	N	20
HE1040S	<1.0	N	N	30	150	100	30	N	N	70	20	N	20
HE1041S	<1.0	N	N	20	200	70	30	7	N	70	30	N	20
HE1042S	N	N	N	20	150	15	20	N	N	70	10	N	10
HE1043S	<1.0	N	N	20	200	30	20	<5	N	50	20	N	15
HE1044S	2.0	N	N	20	150	20	50	N	20	50	50	N	15
HE1045S	<1.0	N	N	30	150	30	20	N	N	70	50	N	15
HE1046S	1.0	N	N	50	100	100	50	<5	N	100	30	N	10
HE1047S	<1.0	N	N	20	300	20	20	N	N	50	20	N	10
HE1048S	1.5	N	<20	20	500	70	N	N	N	70	20	N	10
HE1049S	N	N	N	30	200	100	N	N	N	50	20	N	15
HE1050S	N	N	N	30	150	100	N	N	N	50	30	N	15
HE1051S	<1.0	N	N	20	200	20	<20	N	N	50	20	N	10
HE1052S	<1.0	N	N	15	200	30	<20	N	N	50	<10	N	10
HE1053S	<1.0	N	N	20	200	50	<20	N	N	20	50	N	20
HE1054S	1.0	N	N	20	150	50	20	5	N	70	30	N	15
HE1055S	1.0	N	N	30	70	150	50	7	N	100	50	N	20
HE1056S	1.0	N	N	20	500	50	30	N	N	100	30	N	15
HE1057S	1.0	N	N	20	50	30	100	5	<20	50	50	N	10
HE1058S	1.0	N	N	20	100	50	100	5	<20	50	50	N	10
HE1059S	1.0	<10	N	20	50	100	100	10	<20	50	150	N	10
HE1060S	1.0	N	N	20	100	30	100	5	<20	30	30	N	10
HE1061S	1.0	N	N	15	70	30	100	5	<20	30	20	N	10
HE1062S	1.0	10	N	20	70	200	70	5	<20	100	200	N	10
HE1063S	1.0	N	N	15	100	30	100	7	20	20	20	N	10
HE1064S	<1.0	N	N	10	70	20	N	N	N	15	15	N	10
HE1065S	1.0	N	N	15	150	50	30	N	N	50	50	N	15
HE1066S	1.0	N	N	20	300	30	20	N	N	150	30	N	15

TABLE 3.--Spectrographic and chemical analyses of stream sediment samples from the Healy quadrangle, Alaska--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Sb-ppm aa
HE1038S	N	200	100	N	20	N	70	N	N	35	90	.2	N
HE1039S	N	150	100	N	30	N	100	N	.10	40	100	.4	4
HE1040S	N	100	100	N	30	<200	70	N	N	55	140	.4	3
HE1041S	N	100	100	N	30	200	70	N	<.05	60	180	1.0	4
HE1042S	N	N	70	N	20	N	100	N	.05	45	110	.6	4
HE1043S	N	100	70	N	30	<200	70	N	N	50	150	1.3	3
HE1044S	10	500	50	N	20	N	300	N	.05	70	65	.1	13
HE1045S	15	100	70	N	20	<200	70	N	.10	700	120	.4	6
HE1046S	20	100	70	N	30	200	50	N	.10	100	210	3.3	10
HE1047S	20	100	70	<50	20	N	100	N	.05	25	110	.4	5
HE1048S	50	100	70	50	20	200	70	N	.05	10	210	3.7	<2
HE1049S	N	150	100	N	30	N	50	N	.10	45	110	.4	7
HE1050S	N	300	100	N	30	N	30	N	.60	30	95	.4	8
HE1051S	N	100	70	N	20	N	100	N	.45	40	95	.2	3
HE1052S	N	100	70	N	20	N	150	N	.50	40	100	.2	3
HE1053S	N	200	100	N	30	N	50	N	.85	35	55	.3	6
HE1054S	N	150	100	N	30	<200	70	N	<.05	35	180	.3	3
HE1055S	N	100	100	N	30	<200	70	N	<.05	40	180	.6	5
HE1056S	N	100	70	N	20	N	100	N	1.40	65	130	.2	6
HE1057S	N	200	50	N	20	N	150	N	<.05	50	100	.4	10
HE1058S	N	200	70	N	30	<200	150	N	<.05	55	140	1.2	8
HE1059S	N	150	70	N	30	200	100	N	.05	95	310	2.2	18
HE1060S	<10	<100	50	N	30	<200	200	N	N	50	250	1.6	3
HE1061S	N	100	70	N	30	N	300	N	N	45	130	.8	2
HE1062S	N	100	50	70	30	300	500	N	.05	70	560	3.0	13
HE1063S	N	150	70	N	30	N	150	N	N	35	90	.4	2
HE1064S	N	500	50	N	20	N	30	N	N	50	65	.4	7
HE1065S	N	150	70	N	30	N	50	N	<.05	70	100	.4	7
HE1066S	<10	150	70	N	20	N	50	N	N	50	100	.4	2

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy 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
HE001C3	63 23 0	148 26 0	3.0	1.00	5.00	>1.00	700	N	2,000	N	100
HE002C3	63 53 0	148 41 55	2.0	.10	3.00	>1.00	500	N	N	N	50
HE003C3	63 53 15	148 43 35	3.0	.30	3.00	>1.00	500	N	N	N	50
HE004C3	63 52 40	148 40 25	20.0	.10	2.00	>1.00	200	1.0	N	N	50
HE005C3	63 53 15	148 55 0	3.0	.70	5.00	>1.00	700	N	N	N	50
HE006C3	63 52 30	148 43 35	>20.0	.05	2.00	>1.00	200	5.0	N	N	70
HE007C3	63 51 50	148 45 30	2.0	.05	2.00	>1.00	200	10.0	N	50	200
HE008C3	63 51 30	148 51 0	2.0	.30	5.00	>1.00	700	N	N	N	150
HE009C3	63 49 0	148 58 30	>20.0	.05	.70	>1.00	200	<1.0	<500	N	50
HE010C3	63 48 20	148 57 10	>20.0	.05	1.00	.50	70	<1.0	N	N	50
HE011C3	63 2 10	147 10 50	2.0	1.00	5.00	>1.00	150	15.0	N	50	50
HE012C3	63 2 40	147 14 40	2.0	1.00	5.00	>1.00	100	N	N	N	70
HE013C3	63 3 5	147 16 20	3.0	1.50	5.00	>1.00	1,000	N	N	N	50
HE014C3	63 3 15	147 22 15	5.0	1.50	5.00	1.00	1,000	N	N	N	50
HE015C3	63 3 45	147 26 25	3.0	1.00	5.00	>1.00	1,000	N	N	N	200
HE016C3	63 11 5	149 14 10	20.0	1.00	5.00	>1.00	2,000	N	N	N	200
HE017C3	63 11 0	149 9 5	10.0	1.00	2.00	>1.00	1,500	2.0	N	N	200
HE018C3	63 9 30	149 9 35	10.0	.30	2.00	>1.00	700	N	N	N	200
HE019C3	63 7 40	149 11 0	20.0	.30	2.00	>1.00	1,000	500.0	500	N	500
HE020C3	63 7 20	149 10 45	10.0	.30	2.00	>1.00	500	700.0	5,000	200	1,500
HE021C3	63 5 30	149 8 0	20.0	.20	3.00	>1.00	1,000	15.0	1,000	N	200
HE023C3	63 4 50	149 2 50	10.0	.50	5.00	>1.00	5,000	N	N	N	5,000
HE024C3	63 3 10	149 9 35	10.0	.50	3.00	>1.00	>5,000	1.0	1,000	N	150
HE025C3	63 3 50	149 13 30	10.0	.50	2.00	>1.00	700	1.0	3,000	N	200
HE026C3	63 2 20	149 13 25	3.0	.30	1.50	>1.00	700	N	N	N	100
HE027C3	63 4 55	149 17 25	10.0	.50	2.00	>1.00	700	2.0	>10,000	N	500
HE028C3	63 5 55	149 17 50	10.0	.50	3.00	>1.00	1,000	10.0	>10,000	N	1,000
HE029C3	63 5 55	149 18 0	20.0	.50	2.00	>1.00	700	200.0	5,000	300	1,000
HE030C3	63 0 50	149 18 10	10.0	.30	2.00	>1.00	500	2.0	N	N	50
HE031C3	63 2 20	149 21 55	10.0	.50	2.00	>1.00	1,000	10.0	5,000	N	200
HE032C3	63 2 35	149 23 10	5.0	.30	2.00	>1.00	700	10.0	<500	N	1,000
HE033C3	63 3 40	149 23 25	5.0	.20	2.00	>1.00	700	10.0	3,000	N	700
HE034C3	63 4 30	149 8 15	7.0	.50	3.00	>1.00	700	1.0	2,000	N	200
HE035C3	63 2 50	149 31 20	10.0	.20	5.00	>1.00	700	1,000.0	2,000	20	30
HE036C3	63 2 15	149 32 25	20.0	.10	2.00	1.00	700	20.0	5,000	N	50
HE037C3	63 0 30	149 30 45	2.0	.20	1.00	>1.00	>5,000	50.0	5,000	N	20
HE038C3	63 0 25	149 30 50	2.0	.20	2.00	>1.00	500	10.0	<500	N	30
HE039C3	63 5 50	149 27 50	5.0	1.00	7.00	>1.00	500	200.0	N	200	70
HE040C3	63 10 30	149 18 50	5.0	.70	5.00	>1.00	700	N	N	N	300
HE041C3	63 9 10	149 19 40	7.0	.50	2.00	>1.00	700	1.0	N	N	50
HE043C3	63 1 20	149 0 55	.7	.20	.50	.20	500	20.0	N	N	50
HE044C3	63 1 10	149 2 5	2.0	.20	2.00	.50	1,000	N	N	N	50
HE045C3	63 3 15	148 58 10	2.0	.20	2.00	1.00	1,500	N	N	N	50
HE046C3	63 0 20	148 50 5	1.0	.50	7.00	>1.00	1,000	10.0	N	N	500
HE047C3	63 0 30	148 50 20	5.0	.50	5.00	>1.00	2,000	2.0	N	N	50

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska

Sample	Ba-ppm s	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	Sb-ppm s
HE001C3	700	<2	50	N	70	150	20	50	N	50	70	<20	N
HE002C3	>5,000	7	N	N	20	100	20	50	N	50	50	70	N
HE003C3	>5,000	<2	N	N	30	200	100	100	N	50	100	500	N
HE004C3	2,000	<2	N	N	200	70	500	100	N	50	700	1,000	N
HE005C3	700	<2	N	N	10	50	50	50	N	<50	20	20	N
HE006C3	2,000	N	100	N	200	50	700	70	N	50	1,000	3,000	N
HE007C3	700	2	N	N	15	300	50	300	N	<50	70	70	N
HE008C3	>5,000	<2	N	N	10	300	50	150	N	50	30	70	N
HE009C3	700	N	N	N	300	20	700	50	N	<50	700	200	N
HE010C3	700	N	N	N	300	20	300	50	N	<50	200	1,000	N
HE011C3	500	<2	N	N	10	500	50	50	N	50	20	20	N
HE012C3	500	<2	N	N	10	500	50	150	N	70	20	20	N
HE013C3	200	<2	N	N	20	700	50	50	N	50	50	<20	N
HE014C3	200	N	N	N	20	500	70	50	N	<50	70	<20	N
HE015C3	200	N	N	N	15	700	50	100	N	70	50	<20	N
HE016C3	>5,000	<2	N	N	50	700	300	100	N	<50	200	50	N
HE017C3	>5,000	<2	N	N	50	700	300	200	<10	50	200	70	N
HE018C3	>5,000	<2	N	N	20	100	200	100	<10	<50	100	30	N
HE019C3	>5,000	<2	N	N	30	700	1,000	50	<10	<50	200	5,000	N
HE020C3	>5,000	<2	200	N	50	100	2,000	150	N	50	100	700	N
HE021C3	>5,000	<2	N	N	70	100	1,500	200	N	<50	500	700	N
HE023C3	500	<2	N	N	20	200	500	>1,000	N	N	50	50	N
HE024C3	700	<2	N	N	50	200	200	700	N	<50	200	70	N
HE025C3	2,000	N	70	N	30	200	700	300	15	150	100	50	N
HE026C3	700	N	N	N	20	200	200	300	N	50	100	70	N
HE027C3	500	<2	500	N	70	300	2,000	1,000	N	50	100	20	N
HE028C3	500	<2	700	N	50	200	100	>1,000	<10	50	200	50	N
HE029C3	300	<2	20	N	70	150	2,000	200	N	<50	100	50	N
HE030C3	3,000	N	N	N	30	70	300	100	<10	100	150	20	N
HE031C3	1,500	<2	20	N	20	100	200	100	N	100	150	100	N
HE032C3	500	N	N	N	10	100	2,000	>1,000	N	150	100	70	N
HE033C3	500	<2	N	N	20	150	2,000	1,000	<10	100	50	300	N
HE034C3	>5,000	N	500	N	30	300	1,000	500	N	50	100	50	N
HE035C3	>5,000	20	N	N	50	20	2,000	1,000	20	200	150	2,000	N
HE036C3	500	10	N	N	50	300	1,000	500	N	50	500	700	N
HE037C3	700	<2	N	N	30	30	100	>1,000	20	<50	20	500	N
HE038C3	200	<2	N	N	10	30	50	1,000	N	<50	20	100	N
HE039C3	300	<2	N	N	20	1,500	500	300	N	50	150	50	N
HE040C3	500	<2	N	N	20	500	200	200	N	50	150	70	N
HE041C3	2,000	<2	N	N	50	200	300	>1,000	N	<50	70	70	N
HE043C3	200	7	20	N	10	150	10	70	N	<50	20	10	N
HE044C3	200	N	N	N	<10	150	20	70	N	<50	20	10	N
HE045C3	200	N	70	N	<10	150	20	500	N	<50	20	10	N
HE046C3	200	N	N	N	<10	150	50	300	N	100	20	20	N
HE047C3	300	N	20	N	10	70	100	500	N	<50	20	20	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska

Sample	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
HE001C3	10	>1,000	500	200	100	200	N	>1,000	200
HE002C3	20	150	500	100	N	500	N	>1,000	N
HE003C3	20	200	500	100	<100	500	N	>1,000	N
HE004C3	<10	N	300	50	<100	300	N	>1,000	N
HE005C3	<10	N	700	200	N	20	N	>1,000	N
HE006C3	N	50	200	100	N	200	N	>1,000	N
HE007C3	50	1,000	200	200	N	500	N	>1,000	N
HE008C3	10	150	700	200	N	200	N	>1,000	N
HE009C3	N	N	<200	30	N	50	N	>1,000	N
HE010C3	N	N	<200	20	N	200	N	>1,000	N
HE011C3	<10	N	500	200	300	200	N	>1,000	N
HE012C3	<10	500	500	200	<100	200	N	>1,000	N
HE013C3	10	N	500	300	N	100	N	>1,000	N
HE014C3	10	N	500	300	N	50	N	>1,000	N
HE015C3	10	200	200	300	<100	200	N	>1,000	N
HE016C3	20	N	500	300	<100	200	500	>1,000	N
HE017C3	50	700	1,000	200	N	200	<500	>1,000	N
HE018C3	30	>1,000	1,000	200	N	100	<500	700	N
HE019C3	30	1,000	700	200	N	100	5,000	>1,000	N
HE020C3	50	>1,000	2,000	100	2,000	200	N	>1,000	N
HE021C3	20	200	500	150	<100	200	N	>1,000	N
HE023C3	20	30	<200	200	100	1,000	N	>1,000	N
HE024C3	20	50	200	150	100	300	N	>1,000	N
HE025C3	50	>1,000	200	200	100	300	N	1,000	N
HE026C3	50	>1,000	200	150	<100	300	N	>1,000	N
HE027C3	30	>1,000	500	150	1,000	300	N	>1,000	N
HE028C3	20	200	1,000	200	2,000	500	N	>1,000	N
HE029C3	30	700	300	200	500	200	N	700	N
HE030C3	30	N	200	200	<100	200	N	1,000	N
HE031C3	30	>1,000	700	200	<100	500	N	1,000	N
HE032C3	70	>1,000	200	150	200	1,000	N	>1,000	2,000
HE033C3	70	>1,000	200	100	500	1,000	N	>1,000	1,000
HE034C3	70	>1,000	500	200	200	500	N	>1,000	N
HE035C3	30	>1,000	200	50	100	1,000	N	>1,000	<200
HE036C3	N	300	200	50	100	500	N	>1,000	500
HE037C3	50	1,000	<200	70	200	>2,000	N	>1,000	>2,000
HE038C3	>100	>1,000	<200	70	<100	200	N	>1,000	1,000
HE039C3	100	>1,000	300	150	200	300	N	>1,000	N
HE040C3	50	300	500	150	2,000	500	N	>1,000	N
HE041C3	100	N	<200	150	<100	500	N	1,000	<200
HE043C3	N	N	N	150	<100	20	N	500	N
HE044C3	N	N	N	500	200	50	N	1,000	N
HE045C3	20	300	N	150	N	1,000	N	>1,000	500
HE046C3	N	100	N	150	N	1,000	N	>1,000	N
HE047C3	20	N	<200	20	<100	500	N	>1,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy 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
HE048C3	63 0 15	148 47 10	>20.0	<.05	2.00	.50	200	7.0	N	N	50
HE049C3	63 0 55	148 45 30	5.0	.50	7.00	>1.00	1,000	5.0	N	N	30
HE050C3	63 2 40	148 47 45	.5	.10	7.00	>1.00	700	20.0	N	N	50
HE051C3	63 1 55	148 52 15	.5	.10	7.00	>1.00	700	5.0	N	N	30
HE052C3	63 4 5	148 52 0	.5	.10	5.00	>1.00	700	10.0	N	<20	30
HE053C3	63 6 30	148 48 35	.5	.10	7.00	>1.00	700	N	N	N	50
HE054C3	63 6 20	148 48 40	.5	.20	7.00	>1.00	700	N	N	N	20
HE055C3	63 6 55	148 50 45	10.0	.50	5.00	>1.00	700	100.0	3,000	N	20
HE056C3	63 7 0	148 50 30	7.0	.20	7.00	>1.00	700	15.0	N	N	50
HE057C3	63 7 50	148 52 40	7.0	.20	5.00	>1.00	700	15.0	N	N	20
HE058C3	63 8 25	148 52 20	10.0	.30	3.00	>1.00	700	30.0	N	N	20
HE059C3	63 9 0	148 56 0	3.0	.50	2.00	>1.00	500	7.0	3,000	20	20
HE060C3	63 8 40	148 56 20	5.0	.50	2.00	>1.00	700	N	N	N	30
HE061C3	63 15 20	149 8 50	2.0	.50	2.00	>1.00	500	N	<500	N	50
HE062C3	63 14 30	149 10 55	2.0	.70	2.00	>1.00	500	2.0	10,000	N	1,000
HE063C3	63 11 25	149 4 40	15.0	.20	1.50	1.00	2,000	1.0	N	N	100
HE064C3	63 11 15	149 4 25	10.0	.50	2.00	1.00	700	1.0	N	N	20
HE065C3	63 8 50	149 4 5	3.0	.50	2.00	>1.00	700	N	N	N	<20
HE066C3	63 7 40	149 5 55	3.0	.10	2.00	>1.00	1,000	N	N	N	100
HE067C3	63 5 30	148 57 20	5.0	.30	7.00	>1.00	700	15.0	1,000	N	20
HE068C3	63 5 40	148 57 20	1.0	.10	2.00	>1.00	700	N	<500	N	<20
HE069C3	63 7 40	148 59 10	7.0	.20	1.50	>1.00	1,000	N	N	N	50
HE070C3	63 10 0	148 57 30	>20.0	.05	.50	>1.00	200	N	N	N	50
HE071C3	63 10 15	148 56 25	3.0	<.05	1.00	>1.00	1,000	N	N	N	200
HE072C3	63 11 0	148 51 55	15.0	.70	2.00	>1.00	>5,000	5.0	N	N	20
HE073C3	63 11 0	148 51 30	15.0	1.00	2.00	>1.00	1,500	100.0	2,000	N	200
HE074C3	63 11 5	148 45 40	15.0	.20	2.00	>1.00	1,000	15.0	<500	N	50
HE075C3	63 11 30	148 47 25	10.0	1.00	2.00	>1.00	2,000	20.0	N	N	20
HE076C3	63 11 50	148 45 40	3.0	.20	2.00	>1.00	700	700.0	500	N	20
HE077C3	63 12 40	148 47 30	5.0	.05	1.00	>1.00	500	5.0	N	N	100
HE078C3	63 13 40	148 40 45	20.0	.05	2.00	>1.00	500	20.0	1,000	N	20
HE079C3	63 15 20	148 50 20	5.0	.10	5.00	>1.00	700	2.0	N	N	200
HE080C3	63 16 45	148 50 50	5.0	1.00	3.00	>1.00	700	2.0	N	N	200
HE081C3	63 17 10	148 52 0	5.0	.50	3.00	>1.00	1,000	N	N	N	300
HE082C3	63 16 10	148 57 5	5.0	.30	2.00	>1.00	700	N	N	N	500
HE083C3	63 14 30	148 59 15	7.0	1.00	5.00	>1.00	1,000	50.0	N	100	200
HE084C3	63 13 30	148 54 30	10.0	.20	2.00	>1.00	500	<1.0	N	N	100
HE085C3	63 13 20	148 54 30	7.0	.30	2.00	>1.00	700	<1.0	N	N	700
HE086C3	63 13 30	148 58 10	10.0	.10	2.00	>1.00	700	20.0	2,000	20	100
HE087C3	63 9 35	148 42 0	10.0	.30	5.00	>1.00	700	10.0	2,000	N	50
HE088C3	63 8 0	148 44 25	2.0	.30	5.00	>1.00	1,000	10.0	N	N	100
HE089C3	63 7 5	148 42 30	5.0	.30	5.00	>1.00	1,000	N	2,000	N	300
HE090C3	63 7 15	148 38 5	3.0	.30	5.00	>1.00	700	20.0	N	N	150
HE091C3	63 8 0	148 33 55	1.0	.20	3.00	>1.00	1,000	2.0	N	N	20
HE092C3	63 5 45	148 40 25	.7	.20	7.00	>1.00	700	N	N	N	100

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Ba-ppm s	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	Sb-ppm s
HE048C3	200	N	N	N	10	N	30	150	20	<50	15	30	N
HE049C3	500	N	N	N	10	70	100	500	<10	<50	50	30	N
HE050C3	50	N	N	N	10	70	30	300	N	150	10	20	N
HE051C3	50	N	N	N	10	50	30	300	N	100	N	20	N
HE052C3	50	N	N	N	10	20	50	200	N	200	N	20	N
HE053C3	200	N	N	N	<10	50	20	200	N	100	N	50	N
HE054C3	100	N	N	N	<10	70	30	200	N	100	10	20	N
HE055C3	1,500	5	500	300	50	30	10,000	500	700	150	10	2,000	N
HE056C3	100	N	N	N	<10	50	1,500	300	200	200	10	300	N
HE057C3	700	3	500	N	<10	50	50	>1,000	N	100	10	200	N
HE058C3	>5,000	2	70	N	50	50	700	1,000	20	50	200	1,000	N
HE059C3	>5,000	<2	N	N	50	500	100	200	N	50	70	50	N
HE060C3	>5,000	<2	N	N	20	200	100	200	N	50	70	50	N
HE061C3	700	3	N	N	10	200	100	200	N	50	50	1,000	N
HE062C3	500	15	N	N	20	200	700	150	N	50	70	50	N
HE063C3	>5,000	<2	N	N	70	300	500	100	20	<50	200	70	N
HE064C3	>5,000	<2	N	N	70	200	300	100	<10	<50	200	70	N
HE065C3	>5,000	<2	N	N	20	200	300	150	N	<50	20	70	N
HE066C3	1,000	N	N	N	<10	500	50	1,000	N	<50	20	20	N
HE067C3	500	5	500	N	<10	100	300	>1,000	N	100	N	200	N
HE068C3	300	20	N	N	<10	N	50	>1,000	N	50	50	100	N
HE069C3	500	<2	N	N	20	500	100	500	N	50	50	70	N
HE070C3	2,000	<2	N	N	20	50	150	50	N	<50	30	50	N
HE071C3	700	5	N	N	<10	100	70	200	N	<50	20	70	N
HE072C3	1,000	5	N	N	30	300	100	500	N	100	50	500	N
HE073C3	300	5	N	N	20	300	100	300	N	100	30	500	N
HE074C3	5,000	2	N	N	50	100	500	300	N	150	100	200	N
HE075C3	700	2	N	N	30	300	100	500	N	100	100	100	N
HE076C3	300	5	N	N	<10	200	100	300	N	100	20	200	N
HE077C3	2,000	5	N	N	10	50	200	300	N	150	20	200	N
HE078C3	200	2	N	N	30	50	200	300	N	100	50	300	N
HE079C3	>5,000	<2	500	N	30	700	150	1,000	N	50	100	100	N
HE080C3	1,500	<2	N	50	30	300	1,000	500	N	50	100	50	N
HE081C3	>5,000	<2	N	N	30	100	1,000	150	N	50	100	70	N
HE082C3	1,500	<2	N	N	20	200	200	150	N	50	100	70	N
HE083C3	>5,000	<2	N	N	50	300	500	>1,000	N	50	100	100	N
HE084C3	>5,000	<2	N	50	50	50	700	200	50	50	150	50	N
HE085C3	>5,000	2	N	N	20	150	100	200	N	50	100	70	N
HE086C3	>5,000	<2	N	N	50	200	150	300	N	50	200	100	1,000
HE087C3	>5,000	<2	N	N	50	70	2,000	500	N	50	200	700	200
HE088C3	500	2	20	N	10	70	2,000	500	50	200	10	500	N
HE089C3	500	2	N	N	20	100	500	>1,000	N	100	20	70	N
HE090C3	500	2	N	N	20	70	100	1,000	N	100	10	70	N
HE091C3	300	<2	N	N	10	100	200	500	N	100	30	20	N
HE092C3	200	N	N	N	20	70	70	200	<10	200	10	<20	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	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
HE048C3	N	N	N	150	N	70	N	>1,000	N
HE049C3	50	20	<200	100	N	500	N	>1,000	N
HE050C3	10	150	N	100	N	700	N	>1,000	N
HE051C3	N	200	N	100	N	700	N	>1,000	N
HE052C3	10	300	N	100	N	700	N	>1,000	N
HE053C3	10	200	N	150	100	700	N	>1,000	N
HE054C3	10	200	N	100	N	700	N	>1,000	N
HE055C3	10	700	<200	150	N	1,500	>10,000	>1,000	2,000
HE056C3	20	700	N	100	200	1,000	N	>1,000	300
HE057C3	70	>1,000	<200	100	N	>2,000	500	>1,000	700
HE058C3	20	150	200	150	1,000	500	500	>1,000	200
HE059C3	50	50	<200	100	150	1,500	700	>1,000	N
HE060C3	100	500	<200	200	100	700	<500	>1,000	N
HE061C3	20	>1,000	500	150	100	200	<500	>1,000	N
HE062C3	10	>1,000	200	150	100	100	N	>1,000	N
HE063C3	10	200	1,000	150	<100	100	3,000	>1,000	N
HE064C3	N	20	1,000	150	N	100	2,000	>1,000	N
HE065C3	20	20	2,000	200	N	200	2,000	>1,000	N
HE066C3	50	>1,000	200	150	100	1,000	N	>1,000	<200
HE067C3	50	200	N	70	N	>2,000	N	>1,000	2,000
HE068C3	>100	300	N	<20	N	>2,000	N	>1,000	2,000
HE069C3	50	200	<200	200	N	500	500	>1,000	<200
HE070C3	N	N	N	100	N	50	<500	1,000	N
HE071C3	100	N	N	150	N	1,000	<500	>1,000	N
HE072C3	100	200	<200	150	N	1,000	<500	>1,000	N
HE073C3	70	N	<200	200	N	700	500	>1,000	N
HE074C3	50	300	<200	150	<100	500	1,000	>1,000	N
HE075C3	70	50	<200	150	N	700	<500	>1,000	N
HE076C3	50	>1,000	<200	50	N	1,500	<500	>1,000	N
HE077C3	50	70	<200	150	<100	1,000	<500	>1,000	N
HE078C3	20	700	N	70	100	500	500	>1,000	N
HE079C3	50	300	500	150	<100	500	<500	>1,000	N
HE080C3	50	N	1,000	150	N	200	1,000	>1,000	N
HE081C3	20	N	1,000	150	N	200	N	>1,000	N
HE082C3	20	N	700	200	N	200	N	>1,000	N
HE083C3	20	N	700	150	N	300	N	>1,000	N
HE084C3	N	20	500	100	N	300	2,000	>1,000	N
HE085C3	50	N	300	150	N	500	N	>1,000	N
HE086C3	10	N	2,000	100	N	200	1,500	>1,000	N
HE087C3	10	100	700	150	1,000	300	N	>1,000	N
HE088C3	20	200	<200	100	200	700	<500	>1,000	200
HE089C3	20	100	<200	150	100	500	N	>1,000	200
HE090C3	50	150	<200	100	<100	700	N	>1,000	200
HE091C3	10	100	N	100	100	700	N	>1,000	<200
HE092C3	10	100	N	150	N	700	N	>1,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy 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
HE093C3	63 5 35	148 40 0	2.0	.20	7.00	>1.00	1,000	N	N	N	500
HE094C3	63 4 45	148 37 20	2.0	.50	2.00	>1.00	700	N	N	N	70
HE095C3	63 3 15	148 36 30	3.0	1.00	3.00	>1.00	1,000	N	N	N	1,500
HE096C3	63 2 50	148 35 5	3.0	1.00	7.00	>1.00	3,000	N	N	N	200
HE097C3	63 2 35	148 35 40	2.0	1.50	7.00	>1.00	2,000	N	N	N	2,000
HE098C3	63 0 40	148 38 10	5.0	1.00	5.00	>1.00	1,000	50.0	>10,000	N	1,000
HE099C3	63 0 30	148 37 50	5.0	.30	5.00	>1.00	1,000	N	N	N	50
HE100C3	63 1 30	148 32 30	1.5	.30	7.00	>1.00	1,500	N	N	N	300
HE101C3	63 2 35	148 27 30	1.0	2.00	7.00	>1.00	1,500	N	N	N	200
HE102C3	63 2 10	148 24 35	1.0	.50	10.00	>1.00	2,000	N	N	N	<20
HE103C3	63 2 40	148 23 20	1.0	.50	10.00	>1.00	2,000	1.0	N	N	50
HE104C3	63 2 50	148 18 20	2.0	1.00	5.00	>1.00	1,000	N	N	N	300
HE105C3	63 0 50	148 18 55	3.0	1.50	5.00	>1.00	1,500	N	N	N	20
HE106C3	63 6 5	148 19 50	.2	.50	1.00	>1.00	1,500	N	2,000	N	200
HE107C3	63 6 40	148 19 30	2.0	.30	5.00	>1.00	1,000	N	N	N	500
HE108C3	63 4 50	148 24 25	1.0	1.00	10.00	>1.00	1,500	N	N	N	200
HE109C3	63 6 20	148 27 20	5.0	1.00	5.00	>1.00	1,000	N	N	N	20
HE110C3	63 6 20	148 30 20	3.0	1.00	5.00	>1.00	1,000	N	N	N	<20
HE111C3	63 6 25	148 30 25	2.0	.50	2.00	>1.00	700	1.0	N	N	<20
HE112C3	63 19 55	148 46 45	15.0	.30	2.00	>1.00	500	5.0	N	N	50
HE113C3	63 18 35	148 43 0	7.0	.70	2.00	>1.00	700	15.0	N	N	200
HE114C3	63 19 5	148 42 0	15.0	.30	3.00	>1.00	700	15.0	3,000	N	150
HE115C3	63 17 10	148 45 45	10.0	.50	3.00	>1.00	700	N	N	N	150
HE116C3	63 16 55	148 46 15	2.0	.50	1.00	>1.00	500	70.0	N	500	50
HE117C3	63 16 40	148 45 10	3.0	.50	2.00	>1.00	1,500	15.0	N	N	50
HE118C3	63 17 30	148 39 15	3.0	.70	2.00	>1.00	700	10.0	1,500	N	100
HE119C3	63 17 0	148 38 40	5.0	.20	3.00	>1.00	700	1.0	N	N	500
HE120C3	63 17 5	148 37 50	10.0	.15	3.00	>1.00	500	150.0	1,000	100	50
HE121C3	63 18 5	148 33 40	2.0	.30	5.00	>1.00	700	1.0	N	N	100
HE122C3	63 18 15	148 33 55	1.5	.20	1.00	.50	500	N	500	N	100
HE123C3	63 16 45	148 30 35	20.0	.10	1.00	>1.00	300	1.0	<500	N	50
HE124C3	63 16 50	148 30 10	20.0	.30	2.00	>1.00	200	15.0	>10,000	N	50
HE125C3	63 17 0	148 27 35	1.0	.30	5.00	>1.00	700	N	N	N	<20
HE126C3	63 16 45	148 28 0	1.0	.10	5.00	>1.00	700	N	N	N	<20
HE127C3	63 18 15	148 25 5	5.0	1.00	5.00	>1.00	2,000	N	N	N	300
HE128C3	63 17 5	148 21 35	2.0	1.00	5.00	>1.00	700	N	N	N	100
HE129C3	63 16 10	148 17 10	1.5	1.00	7.00	>1.00	500	N	N	N	100
HE130C3	63 18 20	148 16 15	1.5	1.00	7.00	>1.00	500	N	N	N	100
HE131C3	63 18 20	148 16 40	1.5	1.00	7.00	>1.00	700	N	N	N	70
HE132C3	63 19 5	148 17 30	1.5	1.50	7.00	>1.00	700	N	N	N	200
HE133C3	63 21 45	148 14 50	2.0	1.50	7.00	>1.00	700	N	N	N	200
HE134C3	63 24 40	148 16 40	3.0	.50	5.00	>1.00	700	N	500	N	200
HE135C3	63 24 40	148 21 15	2.0	1.00	5.00	>1.00	700	N	N	N	100
HE136C3	63 24 45	148 21 30	2.0	1.50	7.00	>1.00	1,000	N	N	N	200
HE137C3	63 25 45	148 27 15	2.0	1.50	5.00	>1.00	1,000	100.0	500	100	200

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Ba-ppm s	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	Sb-ppm s
HE093C3	200	N	N	N	20	70	70	300	<10	200	20	20	N
HE094C3	300	<2	N	N	10	200	50	200	N	<50	20	100	N
HE095C3	500	<2	N	N	20	200	100	200	N	50	50	20	N
HE096C3	300	N	N	N	10	200	100	1,000	N	100	20	20	N
HE097C3	2,000	N	N	N	10	500	700	100	<10	100	50	<20	N
HE098C3	700	N	100	N	150	150	50	150	10	70	20	300	N
HE099C3	300	<2	N	N	10	100	50	100	N	<50	20	50	N
HE100C3	300	N	N	N	10	200	50	500	N	100	20	<20	N
HE101C3	1,000	N	N	N	10	300	30	200	N	100	20	<20	N
HE102C3	150	N	200	N	10	100	30	>1,000	200	<50	20	1,000	N
HE103C3	300	N	500	N	10	200	30	>1,000	N	<50	20	70	N
HE104C3	500	N	50	N	10	200	20	500	N	<50	30	30	N
HE105C3	200	N	50	N	20	100	70	1,000	N	50	50	30	N
HE106C3	300	N	100	N	50	300	100	>1,000	N	<50	20	300	N
HE107C3	300	N	N	N	10	200	30	500	N	<50	70	50	N
HE108C3	300	N	N	N	<10	200	50	200	N	50	20	20	N
HE109C3	500	N	N	N	20	200	100	>1,000	N	100	70	70	N
HE110C3	500	N	N	N	20	300	70	500	N	70	70	70	N
HE111C3	500	N	N	N	10	300	20	150	N	<50	70	20	N
HE112C3	>5,000	<2	N	N	50	1,500	1,000	200	N	50	500	300	N
HE113C3	700	<2	N	N	50	500	1,000	200	N	50	200	5,000	N
HE114C3	2,000	5	N	N	300	200	2,000	200	N	50	500	3,000	N
HE115C3	700	<2	N	N	50	1,000	1,500	200	N	100	200	700	N
HE116C3	700	N	N	N	20	300	200	150	N	100	200	150	N
HE117C3	>5,000	N	200	N	30	700	1,500	150	20	50	100	5,000	N
HE118C3	>5,000	5	50	N	20	300	200	150	10	70	50	500	N
HE119C3	>5,000	1	N	N	50	200	200	150	10	50	150	200	N
HE120C3	>5,000	N	N	N	30	500	100	100	N	50	200	1,000	N
HE121C3	1,500	N	N	N	10	300	70	50	N	50	70	70	N
HE122C3	2,000	500	200	N	10	70	150	50	N	<50	70	30	N
HE123C3	2,000	<2	N	N	50	500	700	50	N	100	200	300	<200
HE124C3	700	2	N	N	50	500	700	1,000	N	150	150	1,500	200
HE125C3	500	N	N	N	<10	300	30	200	N	200	70	70	N
HE126C3	200	N	20	N	<10	150	30	1,000	N	200	20	50	N
HE127C3	1,000	2	N	N	20	500	100	150	N	50	100	50	<200
HE128C3	700	N	N	N	10	500	20	100	N	30	50	20	<200
HE129C3	1,000	N	N	N	10	200	20	100	N	<50	20	20	<200
HE130C3	700	N	N	N	10	200	20	50	N	<50	20	20	N
HE131C3	700	N	N	N	10	300	100	100	N	50	30	20	N
HE132C3	700	N	N	N	<10	200	10	100	N	<50	30	20	<200
HE133C3	700	N	N	N	<10	500	50	50	N	<50	30	30	<200
HE134C3	300	3	500	N	N	700	70	>1,000	<10	100	50	100	N
HE135C3	1,000	2	20	N	20	200	70	500	N	150	70	100	N
HE136C3	700	2	50	N	<10	700	50	200	N	50	50	100	N
HE137C3	700	2	N	N	<10	700	50	300	N	50	70	70	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	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
HE093C3	10	100	N	100	100	700	N	>1,000	N
HE094C3	10	100	200	200	150	70	N	>1,000	N
HE095C3	10	<20	300	200	N	300	N	>1,000	N
HE096C3	20	<20	200	300	N	500	N	>1,000	N
HE097C3	20	N	300	700	N	200	N	>1,000	N
HE098C3	50	>1,000	200	300	200	300	N	>1,000	N
HE099C3	50	500	300	200	N	200	N	>1,000	N
HE100C3	50	30	200	1,000	N	700	N	>1,000	N
HE101C3	30	20	300	1,000	N	300	N	>1,000	N
HE102C3	20	500	200	100	200	1,500	N	>1,000	1,500
HE103C3	20	N	200	200	N	1,500	N	>1,000	1,500
HE104C3	20	100	200	200	N	500	N	>1,000	500
HE105C3	20	N	200	200	N	500	N	>1,000	>2,000
HE106C3	20	<20	N	<20	N	>2,000	N	>1,000	1,000
HE107C3	20	N	500	150	N	500	N	>1,000	200
HE108C3	15	N	200	500	N	500	N	>1,000	200
HE109C3	50	50	200	200	N	500	N	>1,000	<200
HE110C3	100	500	<200	200	150	500	N	>1,000	N
HE111C3	10	100	<200	200	<100	100	N	>1,000	N
HE112C3	10	N	700	150	100	150	N	>1,000	N
HE113C3	50	50	700	150	<100	150	500	>1,000	N
HE114C3	50	1,000	200	200	<100	100	1,000	>1,000	N
HE115C3	30	500	1,000	150	200	300	700	>1,000	N
HE116C3	50	50	300	150	<100	1,000	N	>1,000	N
HE117C3	50	300	700	150	<100	700	N	>1,000	N
HE118C3	10	>1,000	500	150	<100	200	N	>1,000	N
HE119C3	10	50	2,000	150	<100	200	N	>1,000	N
HE120C3	20	>1,000	1,000	150	200	700	N	>1,000	N
HE121C3	10	300	500	200	100	500	N	>1,000	200
HE122C3	N	>1,000	<200	100	150	150	N	>1,000	N
HE123C3	20	50	200	150	<100	150	N	>1,000	N
HE124C3	20	100	200	150	1,000	700	<500	>1,000	500
HE125C3	20	200	N	150	<100	1,500	N	>1,000	<200
HE126C3	20	300	N	150	N	1,500	N	>1,000	500
HE127C3	10	20	700	200	N	200	N	>1,000	N
HE128C3	N	<20	500	200	100	200	N	>1,000	N
HE129C3	N	50	500	200	<100	200	N	>1,000	N
HE130C3	N	30	500	200	<100	200	N	>1,000	N
HE131C3	N	N	500	200	<100	300	N	>1,000	N
HE132C3	N	N	700	200	N	200	N	>1,000	N
HE133C3	10	N	700	200	N	100	N	>1,000	N
HE134C3	50	>1,000	<200	150	N	2,000	N	>1,000	1,000
HE135C3	20	>1,000	<200	150	N	1,000	N	>1,000	1,500
HE136C3	20	>1,000	500	200	<100	500	N	>1,000	500
HE137C3	20	>1,000	200	200	<100	1,000	N	>1,000	700

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	Au-ppm	B-ppm
			s	s	s	s	s	s	s	s	s
HE138C3	63 24 5	148 31 45	2.0	1.50	7.00	>1.00	700	N	N	N	200
HE139C3	63 47 50	148 55 15	>20.0	.10	1.00	.70	200	1.0	N	N	100
HE140C3	63 48 5	148 55 30	10.0	.20	2.00	>1.00	500	N	N	N	100
HE141C3	63 46 5	148 54 15	>20.0	.07	.70	.20	150	1.0	N	N	50
HE142C3	63 45 55	148 54 10	>20.0	.05	.70	.50	100	1.0	N	N	50
HE143C3	63 33 10	147 11 10	3.0	2.00	5.00	>1.00	1,000	N	N	N	500
HE144C3	63 32 25	147 15 55	2.0	5.00	7.00	>1.00	1,000	N	500	N	200
HE145C3	63 31 15	147 16 15	>20.0	.20	3.00	>1.00	500	15.0	2,000	N	500
HE146C3	63 32 45	147 17 55	3.0	1.50	5.00	>1.00	700	N	5,000	N	1,000
HE147C3	63 31 40	147 22 0	20.0	1.00	3.00	>1.00	700	N	3,000	N	100
HE148C3	63 31 10	147 26 0	3.0	.50	3.00	>1.00	700	N	N	N	2,000
HE149C3	63 31 10	147 26 30	3.0	.70	5.00	>1.00	700	N	N	N	1,000
HE150C3	63 29 30	147 29 25	3.0	1.00	7.00	>1.00	1,000	N	1,500	N	300
HE151C3	63 26 20	147 19 50	2.0	1.50	7.00	>1.00	700	N	N	N	200
HE152C3	63 26 25	147 19 35	2.0	2.00	10.00	>1.00	1,000	N	N	N	300
HE153C3	63 26 45	147 22 5	1.5	2.00	10.00	.70	700	N	N	N	150
HE154C3	63 28 40	147 20 20	1.5	2.00	15.00	1.00	700	N	N	N	100
HE155C3	63 28 40	147 19 50	1.5	2.00	10.00	1.00	700	N	N	N	200
HE156C3	63 30 45	147 1 40	1.5	.50	10.00	>1.00	700	N	N	N	50
HE157C3	63 31 30	147 2 20	5.0	.50	5.00	>1.00	700	N	2,000	N	1,000
HE158C3	63 30 50	147 6 40	20.0	.20	2.00	>1.00	300	5.0	1,000	N	1,000
HE159C3	63 28 10	147 2 10	2.0	1.00	10.00	>1.00	1,000	N	N	N	20
HE160C3	63 25 50	147 2 45	2.0	1.50	10.00	>1.00	1,000	N	N	N	20
HE161C3	63 27 55	147 10 40	10.0	1.00	5.00	1.00	700	1.0	1,000	N	1,000
HE162C3	63 27 15	147 13 0	3.0	2.00	5.00	>1.00	1,000	N	N	N	2,000
HE163C3	63 26 10	147 15 20	1.0	1.00	5.00	>1.00	500	N	N	N	100
HE164C3	63 24 25	147 9 30	1.0	.70	7.00	>1.00	700	N	N	N	50
HE165C3	63 24 30	147 24 0	1.0	.70	7.00	>1.00	500	N	N	N	1,500
HE166C3	63 22 25	147 3 40	.7	1.00	7.00	>1.00	700	N	N	N	200
HE167C3	63 21 50	147 2 20	1.0	.10	7.00	>1.00	700	N	N	N	20
HE168C3	63 19 30	147 24 5	1.0	.20	7.00	>1.00	700	N	N	N	20
HE169C3	63 16 25	147 8 20	.7	.20	1.00	>1.00	300	N	N	N	20
HE170C3	63 16 0	147 3 55	.7	.20	10.00	>1.00	700	N	N	N	<20
HE171C3	63 18 25	147 3 50	.5	.20	10.00	>1.00	700	N	N	N	<20
HE172C3	63 17 0	147 7 40	.5	.20	10.00	>1.00	500	N	N	N	<20
HE173C3	63 17 50	147 16 45	.5	.20	2.00	>1.00	500	N	N	N	<20
HE174C3	63 17 40	147 17 30	.5	.20	2.00	>1.00	300	N	N	N	<20
HE175C3	63 17 0	147 21 5	1.0	.50	3.00	>1.00	700	N	N	N	100
HE176C3	63 15 40	147 23 30	.5	.30	2.00	>1.00	300	N	N	N	50
HE177C3	63 31 40	148 1 20	3.0	.30	5.00	>1.00	700	1.0	N	N	200
HE178C3	63 31 35	148 1 0	10.0	.30	5.00	>1.00	1,000	2.0	500	N	200
HE179C3	63 30 30	148 1 40	3.0	.50	2.00	>1.00	700	N	N	N	100
HE180C3	63 27 10	148 9 55	2.0	.30	5.00	>1.00	300	<1.0	N	N	20
HE181C3	63 27 10	148 7 50	2.0	1.50	7.00	>1.00	700	N	N	N	200
HE182C3	63 30 45	148 9 45	5.0	.50	2.00	>1.00	500	1.0	N	N	200

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Ba-ppm s	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	Sb-ppm s
HE138C3	1,000	<2	N	N	<10	500	200	150	N	<50	70	50	N
HE139C3	700	N	N	N	200	20	500	150	N	<50	500	1,000	N
HE140C3	700	<2	N	N	100	150	200	200	N	<50	200	200	N
HE141C3	1,500	N	N	N	300	20	1,000	50	N	<50	500	500	N
HE142C3	1,500	N	N	N	500	20	1,000	50	N	<50	500	1,000	N
HE143C3	500	<2	N	N	30	150	200	100	N	<50	200	70	N
HE144C3	300	<2	N	N	30	1,500	20	70	N	50	300	20	N
HE145C3	1,000	<2	N	N	100	50	700	200	N	100	200	500	N
HE146C3	700	N	N	N	200	300	700	150	N	<50	150	70	N
HE147C3	700	N	N	N	1,000	200	1,000	200	N	<50	200	1,000	N
HE148C3	500	N	N	N	50	150	70	150	N	N	50	50	N
HE149C3	500	<2	N	N	50	150	100	100	N	N	50	50	N
HE150C3	3,000	<2	N	N	70	300	70	100	N	<50	70	50	N
HE151C3	1,000	2	N	N	10	150	30	100	N	<50	30	20	N
HE152C3	1,000	<2	N	N	<10	200	30	150	N	<50	30	20	N
HE153C3	1,000	2	N	N	<10	150	20	50	N	<50	30	20	N
HE154C3	1,000	<2	N	N	<10	200	30	100	N	<50	30	20	N
HE155C3	1,000	<2	N	N	<10	150	30	100	N	<50	20	20	N
HE156C3	700	<2	100	N	10	70	50	150	N	100	20	20	N
HE157C3	>5,000	2	N	N	50	200	100	150	N	100	70	50	N
HE158C3	>5,000	<2	N	N	50	50	1,500	100	N	70	200	100	N
HE159C3	500	N	N	N	10	100	700	150	N	50	30	50	N
HE160C3	500	<2	N	N	10	100	20	150	N	50	20	20	N
HE161C3	3,000	2	N	N	100	70	500	150	N	<50	200	50	N
HE162C3	2,000	N	N	N	10	100	100	500	N	<50	50	<20	N
HE163C3	1,500	N	N	N	<10	70	20	70	N	<50	30	<20	N
HE164C3	500	N	N	N	<10	70	10	150	N	<50	20	<20	N
HE165C3	700	N	N	N	10	150	100	50	N	150	30	50	N
HE166C3	500	N	N	N	<10	100	15	200	N	<50	10	10	N
HE167C3	300	N	N	N	<10	50	50	500	N	70	10	N	N
HE168C3	300	N	N	N	<10	70	100	200	N	100	20	30	N
HE169C3	300	N	N	N	<10	700	10	100	N	70	20	20	N
HE170C3	300	N	N	N	<10	100	20	200	N	100	10	20	N
HE171C3	300	N	N	N	<10	100	30	300	N	150	10	30	N
HE172C3	300	N	N	N	<10	200	50	100	N	100	10	20	N
HE173C3	300	N	N	N	<10	500	20	100	N	100	10	20	N
HE174C3	300	N	N	N	<10	500	10	100	N	50	15	<20	N
HE175C3	1,000	N	N	N	<10	500	20	200	N	50	20	<20	N
HE176C3	500	N	N	N	<10	500	20	150	N	50	10	<20	N
HE177C3	>5,000	<2	N	N	50	150	1,000	200	N	50	100	500	N
HE178C3	>5,000	<2	N	N	70	200	700	300	N	50	200	1,000	N
HE179C3	5,000	N	N	N	20	100	700	100	N	70	100	100	N
HE180C3	700	N	N	N	20	200	300	200	N	70	70	1,500	N
HE181C3	1,000	2	N	N	10	200	200	200	N	<50	20	50	N
HE182C3	>5,000	<2	N	N	50	100	1,000	200	N	50	70	100	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	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
HE138C3	20	>1,000	500	300	N	200	N	>1,000	N
HE139C3	N	N	200	50	N	200	N	>1,000	N
HE140C3	10	N	200	100	N	200	N	>1,000	N
HE141C3	10	N	200	20	N	100	700	1,000	N
HE142C3	10	N	200	20	N	200	N	>1,000	N
HE143C3	20	N	200	150	150	300	N	>1,000	700
HE144C3	20	N	300	200	200	200	N	>1,000	500
HE145C3	<10	N	300	150	150	200	N	>1,000	N
HE146C3	20	N	300	500	500	300	N	>1,000	1,000
HE147C3	20	N	300	150	<100	300	N	>1,000	700
HE148C3	50	N	300	150	N	500	N	>1,000	200
HE149C3	10	N	300	150	150	200	N	>1,000	200
HE150C3	10	N	300	200	100	200	N	>1,000	200
HE151C3	N	N	1,000	200	N	100	N	>1,000	N
HE152C3	<10	N	1,000	300	N	200	N	>1,000	N
HE153C3	<10	N	1,000	200	N	50	N	500	N
HE154C3	<10	N	1,000	700	N	200	N	>1,000	N
HE155C3	<10	N	1,000	500	N	100	N	>1,000	N
HE156C3	<10	30	500	200	N	500	N	>1,000	N
HE157C3	<10	N	300	200	100	300	N	>1,000	N
HE158C3	N	N	200	200	200	200	N	>1,000	N
HE159C3	N	50	300	200	300	500	N	>1,000	N
HE160C3	N	50	300	200	<100	300	N	>1,000	N
HE161C3	N	N	500	200	200	70	N	1,000	N
HE162C3	20	N	1,000	200	200	200	N	>1,000	N
HE163C3	N	N	500	200	200	200	N	>1,000	N
HE164C3	<10	300	200	150	150	500	N	>1,000	N
HE165C3	<10	70	200	200	<100	500	N	1,000	N
HE166C3	<10	50	200	150	100	500	N	>1,000	N
HE167C3	<10	20	200	200	N	700	N	>1,000	N
HE168C3	<10	N	300	150	N	500	N	>1,000	N
HE169C3	N	N	N	200	N	70	N	500	N
HE170C3	N	N	700	150	N	500	N	>1,000	N
HE171C3	N	50	500	150	N	700	N	>1,000	N
HE172C3	N	N	1,000	150	N	300	N	>1,000	N
HE173C3	N	N	<200	200	N	300	N	>1,000	N
HE174C3	N	N	N	200	N	200	N	150	N
HE175C3	N	N	200	300	200	300	<500	>1,000	N
HE176C3	N	N	<200	200	<100	150	700	>1,000	N
HE177C3	20	N	2,000	200	<100	200	5,000	>1,000	N
HE178C3	20	N	2,000	200	N	300	N	>1,000	N
HE179C3	30	N	500	200	N	300	N	>1,000	N
HE180C3	100	N	200	150	<100	700	N	1,000	N
HE181C3	10	>1,000	1,000	200	100	100	N	>1,000	N
HE182C3	30	N	1,000	150	<100	150	<500	1,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	Au-ppm	B-ppm
			s	s	s	s	s	s	s	s	s
HE183C3	63 29 20	148 9 5	5.0	.30	2.00	>1.00	700	N	N	N	100
HE184C3	63 29 0	148 13 25	7.0	.20	1.00	>1.00	300	N	N	N	100
HE185C3	63 29 5	148 17 0	5.0	.20	3.00	>1.00	500	N	N	N	100
HE186C3	63 30 25	148 17 5	5.0	.20	1.00	>1.00	500	N	N	N	200
HE187C3	63 28 5	148 19 40	2.0	.70	5.00	>1.00	500	N	N	N	50
HE188C3	63 29 20	148 21 50	1.0	.30	.70	>1.00	200	N	N	N	50
HE189C3	63 29 20	148 22 15	2.0	.30	2.00	>1.00	500	N	N	N	150
HE190C3	63 28 5	148 26 25	2.0	.20	1.50	>1.00	500	15.0	N	20	100
HE191C3	63 24 30	148 8 45	2.0	1.00	5.00	>1.00	700	N	N	N	200
HE192C3	63 22 45	148 6 20	2.0	1.00	5.00	>1.00	700	N	N	N	200
HE193C3	63 25 10	148 4 40	2.0	1.50	10.00	1.00	700	N	N	N	200
HE194C3	63 25 30	148 1 55	2.0	.05	2.00	>1.00	500	N	N	N	<20
HE195C3	63 26 40	148 1 15	2.0	1.00	5.00	>1.00	700	N	N	N	300
HE196C3	63 29 0	147 58 15	2.0	.20	1.00	1.00	1,500	N	1,000	N	150
HE197C3	63 28 45	147 55 40	1.5	1.50	3.00	1.00	1,000	N	500	N	150
HE198C3	63 28 20	148 30 20	5.0	1.00	3.00	>1.00	1,000	N	N	N	150
HE199C3	63 27 0	148 32 30	1.0	1.00	5.00	1.00	700	N	N	N	100
HE200C3	63 13 15	147 2 5	1.0	.30	7.00	>1.00	700	N	N	N	20
HE201C3	63 12 10	147 0 45	3.0	.30	5.00	>1.00	1,000	N	1,000	N	50
HE202C3	63 12 20	147 0 50	3.0	.30	5.00	>1.00	700	N	N	N	20
HE203C3	63 9 50	147 1 15	3.0	1.50	5.00	.50	1,000	N	N	N	50
HE204C3	63 10 35	147 2 25	10.0	1.00	3.00	>1.00	1,000	N	500	N	500
HE205C3	63 8 25	147 5 35	5.0	1.00	5.00	>1.00	1,000	1.0	N	N	100
HE206C3	63 8 15	147 5 30	5.0	1.00	7.00	1.00	700	N	N	N	50
HE207C3	63 10 15	147 7 50	3.0	.50	7.00	>1.00	1,000	N	N	N	100
HE208C3	63 11 15	147 10 15	10.0	.30	3.00	>1.00	1,000	N	<500	N	200
HE209C3	63 11 40	147 19 0	2.0	.70	2.00	>1.00	700	10.0	N	N	1,000
HE210C3	63 11 35	147 19 15	5.0	.50	3.00	>1.00	700	N	N	N	100
HE211C3	63 11 0	147 13 5	1.5	.50	10.00	.50	700	N	N	N	20
HE212C3	63 12 55	147 9 45	3.0	.30	5.00	>1.00	700	N	N	N	50
HE213C3	63 13 5	147 9 30	1.0	.20	5.00	>1.00	700	N	N	N	20
HE214C3	63 13 30	147 11 45	.7	.30	3.00	>1.00	500	N	N	N	20
HE215C3	63 13 20	147 12 40	.5	.20	2.00	>1.00	500	N	N	N	100
HE216C3	63 12 45	147 15 50	1.0	.30	5.00	>1.00	500	N	N	N	200
HE217C3	63 37 45	147 19 55	3.0	1.00	5.00	.50	1,000	1.0	N	N	50
HE218C3	63 36 50	147 22 55	7.0	1.00	5.00	>1.00	700	N	N	N	50
HE219C3	63 36 25	147 26 50	20.0	.10	1.00	.50	200	5.0	N	N	50
HE220C3	63 35 20	147 29 30	10.0	.30	5.00	1.00	700	70.0	>10,000	N	1,500
HE221C3	63 35 35	147 36 55	20.0	1.50	1.50	>1.00	1,500	3.0	7,000	N	500
HE222C3	63 39 45	147 25 30	10.0	.50	2.00	.30	500	5.0	5,000	N	50
HE223C3	63 37 30	147 29 45	20.0	.30	2.00	>1.00	500	2.0	<500	N	50
HE224C3	63 38 15	147 30 5	15.0	1.00	2.00	.50	700	7.0	N	N	50
HE225C3	63 37 10	147 32 40	7.0	1.00	5.00	>1.00	700	2.0	<500	N	20
HE226C3	63 36 30	147 32 10	15.0	.50	1.50	>1.00	500	2.0	N	N	50
HE227C3	63 37 0	147 36 40	20.0	.30	2.00	.30	500	10.0	1,500	N	50

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Ba-ppm s	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	Sb-ppm s
HE183C3	>5,000	N	N	N	50	100	1,000	200	N	50	70	50	N
HE184C3	>5,000	<2	N	N	20	100	300	500	N	50	100	50	N
HE185C3	>5,000	N	N	N	20	200	300	200	N	50	100	50	N
HE186C3	>5,000	<2	N	N	20	200	300	500	N	50	100	50	N
HE187C3	700	N	N	N	10	300	20	200	N	<50	30	20	N
HE188C3	700	<2	N	N	<10	50	30	50	N	<50	30	20	N
HE189C3	700	<2	N	N	10	300	300	100	N	50	50	50	N
HE190C3	700	<2	N	N	10	300	100	70	N	50	50	50	N
HE191C3	1,000	N	N	N	<10	150	50	50	N	<50	20	30	N
HE192C3	1,000	N	N	N	<10	150	50	150	N	<50	30	50	N
HE193C3	700	<2	N	N	<10	300	30	150	N	<50	50	50	N
HE194C3	500	N	N	N	<10	<20	<10	100	N	N	20	N	N
HE195C3	700	N	N	N	<10	70	50	100	N	N	30	30	N
HE196C3	700	<2	<20	N	50	100	200	1,000	N	N	50	100	N
HE197C3	200	<2	N	N	30	70	50	500	N	<50	50	70	N
HE198C3	500	<2	N	N	20	500	100	>1,000	N	50	50	70	N
HE199C3	500	2	1,000	N	<10	100	50	500	N	150	<10	50	N
HE200C3	>5,000	N	N	N	10	100	50	300	N	100	20	50	N
HE201C3	1,000	N	N	N	30	100	200	200	N	100	70	50	N
HE202C3	2,000	N	N	N	50	100	100	200	N	100	30	50	N
HE203C3	700	N	N	N	20	300	300	50	N	<50	50	20	N
HE204C3	700	2	N	N	50	150	500	70	N	<50	100	100	N
HE205C3	>5,000	N	N	N	30	150	10,000	200	N	<50	100	30	N
HE206C3	500	N	N	N	20	150	200	50	N	<50	50	20	N
HE207C3	500	2	N	N	20	70	100	100	N	<50	20	50	N
HE208C3	1,000	N	N	N	70	70	200	100	N	<50	50	50	N
HE209C3	500	N	500	N	20	100	200	50	N	<50	50	100	N
HE210C3	500	N	N	N	20	70	500	100	N	<50	30	50	N
HE211C3	700	N	N	N	<10	30	20	200	N	N	10	30	N
HE212C3	1,000	N	N	N	30	50	500	100	<10	50	20	50	N
HE213C3	500	N	N	N	10	200	30	200	<10	100	10	20	N
HE214C3	500	N	N	N	<10	300	20	150	N	100	10	20	N
HE215C3	300	N	N	N	<10	150	20	50	N	70	10	<20	N
HE216C3	200	N	N	N	<10	300	20	200	N	50	20	<20	N
HE217C3	700	<2	N	N	20	100	500	50	10	<50	50	50	N
HE218C3	1,000	<2	N	N	50	70	1,500	50	N	<50	50	30	N
HE219C3	>5,000	N	N	N	50	50	200	50	<10	<50	200	70	N
HE220C3	2,000	2	200	N	500	70	200	100	50	50	200	5,000	<200
HE221C3	1,500	2	N	N	70	500	100	300	N	<50	200	70	N
HE222C3	>5,000	<2	N	N	70	70	100	50	N	50	200	100	N
HE223C3	3,000	2	N	N	70	70	100	150	N	<50	50	500	N
HE224C3	>5,000	<2	N	N	100	70	2,000	50	N	<50	100	100	N
HE225C3	>5,000	<2	N	N	50	100	200	70	N	<50	70	50	N
HE226C3	>5,000	<2	N	N	100	200	2,000	100	N	50	200	100	N
HE227C3	5,000	<2	N	N	100	50	500	50	N	<50	200	200	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	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
HE183C3	50	N	1,000	150	<100	200	N	>1,000	N
HE184C3	20	N	1,000	200	<100	200	N	>1,000	N
HE185C3	30	N	700	200	<100	300	N	>1,000	N
HE186C3	50	N	200	200	N	200	N	>1,000	N
HE187C3	10	N	200	150	N	500	N	>1,000	500
HE188C3	N	N	200	150	N	50	N	1,000	N
HE189C3	N	N	200	200	<100	100	N	1,000	N
HE190C3	10	N	200	300	200	200	N	>1,000	N
HE191C3	N	N	700	300	100	150	N	>1,000	200
HE192C3	10	N	500	200	N	500	N	>1,000	200
HE193C3	N	N	500	300	100	200	N	>1,000	700
HE194C3	20	700	<200	<20	N	1,500	N	>1,000	500
HE195C3	15	>1,000	<200	200	<100	500	N	>1,000	500
HE196C3	20	>1,000	<200	100	200	2,000	N	>1,000	>2,000
HE197C3	30	100	<200	100	200	1,500	N	>1,000	>2,000
HE198C3	50	500	<200	200	200	700	N	>1,000	1,000
HE199C3	N	>1,000	<200	200	100	2,000	N	>1,000	1,000
HE200C3	N	200	5,000	150	N	500	N	>1,000	N
HE201C3	10	30	700	200	<100	500	N	>1,000	N
HE202C3	10	30	1,000	150	<100	500	N	>1,000	N
HE203C3	10	N	<200	300	N	30	N	150	N
HE204C3	10	70	1,000	300	N	70	N	1,000	N
HE205C3	10	N	500	200	N	50	N	150	N
HE206C3	10	N	300	200	N	30	N	150	N
HE207C3	10	N	1,000	200	N	100	N	1,000	N
HE208C3	20	N	1,000	300	N	100	N	150	N
HE209C3	10	N	700	200	300	100	N	1,000	N
HE210C3	N	N	700	200	<100	200	N	500	N
HE211C3	N	N	2,000	150	N	150	N	70	N
HE212C3	<10	N	1,000	200	N	200	N	>1,000	N
HE213C3	N	50	300	200	N	500	N	>1,000	N
HE214C3	N	N	300	200	N	150	N	>1,000	N
HE215C3	N	30	300	150	N	100	N	1,000	N
HE216C3	N	N	300	200	N	300	N	>1,000	N
HE217C3	10	N	300	200	N	50	N	200	N
HE218C3	10	N	500	300	N	30	N	150	N
HE219C3	10	N	500	200	N	30	1,000	150	N
HE220C3	10	20	500	200	5,000	100	N	500	N
HE221C3	30	N	300	500	<100	300	500	200	N
HE222C3	10	N	500	150	<100	30	500	50	N
HE223C3	20	N	500	200	N	100	<500	300	N
HE224C3	15	N	500	150	N	50	N	100	N
HE225C3	20	N	1,000	500	1,000	100	N	150	N
HE226C3	50	N	500	150	<100	100	<500	500	N
HE227C3	10	N	500	150	<100	50	500	100	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	Au-ppm	B-ppm
			s	s	s	s	s	s	s	s	s
HE228C3	63 37 25	147 39 55	3.0	.70	5.00	1.00	1,000	N	N	N	50
HE229C3	63 36 30	147 41 5	5.0	2.00	5.00	.50	1,000	2.0	3,000	N	300
HE230C3	63 35 50	147 41 5	15.0	1.00	1.00	1.00	1,000	2.0	2,000	N	300
HE231C3	63 34 45	147 45 25	3.0	1.50	3.00	.70	1,000	N	<500	N	100
HE232C3	63 34 20	147 48 20	2.0	.30	5.00	.20	1,500	N	N	N	50
HE233C3	63 36 45	147 47 5	10.0	.50	5.00	.50	1,000	<1.0	N	N	20
HE234C3	63 36 5	147 50 25	5.0	1.00	5.00	.70	1,000	N	N	N	20
HE235C3	63 36 10	147 49 50	5.0	1.00	5.00	.70	2,000	N	N	N	20
HE236C3	63 36 0	147 52 50	5.0	1.00	5.00	1.00	1,000	N	N	N	20
HE237C3	63 32 20	147 54 15	.7	<.05	2.00	.50	500	N	N	N	100
HE238C3	63 32 25	147 53 15	1.0	.15	1.00	.50	1,000	<1.0	10,000	50	150
HE239C3	63 54 35	148 9 25	20.0	.20	2.00	>1.00	300	5.0	1,000	N	70
HE240C3	63 54 30	148 9 5	>20.0	.10	2.00	1.00	200	20.0	1,500	N	70
HE241C3	63 54 50	148 8 40	20.0	.20	2.00	1.00	300	7.0	2,000	N	50
HE242C3	63 56 40	148 8 5	20.0	.10	.50	.70	200	5.0	500	N	50
HE243C3	63 56 35	148 8 45	10.0	.20	1.00	>1.00	500	N	N	N	100
HE244C3	63 57 30	148 8 30	10.0	.20	1.00	>1.00	300	5.0	N	N	100
HE245C3	63 57 35	148 2 55	5.0	.20	.70	>1.00	200	N	N	N	200
HE246C3	63 57 35	148 2 40	20.0	.15	1.00	1.00	200	3.0	N	N	100
HE247C3	63 58 30	148 6 40	2.0	.30	.70	>1.00	500	N	N	N	70
HE248C3	63 59 55	148 1 55	1.0	.30	.20	>1.00	300	N	N	N	50
HE249C3	63 59 10	148 10 20	5.0	.20	.50	>1.00	300	<1.0	N	N	150
HE250C3	63 59 5	148 10 55	20.0	.50	2.00	>1.00	500	2.0	N	N	150
HE251C3	63 58 15	148 13 50	.7	.20	.20	>1.00	300	N	N	N	20
HE252C3	63 58 10	148 14 10	5.0	.10	.70	>1.00	300	N	N	N	70
HE253C3	63 58 50	148 16 35	.5	.15	<.10	>1.00	200	<1.0	N	N	150
HE254C3	63 57 20	148 16 45	>20.0	<.05	.50	.70	500	5.0	1,000	N	70
HE255C3	63 53 50	148 17 15	>20.0	.05	.70	.50	200	3.0	3,000	N	70
HE256C3	63 53 35	148 20 25	5.0	.07	3.00	>1.00	300	10.0	N	N	50
HE257C3	63 53 30	148 20 5	20.0	.05	2.00	>1.00	150	15.0	1,500	N	50
HE258C3	63 33 10	147 55 55	2.0	.30	.20	>1.00	100	N	N	N	70
HE259C3	63 33 0	147 56 25	20.0	.15	2.00	1.00	300	10.0	>10,000	N	70
HE260C3	63 34 20	147 58 50	20.0	.15	1.00	.70	150	1.0	500	N	70
HE261C3	63 37 25	147 57 5	3.0	.15	5.00	>1.00	500	N	N	N	70
HE262C3	63 38 45	147 57 0	2.0	.70	5.00	>1.00	700	10.0	N	N	70
HE263C3	63 38 5	147 56 40	2.0	.50	3.00	>1.00	700	N	N	N	70
HE264C3	63 37 45	147 58 25	1.5	.30	2.00	>1.00	300	N	N	N	100
HE265C3	63 34 45	148 0 35	15.0	.20	1.00	>1.00	200	3.0	1,000	N	50
HE266C3	63 36 45	148 2 50	1.0	.10	1.50	>1.00	300	N	N	N	50
HE267C3	63 34 30	148 5 0	2.0	.50	2.00	>1.00	500	N	N	N	500
HE268C3	63 34 35	148 6 55	2.0	.50	2.00	>1.00	500	1.0	N	N	100
HE269C3	63 32 5	148 12 0	15.0	.20	1.00	>1.00	300	N	N	N	100
HE270C3	63 32 0	148 12 35	7.0	.20	2.00	>1.00	500	N	N	N	200
HE271C3	63 32 10	148 7 0	10.0	.20	2.00	>1.00	300	50.0	N	100	200
HE272C3	63 37 15	148 7 20	1.0	.30	3.00	>1.00	300	N	N	N	200

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Ba-ppm s	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	Sb-ppm s
HE228C3	>5,000	<2	N	N	20	70	70	50	N	<50	50	20	N
HE229C3	2,000	<2	N	N	100	200	1,000	70	N	<50	70	20	N
HE230C3	1,000	<2	N	N	100	500	500	100	N	50	70	50	N
HE231C3	5,000	N	N	N	30	300	300	500	N	50	10	70	N
HE232C3	500	5	N	N	10	20	10	1,000	N	<50	<10	50	N
HE233C3	>5,000	<2	N	N	30	50	500	50	N	<50	70	50	N
HE234C3	>5,000	<2	N	N	30	70	70	50	N	<50	50	30	N
HE235C3	700	2	N	N	50	70	50	50	N	<50	100	20	N
HE236C3	>5,000	<2	N	N	30	50	70	50	N	<50	20	20	N
HE237C3	300	<2	N	N	<10	N	100	200	N	<50	N	70	N
HE238C3	500	N	2,000	N	70	20	2,000	>1,000	N	<50	<10	500	N
HE239C3	5,000	N	N	N	200	50	700	150	N	<50	500	1,000	N
HE240C3	>5,000	N	N	N	200	50	500	100	N	<50	500	3,000	N
HE241C3	>5,000	<2	N	N	100	50	500	100	N	<50	700	700	N
HE242C3	>5,000	N	N	N	150	20	1,000	100	N	<50	500	5,000	N
HE243C3	>5,000	2	<20	<50	100	100	200	200	N	100	150	3,000	N
HE244C3	>5,000	2	<20	50	100	100	500	300	N	100	100	5,000	N
HE245C3	>5,000	2	N	N	50	100	200	200	N	100	100	3,000	N
HE246C3	>5,000	<2	N	N	100	50	200	150	N	50	100	2,000	N
HE247C3	>5,000	N	N	N	20	150	50	500	N	200	50	70	N
HE248C3	700	2	N	N	20	200	50	500	N	150	<10	70	N
HE249C3	>5,000	2	N	N	50	100	200	500	N	100	70	1,000	N
HE250C3	>5,000	<2	N	N	100	70	700	200	N	100	500	1,000	N
HE251C3	700	<2	N	N	<10	150	30	500	N	300	N	200	N
HE252C3	>5,000	2	N	N	50	100	300	300	N	100	100	2,000	N
HE253C3	700	N	N	N	20	200	30	500	N	200	N	70	N
HE254C3	>5,000	N	N	N	200	N	70	100	N	<50	700	1,000	N
HE255C3	5,000	<2	N	N	200	20	300	50	N	<50	500	1,000	N
HE256C3	>5,000	<2	50	N	50	20	200	70	N	N	70	5,000	N
HE257C3	>5,000	N	50	N	150	20	200	50	N	<50	500	5,000	N
HE258C3	1,000	<2	N	N	10	500	100	100	N	100	20	150	N
HE259C3	>5,000	<2	N	N	150	20	200	50	N	<50	500	5,000	<200
HE260C3	>5,000	<2	N	N	200	70	500	50	N	<50	700	100	N
HE261C3	>5,000	<2	N	N	30	100	100	70	N	<50	50	70	N
HE262C3	>5,000	N	N	N	20	150	100	70	N	50	20	50	N
HE263C3	>5,000	N	N	N	20	100	100	50	N	<50	20	700	N
HE264C3	>5,000	N	N	N	10	150	200	300	N	50	30	70	N
HE265C3	>5,000	N	N	N	200	70	500	50	N	<50	300	100	N
HE266C3	>5,000	N	N	N	20	200	200	200	N	50	30	50	N
HE267C3	>5,000	N	N	N	20	700	500	50	N	50	70	30	N
HE268C3	>5,000	N	N	N	30	500	500	70	N	<50	70	500	N
HE269C3	>5,000	<2	N	N	50	70	700	150	N	50	100	50	N
HE270C3	>5,000	<2	N	N	30	70	500	150	N	50	70	50	N
HE271C3	>5,000	<2	N	N	70	200	500	100	N	50	300	200	N
HE272C3	3,000	N	N	N	20	150	200	300	N	50	50	70	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	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
HE228C3	10	N	500	150	100	50	<500	150	N
HE229C3	15	N	1,000	500	200	70	N	500	N
HE230C3	70	N	200	300	N	200	1,000	150	N
HE231C3	20	200	500	500	N	500	N	>1,000	>2,000
HE232C3	10	N	200	100	N	300	N	>1,000	1,000
HE233C3	15	N	500	150	N	50	<500	150	N
HE234C3	20	N	500	150	N	50	<500	150	N
HE235C3	15	N	700	150	N	50	700	100	N
HE236C3	10	N	700	150	N	30	<500	150	N
HE237C3	20	100	<200	<20	N	1,500	N	>1,000	1,500
HE238C3	20	>1,000	<200	<20	200	>2,000	N	>1,000	>2,000
HE239C3	20	100	500	50	200	200	N	>1,000	300
HE240C3	20	<20	300	30	<100	200	N	>1,000	<200
HE241C3	15	N	500	70	N	200	N	>1,000	N
HE242C3	<10	N	500	50	N	100	1,000	>1,000	N
HE243C3	10	100	700	100	<100	500	1,000	>1,000	<200
HE244C3	10	N	500	100	<100	500	2,000	>1,000	<200
HE245C3	10	N	500	100	<100	300	<500	>1,000	<200
HE246C3	N	N	1,000	50	N	200	1,500	>1,000	N
HE247C3	30	N	200	150	<100	300	N	>1,000	<200
HE248C3	50	50	<200	150	<100	300	<500	>1,000	<200
HE249C3	20	N	700	100	<100	500	N	>1,000	<200
HE250C3	10	N	500	70	N	500	1,500	>1,000	N
HE251C3	30	30	<200	100	<100	300	N	>1,000	<200
HE252C3	30	N	500	100	<100	500	1,500	>1,000	<200
HE253C3	50	500	N	100	<100	300	N	>1,000	<200
HE254C3	<10	300	200	30	N	70	1,000	>1,000	N
HE255C3	<10	N	200	30	N	50	<500	1,000	N
HE256C3	15	N	200	50	<100	300	N	>1,000	N
HE257C3	<10	N	300	30	N	200	N	>1,000	N
HE258C3	20	N	<200	200	100	50	500	500	N
HE259C3	N	N	700	70	2,000	70	2,000	1,000	N
HE260C3	N	N	700	70	N	50	2,000	150	N
HE261C3	10	N	700	200	N	100	N	50	N
HE262C3	10	N	700	200	N	70	N	>1,000	N
HE263C3	10	100	700	200	N	50	N	1,000	N
HE264C3	20	N	700	200	N	200	N	>1,000	N
HE265C3	N	N	500	100	N	30	700	150	N
HE266C3	50	N	2,000	200	N	200	<500	>1,000	N
HE267C3	20	N	700	300	N	100	N	1,000	N
HE268C3	20	N	700	300	N	100	<500	500	N
HE269C3	10	N	500	150	N	100	500	>1,000	N
HE270C3	15	N	1,000	150	N	100	1,000	500	N
HE271C3	20	N	700	150	N	100	<500	1,000	N
HE272C3	20	N	1,000	150	N	200	N	>1,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy 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
HE273C3	63 39 45	148 7 20	2.0	.20	1.00	>1.00	500	N	N	N	150
HE274C3	63 40 20	148 3 30	2.0	.50	3.00	>1.00	2,000	N	N	N	70
HE275C3	63 40 40	147 59 55	2.0	1.00	5.00	>1.00	1,000	N	N	N	70
HE276C3	63 41 5	148 4 0	2.0	.30	2.00	>1.00	300	N	N	N	70
HE277C3	63 41 10	148 8 45	2.0	.20	2.00	>1.00	500	N	N	N	500
HE278C3	63 41 20	148 9 6	7.0	.50	1.50	>1.00	5,000	N	N	N	300
HE279C3	63 40 50	148 9 45	5.0	1.00	3.00	>1.00	1,000	N	N	N	50
HE280C3	63 39 0	148 12 40	2.0	1.00	5.00	>1.00	1,000	N	N	N	20
HE281C3	63 34 35	148 16 0	10.0	.50	1.50	>1.00	1,000	3.0	2,000	N	2,000
HE282C3	63 36 40	148 15 10	2.0	.30	2.00	1.00	700	N	1,000	N	200
HE283C3	63 16 10	149 3 40	2.0	.30	3.00	>1.00	500	N	N	N	300
HE284C3	63 18 25	149 1 45	2.0	.50	3.00	>1.00	500	N	N	N	50
HE285C3	63 19 15	148 58 15	3.0	.50	2.00	>1.00	500	N	N	N	50
HE286C3	63 19 20	148 58 5	5.0	.50	3.00	>1.00	1,000	N	N	N	200
HE287C3	63 18 30	148 55 20	5.0	.30	3.00	>1.00	1,000	N	N	N	200
HE288C3	63 20 10	148 51 5	5.0	.30	2.00	>1.00	1,000	300.0	N	N	50
HE289C3	63 21 20	148 51 25	5.0	.50	3.00	>1.00	1,000	10.0	N	N	1,000
HE290C3	63 21 30	148 40 10	2.0	.50	3.00	1.00	700	N	N	N	200
HE291C3	63 20 30	148 37 10	1.5	1.00	3.00	1.00	1,000	N	N	N	200
HE292C3	63 22 5	148 35 20	1.5	1.00	5.00	>1.00	1,000	N	N	N	100
HE293C3	63 24 35	148 41 15	3.0	1.00	5.00	>1.00	700	150.0	>10,000	300	200
HE294C3	63 23 35	148 46 10	3.0	1.00	5.00	>1.00	700	10.0	3,000	200	200
HE295C3	63 10 0	147 51 45	1.5	1.50	7.00	>1.00	700	N	N	N	100
HE296C3	63 8 35	147 53 35	1.0	1.00	7.00	>1.00	700	N	N	N	70
HE297C3	63 7 15	147 56 55	2.0	1.50	7.00	>1.00	1,000	N	N	N	1,000
HE298C3	63 6 20	147 53 10	1.0	1.00	5.00	>1.00	700	N	N	N	200
HE299C3	63 5 55	147 51 25	1.5	1.50	5.00	>1.00	700	N	N	N	200
HE300C3	63 6 0	147 51 15	2.0	.50	5.00	>1.00	700	2.0	3,000	N	100
HE301C3	63 7 5	147 46 30	.7	.30	5.00	>1.00	700	N	N	N	<20
HE302C3	63 7 5	147 45 55	1.0	.20	5.00	>1.00	700	N	N	N	150
HE303C3	63 8 5	147 47 30	1.0	.30	5.00	>1.00	700	N	N	N	20
HE304C3	63 9 5	147 46 25	1.5	.50	5.00	>1.00	700	N	N	N	100
HE305C3	63 7 20	147 40 45	1.5	1.00	7.00	>1.00	700	N	<500	N	100
HE306C3	63 7 30	147 41 5	1.5	1.00	7.00	>1.00	700	N	N	N	100
HE307C3	63 6 40	147 42 0	5.0	.50	5.00	>1.00	700	N	2,000	N	200
HE308C3	63 4 50	147 39 45	2.0	.70	5.00	>1.00	700	N	N	N	200
HE309C3	63 3 0	147 38 55	2.0	1.00	5.00	1.00	1,000	N	N	N	300
HE310C3	63 2 50	147 39 25	2.0	1.00	7.00	.50	700	N	N	N	5,000
HE311C3	63 2 50	147 41 15	2.0	1.50	5.00	.30	1,000	N	N	N	2,000
HE312C3	63 1 50	147 45 40	1.5	1.50	5.00	.50	700	N	N	N	1,000
HE313C3	63 0 55	147 49 20	2.0	.50	7.00	.50	700	700.0	N	>500	200
HE314C3	63 1 20	147 56 50	2.0	.70	5.00	>1.00	700	N	N	N	50
HE315C3	63 3 10	147 58 10	1.5	.50	5.00	>1.00	700	N	N	N	100
HE316C3	63 4 50	147 56 20	1.5	1.00	5.00	>1.00	700	N	N	N	100
HE317C3	63 7 45	147 0 5	2.0	.70	5.00	.50	700	N	N	N	50

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Ba-ppm s	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	Sb-ppm s
HE273C3	5,000	N	N	N	20	700	200	100	N	50	50	50	N
HE274C3	>5,000	<2	N	N	30	150	200	100	N	50	200	50	N
HE275C3	3,000	<2	N	N	20	150	100	150	N	<50	70	30	N
HE276C3	500	N	N	N	20	300	200	200	N	70	50	100	N
HE277C3	200	N	N	N	20	150	70	200	N	70	50	50	N
HE278C3	100	<2	N	N	30	1,500	100	200	N	70	70	50	N
HE279C3	700	N	N	N	20	1,000	70	70	N	70	50	50	N
HE280C3	1,000	N	N	N	10	200	50	50	N	<50	20	30	N
HE281C3	>5,000	2	<20	N	50	100	700	200	<10	50	150	100	500
HE282C3	>5,000	<2	N	N	30	100	70	100	<10	<50	50	20	N
HE283C3	2,000	<2	N	N	10	150	100	150	N	50	70	50	N
HE284C3	>5,000	N	N	N	10	150	70	300	N	50	50	50	N
HE285C3	>5,000	N	N	N	30	500	300	200	N	50	100	70	N
HE286C3	>5,000	N	N	N	50	1,500	1,500	500	N	50	100	70	N
HE287C3	>5,000	N	N	N	30	1,000	500	500	N	50	70	50	N
HE288C3	2,000	N	100	N	30	700	2,000	300	N	100	70	>20,000	<200
HE289C3	>5,000	<2	N	50	30	700	200	150	N	70	70	2,000	N
HE290C3	700	2	N	N	<10	700	150	150	N	50	20	50	N
HE291C3	700	5	N	N	<10	200	30	150	<10	50	20	20	N
HE292C3	700	<2	N	N	<10	300	150	200	N	<50	20	20	N
HE293C3	>5,000	N	100	N	20	700	70	300	<10	50	30	1,000	500
HE294C3	700	N	70	N	20	500	150	300	20	50	50	30	<200
HE295C3	1,000	N	N	N	<10	500	50	150	N	50	30	20	N
HE296C3	700	N	N	N	10	200	30	200	10	100	20	20	N
HE297C3	700	N	N	N	10	700	20	500	N	<50	50	20	N
HE298C3	700	<2	N	N	10	200	20	150	N	70	20	20	N
HE299C3	1,500	<2	N	N	<10	300	20	100	N	50	20	20	N
HE300C3	500	N	N	N	70	100	50	200	N	70	50	1,000	N
HE301C3	500	N	N	N	<10	50	50	300	20	200	10	20	N
HE302C3	500	N	N	N	<10	100	20	200	20	100	10	20	N
HE303C3	500	N	N	N	<10	70	20	200	20	200	10	20	N
HE304C3	300	N	N	N	10	200	50	200	20	100	<10	20	N
HE305C3	1,000	N	N	N	<10	200	20	100	N	<50	<10	20	N
HE306C3	700	N	N	N	<10	200	20	100	N	<50	<10	20	N
HE307C3	700	N	N	N	20	200	150	150	N	<50	<10	20	N
HE308C3	700	N	N	N	10	200	50	70	N	<50	<10	<20	N
HE309C3	>5,000	N	N	N	10	500	50	50	N	N	20	20	N
HE310C3	3,000	N	N	N	10	500	50	50	N	<50	20	<20	N
HE311C3	>5,000	N	N	N	15	700	50	50	N	<50	70	<20	N
HE312C3	3,000	<2	N	N	15	700	50	50	N	<50	70	<20	N
HE313C3	2,000	N	N	N	10	50	100	50	N	<50	20	3,000	N
HE314C3	700	N	N	N	10	300	30	100	N	50	10	70	N
HE315C3	1,500	<2	N	N	10	200	20	200	N	<50	20	<20	N
HE316C3	1,500	N	N	N	10	200	20	100	N	50	20	<20	N
HE317C3	100	<2	N	N	10	100	30	50	N	<50	20	<20	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	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
HE273C3	50	N	300	300	N	200	N	>1,000	N
HE274C3	20	N	700	200	N	100	<500	700	N
HE275C3	10	20	700	200	N	70	N	>1,000	N
HE276C3	70	500	500	300	<100	100	N	>1,000	N
HE277C3	50	N	1,000	200	<100	200	N	>1,000	N
HE278C3	50	N	500	200	<100	200	N	>1,000	N
HE279C3	20	N	500	200	N	100	N	>1,000	N
HE280C3	10	N	500	200	N	50	N	1,000	N
HE281C3	20	>1,000	500	300	200	100	500	200	N
HE282C3	10	500	1,000	200	N	50	<500	200	N
HE283C3	10	>1,000	1,000	200	<100	200	N	>1,000	N
HE284C3	10	200	500	200	<100	100	N	>1,000	N
HE285C3	15	20	2,000	150	200	150	N	>1,000	N
HE286C3	20	300	1,000	200	<100	200	N	>1,000	N
HE287C3	20	N	1,000	150	N	200	N	>1,000	N
HE288C3	30	>1,000	500	200	<100	200	<500	>1,000	N
HE289C3	50	150	700	200	N	150	2,000	>1,000	N
HE290C3	10	500	300	200	300	200	N	>1,000	N
HE291C3	10	1,000	500	200	<100	500	N	>1,000	200
HE292C3	10	1,000	700	200	<100	150	N	>1,000	N
HE293C3	10	1,000	700	200	2,000	200	N	>1,000	N
HE294C3	10	>1,000	500	200	2,000	200	N	>1,000	N
HE295C3	10	500	700	200	100	300	N	>1,000	N
HE296C3	10	50	300	200	N	500	N	>1,000	N
HE297C3	20	<20	500	200	100	500	N	>1,000	N
HE298C3	10	N	700	200	<100	200	N	>1,000	N
HE299C3	10	N	700	200	N	200	N	>1,000	N
HE300C3	10	50	500	200	<100	300	N	>1,000	N
HE301C3	10	20	200	200	N	1,000	N	1,000	N
HE302C3	<10	20	500	200	N	500	N	>1,000	N
HE303C3	<10	70	500	200	N	1,000	N	>1,000	N
HE304C3	<10	50	500	200	N	300	N	>1,000	N
HE305C3	<10	N	1,000	200	N	200	N	>1,000	N
HE306C3	<10	N	1,000	300	N	200	N	>1,000	N
HE307C3	<10	N	700	200	1,000	300	N	>1,000	N
HE308C3	N	N	700	200	1,000	200	N	>1,000	N
HE309C3	N	N	700	200	200	50	N	>1,000	N
HE310C3	<10	50	500	200	<100	50	N	>1,000	N
HE311C3	<10	N	500	200	N	30	N	500	N
HE312C3	<10	N	200	200	N	20	N	200	N
HE313C3	N	N	200	200	N	10	N	200	N
HE314C3	<10	N	1,000	200	N	200	N	>1,000	N
HE315C3	<10	500	500	200	N	300	N	>1,000	N
HE316C3	<10	N	700	200	N	200	N	>1,000	N
HE317C3	<10	N	200	200	N	20	N	150	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	Au-ppm	B-ppm
			s	s	s	s	s	s	s	s	s
HE318C3	63 7 20	147 0 10	3.0	1.00	5.00	.50	1,000	N	N	N	50
HE319C3	63 6 20	147 0 45	3.0	1.00	5.00	1.00	1,000	N	N	N	100
HE320C3	63 5 20	147 0 45	3.0	1.00	5.00	>1.00	1,000	N	N	N	50
HE321C3	63 4 25	147 3 10	3.0	1.00	7.00	.20	700	N	N	N	50
HE322C3	63 3 50	147 4 0	2.0	1.50	7.00	.20	1,000	N	N	N	50
HE323C3	63 3 20	147 1 20	1.5	.50	2.00	>1.00	700	N	N	N	100
HE324C3	63 2 55	147 9 40	2.0	2.00	5.00	.20	700	N	N	N	20
HE325C3	63 3 40	147 11 40	5.0	1.00	5.00	>1.00	1,000	N	N	N	20
HE326C3	63 4 0	147 14 20	3.0	1.00	5.00	>1.00	700	N	N	N	20
HE327C3	63 4 10	147 14 40	3.0	2.00	5.00	>1.00	1,000	N	N	N	50
HE328C3	63 6 0	147 7 0	5.0	1.50	5.00	.70	1,000	N	N	N	20
HE329C3	63 5 50	147 7 30	3.0	1.00	5.00	.50	700	N	N	N	20
HE330C3	63 7 55	147 17 30	5.0	1.50	5.00	.20	700	N	<500	N	200
HE331C3	63 7 55	147 17 50	7.0	1.50	5.00	.50	1,000	N	N	N	500
HE332C3	63 6 55	147 16 15	5.0	1.00	5.00	.50	1,000	N	N	N	20
HE333C3	63 5 50	147 19 45	3.0	1.00	5.00	.20	700	N	N	N	20
HE334C3	63 6 0	147 19 10	2.0	1.00	5.00	.30	700	N	N	N	20
HE335C3	63 5 15	147 17 25	1.0	.30	10.00	.10	500	1.5	N	N	20
HE336C3	63 5 5	147 20 5	1.0	.20	5.00	.10	500	N	N	N	30
HE337C3	63 5 5	147 19 35	1.5	.50	5.00	.15	500	N	N	N	20
HE338C3	63 6 40	147 22 45	3.0	.70	5.00	.20	700	N	N	N	500
HE339C3	63 6 40	147 23 40	3.0	1.00	5.00	.30	1,000	N	N	N	20
HE340C3	63 8 25	147 24 15	3.0	.50	5.00	>1.00	700	N	N	N	50
HE341C3	63 8 30	147 23 40	3.0	1.00	5.00	>1.00	500	N	N	N	50
HE342C3	63 14 5	147 15 10	1.0	.30	2.00	>1.00	500	N	N	N	1,500
HE343C3	63 9 35	147 12 55	1.0	.50	20.00	.70	700	N	N	N	20
HE344C3	63 11 50	147 16 25	3.0	.30	3.00	>1.00	700	100.0	N	500	100
HE345C3	63 10 50	147 17 0	3.0	1.00	2.00	>1.00	700	5.0	N	<20	2,000
HE346C3	63 10 45	147 17 25	3.0	1.00	5.00	>1.00	1,000	N	500	N	1,500
HE347C3	63 11 0	147 18 35	3.0	1.00	5.00	>1.00	700	N	N	N	300
HE348C3	63 12 15	147 21 15	1.5	.30	3.00	>1.00	700	2.0	N	N	200
HE349C3	63 12 10	147 23 30	1.0	.10	3.00	>1.00	500	N	N	N	100
HE350C3	63 10 40	147 22 35	3.0	.15	5.00	>1.00	700	7.0	N	20	20
HE351C3	63 11 50	148 35 0	20.0	.10	1.00	>1.00	500	20.0	1,000	N	50
HE353C3	63 11 0	148 32 5	5.0	.30	2.00	>1.00	1,000	7.0	N	N	100
HE354C3	63 11 20	148 32 40	5.0	.30	3.00	>1.00	1,000	5.0	N	N	3,000
HE355C3	63 12 30	148 27 5	2.0	.30	5.00	>1.00	700	5.0	N	N	70
HE356C3	63 10 55	148 28 35	5.0	.30	3.00	>1.00	700	20.0	N	N	50
HE358C3	63 12 25	148 21 15	5.0	1.00	3.00	>1.00	1,000	N	N	N	100
HE359C3	63 10 30	148 18 40	5.0	1.50	3.00	>1.00	2,000	N	N	N	20
HE360C3	63 9 30	148 22 35	5.0	.50	5.00	>1.00	200	N	N	N	20
HE361C3	63 8 40	148 25 15	5.0	1.50	3.00	>1.00	200	N	N	N	20
HE362C3	63 8 20	148 26 50	3.0	.70	2.00	>1.00	700	N	N	N	20
HE363C3	63 6 5	148 27 50	5.0	1.00	7.00	>1.00	1,500	N	N	N	500
HE364C3	63 0 30	148 10 5	2.0	1.00	7.00	>1.00	1,000	N	N	N	200

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Ba-ppm s	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	Sb-ppm s
HE318C3	50	N	N	N	15	100	70	50	N	<50	30	<20	N
HE319C3	150	N	N	N	20	150	70	50	N	50	50	<20	N
HE320C3	500	N	N	N	20	200	50	50	N	50	50	<20	N
HE321C3	200	<2	N	N	20	150	50	50	N	<50	50	20	N
HE322C3	1,000	<2	N	N	20	150	50	50	N	<50	50	30	N
HE323C3	300	N	N	N	10	200	20	50	N	50	50	N	N
HE324C3	1,000	<2	N	N	20	700	30	50	N	<50	70	20	N
HE325C3	200	<2	N	N	20	200	100	50	N	<50	50	20	N
HE326C3	200	N	N	N	20	500	50	50	N	<50	70	20	N
HE327C3	200	2	N	N	30	700	70	70	N	50	100	20	N
HE328C3	50	N	N	N	30	150	70	50	N	<50	50	20	N
HE329C3	50	N	N	N	20	100	70	50	N	<50	30	<20	N
HE330C3	>5,000	N	N	N	30	100	70	70	N	<50	30	50	N
HE331C3	500	<2	N	N	50	300	200	50	N	<50	50	70	N
HE332C3	100	N	N	N	20	100	100	50	N	<50	50	20	N
HE333C3	100	N	N	N	20	200	50	50	N	<50	50	20	N
HE334C3	150	N	N	N	15	150	30	50	N	<50	50	20	N
HE335C3	300	<2	N	N	10	70	30	70	N	<50	30	30	N
HE336C3	50	N	N	N	<10	50	30	50	N	N	20	<20	N
HE337C3	50	N	N	N	10	100	70	50	N	<50	20	20	N
HE338C3	>5,000	N	N	N	10	150	70	50	N	<50	30	<20	N
HE339C3	300	N	N	N	15	200	100	50	N	<50	30	<20	N
HE340C3	500	<2	N	N	20	70	100	150	N	<50	20	30	N
HE341C3	500	<2	N	N	10	70	100	100	N	<50	20	50	N
HE342C3	200	N	N	N	<10	200	50	100	N	100	20	20	N
HE343C3	5,000	N	N	N	<10	70	20	500	N	<50	10	20	N
HE344C3	500	N	N	N	30	50	300	100	N	100	50	200	N
HE345C3	500	<2	N	N	30	200	100	50	N	<50	30	50	N
HE346C3	700	<2	N	N	30	100	100	70	N	<50	30	50	N
HE347C3	1,000	<2	N	N	20	100	100	50	N	<50	30	1,000	N
HE348C3	300	N	N	N	10	150	20	150	N	70	20	<20	N
HE349C3	500	N	N	N	<10	150	20	70	N	100	10	<20	N
HE350C3	300	N	N	N	30	20	50	200	15	100	10	<20	N
HE351C3	2,000	3	N	N	20	50	500	200	N	150	20	500	N
HE353C3	5,000	2	N	N	30	100	150	200	N	50	30	100	N
HE354C3	700	2	N	N	50	300	200	1,000	N	100	70	200	N
HE355C3	700	<2	N	N	20	70	150	200	N	200	20	200	N
HE356C3	700	<2	N	N	20	150	200	100	N	50	50	500	N
HE358C3	700	<2	N	N	20	300	70	200	N	70	20	50	N
HE359C3	500	<2	N	N	20	300	70	1,000	N	50	20	30	N
HE360C3	1,000	N	N	N	10	150	300	700	N	<50	20	10,000	N
HE361C3	300	<2	N	N	30	700	100	500	N	100	50	100	N
HE362C3	500	<2	N	N	10	200	70	300	N	50	20	50	N
HE363C3	500	N	N	N	<10	300	70	300	N	<50	20	<20	N
HE364C3	1,000	N	N	N	10	700	50	200	N	<50	50	20	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	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
HE318C3	<10	N	200	200	N	20	N	50	N
HE319C3	<10	N	300	200	N	100	N	1,000	N
HE320C3	<10	N	500	200	N	100	N	1,000	N
HE321C3	N	N	500	200	N	20	N	50	N
HE322C3	N	N	700	200	N	20	N	50	N
HE323C3	10	N	700	200	N	100	N	>1,000	N
HE324C3	20	N	700	200	N	30	N	150	N
HE325C3	30	N	700	500	N	50	N	150	N
HE326C3	30	N	500	200	N	50	N	150	N
HE327C3	50	N	500	300	N	50	N	150	N
HE328C3	20	N	500	200	N	20	N	100	N
HE329C3	20	N	300	300	N	20	N	100	N
HE330C3	20	N	1,500	200	700	70	N	500	N
HE331C3	50	N	2,000	150	N	70	N	1,000	N
HE332C3	20	N	1,000	200	N	30	N	100	N
HE333C3	20	N	200	300	N	20	N	50	N
HE334C3	15	N	200	200	N	20	N	50	N
HE335C3	10	N	700	200	N	100	N	100	N
HE336C3	10	N	<200	150	N	10	N	20	N
HE337C3	10	N	<200	200	N	10	N	20	N
HE338C3	10	N	300	200	N	10	N	30	N
HE339C3	10	N	300	200	N	20	N	100	N
HE340C3	50	N	1,000	300	300	200	N	1,000	N
HE341C3	30	N	1,000	300	N	70	N	>1,000	N
HE342C3	10	N	300	200	N	100	N	>1,000	N
HE343C3	10	N	3,000	200	N	200	N	1,000	N
HE344C3	10	N	700	200	1,000	150	N	>1,000	N
HE345C3	10	N	700	200	<100	50	N	200	N
HE346C3	10	N	1,000	200	100	150	N	>1,000	N
HE347C3	10	N	1,000	200	N	200	N	700	N
HE348C3	10	N	300	150	200	200	N	>1,000	N
HE349C3	<10	500	200	150	N	100	N	>1,000	N
HE350C3	10	30	200	150	300	500	N	>1,000	N
HE351C3	10	300	200	100	<100	1,000	700	>1,000	N
HE353C3	100	20	200	150	<100	100	N	1,000	N
HE354C3	100	150	200	200	100	300	N	>1,000	500
HE355C3	100	150	200	150	100	500	N	>1,000	N
HE356C3	100	N	300	150	1,000	300	N	>1,000	N
HE358C3	20	150	500	200	<100	200	N	>1,000	N
HE359C3	100	20	300	200	N	200	N	>1,000	N
HE360C3	100	>1,000	200	500	150	300	N	>1,000	N
HE361C3	70	50	200	200	<100	200	N	>1,000	N
HE362C3	20	<20	200	200	N	200	N	>1,000	N
HE363C3	100	50	200	200	N	500	N	>1,000	N
HE364C3	20	30	500	200	N	200	N	>1,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy 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
HE365C3	63 2 0	148 12 0	2.0	1.50	5.00	>1.00	1,500	N	N	N	200
HE366C3	63 3 55	148 9 10	5.0	2.00	5.00	>1.00	2,000	N	N	N	20
HE367C3	63 3 35	148 7 0	2.0	1.50	10.00	>1.00	1,000	20.0	N	20	100
HE368C3	63 3 45	148 6 40	2.0	1.50	5.00	>1.00	1,000	N	N	N	200
HE369C3	63 4 50	148 4 35	1.0	.50	5.00	>1.00	700	N	N	N	200
HE370C3	63 6 50	147 26 0	1.0	1.00	5.00	>1.00	700	N	N	N	200
HE371C3	63 6 45	147 14 30	3.0	1.50	7.00	.20	1,000	N	N	N	50
HE372C3	63 6 45	147 12 25	1.5	.70	7.00	.15	700	N	N	N	20
HE373C3	63 6 10	147 9 25	3.0	2.00	5.00	.50	1,000	N	N	N	200
HE374C3	63 7 15	147 8 55	3.0	1.00	5.00	.50	700	N	N	N	20
HE375C3	63 9 25	147 27 30	2.0	.50	3.00	>1.00	700	N	500	N	150
HE376C3	63 10 10	147 25 40	2.0	.50	7.00	>1.00	700	2.0	N	N	200
HE377C3	63 10 30	147 24 10	3.0	.70	3.00	>1.00	1,000	N	N	N	100
HE378C3	63 0 20	147 36 45	3.0	1.00	7.00	.50	700	N	N	N	30
HE379C3	63 3 25	147 35 40	2.0	1.00	7.00	>1.00	1,000	N	N	N	100
HE380C3	63 6 15	147 34 30	2.0	1.00	10.00	>1.00	1,000	N	N	N	200
HE381C3	63 0 10	149 50 30	1.0	5.00	2.00	.50	1,000	N	N	N	200
HE382C3	63 1 55	149 51 5	10.0	2.00	5.00	.50	1,000	N	N	N	200
HE383C3	63 3 55	149 43 25	7.0	1.50	3.00	>1.00	>5,000	N	N	N	100
HE384C3	63 6 25	149 51 25	20.0	.30	1.50	1.00	500	15.0	700	N	100
HE385C3	63 6 55	149 53 30	>20.0	.20	1.50	1.00	500	700.0	>10,000	>500	100
HE386C3	63 8 45	149 47 45	10.0	.70	3.00	>1.00	1,000	2.0	<500	N	150
HE387C3	63 8 50	149 47 30	10.0	.10	.70	.15	500	N	N	N	50
HE388C3	63 7 15	149 48 55	5.0	.10	.70	.50	500	3.0	N	N	50
HE389C3	63 9 25	149 54 40	20.0	.30	2.00	.70	1,500	50.0	>10,000	30	200
HE390C3	63 9 30	149 54 15	20.0	.30	2.00	.50	2,000	10.0	10,000	N	500
HE391C3	63 8 55	149 51 50	7.0	.30	1.00	1.00	1,000	30.0	>10,000	20	500
HE392C3	63 8 50	149 54 10	10.0	2.00	3.00	1.00	2,000	1.0	1,000	N	50
HE393C3	63 2 10	149 56 15	10.0	2.00	3.00	1.00	2,000	5.0	N	N	50
HE394C3	63 2 30	149 57 0	15.0	1.50	3.00	>1.00	1,000	5.0	500	N	70
HE395C3	63 1 40	149 56 35	5.0	2.00	3.00	>1.00	1,000	N	N	N	20
HE396C3	63 0 40	149 54 0	5.0	.50	3.00	>1.00	1,000	N	5,000	N	100
HE397C3	63 3 45	149 52 15	20.0	1.50	3.00	1.00	700	15.0	>10,000	<20	70
HE398C3	63 3 10	149 49 20	5.0	1.50	7.00	1.00	1,000	1.0	<500	N	100
HE399C3	63 5 55	149 36 20	>20.0	1.00	2.00	.70	1,500	15.0	1,500	N	100
HE400C3	63 21 0	149 11 35	1.5	.50	1.00	.15	2,000	N	N	N	20
HE401C3	63 6 10	149 41 30	7.0	3.00	5.00	.30	2,000	N	N	N	50
HE402C3	63 8 10	149 42 0	7.0	2.00	2.00	.70	1,000	N	N	N	200
HE403C3	63 9 25	149 43 0	20.0	1.50	2.00	1.00	1,000	N	N	N	500
HE404C3	63 9 40	149 42 45	2.0	.30	1.00	.30	300	N	N	N	20
HE405C3	63 10 0	149 44 10	10.0	<.05	.50	.10	200	5.0	10,000	N	20
HE406C3	63 11 0	149 47 15	20.0	.20	.70	.50	300	7.0	3,000	N	50
HE407C3	63 10 55	149 47 25	10.0	.10	.50	.20	300	7.0	1,000	N	30
HE408C3	63 8 55	149 37 45	5.0	1.00	2.00	.50	500	10.0	5,000	N	30
HE409C3	63 8 50	149 37 20	5.0	2.00	7.00	.50	1,500	5.0	<500	N	100

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Ba-ppm s	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	Sb-ppm s
HE365C3	1,500	N	N	N	10	700	20	200	N	<50	30	30	N
HE366C3	500	N	N	N	30	300	20	700	N	<50	50	<20	N
HE367C3	1,000	<2	N	N	10	300	50	200	N	50	50	20	N
HE368C3	1,000	N	N	N	20	200	30	100	N	<50	30	<20	N
HE369C3	700	N	N	N	<10	150	20	100	N	<50	20	<20	N
HE370C3	500	N	N	N	<10	300	70	150	N	50	30	<20	N
HE371C3	300	N	N	N	30	500	70	100	N	<50	100	<20	N
HE372C3	300	N	N	N	20	150	30	50	N	<50	50	<20	N
HE373C3	5,000	N	N	N	30	1,500	70	50	N	<50	150	70	N
HE374C3	300	N	N	N	20	300	300	50	N	<50	50	20	N
HE375C3	700	<2	N	N	15	100	100	100	N	<50	50	30	N
HE376C3	500	N	N	N	20	100	200	50	N	50	50	50	N
HE377C3	500	<2	N	N	20	100	300	50	N	<50	20	50	N
HE378C3	700	N	N	N	20	100	70	50	N	<50	30	<20	N
HE379C3	700	N	N	N	10	300	20	100	N	50	20	30	N
HE380C3	700	<2	N	N	<10	500	20	70	N	<50	20	20	N
HE381C3	2,000	2	N	N	20	500	30	50	N	<50	300	30	N
HE382C3	1,500	<2	N	N	30	1,500	1,000	70	N	<50	300	30	N
HE383C3	>5,000	N	N	N	50	1,000	200	200	N	<50	150	50	N
HE384C3	>5,000	<2	N	N	100	300	2,000	100	N	N	200	5,000	500
HE385C3	5,000	N	N	N	100	500	3,000	50	N	N	500	5,000	2,000
HE386C3	>5,000	<2	N	N	50	100	1,500	50	N	N	100	150	<200
HE387C3	>5,000	<2	N	N	20	20	200	50	20	N	100	50	N
HE388C3	>5,000	<2	N	N	10	50	2,000	50	N	N	70	50	N
HE389C3	>5,000	<2	N	N	100	1,500	2,000	100	N	<50	500	500	N
HE390C3	>5,000	2	N	N	100	1,000	2,000	100	N	50	500	500	N
HE391C3	>5,000	5	50	N	70	70	5,000	70	N	<50	70	7,000	<200
HE392C3	1,500	<2	N	N	50	1,500	1,500	50	N	<50	200	100	N
HE393C3	2,000	<2	N	N	70	2,000	500	50	N	<50	500	70	N
HE394C3	>5,000	<2	N	N	70	200	1,000	50	<10	50	500	500	N
HE395C3	>5,000	N	N	N	50	1,500	300	50	N	<50	100	70	N
HE396C3	>5,000	<2	N	N	30	500	150	50	N	<50	70	70	N
HE397C3	>5,000	<2	N	N	100	1,500	5,000	50	N	<50	200	2,000	N
HE398C3	>5,000	N	20	N	30	700	500	50	N	<50	150	50	N
HE399C3	>5,000	<2	N	N	70	1,000	1,500	50	N	<50	300	300	N
HE400C3	>5,000	<2	N	N	30	500	200	50	N	<50	70	100	200
HE401C3	>5,000	<2	N	N	70	2,000	100	50	<10	<50	200	50	N
HE402C3	5,000	N	N	N	50	1,500	100	50	N	<50	100	50	N
HE403C3	>5,000	<2	N	N	70	1,500	3,000	50	N	<50	200	70	N
HE404C3	>5,000	N	N	N	30	500	1,000	100	N	<50	50	50	N
HE405C3	>5,000	N	N	N	50	10	700	50	N	<50	70	200	N
HE406C3	>5,000	<2	N	N	70	20	700	50	N	<50	200	150	N
HE407C3	>5,000	N	N	N	50	30	1,500	<50	N	<50	100	500	N
HE408C3	>5,000	N	N	N	50	700	700	50	N	<50	100	200	N
HE409C3	1,500	<2	N	N	30	2,000	500	50	N	<50	100	100	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	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
HE365C3	20	50	700	200	N	200	N	>1,000	<200
HE366C3	70	N	300	200	N	300	N	>1,000	N
HE367C3	20	N	700	200	100	200	N	>1,000	N
HE368C3	10	N	700	300	100	200	N	>1,000	N
HE369C3	10	N	700	200	<100	300	N	>1,000	N
HE370C3	10	N	500	200	100	200	N	>1,000	N
HE371C3	15	N	700	200	N	20	N	200	N
HE372C3	10	N	700	200	N	10	N	100	N
HE373C3	10	N	500	200	N	20	N	150	N
HE374C3	10	N	200	200	N	20	N	150	N
HE375C3	10	N	1,000	200	N	200	N	>1,000	N
HE376C3	10	N	300	150	N	300	N	>1,000	N
HE377C3	10	N	1,000	200	N	200	N	>1,000	N
HE378C3	10	N	300	200	N	50	N	>1,000	N
HE379C3	10	100	1,000	200	<100	200	N	>1,000	N
HE380C3	10	200	1,000	500	N	100	N	>1,000	N
HE381C3	10	>1,000	300	100	500	30	N	1,000	N
HE382C3	10	700	300	200	N	50	N	150	N
HE383C3	70	150	700	200	N	150	N	300	N
HE384C3	N	50	1,000	200	100	50	1,500	200	N
HE385C3	10	100	500	100	N	100	500	>1,000	N
HE386C3	20	N	700	200	N	70	700	200	N
HE387C3	N	N	2,000	70	N	50	2,000	150	N
HE388C3	N	N	2,000	100	N	30	1,000	200	N
HE389C3	15	>1,000	500	100	100	200	500	>1,000	N
HE390C3	<10	>1,000	500	100	1,000	200	2,000	>1,000	N
HE391C3	10	>1,000	1,000	150	100	70	1,000	100	N
HE392C3	100	N	500	300	1,000	70	500	200	N
HE393C3	30	N	700	200	N	70	<500	300	N
HE394C3	30	N	1,000	200	N	150	<500	300	N
HE395C3	50	N	700	300	N	100	N	500	N
HE396C3	30	200	700	200	N	200	N	>1,000	1,000
HE397C3	20	N	700	200	500	50	N	200	N
HE398C3	20	100	200	300	N	30	N	300	N
HE399C3	20	200	700	150	100	50	500	500	N
HE400C3	N	N	1,500	100	N	30	N	500	N
HE401C3	100	N	1,000	200	N	30	700	150	N
HE402C3	50	N	200	200	N	30	N	1,000	N
HE403C3	50	N	300	300	N	50	N	500	N
HE404C3	N	N	700	100	N	20	N	200	N
HE405C3	N	200	1,000	30	N	10	1,500	100	N
HE406C3	N	300	1,000	100	N	50	2,000	200	N
HE407C3	N	300	1,000	50	N	30	1,000	150	N
HE408C3	10	<20	500	150	N	30	2,000	150	N
HE409C3	70	N	700	200	N	100	1,000	150	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy 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
HE410C3	63 7 50	149 38 45	10.0	.30	5.00	.50	1,000	5.0	N	N	100
HE411C3	63 11 35	149 39 30	10.0	2.00	3.00	.70	1,000	2.0	<500	N	100
HE412C3	63 11 50	149 39 40	1.0	<.05	1.00	.20	200	N	1,000	N	<20
HE413C3	63 11 45	149 39 50	20.0	.20	.50	.20	1,500	5.0	N	N	20
HE414C3	63 11 35	149 43 40	5.0	.30	3.00	>1.00	1,500	N	N	N	150
HE415C3	63 11 30	149 43 15	7.0	1.00	3.00	>1.00	1,000	N	N	N	700
HE416C3	63 13 10	149 44 30	5.0	.30	2.00	.15	1,500	N	N	N	150
HE417C3	63 14 30	149 41 25	5.0	.20	2.00	.15	5,000	1.5	N	N	50
HE418C3	63 14 35	149 41 40	10.0	.30	3.00	>1.00	2,000	2.0	<500	N	100
HE419C3	63 14 5	149 40 35	3.0	.10	2.00	.50	1,000	N	N	N	20
HE420C3	63 14 0	149 40 0	10.0	.20	2.00	.50	300	5.0	2,000	N	100
HE421C3	63 25 0	148 52 35	1.0	.70	2.00	>1.00	500	N	N	N	200
HE422C3	63 27 45	148 48 5	2.0	.50	2.00	>1.00	700	N	N	N	200
HE423C3	63 52 5	148 27 45	20.0	.10	1.00	>1.00	200	5.0	1,000	N	50
HE424C3	63 52 15	148 28 5	20.0	.10	2.00	>1.00	200	5.0	N	N	50
HE425C3	63 52 30	148 30 35	>20.0	.05	2.00	>1.00	100	20.0	N	N	50
HE426C3	63 52 10	148 31 10	>20.0	.10	2.00	>1.00	500	3.0	N	N	50
HE427C3	63 52 45	148 32 40	>20.0	.10	2.00	>1.00	300	15.0	N	N	50
HE428C3	63 50 30	148 35 10	>20.0	.10	2.00	>1.00	300	5.0	N	N	50
HE429C3	63 49 45	148 34 25	>20.0	.05	.50	.50	100	3.0	N	N	30
HE430C3	63 49 50	148 34 0	20.0	.10	3.00	>1.00	300	7.0	N	N	50
HE431C3	63 52 0	148 42 15	>20.0	.05	1.00	>1.00	200	5.0	N	N	50
HE432C3	63 50 40	148 41 20	>20.0	.20	2.00	>1.00	300	7.0	N	N	50
HE433C3	63 50 50	148 41 35	>20.0	<.05	.50	.50	50	2.0	N	N	30
HE434C3	63 50 0	148 46 10	10.0	.15	2.00	>1.00	500	N	N	N	50
HE435C3	63 51 10	148 48 0	>20.0	.07	.70	>1.00	200	3.0	N	N	30
HE436C3	63 51 45	148 47 55	1.5	.30	3.00	>1.00	500	N	N	N	70
HE437C3	63 50 15	148 52 45	>20.0	.10	2.00	>1.00	200	5.0	N	N	50
HE438C3	63 49 50	148 55 40	1.5	.10	3.00	>1.00	150	N	N	N	100
HE439C3	63 54 45	148 36 20	>20.0	<.05	1.00	.50	150	5.0	N	N	50
HE440C3	63 56 35	148 37 40	1.5	.30	3.00	>1.00	2,000	100.0	N	>500	100
HE441C3	63 55 30	148 39 0	2.0	.20	2.00	>1.00	700	N	N	N	500
HE442C3	63 55 20	148 41 50	1.0	.20	2.00	>1.00	500	N	N	N	100
HE443C3	63 55 15	148 41 45	2.0	.20	2.00	>1.00	700	N	N	N	300
HE444C3	63 55 25	148 43 35	1.5	.20	3.00	>1.00	500	N	N	N	200
HE445C3	63 55 35	148 45 15	1.5	.30	3.00	>1.00	500	N	N	N	150
HE446C3	63 55 25	148 47 20	3.0	.20	2.00	>1.00	700	N	N	N	200
HE447C3	63 55 20	148 49 40	2.0	1.00	3.00	>1.00	700	N	N	N	70
HE448C3	63 55 0	148 50 0	1.5	.10	2.00	>1.00	300	N	N	N	100
HE449C3	63 55 20	148 50 40	1.0	.20	3.00	>1.00	500	N	N	N	200
HE450C3	63 55 0	148 52 20	2.0	.30	3.00	>1.00	700	N	N	N	200
HE451C3	63 54 40	148 53 45	1.0	.20	2.00	>1.00	500	70.0	N	N	200
HE452C3	63 52 35	149 52 15	1.5	.20	.70	>1.00	300	70.0	N	100	50
HE453C3	63 53 5	149 48 15	20.0	<.05	.10	.50	100	7.0	N	200	<20
HE454C3	63 54 15	149 50 5	1.0	.20	.70	>1.00	500	N	N	N	20

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Ba-ppm s	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	Sb-ppm s
HE410C3	1,000	2	N	N	20	500	500	100	N	<50	70	100	N
HE411C3	>5,000	<2	N	N	70	1,500	700	50	N	<50	100	100	N
HE412C3	>5,000	N	N	N	10	100	30	50	N	<50	10	20	N
HE413C3	>5,000	N	N	N	200	700	1,000	50	N	<50	200	500	N
HE414C3	>5,000	<2	N	N	50	300	300	70	N	<50	100	50	N
HE415C3	>5,000	2	N	N	50	300	200	50	N	<50	100	50	N
HE416C3	>5,000	<2	N	N	50	50	200	50	N	<50	100	70	N
HE417C3	>5,000	<2	N	N	50	30	300	50	N	<50	150	70	N
HE418C3	>5,000	<2	N	N	70	70	1,000	70	N	<50	200	70	N
HE419C3	>5,000	<2	N	N	20	30	70	50	N	<50	70	30	N
HE420C3	>5,000	<2	N	N	30	200	200	50	N	<50	50	200	N
HE421C3	>5,000	N	N	N	<10	500	20	100	N	<50	20	50	N
HE422C3	2,000	N	N	N	10	1,500	200	200	N	<50	20	20	N
HE423C3	>5,000	N	N	N	200	50	1,000	200	N	<50	300	3,000	N
HE424C3	1,000	<2	N	N	200	70	300	70	N	50	500	1,000	N
HE425C3	>5,000	2	20	N	200	70	150	150	N	<50	200	10,000	N
HE426C3	1,500	<2	N	N	300	50	1,000	100	N	<50	1,000	1,000	N
HE427C3	>5,000	<2	<20	N	300	50	300	100	N	<50	700	5,000	N
HE428C3	1,000	<2	N	N	300	50	700	150	N	<50	700	700	N
HE429C3	700	N	N	N	200	20	300	70	N	<50	700	500	N
HE430C3	700	N	N	N	200	50	500	70	N	<50	1,000	2,000	N
HE431C3	1,500	N	N	N	300	50	700	50	N	<50	500	500	N
HE432C3	1,500	N	N	N	300	100	700	50	N	<50	1,000	1,500	N
HE433C3	500	N	N	N	300	N	1,000	50	N	<50	1,000	300	N
HE434C3	700	<2	N	N	100	70	300	100	N	50	300	300	N
HE435C3	700	N	N	N	300	50	700	50	N	<50	1,000	300	N
HE436C3	>5,000	N	N	N	10	200	50	70	N	<50	20	<20	N
HE437C3	1,000	N	N	N	300	50	1,000	100	N	<50	1,500	1,000	N
HE438C3	500	N	N	N	50	200	100	150	N	<50	50	50	N
HE439C3	5,000	N	N	N	200	30	700	150	N	<50	500	1,500	N
HE440C3	5,000	N	N	N	10	1,500	50	200	N	<50	20	50	N
HE441C3	700	N	N	N	10	1,500	30	300	N	50	20	50	N
HE442C3	2,000	N	N	N	10	700	20	150	N	50	20	30	N
HE443C3	1,000	N	N	N	10	1,500	20	300	N	50	20	20	N
HE444C3	700	N	N	N	10	300	20	150	N	50	20	20	N
HE445C3	700	N	N	N	10	150	15	100	N	50	20	20	N
HE446C3	5,000	N	N	N	30	500	100	200	N	50	50	70	N
HE447C3	1,000	N	N	N	20	200	70	50	N	<50	30	50	N
HE448C3	2,000	<2	N	N	70	70	500	200	N	<50	200	300	N
HE449C3	1,000	N	N	N	<10	1,000	20	200	N	50	15	20	N
HE450C3	1,500	N	N	N	<10	2,000	30	300	N	50	20	20	N
HE451C3	1,500	N	N	N	<10	300	50	150	N	50	20	50	N
HE452C3	>5,000	N	N	N	50	300	700	>1,000	N	200	700	100	N
HE453C3	2,000	20	N	N	200	N	300	100	20	50	500	<20	N
HE454C3	700	<2	N	N	20	150	50	1,000	N	200	20	70	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	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
HE410C3	30	N	1,000	200	100	200	500	500	N
HE411C3	30	50	200	200	700	30	N	>1,000	N
HE412C3	N	N	3,000	50	N	20	N	200	N
HE413C3	N	300	200	50	N	N	<500	100	N
HE414C3	20	N	1,000	200	N	100	N	150	N
HE415C3	20	N	500	200	N	50	<500	150	N
HE416C3	N	N	>5,000	100	N	100	<500	100	N
HE417C3	N	N	2,000	100	N	70	1,500	150	N
HE418C3	10	N	1,500	150	N	200	1,000	200	N
HE419C3	N	N	5,000	50	N	50	1,500	150	N
HE420C3	N	500	1,000	150	100	100	2,000	500	N
HE421C3	10	>1,000	700	150	200	100	N	>1,000	N
HE422C3	20	>1,000	500	200	100	200	N	>1,000	N
HE423C3	10	N	300	70	N	500	N	>1,000	N
HE424C3	N	N	200	50	N	100	N	>1,000	N
HE425C3	20	N	200	20	N	500	N	>1,000	N
HE426C3	N	N	200	50	N	70	N	>1,000	N
HE427C3	N	N	200	30	N	300	N	>1,000	N
HE428C3	N	N	200	30	N	150	N	>1,000	N
HE429C3	N	N	<200	20	N	30	N	700	N
HE430C3	N	N	<200	30	N	100	N	>1,000	N
HE431C3	N	N	<200	30	N	30	2,000	700	N
HE432C3	N	N	200	50	N	150	500	>1,000	N
HE433C3	N	N	<200	20	N	30	<500	700	N
HE434C3	N	N	200	50	N	100	1,000	>1,000	N
HE435C3	N	N	<200	50	N	50	500	1,000	N
HE436C3	N	150	700	200	N	100	N	>1,000	N
HE437C3	N	N	200	50	N	100	N	>1,000	N
HE438C3	20	50	N	50	N	300	N	>1,000	N
HE439C3	N	N	200	20	N	150	N	>1,000	N
HE440C3	20	200	500	150	N	300	N	>1,000	N
HE441C3	20	200	200	200	N	200	N	>1,000	N
HE442C3	10	200	300	150	N	200	N	>1,000	N
HE443C3	20	700	200	150	N	200	N	>1,000	N
HE444C3	N	150	300	150	N	200	N	>1,000	N
HE445C3	10	300	200	150	N	200	N	>1,000	N
HE446C3	20	1,000	1,000	150	<100	500	<500	>1,000	N
HE447C3	N	N	700	150	N	50	N	>1,000	N
HE448C3	10	150	700	70	N	500	N	>1,000	N
HE449C3	10	200	200	150	N	200	N	>1,000	N
HE450C3	20	>1,000	200	200	N	300	N	>1,000	N
HE451C3	N	700	200	150	N	200	N	>1,000	N
HE452C3	50	N	N	100	100	500	N	>1,000	200
HE453C3	N	N	N	30	N	200	N	>1,000	N
HE454C3	20	30	<200	100	<100	500	N	>1,000	200

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	Au-ppm	B-ppm
			s	s	s	s	s	s	s	s	s
HE455C3	63 55 50	149 52 30	2.0	1.00	1.00	>1.00	300	N	N	N	200
HE456C3	63 56 0	149 55 10	2.0	.50	2.00	>1.00	700	N	N	N	500
HE457C3	63 56 0	149 57 55	.5	N	<.10	>1.00	N	N	N	N	<20
HE458C3	63 57 0	149 51 15	2.0	.30	.70	>1.00	500	N	N	N	200
HE459C3	63 58 15	149 50 45	2.0	.50	3.00	>1.00	700	N	N	N	150
HE460C3	63 57 50	149 45 15	5.0	1.00	2.00	>1.00	700	N	N	N	500
HE461C3	63 56 50	149 45 45	2.0	.70	.70	>1.00	1,000	N	N	N	300
HE462C3	63 56 40	149 40 35	3.0	.50	.70	>1.00	700	N	N	N	500
HE463C3	63 57 45	149 39 50	5.0	.20	1.00	>1.00	500	N	N	N	1,000
HE465C3	63 58 30	149 37 35	7.0	.05	2.00	>1.00	70	N	N	N	200
HE466C3	63 59 5	149 33 35	10.0	<.05	.70	>1.00	300	N	N	N	150
HE467C3	63 58 50	149 24 30	.7	.10	.50	.15	700	N	N	N	20
HE468C3	63 59 0	149 24 20	2.0	.10	1.00	.15	300	N	N	N	20
HE469C3	63 59 35	149 27 15	1.0	.30	1.00	.70	700	N	N	N	100
HE470C3	63 55 55	149 23 15	2.0	.20	2.00	>1.00	500	N	N	N	100
HE471C3	63 56 15	149 26 30	7.0	.20	2.00	>1.00	700	10.0	N	N	100
HE472C3	63 56 35	149 29 35	7.0	.20	2.00	>1.00	500	N	N	N	70
HE473C3	63 56 0	149 30 50	15.0	.05	1.00	>1.00	200	2.0	N	N	50
HE474C3	63 54 15	149 34 40	3.0	.05	2.00	>1.00	300	N	N	N	30
HE475C3	63 53 40	149 38 10	2.0	.05	3.00	>1.00	500	N	N	N	50
HE476C3	63 53 10	149 41 50	2.0	.05	3.00	>1.00	500	N	N	N	50
HE478C3	63 49 55	149 35 45	5.0	2.00	5.00	>1.00	2,000	N	N	N	50
HE480C3	63 22 35	147 57 0	2.0	1.50	3.00	>1.00	700	N	N	N	200
HE481C3	63 23 10	147 53 50	2.0	.50	3.00	>1.00	500	N	N	N	500
HE482C3	63 24 20	147 51 40	2.0	1.00	5.00	1.00	500	N	N	N	500
HE483C3	63 24 50	147 55 55	2.0	1.50	5.00	>1.00	500	N	N	N	500
HE484C3	63 26 30	147 54 10	2.0	1.00	10.00	>1.00	500	N	N	N	500
HE485C3	63 26 15	147 48 45	3.0	5.00	1.00	>1.00	1,000	N	N	N	500
HE486C3	63 27 35	147 51 50	<.1	<.05	3.00	.15	N	N	N	N	<20
HE487C3	63 29 20	147 48 50	5.0	.50	<.10	>1.00	1,500	N	500	N	50
HE488C3	63 31 45	147 40 0	<.1	N	1.00	.10	N	N	N	N	N
HE489C3	63 31 50	147 39 10	5.0	2.00	3.00	>1.00	1,000	N	5,000	N	200
HE490C3	63 30 35	147 41 10	2.0	.30	3.00	1.00	1,500	N	N	N	1,000
HE491C3	63 29 35	147 41 50	5.0	2.00	<.10	>1.00	700	20.0	N	N	2,000
HE492C3	63 28 15	147 46 15	.3	N	3.00	>1.00	500	N	N	N	50
HE493C3	63 26 10	147 44 20	.5	.30	2.00	>1.00	700	N	N	N	100
HE494C3	63 26 5	147 44 5	.5	.30	2.00	>1.00	500	N	N	N	200
HE495C3	63 25 10	147 45 20	.5	.50	5.00	>1.00	500	N	N	N	100
HE496C3	63 28 5	147 39 0	.5	1.50	5.00	>1.00	700	N	N	N	300
HE497C3	63 27 25	147 37 15	.5	.50	5.00	>1.00	500	N	N	N	30
HE498C3	63 27 30	147 37 15	.5	.50	5.00	>1.00	500	N	N	N	30
HE499C3	63 26 45	147 36 10	.5	.50	5.00	>1.00	500	N	N	N	50
HE500C3	63 22 40	147 43 20	.5	1.50	5.00	>1.00	500	N	N	N	2,000
HE501C3	63 22 45	147 43 0	1.5	1.50	5.00	>1.00	500	N	N	N	200
HE502C3	63 23 35	147 37 45	1.0	2.00	5.00	.70	700	N	N	N	1,000

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Ba-ppm s	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	Sb-ppm s
HE455C3	>5,000	<2	N	N	20	300	50	500	N	200	50	50	N
HE456C3	2,000	N	N	N	15	500	50	500	N	150	30	100	N
HE457C3	<50	N	N	N	<10	N	10	100	N	200	20	N	N
HE458C3	3,000	2	N	N	10	150	70	700	N	150	20	70	N
HE459C3	1,000	<2	N	N	10	150	30	200	N	50	20	70	N
HE460C3	500	<2	N	N	20	1,000	20	200	N	50	50	50	N
HE461C3	>5,000	<2	N	N	20	300	50	200	N	70	30	70	N
HE462C3	>5,000	<2	N	N	30	300	500	200	N	50	50	300	N
HE463C3	5,000	<2	N	N	20	300	70	150	N	50	30	50	N
HE465C3	N	2	N	N	50	300	150	500	N	50	70	200	N
HE466C3	N	2	N	N	100	70	200	300	N	50	200	500	N
HE467C3	N	N	N	N	10	50	50	50	N	<50	20	30	N
HE468C3	N	N	N	N	10	20	30	50	N	<50	20	<20	N
HE469C3	N	N	N	N	10	200	30	100	N	<50	20	50	N
HE470C3	N	<2	N	N	20	70	50	100	N	50	30	30	N
HE471C3	N	N	N	N	50	100	700	300	N	50	70	7,000	N
HE472C3	N	2	N	N	30	100	100	300	N	100	70	200	N
HE473C3	N	<2	N	N	100	50	700	500	N	70	500	700	N
HE474C3	N	N	N	N	30	50	300	500	N	50	100	100	N
HE475C3	N	<2	N	N	15	70	50	1,000	N	50	30	100	N
HE476C3	N	N	N	N	50	150	300	1,000	N	50	50	70	N
HE478C3	1,500	N	N	N	30	1,000	100	70	N	<50	70	50	N
HE480C3	1,000	N	N	N	10	700	20	70	N	50	20	20	N
HE481C3	700	N	N	N	100	500	70	70	N	<50	50	N	N
HE482C3	700	N	N	N	100	300	100	100	N	<50	30	<20	N
HE483C3	500	N	N	N	150	200	20	150	N	<50	50	<20	N
HE484C3	500	N	N	N	200	200	20	150	N	<50	30	<20	N
HE485C3	5,000	N	N	N	200	1,500	100	200	N	<50	50	<20	N
HE486C3	<50	N	N	N	50	100	N	50	N	<50	20	N	N
HE487C3	700	N	N	N	700	200	100	500	N	<50	20	70	N
HE488C3	<50	N	N	N	50	<20	N	50	N	<50	<10	N	N
HE489C3	2,000	N	150	N	700	300	700	700	N	<50	200	100	N
HE490C3	700	<2	N	N	50	150	70	70	N	<50	30	<20	N
HE491C3	>5,000	100	N	N	200	1,000	100	200	N	<50	200	500	N
HE492C3	100	N	N	N	50	<20	<10	50	N	<50	20	N	N
HE493C3	700	N	N	N	<10	70	150	50	N	<50	20	100	N
HE494C3	>5,000	N	N	N	<10	100	300	50	N	<50	30	<20	N
HE495C3	>5,000	N	N	N	<10	100	300	50	N	<50	30	N	N
HE496C3	>5,000	N	N	N	50	300	200	50	N	<50	20	<20	N
HE497C3	500	N	N	N	<10	100	200	50	N	<50	20	70	N
HE498C3	500	N	N	N	50	100	200	50	N	<50	50	<20	N
HE499C3	500	N	N	N	50	100	150	50	N	<50	50	N	N
HE500C3	700	N	N	N	100	100	70	150	N	<50	30	N	N
HE501C3	700	N	N	N	50	1,000	70	50	N	<50	30	N	N
HE502C3	1,000	N	N	N	100	1,000	50	150	N	<50	30	N	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	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
HE455C3	20	70	300	150	<100	200	N	>1,000	<200
HE456C3	50	50	300	150	<100	300	N	>1,000	<200
HE457C3	10	N	N	70	N	50	N	>1,000	N
HE458C3	10	50	500	200	<100	500	N	>1,000	N
HE459C3	10	50	700	200	N	200	N	>1,000	N
HE460C3	20	70	200	200	N	200	N	>1,000	N
HE461C3	10	70	700	150	N	200	N	>1,000	N
HE462C3	20	50	300	150	N	200	N	>1,000	N
HE463C3	10	50	<200	200	N	200	N	>1,000	N
HE465C3	100	N	700	150	100	700	N	>1,000	N
HE466C3	20	N	500	70	100	300	N	>1,000	N
HE467C3	N	N	700	30	<100	30	N	1,000	N
HE468C3	N	50	500	50	1,000	<20	N	300	N
HE469C3	N	200	1,000	70	<100	70	N	>1,000	N
HE470C3	N	100	500	150	<100	70	N	>1,000	N
HE471C3	10	N	1,000	100	<100	200	1,500	>1,000	N
HE472C3	10	70	700	150	<100	300	1,000	>1,000	N
HE473C3	N	N	1,000	50	<100	300	1,000	>1,000	N
HE474C3	N	20	1,000	70	<100	200	N	>1,000	N
HE475C3	10	N	1,000	150	<100	300	N	>1,000	N
HE476C3	20	N	1,000	200	<100	500	N	>1,000	N
HE478C3	50	500	500	300	N	70	N	>1,000	N
HE480C3	20	N	200	200	N	300	N	>1,000	N
HE481C3	10	N	300	200	300	300	N	>1,000	700
HE482C3	15	N	200	200	100	300	N	>1,000	700
HE483C3	20	500	300	200	200	500	N	>1,000	700
HE484C3	20	300	200	150	100	300	N	>1,000	500
HE485C3	50	20	500	500	100	500	N	>1,000	2,000
HE486C3	N	N	N	100	N	<20	N	>1,000	N
HE487C3	100	500	200	<20	N	1,000	N	>1,000	>2,000
HE488C3	N	N	N	<20	N	30	N	>1,000	>2,000
HE489C3	100	100	200	20	100	1,000	N	>1,000	>2,000
HE490C3	N	N	700	200	1,000	70	N	1,000	N
HE491C3	N	N	500	200	2,000	500	N	>1,000	N
HE492C3	N	N	N	150	200	70	N	>1,000	N
HE493C3	10	N	300	300	<100	70	N	>1,000	N
HE494C3	10	N	300	300	<100	50	N	1,000	N
HE495C3	10	N	200	300	<100	100	N	700	N
HE496C3	10	N	300	300	100	100	N	>1,000	N
HE497C3	10	N	200	300	200	50	N	1,000	N
HE498C3	10	N	200	300	<100	50	N	700	N
HE499C3	10	N	200	300	<100	50	N	>1,000	N
HE500C3	10	N	300	300	N	100	N	>1,000	N
HE501C3	10	N	200	300	N	70	N	>1,000	N
HE502C3	10	N	300	300	N	50	N	1,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy 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
HE503C3	63 16 15	147 55 5	1.0	1.50	5.00	>1.00	500	N	N	N	100
HE504C3	63 16 10	148 1 50	2.0	1.50	5.00	>1.00	700	N	N	N	150
HE505C3	63 13 40	148 4 45	2.0	2.00	5.00	>1.00	700	N	N	N	200
HE506C3	63 12 35	148 6 45	2.0	1.50	7.00	>1.00	2,000	N	N	N	300
HE507C3	63 10 45	148 7 25	5.0	1.00	7.00	>1.00	>5,000	N	N	N	300
HE508C3	63 9 35	148 9 5	3.0	.50	5.00	>1.00	700	N	N	N	100
HE509C3	63 8 25	148 13 55	5.0	1.00	5.00	>1.00	1,000	N	N	N	200
HE510C3	63 6 45	148 8 30	5.0	1.00	5.00	>1.00	1,000	N	N	N	200
HE511C3	63 6 10	148 2 40	3.0	.50	7.00	>1.00	1,000	N	N	N	500
HE512C3	63 8 40	148 0 45	3.0	.30	3.00	>1.00	1,000	N	3,000	N	200
HE513C3	63 11 15	147 57 30	3.0	1.00	3.00	>1.00	2,000	10.0	N	N	1,000
HE514C3	63 12 15	147 57 25	3.0	1.50	5.00	>1.00	1,500	N	N	N	1,500
HE515C3	63 12 25	147 57 10	2.0	1.00	5.00	>1.00	1,000	N	N	N	500
HE516C3	63 12 50	147 53 30	1.5	1.00	5.00	>1.00	1,000	N	N	N	200
HE517C3	63 10 50	147 42 15	2.0	1.50	3.00	>1.00	700	N	N	N	200
HE518C3	63 10 25	147 39 50	1.0	1.50	5.00	>1.00	700	N	N	N	100
HE519C3	63 8 45	147 33 0	3.0	2.00	7.00	>1.00	1,000	N	N	N	200
HE520C3	63 8 40	147 33 0	2.0	1.50	7.00	>1.00	700	N	N	N	150
HE521C3	63 7 45	147 35 15	3.0	2.00	10.00	>1.00	1,000	N	N	N	150
HE522C3	63 19 50	148 18 55	2.0	.50	5.00	>1.00	700	N	N	N	150
HE523C3	63 19 10	148 21 40	3.0	1.50	5.00	>1.00	1,000	N	N	N	200
HE524C3	63 19 20	148 26 50	7.0	1.00	5.00	>1.00	5,000	N	N	N	200
HE525C3	63 19 10	148 27 5	2.0	1.00	7.00	>1.00	1,000	N	N	N	100
HE527C3	63 40 5	148 17 5	5.0	1.50	5.00	>1.00	1,000	N	N	N	50
HE528C3	63 43 10	148 21 20	10.0	5.00	7.00	>1.00	3,000	N	N	N	100
HE529C3	63 43 40	148 17 0	7.0	1.50	5.00	>1.00	1,500	N	N	N	100
HE530C3	63 43 40	148 12 45	7.0	2.00	5.00	>1.00	3,000	<1.0	N	N	50
HE531C3	63 43 50	148 12 35	10.0	3.00	7.00	>1.00	3,000	2.0	N	N	30
HE532C3	63 44 55	148 12 5	5.0	1.00	5.00	>1.00	1,000	N	N	N	100
HE533C3	63 44 55	148 11 35	5.0	1.50	5.00	>1.00	1,500	N	N	N	100
HE534C3	63 44 55	148 11 5	7.0	3.00	7.00	>1.00	3,000	N	N	N	100
HE535C3	63 44 45	148 16 55	2.0	.50	3.00	>1.00	700	N	N	N	200
HE536C3	63 45 0	148 16 20	3.0	.50	5.00	>1.00	700	N	N	N	100
HE537C3	63 46 10	148 15 55	3.0	.20	1.00	>1.00	200	N	N	N	200
HE538C3	63 46 50	148 13 45	5.0	.15	1.00	>1.00	200	N	N	N	150
HE539C3	63 46 45	148 13 25	5.0	1.00	3.00	>1.00	1,000	N	N	N	200
HE540C3	63 45 30	148 22 55	3.0	.30	1.00	>1.00	300	N	N	N	100
HE541C3	63 45 40	148 23 10	2.0	.50	3.00	>1.00	500	N	N	N	200
HE542C3	63 45 55	148 26 55	>20.0	.20	1.00	>1.00	200	5.0	N	N	100
HE543C3	63 47 10	148 29 15	5.0	.30	1.50	>1.00	300	N	N	N	200
HE544C3	63 47 20	148 25 20	10.0	.50	3.00	>1.00	700	N	N	N	300
HE545C3	63 48 25	148 25 20	20.0	.05	.20	1.00	100	10.0	N	N	100
HE546C3	63 48 45	148 21 50	15.0	.30	3.00	>1.00	500	2.0	N	N	200
HE547C3	63 48 25	148 20 45	5.0	.20	1.00	>1.00	500	N	N	N	200
HE548C3	63 48 15	148 20 45	5.0	.20	1.50	>1.00	300	N	N	N	200

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Ba-ppm s	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	Sb-ppm s
HE503C3	1,000	N	N	N	100	500	30	100	N	<50	30	20	N
HE504C3	700	N	N	N	10	300	20	70	N	<50	50	30	N
HE505C3	1,500	N	N	N	<10	500	30	70	N	50	50	30	N
HE506C3	700	N	N	N	<10	300	30	200	N	70	50	30	N
HE507C3	200	N	N	N	10	300	70	1,000	N	50	50	30	N
HE508C3	300	N	N	N	10	200	50	500	N	<50	30	20	N
HE509C3	700	N	N	N	15	300	70	300	N	<50	50	20	N
HE510C3	700	N	N	N	15	300	70	300	N	<50	50	20	N
HE511C3	700	N	N	N	10	300	50	300	N	<50	50	20	N
HE512C3	300	N	N	N	10	100	50	300	N	<50	50	20	N
HE513C3	200	N	>1,000	N	20	500	70	500	N	50	50	50	N
HE514C3	200	N	300	N	20	700	50	300	N	<50	50	20	N
HE515C3	700	N	70	N	15	500	30	200	N	50	50	20	N
HE516C3	700	N	20	N	10	300	30	150	N	70	30	20	N
HE517C3	700	N	N	N	10	300	30	100	N	<50	30	<20	N
HE518C3	700	N	N	N	10	300	20	150	N	50	30	<20	N
HE519C3	1,500	N	N	N	15	500	100	150	N	50	50	20	N
HE520C3	1,500	N	N	N	10	500	70	100	N	50	30	20	N
HE521C3	1,000	N	N	N	15	700	100	100	N	50	50	50	N
HE522C3	1,000	N	N	N	10	300	200	50	N	50	70	30	N
HE523C3	700	N	N	N	10	700	70	100	N	100	50	70	N
HE524C3	2,000	N	N	N	50	1,000	200	150	N	150	100	100	N
HE525C3	700	N	N	N	10	700	70	100	N	100	50	50	N
HE527C3	2,000	N	N	N	30	1,000	50	150	N	<50	70	30	N
HE528C3	1,500	N	N	N	50	2,000	100	100	N	<50	200	50	N
HE529C3	3,000	N	N	N	30	1,500	100	150	N	70	70	50	N
HE530C3	500	N	N	N	30	1,500	50	100	N	50	70	20	N
HE531C3	1,000	<2	N	N	30	2,000	50	100	N	<50	70	50	N
HE532C3	>5,000	N	N	N	30	1,000	100	100	N	70	100	50	N
HE533C3	>5,000	N	N	N	30	1,000	100	150	N	50	100	50	N
HE534C3	1,000	N	N	N	50	2,000	50	100	N	<50	100	50	N
HE535C3	>5,000	N	N	N	30	1,500	70	150	N	100	100	300	N
HE536C3	>5,000	<2	N	N	20	700	100	200	N	150	70	70	N
HE537C3	>5,000	<2	N	N	50	100	100	150	N	70	70	1,500	N
HE538C3	>5,000	<2	N	N	50	70	200	150	N	50	100	1,500	N
HE539C3	>5,000	N	N	N	30	2,000	100	50	N	50	100	50	N
HE540C3	>5,000	<2	N	N	20	1,000	100	200	N	200	50	300	N
HE541C3	>5,000	N	N	N	30	1,500	100	100	N	100	70	200	N
HE542C3	>5,000	N	N	N	150	100	200	200	N	<50	150	2,000	N
HE543C3	>5,000	N	N	N	70	150	100	200	N	50	100	1,500	N
HE544C3	>5,000	<2	N	N	100	300	200	200	N	50	100	2,000	N
HE545C3	1,000	N	N	N	300	20	200	50	N	<50	300	1,000	N
HE546C3	1,000	2	N	N	200	150	300	150	N	50	200	700	N
HE547C3	1,000	2	N	N	70	150	150	200	N	70	100	1,000	N
HE548C3	>5,000	N	N	N	100	150	200	200	N	100	150	1,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	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
HE503C3	10	N	300	200	<100	100	N	>1,000	N
HE504C3	10	N	700	200	<100	100	N	>1,000	N
HE505C3	10	N	1,000	300	150	150	N	>1,000	N
HE506C3	15	100	500	200	<100	500	N	>1,000	N
HE507C3	20	20	300	200	200	700	N	>1,000	<200
HE508C3	20	300	300	200	<100	300	N	>1,000	200
HE509C3	20	50	500	200	<100	300	N	>1,000	200
HE510C3	20	30	500	200	<100	500	N	>1,000	200
HE511C3	15	N	500	200	100	500	N	>1,000	N
HE512C3	10	20	300	150	300	300	N	>1,000	N
HE513C3	20	N	200	200	2,000	200	N	>1,000	N
HE514C3	20	N	200	200	200	300	N	>1,000	N
HE515C3	10	N	500	200	150	200	N	>1,000	N
HE516C3	10	N	1,000	300	N	150	N	>1,000	N
HE517C3	N	N	500	200	N	150	N	>1,000	N
HE518C3	10	N	1,000	200	N	200	N	>1,000	N
HE519C3	20	N	1,000	300	150	200	N	>1,000	N
HE520C3	10	N	1,000	200	N	200	N	>1,000	N
HE521C3	30	N	1,000	200	<100	200	N	>1,000	N
HE522C3	20	N	500	200	N	200	N	>1,000	N
HE523C3	50	N	700	200	<100	200	N	>1,000	N
HE524C3	50	100	1,000	200	<100	200	N	>1,000	N
HE525C3	20	70	500	200	N	200	N	>1,000	N
HE527C3	20	N	700	200	N	50	N	>1,000	N
HE528C3	>100	N	500	300	N	150	500	>1,000	N
HE529C3	50	N	500	200	N	150	N	>1,000	N
HE530C3	70	N	300	300	N	100	N	>1,000	N
HE531C3	100	N	500	300	N	150	N	1,000	N
HE532C3	50	N	700	200	<100	200	N	>1,000	N
HE533C3	50	N	1,000	200	N	200	N	>1,000	N
HE534C3	70	N	500	300	N	150	N	>1,000	N
HE535C3	30	N	2,000	150	<100	300	2,000	>1,000	N
HE536C3	30	N	700	150	<100	300	<500	>1,000	N
HE537C3	20	100	700	150	N	300	500	>1,000	N
HE538C3	10	N	500	70	N	150	<500	>1,000	N
HE539C3	30	N	1,000	100	N	300	N	>1,000	N
HE540C3	50	20	700	200	<100	500	N	>1,000	N
HE541C3	20	N	700	150	N	300	<500	>1,000	N
HE542C3	10	N	300	50	N	300	N	>1,000	N
HE543C3	30	N	500	150	N	300	<500	>1,000	N
HE544C3	50	N	700	150	<100	300	500	>1,000	N
HE545C3	N	N	N	50	N	30	<500	100	N
HE546C3	20	N	300	100	<100	200	N	>1,000	N
HE547C3	20	N	200	100	N	200	N	>1,000	N
HE548C3	30	N	500	150	N	200	N	>1,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy 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
HE549C3	63 47 5	148 32 25	20.0	.10	1.00	>1.00	200	7.0	N	N	100
HE550C3	63 45 45	148 37 5	5.0	1.50	3.00	>1.00	1,000	2.0	N	30	200
HE551C3	63 45 40	148 37 35	7.0	2.00	3.00	>1.00	2,000	N	N	N	100
HE552C3	63 46 15	148 38 45	>20.0	.30	1.00	>1.00	500	10.0	N	N	150
HE553C3	63 46 40	148 42 0	15.0	.50	2.00	>1.00	1,000	N	N	N	150
HE554C3	63 47 0	148 42 20	>20.0	<.05	.50	.30	100	7.0	N	N	100
HE555C3	63 47 25	148 42 55	20.0	.05	1.00	>1.00	200	2.0	N	N	100
HE556C3	63 47 45	148 45 20	15.0	.30	2.00	>1.00	700	N	N	N	200
HE557C3	63 48 10	148 46 40	>20.0	.05	1.00	.50	200	3.0	N	N	200
HE558C3	63 36 35	148 40 10	15.0	1.50	3.00	>1.00	5,000	N	N	N	100
HE559C3	63 35 10	148 40 40	15.0	1.50	2.00	>1.00	2,000	N	N	N	50
HE560C3	63 34 15	148 37 15	15.0	1.00	2.00	>1.00	3,000	N	N	N	150
HE561C3	63 32 20	148 39 10	3.0	.30	1.00	>1.00	500	N	N	N	300
HE562C3	63 33 5	148 34 35	5.0	.30	2.00	1.00	1,500	N	N	N	100
HE563C3	63 31 45	148 34 20	10.0	1.00	3.00	1.00	5,000	10.0	N	N	100
HE564C3	63 32 35	148 33 20	10.0	.30	2.00	>1.00	1,000	N	N	N	100
HE565C3	63 31 40	148 28 35	5.0	.50	5.00	1.00	3,000	N	N	N	50
HE566C3	63 32 30	148 26 20	15.0	.50	1.50	>1.00	1,000	1.0	N	N	150
HE567C3	63 32 45	148 26 15	7.0	.50	2.00	>1.00	1,500	N	2,000	N	200
HE568C3	63 32 45	148 16 45	15.0	.30	.50	>1.00	500	N	N	N	200
HE569C3	63 32 50	148 16 35	20.0	.30	1.00	>1.00	1,500	N	N	N	500
HE570C3	63 32 10	148 19 30	15.0	.70	1.00	>1.00	>5,000	N	N	N	500
HE571C3	63 32 50	148 20 5	5.0	1.00	2.00	>1.00	1,000	N	N	N	100
HE572C3	63 33 25	148 18 45	20.0	.50	1.00	>1.00	5,000	N	N	N	500
HE573C3	63 33 20	148 19 25	>20.0	.30	1.00	>1.00	1,000	3.0	500	N	500
HE574C3	63 35 0	148 20 20	5.0	1.00	3.00	1.00	700	N	N	N	700
HE575C3	63 34 55	148 21 10	3.0	1.00	3.00	>1.00	500	N	N	N	200
HE576C3	63 36 0	148 25 50	3.0	1.00	3.00	>1.00	700	N	N	N	100
HE577C3	63 36 15	148 24 50	5.0	3.00	5.00	1.00	1,000	N	N	N	50
HE578C3	63 36 15	148 27 20	5.0	1.00	3.00	>1.00	700	N	N	N	100
HE580C3	63 36 50	148 30 55	5.0	1.00	3.00	>1.00	700	N	N	N	200
HE581C3	63 37 5	148 32 50	5.0	2.00	5.00	>1.00	1,000	N	N	N	150
HE582C3	63 38 0	148 37 40	5.0	2.00	5.00	>1.00	1,000	N	N	N	150
HE583C3	63 39 50	148 33 10	5.0	1.50	5.00	>1.00	700	N	N	N	150
HE584C3	63 26 10	148 49 45	5.0	2.00	5.00	>1.00	1,000	N	N	N	300
HE585C3	63 26 25	148 47 40	5.0	2.00	5.00	>1.00	1,000	N	N	N	300
HE586C3	63 27 35	148 41 30	10.0	2.00	3.00	>1.00	700	N	N	N	100
HE587C3	63 27 50	148 37 10	3.0	2.00	2.00	>1.00	700	N	N	N	100
HE588C3	63 27 40	148 36 40	2.0	1.50	3.00	1.00	1,000	N	N	N	100
HE589C3	63 27 50	148 35 5	3.0	1.50	5.00	>1.00	1,000	30.0	N	N	100
HE590C3	63 25 50	148 17 45	2.0	3.00	3.00	>1.00	500	15.0	2,000	N	30
HE591C3	63 26 0	148 16 30	2.0	1.00	10.00	1.00	700	20.0	N	30	100
HE592C3	63 26 5	148 8 55	3.0	2.00	7.00	>1.00	1,000	1.0	N	N	500
HE593C3	63 21 25	148 19 35	3.0	2.00	7.00	>1.00	1,000	N	N	N	200
HE594C3	63 21 30	148 23 30	5.0	2.00	10.00	1.00	700	N	N	N	500

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Ba-ppm s	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	Sb-ppm s
HE549C3	2,000	N	N	N	200	50	200	100	N	50	200	2,000	N
HE550C3	>5,000	N	N	N	50	2,000	100	50	N	50	150	70	N
HE551C3	>5,000	<2	N	N	50	1,500	200	50	N	50	200	70	N
HE552C3	>5,000	<2	N	N	200	150	500	200	N	<50	500	3,000	N
HE553C3	>5,000	2	N	N	100	300	500	200	N	50	200	200	N
HE554C3	3,000	N	N	N	200	50	500	50	N	<50	700	2,000	N
HE555C3	700	N	N	N	200	70	300	100	N	50	500	1,000	N
HE556C3	5,000	<2	N	N	100	200	500	200	N	50	150	500	N
HE557C3	3,000	N	N	N	300	50	500	50	N	<50	200	1,500	N
HE558C3	1,500	<2	N	N	50	1,500	100	150	N	50	100	70	N
HE559C3	1,000	<2	N	N	50	1,000	100	150	N	<50	200	50	N
HE560C3	1,500	<2	N	50	50	1,500	150	150	N	50	200	70	N
HE561C3	500	<2	N	N	20	1,000	150	100	N	70	50	50	N
HE562C3	500	<2	N	N	20	200	100	100	20	<50	50	<20	N
HE563C3	1,000	<2	N	N	20	500	200	100	50	<50	50	200	N
HE564C3	700	2	100	N	30	200	300	100	50	50	70	70	N
HE565C3	500	<2	N	N	20	200	100	150	10	<50	70	50	N
HE566C3	1,000	2	N	N	50	300	500	100	20	50	100	70	N
HE567C3	>5,000	2	N	N	50	300	300	200	<10	50	100	70	N
HE568C3	5,000	2	N	N	50	100	1,000	700	N	50	100	70	N
HE569C3	>5,000	2	N	N	50	200	1,000	700	N	50	150	70	N
HE570C3	2,000	2	N	N	50	300	1,000	500	20	50	150	70	N
HE571C3	>5,000	<2	N	N	50	700	200	300	10	50	150	50	N
HE572C3	2,000	2	N	N	50	300	1,000	500	20	50	150	70	N
HE573C3	>5,000	<2	N	N	50	100	1,000	500	N	50	150	50	N
HE574C3	2,000	N	N	N	30	150	70	50	N	<50	70	200	N
HE575C3	>5,000	<2	N	N	30	300	150	70	N	50	100	50	N
HE576C3	>5,000	<2	N	N	30	500	100	70	N	50	100	50	N
HE577C3	1,000	N	N	N	50	3,000	50	50	N	<50	100	30	N
HE578C3	1,500	N	N	N	30	500	200	70	N	50	100	50	N
HE580C3	1,000	<2	N	N	20	700	70	100	N	50	70	500	N
HE581C3	2,000	<2	N	N	30	1,500	100	50	N	50	100	500	N
HE582C3	1,500	<2	N	N	20	700	70	50	N	50	70	30	N
HE583C3	1,500	<2	N	N	20	300	50	50	N	<50	70	20	N
HE584C3	1,500	<2	N	N	20	1,500	70	150	N	<50	70	30	N
HE585C3	>5,000	<2	N	N	20	1,000	70	200	N	<50	70	100	N
HE586C3	5,000	<2	N	N	50	700	100	150	N	50	100	100	N
HE587C3	700	N	70	N	20	1,500	70	300	N	50	100	20	N
HE588C3	700	<2	300	N	10	1,000	70	300	N	<50	50	700	N
HE589C3	700	<2	700	N	10	500	100	300	100	<50	50	500	N
HE590C3	500	10	1,000	50	<10	100	200	>1,000	N	50	10	700	N
HE591C3	700	2	50	N	<10	700	50	>1,000	N	50	15	100	N
HE592C3	700	N	<20	N	20	1,500	700	200	N	<50	20	500	N
HE593C3	700	N	N	N	15	700	50	70	N	<50	50	20	N
HE594C3	700	<2	N	N	15	1,000	50	150	N	50	50	70	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	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
HE549C3	10	N	200	50	N	200	N	>1,000	N
HE550C3	50	N	200	200	N	200	N	>1,000	N
HE551C3	100	N	500	300	N	100	2,000	>1,000	N
HE552C3	20	N	300	100	N	200	<500	>1,000	N
HE553C3	20	N	300	200	N	100	<500	700	N
HE554C3	10	N	<200	20	N	50	<500	>1,000	N
HE555C3	10	N	200	50	N	150	N	>1,000	N
HE556C3	20	N	300	100	N	200	N	>1,000	N
HE557C3	N	N	N	50	N	100	<500	>1,000	N
HE558C3	100	500	500	200	N	100	1,500	>1,000	N
HE559C3	50	N	200	200	N	150	1,000	>1,000	N
HE560C3	70	N	500	200	1,000	200	1,500	>1,000	N
HE561C3	20	N	200	200	<100	100	N	>1,000	N
HE562C3	10	N	<200	150	200	100	N	>1,000	N
HE563C3	20	70	200	200	500	150	N	>1,000	N
HE564C3	10	>1,000	<200	200	1,000	100	500	>1,000	N
HE565C3	20	>1,000	200	200	1,000	200	N	>1,000	N
HE566C3	20	300	200	200	1,000	100	700	1,000	N
HE567C3	20	20	300	200	100	100	1,000	300	N
HE568C3	10	N	200	200	2,000	200	700	700	N
HE569C3	30	N	300	200	<100	200	1,000	1,000	N
HE570C3	50	N	300	200	N	150	1,500	700	N
HE571C3	50	N	200	200	N	100	700	700	N
HE572C3	50	N	200	200	N	150	1,000	700	N
HE573C3	20	N	500	150	N	150	1,500	1,000	N
HE574C3	10	30	500	200	N	20	<500	300	N
HE575C3	20	N	300	200	N	50	N	1,000	N
HE576C3	30	N	300	200	<100	70	N	>1,000	N
HE577C3	>100	N	300	500	N	20	N	1,500	N
HE578C3	50	N	300	300	N	100	N	>1,000	N
HE580C3	50	150	500	200	<100	100	N	>1,000	N
HE581C3	50	200	500	300	300	100	N	>1,000	N
HE582C3	50	>1,000	500	200	<100	70	N	>1,000	N
HE583C3	20	50	500	200	100	50	N	1,000	N
HE584C3	30	700	700	500	100	100	N	>1,000	N
HE585C3	30	700	500	300	<100	150	N	>1,000	N
HE586C3	10	300	300	200	<100	100	N	>1,000	N
HE587C3	20	300	<200	500	1,000	200	N	>1,000	N
HE588C3	20	>1,000	<200	300	300	200	N	>1,000	<200
HE589C3	20	>1,000	<200	300	100	200	N	>1,000	200
HE590C3	100	>1,000	<200	50	N	>2,000	5,000	>1,000	2,000
HE591C3	100	100	<200	150	N	>2,000	N	>1,000	1,000
HE592C3	50	300	500	500	N	100	N	>1,000	N
HE593C3	20	150	700	300	N	100	N	>1,000	N
HE594C3	30	N	1,000	300	N	150	N	>1,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy 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
HE595C3	63 22 35	148 31 15	2.0	2.00	7.00	>1.00	1,500	N	2,000	N	500
HE596C3	63 22 0	148 31 10	3.0	2.00	10.00	>1.00	1,000	N	N	N	300
HE597C3	63 22 0	148 30 55	2.0	2.00	7.00	>1.00	1,500	N	N	N	300
HE598C3	63 20 45	148 29 55	5.0	2.00	5.00	>1.00	1,000	2.0	2,000	N	1,500
HE599C3	63 20 45	148 29 45	3.0	2.00	5.00	>1.00	1,000	7.0	N	50	1,500
HE600C3	63 18 20	148 30 15	5.0	2.00	5.00	>1.00	1,000	200.0	N	N	500
HE601C3	63 53 5	149 8 8	2.0	1.00	7.00	>2.00	700	N	N	N	70
HE602C3	63 53 42	149 9 28	2.0	1.00	7.00	>2.00	1,000	70.0	N	300	150
HE603C3	63 53 52	149 9 23	2.0	1.50	7.00	2.00	1,000	N	N	N	100
HE604C3	63 57 52	149 1 8	1.5	1.00	10.00	2.00	700	N	N	N	100
HE605C3	63 57 29	149 1 5	2.0	1.00	7.00	2.00	700	N	N	N	100
HE606C3	63 56 22	149 0 8	2.0	1.00	7.00	2.00	700	5.0	N	N	100
HE607C3	63 59 58	148 55 20	2.0	1.50	7.00	>2.00	1,000	N	N	N	70
HE608C3	63 59 49	148 52 40	2.0	1.00	10.00	2.00	1,000	N	N	N	70
HE609C3	63 59 24	148 47 25	1.5	1.00	7.00	>2.00	500	N	N	N	100
HE610C3	63 58 30	148 45 47	2.0	.20	1.00	>2.00	500	N	N	N	300
HE611C3	63 58 28	148 45 33	15.0	.70	2.00	>2.00	500	5.0	<500	N	200
HE612C3	63 57 18	148 42 52	1.0	.50	5.00	>2.00	700	N	N	N	200
HE613C3	63 58 2	148 38 30	1.5	.50	5.00	>2.00	500	N	N	N	200
HE614C3	63 59 46	148 39 52	20.0	.20	1.00	2.00	200	2.0	700	N	200
HE615C3	63 59 58	147 47 32	2.0	.20	1.50	>2.00	300	N	500	N	100
HE616C3	63 58 56	147 41 46	15.0	.20	.50	2.00	200	5.0	<500	N	50
HE617C3	63 56 40	147 45 16	3.0	.70	.50	>2.00	300	N	<500	N	70
HE618C3	63 56 47	147 56 47	1.5	.50	.50	>2.00	200	1.0	N	<20	30
HE619C3	63 55 22	147 52 23	3.0	.20	.50	>2.00	300	N	N	N	20
HE620C3	63 54 53	147 50 45	5.0	.20	.70	>2.00	150	5.0	N	N	70
HE621C3	63 55 5	147 49 18	7.0	.20	.30	>2.00	150	<1.0	N	N	100
HE622C3	63 53 54	147 48 0	5.0	.30	.50	>2.00	150	5.0	N	N	100
HE623C3	63 54 12	147 52 30	5.0	.20	5.00	>2.00	200	5.0	N	N	100
HE624C3	63 53 52	147 50 52	20.0	.07	.20	.50	200	10.0	2,000	N	<20
HE625C3	63 53 17	147 50 0	20.0	.15	.50	1.50	200	7.0	5,000	N	200
HE626C3	63 52 52	147 50 0	5.0	.70	3.00	>2.00	300	3.0	3,000	N	300
HE627C3	63 52 14	147 52 57	5.0	.70	3.00	>2.00	500	10.0	N	50	100
HE628C3	63 49 52	147 54 0	7.0	.30	1.00	>2.00	150	2.0	1,500	N	200
HE629C3	63 50 0	147 58 58	3.0	.50	5.00	>2.00	700	15.0	3,000	N	150
HE630C3	63 49 44	148 4 41	10.0	.10	5.00	>2.00	300	50.0	1,500	N	100
HE631C3	63 49 24	148 6 53	10.0	.15	2.00	>2.00	200	5.0	N	N	100
HE632C3	63 49 13	148 10 58	20.0	.10	1.00	2.00	150	20.0	<500	N	50
HE633C3	63 49 26	148 16 52	7.0	.15	2.00	>2.00	150	3.0	N	N	100
HE634C3	63 49 22	148 16 40	20.0	.07	1.50	2.00	100	10.0	500	N	30
HE635C3	63 50 5	148 15 45	10.0	.20	1.00	2.00	200	10.0	N	N	100
HE636C3	63 50 15	148 16 30	10.0	.20	3.00	>2.00	200	7.0	1,000	N	100
HE637C3	63 50 10	148 15 0	15.0	.15	1.00	2.00	150	7.0	<500	N	100
HE638C3	63 50 30	148 14 46	20.0	.10	2.00	>2.00	150	10.0	700	N	50
HE639C3	63 57 35	148 31 27	2.0	.10	2.00	>2.00	150	N	N	N	70

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Ba-ppm s	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	Sb-ppm s
HE595C3	700	<2	200	N	30	500	70	200	N	<50	50	30	N
HE596C3	1,000	N	N	N	20	700	70	300	N	<50	50	50	N
HE597C3	1,000	3	70	N	10	700	500	200	N	<50	50	50	N
HE598C3	1,000	5	<20	N	30	700	700	500	N	<50	70	700	N
HE599C3	700	<2	N	N	20	700	70	300	N	70	50	200	N
HE600C3	1,000	<2	N	N	20	700	1,000	150	N	50	50	300	N
HE601C3	1,000	N	N	N	20	200	20	<50	N	50	50	50	N
HE602C3	1,500	N	N	N	20	200	20	50	N	<50	50	70	N
HE603C3	2,000	N	N	N	20	200	15	70	N	<50	50	50	N
HE604C3	1,000	N	N	N	15	200	15	100	N	<50	20	30	N
HE605C3	1,500	N	N	N	20	300	30	N	N	<50	50	70	N
HE606C3	700	N	N	N	15	300	10	100	N	50	30	150	N
HE607C3	1,500	N	N	N	20	300	15	N	N	<50	30	50	N
HE608C3	1,000	N	N	N	20	300	20	70	N	<50	50	50	N
HE609C3	2,000	N	N	N	20	700	<10	100	N	<50	30	50	N
HE610C3	500	<2	N	N	15	700	<10	1,000	N	50	N	70	N
HE611C3	700	N	N	N	200	700	700	700	N	<50	300	300	N
HE612C3	700	N	N	N	15	500	<10	300	10	50	20	50	N
HE613C3	700	N	N	N	15	1,000	N	300	N	50	N	50	N
HE614C3	3,000	<2	N	N	300	100	700	700	N	50	500	1,000	N
HE615C3	5,000	<2	N	N	30	1,000	15	500	N	70	50	700	N
HE616C3	>10,000	<2	N	N	100	100	300	500	15	50	150	1,000	N
HE617C3	>10,000	<2	N	N	150	100	300	300	10	70	50	200	N
HE618C3	5,000	<2	N	N	<10	150	<10	500	N	100	N	100	N
HE619C3	>10,000	<2	N	<50	70	100	30	500	30	100	50	200	N
HE620C3	>10,000	<2	N	N	100	70	700	500	<10	70	150	1,500	N
HE621C3	>10,000	<2	N	N	70	150	50	300	N	70	70	500	N
HE622C3	>10,000	<2	N	N	50	100	70	500	N	50	100	2,000	N
HE623C3	>10,000	2	20	N	50	70	100	200	20	70	70	1,500	N
HE624C3	>10,000	<2	N	N	150	<20	700	N	<10	N	300	1,000	<200
HE625C3	>10,000	<2	N	N	100	30	500	150	N	<50	300	200	<200
HE626C3	>10,000	<2	N	N	100	150	150	200	15	50	200	700	300
HE627C3	>10,000	<2	N	N	100	150	300	200	10	70	100	1,500	N
HE628C3	>10,000	<2	N	N	50	50	100	200	10	70	70	200	N
HE629C3	1,500	2	30	N	50	150	200	200	15	70	100	1,500	N
HE630C3	2,000	<2	70	N	300	30	500	100	N	<50	150	5,000	N
HE631C3	>10,000	<2	N	N	100	70	200	200	N	70	100	1,500	N
HE632C3	>10,000	<2	30	N	300	50	1,000	200	N	<50	500	5,000	N
HE633C3	5,000	<2	N	N	100	70	200	150	N	50	150	700	N
HE634C3	10,000	<2	20	N	300	50	700	200	N	50	300	2,000	N
HE635C3	3,000	<2	50	N	150	100	200	200	N	50	200	2,000	N
HE636C3	2,000	2	20	N	200	100	300	200	N	50	150	1,500	N
HE637C3	3,000	<2	<20	N	200	70	500	200	N	50	300	1,500	N
HE638C3	5,000	<2	50	N	300	30	500	100	N	50	300	2,000	N
HE639C3	>10,000	N	N	N	20	150	15	200	N	50	<10	200	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	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
HE595C3	20	>1,000	700	300	<100	100	N	>1,000	N
HE596C3	20	500	700	500	N	100	N	>1,000	N
HE597C3	30	>1,000	700	300	200	150	N	>1,000	N
HE598C3	20	>1,000	700	300	100	100	N	>1,000	N
HE599C3	50	>1,000	700	300	100	200	N	>1,000	N
HE600C3	20	500	700	300	N	150	N	>1,000	N
HE601C3	15	100	500	200	N	100	N	>2,000	N
HE602C3	20	200	500	200	N	100	N	>2,000	N
HE603C3	15	700	500	200	N	50	N	2,000	N
HE604C3	15	500	500	200	N	100	N	>2,000	N
HE605C3	15	100	500	200	N	50	N	2,000	N
HE606C3	15	300	500	200	N	100	N	>2,000	N
HE607C3	20	1,000	500	200	100	150	N	>2,000	N
HE608C3	20	50	500	200	N	70	N	>2,000	N
HE609C3	20	500	500	200	N	100	N	>2,000	N
HE610C3	50	200	200	150	N	500	N	>2,000	N
HE611C3	20	100	300	150	N	200	N	>2,000	N
HE612C3	30	50	500	150	N	200	N	>2,000	N
HE613C3	50	200	300	200	N	300	N	>2,000	N
HE614C3	30	N	500	70	N	300	<500	>2,000	200
HE615C3	50	30	500	100	N	300	N	>2,000	N
HE616C3	20	N	700	70	N	200	700	>2,000	200
HE617C3	50	N	500	100	N	200	N	>2,000	200
HE618C3	50	<20	200	100	N	200	<500	>2,000	200
HE619C3	50	20	700	100	100	200	500	>2,000	200
HE620C3	50	N	500	70	<100	300	1,000	>2,000	<200
HE621C3	50	N	500	100	N	200	N	>2,000	<200
HE622C3	50	100	500	100	N	300	N	>2,000	<200
HE623C3	20	<20	500	100	100	200	500	>2,000	<200
HE624C3	N	N	300	50	N	50	700	2,000	N
HE625C3	N	100	500	50	150	100	N	2,000	N
HE626C3	30	1,500	500	150	100	200	N	>2,000	700
HE627C3	20	30	500	100	500	300	N	>2,000	<200
HE628C3	15	N	500	150	200	150	N	>2,000	N
HE629C3	20	50	500	100	300	200	N	>2,000	N
HE630C3	20	N	500	30	<100	300	N	>2,000	N
HE631C3	20	N	500	100	N	200	500	>2,000	N
HE632C3	15	N	300	50	N	200	N	>2,000	N
HE633C3	50	N	500	50	N	500	N	>2,000	N
HE634C3	20	N	300	30	N	200	<500	>2,000	<200
HE635C3	70	N	300	50	N	500	N	>2,000	<200
HE636C3	50	N	500	50	100	200	N	>2,000	N
HE637C3	30	N	300	50	N	200	N	>2,000	<200
HE638C3	20	N	200	30	N	150	N	>2,000	N
HE639C3	50	150	700	100	N	200	N	>2,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy 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
HE640C3	63 54 51	148 42 23	5.0	.07	.30	>2.00	100	7.0	<500	<20	150
HE641C3	63 54 40	148 37 15	20.0	.05	.20	.50	150	5.0	500	N	30
HE642C3	63 55 17	148 44 58	3.0	.07	.70	>2.00	200	1.5	N	<20	500
HE643C3	63 54 31	148 37 15	15.0	.05	.70	>2.00	200	15.0	1,000	N	50
HE644C3	63 48 7	149 6 40	20.0	.07	.70	1.50	100	10.0	<500	N	50
HE645C3	63 54 34	148 38 40	2.0	.10	1.00	>2.00	200	N	N	N	200
HE646C3	63 48 5	149 7 4	30.0	.10	.50	.50	150	7.0	<500	N	50
HE647C3	63 48 35	149 4 52	30.0	.05	.20	.20	50	2.0	500	N	20
HE648C3	63 48 12	149 11 25	30.0	.05	.20	.70	100	10.0	500	N	20
HE649C3	63 48 10	149 8 42	20.0	.07	.30	1.00	70	3.0	500	N	30
HE650C3	63 48 20	149 12 30	15.0	.15	1.50	2.00	150	5.0	N	N	100
HE651C3	63 48 56	149 12 17	10.0	.20	1.00	>2.00	500	N	N	N	150
HE652C3	63 49 20	149 23 17	1.0	.20	1.00	>2.00	500	N	N	N	100
HE653C3	63 48 56	149 12 1	1.5	.30	2.00	>2.00	300	N	N	N	150
HE654C3	63 48 9	149 36 6	1.5	.30	1.50	>2.00	300	N	N	N	100
HE655C3	63 48 8	149 19 48	1.5	.20	1.00	>2.00	500	N	N	N	150
HE656C3	63 48 9	149 40 8	2.0	1.00	3.00	>2.00	700	N	N	N	200
HE657C3	63 48 15	149 30 15	1.0	.30	3.00	>2.00	500	N	N	N	200
HE658C3	63 48 7	149 46 48	1.0	.50	2.00	>2.00	500	N	N	N	300
HE659C3	63 48 8	149 40 31	1.5	.70	5.00	>2.00	700	N	N	N	200
HE660C3	63 52 40	149 20 18	1.0	.50	5.00	>2.00	500	N	N	N	100
HE661C3	63 50 47	148 24 6	20.0	.10	.70	1.50	100	7.0	1,500	N	20
HE662C3	63 50 49	148 24 5	20.0	.15	1.00	>2.00	200	5.0	<500	N	70
HE663C3	63 51 17	148 23 42	20.0	.05	1.00	2.00	100	7.0	500	N	30
HE664C3	63 52 16	148 23 17	5.0	.10	1.50	>2.00	200	10.0	<500	N	70
HE665C3	63 51 55	148 18 16	15.0	.07	2.00	2.00	150	7.0	<500	N	50
HE666C3	63 51 42	148 18 30	10.0	.10	2.00	>2.00	200	10.0	<500	N	100
HE667C3	63 51 23	148 16 45	15.0	.10	2.00	>2.00	200	15.0	N	N	70
HE668C3	63 55 45	148 32 47	10.0	.05	.30	.50	100	3.0	<500	N	30
HE669C3	63 55 39	148 32 38	7.0	.20	1.00	>2.00	150	1.5	N	N	70
HE670C3	63 57 43	148 29 24	7.0	.07	.30	>2.00	70	N	N	N	50
HE671C3	63 57 0	148 29 0	15.0	<.05	.10	.70	100	2.0	<500	N	30
HE672C3	63 55 58	148 26 40	10.0	.05	<.10	1.50	150	1.5	N	N	30
HE673C3	63 52 0	149 21 45	2.0	.70	5.00	1.00	500	N	N	N	70
HE674C3	63 56 2	149 9 29	1.5	1.00	7.00	2.00	700	N	N	N	70
HE675C3	63 56 0	149 18 0	1.5	1.00	7.00	1.50	500	N	N	N	50
HE676C3	63 58 47	149 9 50	1.0	.70	5.00	>2.00	500	N	N	N	100
HE677C3	63 59 48	149 12 29	1.5	.70	7.00	2.00	700	N	N	N	100
HE678C3	63 59 53	149 13 53	1.5	.70	7.00	1.00	500	N	N	<20	70
HE679C3	63 55 54	147 21 44	7.0	.20	.20	>2.00	150	2.0	<500	N	30
HE680C3	63 56 1	147 22 6	7.0	.50	.50	>2.00	200	5.0	<500	N	50
HE681C3	63 56 6	147 18 45	1.0	.50	.20	>2.00	150	N	N	N	70
HE682C3	63 55 35	147 17 40	2.0	.20	.50	>2.00	200	N	N	N	50
HE683C3	63 56 24	147 15 31	.7	.10	.70	>2.00	200	N	N	N	150
HE684C3	63 56 8	147 12 13	1.5	.50	1.50	>2.00	1,000	7.0	N	300	150

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Ba-ppm s	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	Sb-ppm s
HE640C3	2,000	<2	20	N	200	300	100	200	N	50	200	1,500	N
HE641C3	5,000	N	N	N	200	20	700	200	N	<50	500	500	N
HE642C3	3,000	N	N	N	50	500	70	200	N	70	50	150	N
HE643C3	10,000	<2	30	N	200	50	150	200	N	<50	300	2,000	N
HE644C3	1,500	<2	<20	N	150	50	200	150	N	<50	200	1,500	N
HE645C3	700	2	N	N	20	100	50	200	N	<50	20	150	N
HE646C3	3,000	N	N	N	100	50	700	100	N	<50	200	700	N
HE647C3	2,000	N	N	N	150	<20	100	50	N	N	200	500	N
HE648C3	3,000	N	20	N	200	20	500	150	N	N	300	1,000	N
HE649C3	2,000	<2	N	N	200	30	500	100	N	<50	300	700	N
HE650C3	5,000	<2	<20	N	100	100	150	200	N	50	100	500	N
HE651C3	2,000	<2	N	N	50	200	20	150	N	50	50	300	N
HE652C3	700	<2	N	N	10	700	<10	200	N	<50	<10	20	N
HE653C3	2,000	N	N	N	15	150	10	100	N	50	N	100	N
HE654C3	500	N	N	N	10	200	<10	100	N	50	15	30	N
HE655C3	700	N	N	N	15	150	10	100	N	50	N	150	N
HE656C3	700	N	N	N	20	500	10	150	N	50	50	50	N
HE657C3	5,000	N	N	N	15	200	10	150	N	<50	20	100	N
HE658C3	2,000	N	N	N	10	500	<10	300	N	<50	<10	50	N
HE659C3	1,000	N	N	N	15	300	10	100	N	50	30	20	N
HE660C3	1,000	N	N	N	10	200	10	70	N	<50	30	20	N
HE661C3	3,000	N	20	N	200	50	500	<50	N	N	500	1,500	N
HE662C3	2,000	<2	50	N	300	50	700	100	N	<50	500	1,000	N
HE663C3	2,000	N	<20	N	150	30	500	100	N	<50	300	1,000	N
HE664C3	10,000	<2	30	N	200	70	200	150	N	50	100	2,000	N
HE665C3	3,000	<2	20	N	200	50	500	100	N	<50	700	1,500	N
HE666C3	1,500	<2	30	N	200	100	300	150	N	50	200	2,000	N
HE667C3	2,000	N	70	N	200	70	300	100	N	50	500	5,000	N
HE668C3	>10,000	<2	N	N	70	30	200	150	N	<50	100	300	N
HE669C3	>10,000	2	N	N	50	100	100	200	N	50	70	150	N
HE670C3	>10,000	<2	N	N	100	70	200	200	N	50	150	200	N
HE671C3	>10,000	<2	N	N	100	20	200	150	N	<50	200	200	N
HE672C3	>10,000	N	N	N	70	30	150	200	N	50	200	70	N
HE673C3	2,000	N	N	N	20	150	20	N	15	<50	50	20	N
HE674C3	1,500	N	N	N	20	500	15	<50	N	<50	50	50	N
HE675C3	1,500	N	N	N	15	150	10	N	N	<50	50	<20	N
HE676C3	1,000	N	N	N	15	200	<10	70	N	<50	30	30	N
HE677C3	1,500	N	N	N	20	200	10	N	N	N	50	20	N
HE678C3	2,000	N	N	N	15	100	10	N	N	N	30	20	N
HE679C3	>10,000	<2	N	<50	100	150	500	300	20	100	100	200	N
HE680C3	>10,000	<2	N	<50	70	50	1,000	500	<10	100	30	1,500	N
HE681C3	3,000	<2	N	N	20	200	30	500	<10	100	N	100	N
HE682C3	>10,000	<2	N	N	20	200	200	700	<10	100	20	100	N
HE683C3	700	N	N	N	10	500	N	1,000	N	<50	N	<20	N
HE684C3	1,000	N	N	N	15	1,500	<10	200	50	50	20	20	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	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
HE640C3	50	700	N	70	N	300	N	>2,000	N
HE641C3	20	N	200	20	N	200	500	>2,000	N
HE642C3	50	100	200	100	N	200	N	>2,000	N
HE643C3	30	N	200	30	N	500	N	>2,000	N
HE644C3	30	N	<200	30	N	200	N	>2,000	N
HE645C3	100	N	200	50	N	1,000	N	>2,000	N
HE646C3	<10	N	200	30	N	70	N	1,500	N
HE647C3	N	N	<200	20	N	50	N	1,000	N
HE648C3	10	N	<200	20	N	100	N	>2,000	<200
HE649C3	15	N	<200	30	N	150	N	>2,000	N
HE650C3	30	N	300	50	N	300	N	>2,000	<200
HE651C3	20	30	300	100	N	150	<500	>2,000	N
HE652C3	70	500	200	150	N	300	N	>2,000	N
HE653C3	30	20	300	100	N	100	N	>2,000	N
HE654C3	30	700	500	100	N	100	N	>2,000	N
HE655C3	30	70	200	100	N	100	N	>2,000	N
HE656C3	50	500	500	150	N	100	N	>2,000	N
HE657C3	30	1,000	300	100	N	150	N	>2,000	N
HE658C3	100	1,500	200	150	N	300	N	>2,000	N
HE659C3	30	700	300	150	N	150	N	>2,000	N
HE660C3	20	300	300	100	N	100	N	>2,000	N
HE661C3	<10	N	<200	20	N	50	N	500	N
HE662C3	15	N	200	30	N	100	N	2,000	N
HE663C3	<10	N	<200	30	N	70	N	2,000	N
HE664C3	70	N	300	30	<100	500	N	>2,000	<200
HE665C3	<10	N	300	30	N	100	N	2,000	N
HE666C3	15	N	300	50	N	200	N	>2,000	N
HE667C3	10	N	200	50	N	150	N	>2,000	N
HE668C3	<10	N	700	20	N	100	500	2,000	N
HE669C3	30	N	500	70	N	200	N	>2,000	<200
HE670C3	30	N	500	50	N	150	N	>2,000	<200
HE671C3	15	N	700	20	N	100	<500	>2,000	N
HE672C3	15	N	700	20	N	100	N	2,000	N
HE673C3	15	150	500	100	100	30	N	2,000	N
HE674C3	20	30	500	150	N	50	N	>2,000	200
HE675C3	15	50	500	100	N	30	N	1,500	N
HE676C3	20	100	500	150	N	100	N	>2,000	N
HE677C3	20	70	500	150	N	50	N	2,000	N
HE678C3	15	300	500	100	<100	50	N	>2,000	N
HE679C3	20	<20	500	100	N	200	700	>2,000	<200
HE680C3	20	N	500	100	<100	300	1,000	>2,000	<200
HE681C3	30	20	N	100	N	200	N	>2,000	<200
HE682C3	20	20	500	100	N	200	N	>2,000	<200
HE683C3	70	300	N	100	N	500	N	>2,000	<200
HE684C3	30	70	200	150	100	150	N	>2,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy 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
HE685C3	63 57 50	147 15 21	.7	.20	1.50	>2.00	300	150.0	N	>1,000	100
HE686C3	63 58 18	147 15 42	1.0	.20	.70	>2.00	200	N	N	N	200
HE687C3	63 59 9	147 17 10	3.0	.10	1.00	>2.00	300	2.0	500	N	200
HE688C3	63 59 32	147 15 3	.7	.50	2.00	>2.00	200	10.0	N	100	70
HE689C3	63 59 51	147 27 58	7.0	.10	.30	.70	100	15.0	700	N	50
HE690C3	63 59 47	147 21 20	2.0	.50	.30	2.00	200	3.0	N	50	100
HE691C3	63 56 45	147 38 22	3.0	.07	.20	>2.00	100	2.0	N	N	70
HE692C3	63 59 44	147 25 22	10.0	.15	.50	2.00	200	5.0	<500	N	70
HE693C3	63 56 51	147 38 6	10.0	.10	.20	2.00	150	3.0	<500	N	70
HE694C3	63 59 56	147 30 43	15.0	.10	.20	.70	150	5.0	700	N	50
HE695C3	63 54 40	147 43 45	1.5	.15	.30	>2.00	200	N	N	N	150
HE696C3	63 59 45	147 33 38	15.0	.10	.50	2.00	150	5.0	<500	N	70
HE697C3	63 56 35	147 40 47	1.0	.10	1.00	>2.00	500	N	N	N	200
HE698C3	63 59 53	147 37 5	20.0	.05	.10	.50	100	5.0	1,000	N	<20
HE699C3	63 56 29	147 40 25	5.0	.10	.50	>2.00	150	N	N	N	70
HE700C3	63 54 24	147 37 30	3.0	.20	.30	2.00	200	2.0	N	N	150
HE701C3	63 43 25	147 26 25	15.0	.10	.50	1.00	150	5.0	1,000	N	20
HE702C3	63 42 45	147 26 43	20.0	.15	.70	.50	200	1.5	<500	N	20
HE703C3	63 42 58	147 26 28	15.0	.70	2.00	.70	200	5.0	700	N	20
HE704C3	63 42 0	147 25 46	20.0	.30	3.00	.70	200	7.0	<500	N	20
HE705C3	63 41 57	147 26 8	20.0	.30	2.00	.70	200	7.0	500	N	30
HE706C3	63 43 42	147 27 17	5.0	.70	7.00	2.00	200	5.0	5,000	N	1,000
HE707C3	63 44 20	147 27 13	1.0	.10	3.00	>2.00	200	N	<500	N	30
HE708C3	63 45 6	147 28 12	2.0	.70	1.50	1.00	200	2.0	1,500	N	70
HE709C3	63 46 58	147 28 1	10.0	.10	1.00	2.00	100	1.5	700	N	20
HE710C3	63 51 4	147 23 36	10.0	.05	.50	>2.00	150	2.0	1,500	N	20
HE711C3	63 50 54	147 23 45	7.0	.10	2.00	>2.00	200	70.0	2,000	N	70
HE712C3	63 53 12	147 11 45	2.0	.70	5.00	>2.00	300	3.0	N	N	150
HE713C3	63 50 58	147 20 30	10.0	.05	1.00	>2.00	150	5.0	2,000	N	50
HE714C3	63 52 44	147 15 17	1.0	.10	7.00	.70	200	3.0	N	N	100
HE715C3	63 49 41	147 17 40	7.0	.07	.70	1.50	150	7.0	1,000	N	100
HE716C3	63 51 17	147 13 32	7.0	.15	2.00	2.00	500	1.0	500	N	100
HE717C3	63 49 40	147 18 0	7.0	.10	.70	2.00	150	<1.0	1,000	N	200
HE718C3	63 52 38	147 20 15	15.0	.05	.20	.20	150	3.0	<500	N	20
HE719C3	63 49 10	147 21 32	5.0	.20	5.00	1.50	300	5.0	15,000	N	70
HE720C3	63 52 47	147 20 5	10.0	.10	2.00	1.00	200	3.0	<500	N	50
HE721C3	63 47 42	147 22 53	2.0	.50	7.00	>2.00	300	N	700	N	70
HE722C3	63 48 56	147 27 34	2.0	.50	1.50	2.00	500	N	<500	N	150
HE723C3	63 47 23	147 17 28	1.5	.20	5.00	>2.00	300	N	<500	N	50
HE724C3	63 47 27	147 20 49	2.0	.15	5.00	>2.00	300	N	700	N	50
HE725C3	63 56 0	147 27 8	10.0	.10	.20	>2.00	100	15.0	500	N	50
HE726C3	63 57 33	147 6 0	1.5	.50	3.00	2.00	300	N	N	N	70
HE727C3	63 58 8	147 5 8	1.0	.50	2.00	>2.00	500	N	N	<20	50
HE728C3	63 57 30	147 1 30	1.0	.50	2.00	>2.00	500	N	N	N	50
HE729C3	63 54 23	147 6 35	1.0	.30	2.00	>2.00	500	N	N	N	50

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Ba-ppm s	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	Sb-ppm s
HE685C3	700	N	N	N	15	200	<10	200	10	50	N	300	N
HE686C3	>10,000	N	N	N	15	150	15	500	10	100	N	100	N
HE687C3	>10,000	<2	<20	N	50	500	100	300	N	50	50	500	N
HE688C3	1,500	N	N	N	15	100	<10	150	10	50	30	70	N
HE689C3	>10,000	<2	30	N	150	50	300	200	N	<50	200	5,000	N
HE690C3	10,000	2	20	N	30	150	70	300	15	70	50	1,000	N
HE691C3	>10,000	2	N	N	50	70	150	500	<10	50	70	700	N
HE692C3	>10,000	<2	<20	N	150	100	300	300	N	50	150	2,000	N
HE693C3	>10,000	70	N	N	70	70	700	300	N	50	100	2,000	N
HE694C3	>10,000	<2	<20	N	150	50	700	200	N	<50	200	1,500	N
HE695C3	>10,000	2	N	N	50	100	150	700	N	<50	70	200	N
HE696C3	>10,000	2	N	N	150	100	500	200	N	50	150	1,500	N
HE697C3	>10,000	2	N	N	10	150	<10	500	N	70	N	200	N
HE698C3	>10,000	<2	N	N	200	20	700	150	N	<50	200	1,500	N
HE699C3	>10,000	<2	20	N	70	100	500	300	N	50	100	500	N
HE700C3	10,000	<2	<20	N	50	150	150	300	N	50	50	1,000	N
HE701C3	>10,000	N	N	N	70	50	200	<50	<10	<50	200	200	N
HE702C3	>10,000	N	N	N	70	<20	1,000	N	<10	N	200	100	N
HE703C3	10,000	N	N	N	70	50	1,000	N	<10	N	200	100	N
HE704C3	3,000	N	N	N	100	70	300	N	20	N	200	150	N
HE705C3	>10,000	N	N	N	100	30	1,000	N	10	N	200	300	N
HE706C3	>10,000	N	N	N	150	100	100	200	<10	70	200	200	<200
HE707C3	700	N	N	N	50	N	10	200	30	<50	30	100	N
HE708C3	>10,000	N	N	N	50	50	70	100	<10	<50	100	200	N
HE709C3	>10,000	3	N	N	70	70	150	100	<10	50	100	150	N
HE710C3	>10,000	<2	N	N	70	30	150	150	N	50	150	150	N
HE711C3	>10,000	<2	50	N	70	100	300	100	N	<50	200	3,000	N
HE712C3	3,000	<2	N	N	15	200	70	200	10	70	20	300	N
HE713C3	>10,000	<2	20	N	100	50	200	100	N	50	200	1,000	N
HE714C3	>10,000	<2	N	N	10	70	50	200	10	<50	50	200	N
HE715C3	10,000	<2	N	N	100	100	500	150	N	50	200	700	N
HE716C3	>10,000	<2	N	N	70	70	300	300	N	50	200	200	N
HE717C3	5,000	<2	N	N	100	100	300	300	N	<50	200	500	N
HE718C3	>10,000	<2	N	N	70	N	1,500	N	<10	N	200	1,500	N
HE719C3	5,000	2	N	N	70	100	100	200	10	50	100	500	200
HE720C3	>10,000	<2	N	N	50	50	700	300	15	<50	200	100	N
HE721C3	7,000	<2	N	N	30	100	50	300	20	50	50	100	N
HE722C3	1,500	<2	N	N	30	150	70	200	<10	50	50	100	N
HE723C3	1,500	N	N	N	30	100	70	200	30	50	30	300	N
HE724C3	5,000	N	N	N	30	50	70	300	20	50	N	150	N
HE725C3	>10,000	2	<20	N	100	100	500	300	N	<50	70	3,000	N
HE726C3	1,000	N	N	N	15	100	20	150	30	50	30	150	N
HE727C3	700	N	N	N	<10	150	15	150	20	<50	10	50	N
HE728C3	2,000	N	N	N	15	100	<10	150	15	50	30	50	N
HE729C3	1,500	N	N	N	<10	100	<10	150	10	50	15	20	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	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
HE685C3	50	500	300	100	<100	150	N	>2,000	N
HE686C3	30	20	300	100	100	200	N	>2,000	200
HE687C3	70	30	500	70	N	500	N	>2,000	<200
HE688C3	30	200	300	100	100	150	N	>2,000	N
HE689C3	20	N	500	50	N	150	500	>2,000	N
HE690C3	30	30	300	70	N	200	N	>2,000	<200
HE691C3	50	N	700	70	N	300	N	>2,000	200
HE692C3	30	N	500	50	N	200	500	>2,000	<200
HE693C3	50	N	500	50	N	200	500	>2,000	<200
HE694C3	20	N	500	50	N	150	1,000	>2,000	N
HE695C3	100	N	300	70	N	1,000	<500	>2,000	200
HE696C3	20	N	300	50	N	150	500	>2,000	N
HE697C3	70	30	300	70	N	200	N	>2,000	<200
HE698C3	10	N	200	<20	N	100	700	2,000	N
HE699C3	70	N	500	50	N	300	<500	>2,000	<200
HE700C3	50	20	200	50	N	200	<500	>2,000	N
HE701C3	10	N	500	100	N	50	<500	2,000	N
HE702C3	10	N	500	100	N	30	<500	100	N
HE703C3	10	N	500	100	N	20	N	70	N
HE704C3	10	N	500	100	N	50	500	70	N
HE705C3	10	N	300	100	N	30	500	100	N
HE706C3	50	<20	700	150	N	150	N	700	N
HE707C3	50	20	300	70	100	300	N	>2,000	500
HE708C3	20	N	1,500	70	N	100	500	>2,000	N
HE709C3	20	N	700	100	N	70	N	2,000	N
HE710C3	15	N	1,000	50	100	150	500	>2,000	<200
HE711C3	20	N	500	70	200	150	N	>2,000	N
HE712C3	50	30	500	100	N	150	<500	>2,000	N
HE713C3	15	N	1,000	30	300	200	<500	>2,000	N
HE714C3	<10	N	1,000	150	<100	150	N	>2,000	N
HE715C3	15	N	300	50	150	200	N	>2,000	200
HE716C3	15	100	500	50	100	150	<500	>2,000	<200
HE717C3	50	N	500	70	<100	500	N	>2,000	<200
HE718C3	N	N	1,500	<20	N	50	<500	1,000	N
HE719C3	15	N	500	100	100	150	N	>2,000	1,000
HE720C3	15	N	1,000	70	N	150	500	>2,000	<200
HE721C3	20	50	300	100	100	300	N	>2,000	1,000
HE722C3	20	N	300	70	100	300	N	>2,000	200
HE723C3	20	70	200	100	150	500	N	>2,000	300
HE724C3	20	50	300	100	100	300	N	>2,000	500
HE725C3	50	100	500	50	N	1,000	N	>2,000	<200
HE726C3	20	<20	200	150	100	100	N	>2,000	N
HE727C3	30	200	200	100	<100	200	N	>2,000	N
HE728C3	20	100	200	150	<100	100	N	>2,000	N
HE729C3	15	50	300	150	<100	100	N	>2,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy 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
HE730C3	63 51 36	147 6 54	2.0	.15	2.00	2.00	500	N	N	N	150
HE731C3	63 54 35	147 6 22	1.0	.30	2.00	>2.00	300	N	N	N	100
HE732C3	63 51 2	147 7 49	.7	.20	3.00	>2.00	200	N	N	N	50
HE733C3	63 51 4	147 5 20	.7	.30	2.00	>2.00	300	N	N	<20	150
HE734C3	63 48 48	147 4 40	1.5	.50	1.50	2.00	500	N	<500	N	200
HE735C3	63 49 47	147 0 32	.5	.20	2.00	>2.00	300	N	N	N	70
HE736C3	63 47 42	147 2 46	1.0	.50	3.00	>2.00	300	7.0	N	20	50
HE737C3	63 46 41	147 10 0	3.0	.20	3.00	2.00	200	1.5	2,000	N	50
HE738C3	63 47 45	147 3 15	1.5	.20	5.00	2.00	200	N	N	N	50
HE739C3	63 56 19	147 28 0	5.0	.15	.20	>2.00	150	10.0	<500	N	50
HE740C3	63 45 38	147 4 30	2.0	.30	5.00	2.00	200	7.0	1,500	N	70
HE741C3	63 56 28	147 27 30	10.0	.10	.20	2.00	100	20.0	700	N	50
HE742C3	63 44 33	147 1 14	2.0	1.00	5.00	2.00	300	3.0	<500	N	70
HE743C3	63 56 28	147 25 38	3.0	.20	1.00	>2.00	200	3.0	N	N	150
HE744C3	63 43 25	147 1 16	7.0	.20	1.00	2.00	150	10.0	1,000	N	100
HE745C3	63 55 40	147 26 30	10.0	.07	.30	1.50	300	5.0	700	N	30
HE746C3	63 43 53	147 6 46	5.0	.50	3.00	1.50	200	7.0	20,000	N	30
HE747C3	63 43 11	147 13 7	2.0	.20	2.00	2.00	300	N	1,000	N	50
HE748C3	63 42 46	147 6 15	3.0	1.00	3.00	2.00	300	2.0	N	N	200
HE749C3	63 43 3	147 4 34	5.0	.15	2.00	>2.00	300	2.0	N	N	200
HE750C3	63 42 50	147 7 26	2.0	.70	1.50	2.00	300	1.5	1,000	N	200
HE751C3	63 44 27	147 56 46	2.0	.20	1.50	>2.00	300	N	N	N	50
HE752C3	63 44 32	147 57 10	5.0	.30	2.00	>2.00	300	2.0	N	N	100
HE753C3	63 43 30	147 50 51	2.0	.15	2.00	>2.00	300	N	N	N	700
HE754C3	63 43 35	147 51 30	2.0	.15	1.00	>2.00	200	10.0	N	N	200
HE755C3	63 42 47	147 50 46	1.5	.30	3.00	1.50	300	<1.0	N	N	70
HE756C3	63 40 45	147 51 27	2.0	.70	5.00	1.00	500	1.0	N	N	50
HE757C3	63 40 43	147 51 42	3.0	.70	5.00	1.00	500	1.5	N	N	50
HE758C3	63 41 10	147 51 51	1.0	.20	1.00	>2.00	300	N	500	N	150
HE759C3	63 45 43	147 52 8	1.5	1.00	7.00	.70	300	N	1,500	N	70
HE760C3	63 45 23	147 49 6	1.5	.70	2.00	1.00	300	N	N	N	100
HE761C3	63 45 30	147 46 0	2.0	.30	1.50	1.50	200	N	N	N	20
HE762C3	63 44 40	147 45 27	.7	.30	5.00	.50	200	<1.0	N	N	1,000
HE763C3	63 45 22	147 43 45	3.0	.10	.70	1.00	150	1.0	N	N	30
HE764C3	63 43 23	147 43 40	2.0	.30	2.00	1.50	300	N	N	N	70
HE765C3	63 44 30	147 38 10	5.0	.10	.50	.50	200	1.5	N	N	20
HE766C3	63 42 0	147 44 0	5.0	.20	2.00	1.00	300	1.5	500	N	20
HE767C3	63 41 58	147 43 40	3.0	.50	3.00	2.00	500	1.0	N	N	30
HE768C3	63 44 30	147 34 50	5.0	.15	.30	.20	150	5.0	N	N	20
HE769C3	63 44 20	147 34 50	3.0	.30	5.00	>2.00	200	3.0	<500	N	30
HE770C3	63 47 30	147 51 30	5.0	2.00	7.00	.70	700	1.0	500	N	30
HE771C3	63 45 26	147 51 35	2.0	.70	5.00	>2.00	500	10.0	<500	N	50
HE772C3	63 42 45	147 37 10	7.0	.70	7.00	2.00	500	2.0	N	N	30
HE773C3	63 42 25	147 35 25	10.0	.50	5.00	2.00	500	2.0	<500	N	30
HE774C3	63 42 0	147 33 30	20.0	.20	2.00	1.00	300	5.0	<500	N	20

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Ba-ppm s	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	Sb-ppm s
HE730C3	>10,000	<2	N	N	20	100	100	150	<10	70	70	300	N
HE731C3	700	N	N	N	<10	150	<10	100	N	50	N	50	N
HE732C3	700	<2	N	N	10	70	<10	150	<10	<50	10	70	N
HE733C3	2,000	N	N	N	10	150	N	100	15	50	N	30	N
HE734C3	3,000	2	N	N	20	150	20	150	N	50	30	30	N
HE735C3	2,000	N	N	N	<10	150	10	200	10	50	N	50	N
HE736C3	5,000	N	N	N	10	100	<10	200	10	70	20	20	N
HE737C3	2,000	2	N	N	70	50	200	150	30	<50	100	300	N
HE738C3	700	<2	N	N	20	50	100	200	20	<50	15	50	N
HE739C3	>10,000	2	20	N	70	50	1,000	200	N	70	50	5,000	N
HE740C3	>10,000	<2	<20	N	30	100	50	200	50	50	50	500	N
HE741C3	>10,000	<2	50	N	150	50	700	200	N	50	150	10,000	N
HE742C3	>10,000	N	N	N	20	100	200	70	<10	<50	50	200	N
HE743C3	>10,000	2	N	N	100	100	200	300	N	50	50	700	N
HE744C3	>10,000	<2	N	N	100	50	200	100	N	50	150	1,000	N
HE745C3	>10,000	N	N	N	50	20	300	100	N	<50	150	1,500	N
HE746C3	>10,000	<2	30	N	100	50	100	100	10	50	200	300	<200
HE747C3	>10,000	N	N	N	30	30	70	70	<10	<50	50	200	N
HE748C3	10,000	2	N	N	30	300	300	100	15	<50	70	150	N
HE749C3	5,000	<2	N	N	30	100	500	200	<10	70	50	50	N
HE750C3	>10,000	2	N	N	30	100	100	100	70	<50	70	200	N
HE751C3	10,000	N	N	N	20	200	100	150	N	70	30	100	N
HE752C3	>10,000	N	N	N	30	150	100	100	10	50	70	100	N
HE753C3	>10,000	N	N	N	15	150	70	150	N	50	20	50	N
HE754C3	>10,000	N	N	N	15	300	150	150	N	50	30	50	N
HE755C3	>10,000	N	N	N	15	100	100	100	<10	50	50	50	N
HE756C3	>10,000	N	N	N	20	100	150	100	N	<50	70	70	N
HE757C3	>10,000	<2	N	N	20	100	200	N	N	<50	70	50	N
HE758C3	>10,000	N	N	N	15	300	50	200	N	70	<10	50	N
HE759C3	>10,000	<2	N	N	20	200	200	200	20	<50	500	200	N
HE760C3	>10,000	N	70	N	20	200	150	150	N	<50	50	100	N
HE761C3	>10,000	<2	N	N	20	70	100	100	N	50	100	300	N
HE762C3	>10,000	<2	N	N	N	50	30	N	N	N	20	N	N
HE763C3	>10,000	<2	N	N	30	30	200	100	<10	100	70	50	N
HE764C3	>10,000	N	N	N	20	50	70	50	N	<50	50	150	N
HE765C3	>10,000	<2	N	N	30	20	200	50	N	<50	200	70	N
HE766C3	>10,000	N	N	N	50	100	300	N	N	N	100	70	N
HE767C3	>10,000	N	N	N	50	100	100	<50	N	<50	70	50	N
HE768C3	>10,000	<2	N	<50	30	50	200	N	10	N	150	200	N
HE769C3	>10,000	N	N	N	30	200	200	50	N	<50	100	200	N
HE770C3	5,000	N	N	N	50	500	1,500	300	N	N	1,000	50	N
HE771C3	>10,000	N	20	N	20	150	50	200	15	100	50	1,000	N
HE772C3	10,000	<2	N	N	70	150	150	<50	N	70	100	100	N
HE773C3	10,000	N	N	N	70	70	500	N	<10	50	100	100	N
HE774C3	>10,000	N	N	<50	150	50	1,000	N	15	N	500	500	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	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
HE730C3	15	20	500	100	<100	200	<500	>2,000	300
HE731C3	20	30	300	150	N	150	N	>2,000	N
HE732C3	20	20	200	100	<100	300	N	>2,000	500
HE733C3	15	30	200	150	150	150	N	>2,000	200
HE734C3	10	N	<200	100	N	100	N	>2,000	<200
HE735C3	20	50	<200	100	150	200	N	>2,000	N
HE736C3	20	30	300	150	200	200	N	>2,000	<200
HE737C3	15	<20	500	150	300	150	<500	>2,000	500
HE738C3	15	20	500	150	200	150	N	>2,000	500
HE739C3	30	N	700	50	<100	700	500	>2,000	<200
HE740C3	20	N	500	150	2,000	200	N	>2,000	N
HE741C3	20	100	500	50	<100	300	500	>2,000	<200
HE742C3	15	N	500	150	<100	70	N	2,000	N
HE743C3	50	N	500	50	N	1,000	N	>2,000	200
HE744C3	20	N	500	70	<100	150	<500	>2,000	<200
HE745C3	10	N	500	50	N	70	500	2,000	N
HE746C3	15	N	500	100	100	100	N	>2,000	N
HE747C3	10	N	500	100	100	100	N	>2,000	200
HE748C3	30	N	500	500	<100	70	N	500	N
HE749C3	15	20	300	100	150	150	N	2,000	<200
HE750C3	20	N	300	300	N	100	N	500	N
HE751C3	50	N	500	200	N	200	N	>2,000	N
HE752C3	30	N	700	300	N	70	N	1,000	N
HE753C3	50	N	1,000	150	N	150	N	>2,000	N
HE754C3	70	30	500	300	N	200	N	>2,000	N
HE755C3	15	N	500	150	N	100	N	2,000	N
HE756C3	10	N	1,000	200	N	70	N	200	N
HE757C3	10	N	700	200	N	70	N	700	N
HE758C3	50	N	500	200	N	200	N	>2,000	N
HE759C3	20	N	500	100	200	300	N	>2,000	500
HE760C3	30	N	500	150	<100	200	N	>2,000	<200
HE761C3	20	<20	1,500	100	<100	150	N	>2,000	<200
HE762C3	N	N	2,000	100	N	20	N	300	N
HE763C3	10	N	2,000	70	N	100	N	2,000	N
HE764C3	15	50	1,500	150	N	100	N	>2,000	N
HE765C3	<10	N	2,000	50	N	50	N	700	N
HE766C3	<10	N	1,000	100	N	50	N	200	N
HE767C3	10	N	700	150	N	50	N	300	N
HE768C3	N	N	2,000	70	N	30	500	2,000	N
HE769C3	20	N	1,000	200	N	100	N	>2,000	N
HE770C3	70	N	500	200	200	200	N	>2,000	700
HE771C3	50	20	700	200	300	200	N	>2,000	N
HE772C3	20	N	700	150	N	100	N	700	N
HE773C3	15	N	500	150	N	70	N	500	N
HE774C3	10	N	500	100	N	30	700	100	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	Au-ppm	B-ppm
			s	s	s	s	s	s	s	s	s
HE775C3	63 43 52	147 40 10	5.0	3.00	7.00	1.50	500	2.0	1,000	N	30
HE776C3	63 46 40	147 41 0	10.0	.50	2.00	>2.00	200	2.0	N	N	30
HE777C3	63 45 50	147 56 45	2.0	.70	2.00	>2.00	300	N	1,500	N	150
HE778C3	63 46 42	147 40 30	2.0	.50	2.00	>2.00	300	1.0	N	N	50
HE779C3	63 44 40	148 2 30	1.0	.20	.70	>2.00	200	N	N	N	200
HE780C3	63 44 46	148 3 0	1.0	.20	.70	>2.00	200	N	N	N	300
HE781C3	63 46 45	148 6 45	3.0	.10	.50	>2.00	150	1.0	N	N	100
HE782C3	63 46 50	148 6 15	7.0	.30	1.00	>2.00	300	5.0	N	N	100
HE783C3	63 46 40	148 3 15	7.0	.50	1.00	>2.00	200	N	N	N	100
HE784C3	63 46 55	148 3 35	10.0	.15	.30	>2.00	100	<1.0	N	N	50
HE785C3	63 45 38	149 41 10	1.0	.05	.50	>2.00	100	N	N	N	150
HE786C3	63 45 25	149 41 25	5.0	.07	.70	>2.00	150	N	N	N	100
HE787C3	63 46 28	149 43 50	.7	.15	1.50	2.00	300	N	N	N	300
HE788C3	63 46 45	149 49 0	1.0	.10	2.00	2.00	500	N	N	N	200
HE789C3	63 45 24	149 49 40	1.0	.15	2.00	2.00	500	N	N	N	300
HE790C3	63 40 20	149 58 58	.7	.07	.50	2.00	300	5.0	N	N	20
HE791C3	63 43 14	149 56 35	.7	.15	2.00	>2.00	500	N	N	N	100
HE792C3	63 41 12	149 51 10	7.0	.05	.30	2.00	100	<1.0	N	N	70
HE793C3	63 41 28	149 50 45	10.0	.05	.30	2.00	70	N	N	N	70
HE794C3	63 41 35	149 53 45	5.0	.15	.70	>2.00	300	3.0	N	N	200
HE795C3	63 39 50	149 53 30	10.0	.10	.50	1.50	100	1.0	N	N	50
HE796C3	63 38 8	149 53 45	3.0	.07	.50	.20	100	1.0	N	N	100
HE797C3	63 36 0	149 56 15	1.0	.07	.70	1.00	70	N	N	N	500
HE798C3	63 34 50	149 56 30	1.0	.20	5.00	1.50	150	N	N	N	70
HE799C3	63 35 0	149 56 5	1.0	.15	5.00	2.00	200	N	500	N	50
HE800C3	63 34 40	149 52 30	2.0	.30	5.00	2.00	300	N	N	N	70
HE801C3	63 36 5	149 52 15	1.0	.10	2.00	>2.00	150	N	N	N	30
HE802C3	63 36 50	149 52 40	1.0	.10	2.00	>2.00	200	N	<500	N	30
HE803C3	63 37 33	149 50 10	1.0	.20	1.50	>2.00	200	N	N	N	150
HE804C3	63 36 20	149 42 10	2.0	.20	2.00	>2.00	200	3.0	500	N	100
HE805C3	63 36 12	149 41 40	3.0	.10	2.00	>2.00	200	5.0	1,000	N	70
HE806C3	63 38 26	149 37 50	2.0	.50	2.00	>2.00	300	1.0	N	N	1,000
HE807C3	63 40 10	149 40 40	2.0	.50	2.00	>2.00	300	1.0	N	N	700
HE808C3	63 40 32	149 40 45	.5	.20	1.00	>2.00	200	N	N	N	200
HE809C3	63 41 50	149 44 10	3.0	.15	1.00	>2.00	150	1.0	N	N	200
HE810C3	63 59 30	148 34 0	1.0	.15	1.00	>2.00	200	N	N	N	150
HE811C3	63 59 50	148 32 50	1.0	.15	.70	>2.00	200	N	N	N	150
HE812C3	63 58 55	148 27 15	3.0	.20	.50	>2.00	150	5.0	N	N	100
HE813C3	63 58 45	148 23 30	1.5	.15	.20	>2.00	150	N	N	<20	100
HE814C3	63 59 0	148 15 25	2.0	.15	.50	>2.00	150	N	N	N	100
HE815C3	63 57 5	148 19 5	5.0	.10	.50	>2.00	100	2.0	N	N	20
HE816C3	63 56 45	148 23 40	15.0	.10	.15	1.00	100	5.0	<500	N	20
HE817C3	63 50 35	148 34 45	10.0	.10	1.50	>2.00	150	5.0	<500	N	50
HE818C3	63 49 22	148 32 27	20.0	.10	2.00	1.50	100	15.0	<500	N	50
HE819C3	63 48 53	148 33 15	30.0	.10	.20	.50	100	3.0	500	N	50

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Ba-ppm s	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	Sb-ppm s
HE775C3	2,000	<2	N	N	20	150	200	N	N	<50	70	30	N
HE776C3	>10,000	2	N	N	50	50	100	200	N	100	15	300	N
HE777C3	>10,000	<2	N	N	20	150	20	300	10	100	15	300	N
HE778C3	>10,000	2	N	N	20	70	50	200	N	100	N	150	N
HE779C3	>10,000	N	N	N	10	300	50	200	N	50	20	100	N
HE780C3	>10,000	N	N	N	15	300	20	200	N	100	N	30	N
HE781C3	>10,000	N	N	N	30	300	70	200	N	100	50	1,000	N
HE782C3	5,000	2	N	N	100	150	100	200	<10	100	150	700	N
HE783C3	>10,000	<2	N	N	70	200	150	500	N	100	150	200	N
HE784C3	>10,000	N	N	N	70	200	150	150	N	100	200	300	N
HE785C3	3,000	<2	N	N	N	70	15	500	N	50	<10	70	N
HE786C3	>10,000	<2	N	N	30	100	200	500	N	50	100	200	N
HE787C3	1,500	<2	N	N	N	100	10	200	N	50	N	20	N
HE788C3	2,000	<2	N	N	N	300	15	200	N	<50	15	20	N
HE789C3	1,500	N	N	N	N	200	<10	200	N	<50	N	20	N
HE790C3	>10,000	<2	N	N	N	50	150	200	N	50	N	100	N
HE791C3	2,000	<2	N	N	N	50	<10	200	N	70	N	<20	N
HE792C3	>10,000	N	N	N	100	70	200	300	N	<50	200	150	N
HE793C3	>10,000	<2	N	N	150	50	300	300	N	<50	200	500	N
HE794C3	3,000	<2	N	N	30	150	200	300	N	100	15	200	N
HE795C3	10,000	<2	N	N	70	50	200	300	N	<50	100	300	N
HE796C3	>10,000	<2	N	N	20	N	200	<50	N	N	100	20	N
HE797C3	>10,000	<2	N	N	N	30	150	<50	N	<50	20	<20	N
HE798C3	>10,000	<2	N	N	10	200	10	100	N	<50	20	100	N
HE799C3	10,000	N	N	N	10	150	30	100	N	<50	50	100	N
HE800C3	7,000	<2	N	N	10	200	30	70	N	50	30	100	N
HE801C3	>10,000	N	N	N	20	100	20	200	N	50	70	70	N
HE802C3	>10,000	N	N	N	20	70	20	200	N	50	70	70	N
HE803C3	>10,000	N	N	N	20	150	100	200	N	50	50	70	N
HE804C3	>10,000	N	N	N	30	300	50	300	N	50	150	150	N
HE805C3	>10,000	N	N	N	30	100	50	200	<10	<50	150	100	N
HE806C3	>10,000	N	N	N	15	100	50	N	N	<50	30	1,000	N
HE807C3	>10,000	N	N	N	20	100	500	N	N	<50	50	30	N
HE808C3	>10,000	N	N	N	<10	150	<10	100	N	70	N	50	N
HE809C3	>10,000	7	N	N	70	100	150	70	N	<50	200	2,000	N
HE810C3	3,000	<2	N	N	15	150	<10	200	N	50	N	100	N
HE811C3	2,000	<2	N	N	20	200	30	200	N	50	20	300	N
HE812C3	>10,000	<2	N	N	50	150	200	200	N	70	100	200	N
HE813C3	3,000	N	N	N	N	200	N	300	N	100	N	300	N
HE814C3	>10,000	<2	<20	N	30	150	20	300	N	100	20	500	N
HE815C3	>10,000	N	N	N	100	100	200	200	N	70	150	700	N
HE816C3	5,000	N	N	N	150	50	500	150	N	<50	300	200	N
HE817C3	3,000	<2	<20	N	200	100	500	150	N	<50	300	1,000	N
HE818C3	2,000	N	<20	N	200	70	300	150	N	<50	500	1,000	N
HE819C3	2,000	N	N	N	200	20	150	<50	N	N	300	300	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	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
HE775C3	20	N	500	300	<100	50	N	1,000	N
HE776C3	50	N	500	100	N	200	N	>2,000	N
HE777C3	70	50	500	150	300	300	N	>2,000	500
HE778C3	50	20	300	150	N	150	N	>2,000	N
HE779C3	50	N	2,000	150	N	200	N	>2,000	N
HE780C3	70	N	700	150	N	300	N	>2,000	N
HE781C3	70	20	1,000	150	N	300	N	>2,000	N
HE782C3	70	N	300	150	<100	300	N	>2,000	N
HE783C3	50	<20	700	150	N	500	N	>2,000	N
HE784C3	30	50	500	100	N	300	N	>2,000	N
HE785C3	50	100	200	70	N	200	N	>2,000	<200
HE786C3	70	30	300	70	N	300	N	>2,000	<200
HE787C3	20	500	300	100	N	150	N	>2,000	<200
HE788C3	20	1,000	300	100	<100	150	N	>2,000	N
HE789C3	20	700	200	100	N	150	N	>2,000	<200
HE790C3	15	N	500	150	100	70	<500	1,500	N
HE791C3	50	1,000	500	100	150	100	N	>2,000	<200
HE792C3	10	N	200	50	N	100	N	>2,000	N
HE793C3	50	N	200	30	N	300	N	>2,000	<200
HE794C3	100	50	200	70	300	200	N	>2,000	N
HE795C3	15	N	200	50	N	150	N	2,000	N
HE796C3	N	N	1,000	30	N	50	N	200	N
HE797C3	<10	N	2,000	50	N	150	N	>2,000	N
HE798C3	15	N	1,000	70	N	150	500	>2,000	N
HE799C3	15	300	700	100	N	150	500	>2,000	N
HE800C3	20	50	500	100	N	100	500	>2,000	N
HE801C3	50	N	700	100	N	300	N	>2,000	N
HE802C3	20	N	1,000	70	N	200	N	>2,000	N
HE803C3	30	<20	1,000	150	N	200	1,000	>2,000	N
HE804C3	30	N	700	100	N	200	N	>2,000	N
HE805C3	30	N	700	70	N	200	1,000	>2,000	N
HE806C3	15	N	1,000	150	N	50	N	>2,000	N
HE807C3	15	N	700	200	N	50	N	>2,000	N
HE808C3	20	N	700	150	N	200	N	>2,000	N
HE809C3	15	N	1,000	100	N	200	700	>2,000	N
HE810C3	20	50	500	100	N	300	N	>2,000	N
HE811C3	30	70	700	100	N	500	N	>2,000	N
HE812C3	15	N	500	100	N	150	N	>2,000	N
HE813C3	20	70	N	100	<100	200	N	>2,000	N
HE814C3	20	<20	500	100	N	200	N	>2,000	<200
HE815C3	20	30	700	70	N	200	<500	>2,000	N
HE816C3	10	N	200	50	N	70	700	1,000	N
HE817C3	15	N	300	70	N	150	N	>2,000	N
HE818C3	10	N	500	50	N	150	N	>2,000	N
HE819C3	N	N	<200	30	N	70	N	>2,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	Au-ppm	B-ppm
			s	s	s	s	s	s	s	s	s
HE820C3	63 49 35	148 36 30	50.0	.10	.20	.70	100	10.0	700	N	50
HE821C3	63 52 5	148 39 40	20.0	.10	.50	2.00	100	2.0	2,000	N	50
HE822C3	63 51 32	148 37 20	10.0	.10	1.50	>2.00	200	2.0	N	N	70
HE823C3	63 51 15	148 36 55	20.0	.07	1.00	2.00	150	5.0	<500	N	50
HE824C3	63 52 26	148 34 0	10.0	.10	1.00	>2.00	200	5.0	N	N	70
HE825C3	63 50 0	148 10 26	15.0	.07	1.50	>2.00	150	20.0	<500	N	50
HE826C3	63 50 4	148 7 30	20.0	.07	.50	1.00	100	20.0	1,000	N	20
HE827C3	63 51 48	148 6 25	20.0	.05	1.50	1.00	100	50.0	1,000	N	20
HE828C3	63 51 30	148 6 2	10.0	.20	5.00	2.00	200	100.0	5,000	N	50
HE829C3	63 51 10	147 42 10	5.0	.20	2.00	>2.00	150	30.0	10,000	N	150
HE830C3	63 51 20	147 39 20	20.0	.05	.20	1.00	100	10.0	2,000	N	20
HE831C3	63 58 52	149 7 40	.5	.15	2.00	>2.00	150	N	N	N	100
HE832C3	63 56 0	149 6 20	1.0	.30	5.00	>2.00	300	N	N	N	100
HE833C3	63 55 3	149 5 5	1.0	.70	5.00	>2.00	500	10.0	N	100	100
HE834C3	63 51 10	147 39 30	1.5	.30	7.00	2.00	200	100.0	2,000	50	100
HE835C3	63 52 3	147 45 15	5.0	.30	1.50	2.00	200	15.0	<500	N	100
HE836C3	63 49 51	147 47 20	2.0	.30	2.00	2.00	200	N	1,000	N	70
HE837C3	63 49 36	147 47 50	3.0	.50	1.00	1.00	150	10.0	15,000	N	200
HE838C3	63 49 32	147 42 55	2.0	.70	3.00	2.00	200	2.0	<500	N	100
HE840C3	63 48 4	147 37 35	1.0	.20	2.00	>2.00	200	N	<500	N	50
HE841C3	63 58 25	147 54 30	1.5	.20	.15	>2.00	200	N	N	N	50
HE842C3	63 57 15	147 57 30	2.0	.30	.50	>2.00	150	<1.0	N	N	100
HE843C3	63 55 56	147 58 15	1.0	.50	.50	>2.00	200	N	N	N	200
HE844C3	63 43 22	149 15 10	10.0	.30	.70	2.00	150	5.0	N	N	150
HE845C3	63 42 57	149 8 50	5.0	.30	.70	2.00	200	2.0	N	N	300
HE846C3	63 43 35	148 58 25	20.0	.15	.30	1.00	100	5.0	500	N	20
HE847C3	63 22 33	149 2 0	1.0	1.50	3.00	>2.00	500	N	N	N	150
HE848C3	63 19 43	149 22 0	2.0	.50	5.00	>2.00	300	2.0	700	N	150
HE849C3	63 21 0	149 8 46	1.5	.50	.30	.30	1,000	N	<500	N	50
HE850C3	63 30 28	148 40 20	1.5	.70	1.00	>2.00	1,000	N	N	N	100
HE851C3	63 30 31	148 41 50	1.5	.20	.70	>2.00	500	N	N	N	150
HE852C3	63 31 18	148 43 10	2.0	.50	1.50	>2.00	700	N	N	N	500
HE853C3	63 32 51	148 43 50	2.0	.70	1.00	>2.00	500	N	N	N	200
HE854C3	63 32 38	148 44 20	.5	.15	.70	>2.00	200	N	N	N	300
HE855C3	63 34 10	148 46 45	1.0	.70	1.00	>2.00	300	N	500	N	500
HE856C3	63 14 46	149 25 15	1.5	2.00	2.00	>2.00	700	N	N	N	500
HE857C3	63 12 42	149 28 4	2.0	1.00	3.00	>2.00	500	N	N	N	500
HE858C3	63 19 42	149 27 40	7.0	.70	2.00	.50	700	15.0	700	N	70
HE859C3	63 20 35	149 26 25	2.0	5.00	7.00	.50	700	N	N	N	70
HE860C3	63 22 35	149 20 45	2.0	2.00	10.00	.15	500	1,000.0	N	N	>5,000
HE861C3	63 25 20	149 17 50	10.0	.20	5.00	1.00	100	20.0	N	N	500
HE862C3	63 25 10	149 17 30	3.0	.20	3.00	>2.00	150	10.0	N	N	100
HE863C3	63 27 10	149 13 0	5.0	.20	3.00	.50	200	2.0	1,000	N	150
HE865C3	63 24 44	149 9 28	1.0	.30	10.00	2.00	5,000	<1.0	700	N	700
HE866C3	63 24 52	149 6 20	1.0	.15	10.00	2.00	2,000	30.0	15,000	70	500

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Ba-ppm s	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	Sb-ppm s
HE820C3	2,000	N	N	N	300	30	500	N	N	N	500	1,000	N
HE821C3	2,000	N	N	N	300	70	500	100	N	<50	700	500	N
HE822C3	2,000	N	N	N	300	100	300	150	N	<50	500	300	N
HE823C3	1,000	N	N	N	300	50	500	100	N	<50	700	500	N
HE824C3	1,500	N	N	N	200	70	500	150	N	50	500	500	N
HE825C3	3,000	N	50	N	200	50	300	100	N	50	500	1,500	N
HE826C3	2,000	N	20	N	200	20	300	<50	N	N	700	1,500	N
HE827C3	5,000	N	30	N	300	20	300	<50	N	<50	500	3,000	N
HE828C3	1,500	<2	150	N	200	70	500	100	N	<50	150	7,000	N
HE829C3	>10,000	<2	20	N	100	70	150	100	N	50	100	3,000	N
HE830C3	>10,000	N	N	N	100	20	500	N	N	N	500	500	N
HE831C3	>10,000	<2	N	N	<10	200	<10	150	N	70	<10	100	N
HE832C3	3,000	N	N	N	10	70	10	70	N	<50	20	100	N
HE833C3	2,000	N	N	N	20	150	10	N	N	<50	20	50	N
HE834C3	2,000	N	N	N	30	100	100	200	10	<50	30	1,500	N
HE835C3	>10,000	2	50	N	50	70	150	200	N	70	70	1,500	N
HE836C3	3,000	<2	N	N	50	50	100	150	10	<50	50	200	N
HE837C3	>10,000	N	N	N	50	100	150	70	10	<50	150	1,000	<200
HE838C3	10,000	<2	N	N	50	100	100	200	N	<50	50	150	N
HE840C3	2,000	N	N	N	70	100	100	200	N	<50	20	150	N
HE841C3	1,000	N	N	N	<10	150	<10	500	N	100	N	150	N
HE842C3	>10,000	<2	<20	N	20	100	20	500	<10	100	N	500	N
HE843C3	10,000	2	<20	N	20	150	50	150	N	50	50	300	N
HE844C3	5,000	<2	N	N	150	100	500	200	N	<50	200	1,000	N
HE845C3	5,000	<2	N	N	100	100	500	300	N	<50	150	1,000	N
HE846C3	2,000	N	N	N	200	50	1,000	300	N	N	300	1,500	N
HE847C3	>10,000	N	N	N	20	1,000	30	50	N	<50	50	100	N
HE848C3	>10,000	N	N	N	50	500	100	200	<10	<50	200	300	N
HE849C3	>10,000	N	N	N	30	100	70	N	N	N	100	50	300
HE850C3	5,000	N	N	N	20	150	100	<50	N	50	50	150	N
HE851C3	5,000	N	N	N	15	500	50	150	N	70	20	50	<200
HE852C3	7,000	N	N	N	20	500	200	200	N	70	50	50	N
HE853C3	5,000	N	N	N	20	1,000	30	100	N	50	30	50	200
HE854C3	1,000	N	N	N	<10	200	<10	150	N	<50	<10	30	N
HE855C3	2,000	N	N	N	10	500	10	200	N	<50	20	30	N
HE856C3	1,500	N	<20	N	20	1,000	<10	200	N	<50	70	30	N
HE857C3	1,500	N	N	N	20	1,000	20	200	N	<50	70	50	N
HE858C3	>10,000	N	N	50	100	700	200	100	20	<50	500	500	N
HE859C3	10,000	N	N	N	50	2,000	50	70	<10	N	200	70	N
HE860C3	10,000	3	N	<50	20	1,500	1,000	500	N	N	200	500	1,000
HE861C3	>10,000	N	N	N	100	150	300	50	N	<50	200	200	N
HE862C3	10,000	<2	N	150	70	200	500	150	N	70	150	2,000	N
HE863C3	>10,000	N	N	100	30	150	100	N	N	N	150	1,500	N
HE865C3	10,000	<2	30	N	30	150	20	500	N	70	70	150	N
HE866C3	2,000	2	70	N	200	50	15	700	N	<50	300	100	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	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
HE820C3	<10	N	<200	30	N	100	<500	>2,000	N
HE821C3	15	N	200	70	N	70	N	>2,000	N
HE822C3	20	N	500	70	N	150	N	>2,000	N
HE823C3	10	N	200	50	N	100	N	>2,000	N
HE824C3	15	N	200	50	N	100	N	>2,000	N
HE825C3	15	N	300	30	N	200	N	>2,000	N
HE826C3	N	N	200	20	100	100	N	>2,000	N
HE827C3	10	N	300	30	<100	150	N	>2,000	N
HE828C3	15	N	500	50	150	150	N	>2,000	N
HE829C3	15	200	500	100	300	200	N	>2,000	N
HE830C3	N	N	200	30	N	100	500	>2,000	N
HE831C3	20	100	300	100	N	150	N	>2,000	N
HE832C3	15	150	500	100	N	100	N	>2,000	N
HE833C3	15	700	500	150	N	100	N	>2,000	N
HE834C3	20	100	500	100	200	200	N	>2,000	300
HE835C3	30	N	1,000	50	N	300	N	>2,000	N
HE836C3	30	50	500	100	100	200	N	>2,000	1,000
HE837C3	10	1,500	700	150	200	100	500	>2,000	500
HE838C3	20	50	500	200	150	200	N	>2,000	1,000
HE840C3	20	30	500	100	N	200	N	>2,000	1,000
HE841C3	20	<20	N	70	N	200	N	>2,000	<200
HE842C3	20	<20	500	70	N	200	N	>2,000	<200
HE843C3	20	200	300	100	N	200	N	>2,000	N
HE844C3	30	N	300	70	N	300	N	>2,000	N
HE845C3	20	N	300	70	N	300	N	>2,000	<200
HE846C3	15	N	<200	50	N	200	500	>2,000	<200
HE847C3	20	100	500	100	N	150	<500	>2,000	N
HE848C3	20	50	1,500	100	N	200	1,000	>2,000	N
HE849C3	10	150	1,000	50	N	50	N	2,000	N
HE850C3	15	<20	<200	100	N	100	N	2,000	N
HE851C3	30	N	500	150	N	150	N	>2,000	N
HE852C3	30	N	500	150	N	150	N	>2,000	N
HE853C3	30	N	700	150	N	200	N	>2,000	N
HE854C3	30	20	500	150	N	200	N	>2,000	N
HE855C3	50	<20	500	200	N	300	N	>2,000	N
HE856C3	30	1,000	500	200	200	200	N	>2,000	N
HE857C3	20	>2,000	500	150	150	200	N	>2,000	N
HE858C3	10	50	700	150	N	150	5,000	>2,000	N
HE859C3	30	100	1,000	300	N	200	500	>2,000	N
HE860C3	15	<20	1,000	150	200	300	1,000	>2,000	N
HE861C3	10	N	1,500	100	N	100	N	1,500	N
HE862C3	15	150	1,000	150	N	200	5,000	>2,000	N
HE863C3	<10	N	1,000	100	N	50	2,000	700	N
HE865C3	20	700	700	50	300	1,000	N	>2,000	<200
HE866C3	20	30	N	70	500	1,000	N	>2,000	500

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	Au-ppm	B-ppm
			s	s	s	s	s	s	s	s	s
HE867C3	63 24 40	149 0 30	10.0	1.50	2.00	1.00	1,000	15.0	700	N	70
HE868C3	63 11 0	149 34 0	2.0	1.00	2.00	1.50	200	N	700	N	300
HE869C3	63 10 0	149 34 58	30.0	.20	.50	.70	150	50.0	20,000	50	20
HE870C3	63 13 50	149 36 0	20.0	.20	1.00	1.00	150	300.0	>20,000	500	30
HE871C3	63 14 20	149 33 25	15.0	.15	3.00	1.00	200	3,000.0	>20,000	>1,000	20
HE872C3	63 11 40	147 49 25	.7	1.00	7.00	2.00	500	2.0	<500	N	100
HE873C3	63 35 5	147 52 30	2.0	1.00	5.00	1.50	700	20.0	2,000	20	150
HE874C3	63 38 46	147 45 20	20.0	.15	1.00	.70	150	7.0	700	N	<20
HE875C3	63 38 45	147 45 48	3.0	.30	2.00	>2.00	200	3.0	N	N	30
HE876C3	63 38 16	147 46 52	10.0	.70	5.00	1.00	500	5.0	700	N	20
HE877C3	63 37 28	147 52 0	2.0	1.50	7.00	1.00	700	<1.0	N	N	50
HE878C3	63 35 40	148 0 20	5.0	.70	5.00	1.00	500	2.0	<500	N	20
HE879C3	63 38 30	148 18 36	1.0	.70	5.00	>2.00	300	N	N	N	100
HE880C3	63 39 8	148 19 30	1.0	1.00	7.00	>2.00	500	N	N	N	70
HE881C3	63 39 22	148 25 35	1.0	.50	5.00	>2.00	300	15.0	N	<20	70
HE882C3	63 40 45	148 26 0	1.5	1.00	5.00	>2.00	500	N	500	N	70
HE883C3	63 41 0	148 32 10	1.0	.70	5.00	2.00	300	N	N	N	70
HE884C3	63 40 28	148 38 30	1.0	.70	5.00	2.00	500	N	N	N	50
HE885C3	63 40 42	148 42 0	1.5	.70	5.00	2.00	500	N	N	N	50
HE886C3	63 43 25	148 48 50	5.0	.10	1.50	>2.00	200	N	N	N	20
HE887C3	63 43 30	148 51 20	5.0	.10	1.50	>2.00	200	5.0	500	N	50
HE888C3	63 44 0	148 45 18	20.0	.10	.50	2.00	100	20.0	1,000	N	20
HE889C3	63 44 0	148 42 50	3.0	2.00	5.00	>2.00	300	N	N	N	200
HE890C3	63 42 18	148 37 4	1.0	.70	5.00	>2.00	300	N	N	N	100
HE891C3	63 44 0	148 28 15	1.0	.30	2.00	>2.00	200	20.0	N	30	150
HE892C3	63 43 50	148 27 40	1.5	.20	3.00	>2.00	200	N	N	N	100
HE893C3	63 42 18	148 24 40	1.0	.50	5.00	>2.00	300	N	N	N	50
HE894C3	63 11 40	148 3 46	.5	1.00	7.00	>2.00	200	N	N	N	100
HE895C3	63 12 54	148 10 15	.5	1.00	7.00	>2.00	300	N	N	N	150
HE896C3	63 14 50	148 19 0	.5	1.00	5.00	>2.00	200	N	N	N	150
HE897C3	63 16 0	148 26 46	.5	.10	7.00	>2.00	300	N	N	N	20
HE898C3	63 16 8	148 26 20	.7	.10	5.00	>2.00	300	N	N	<20	<20
HE899C3	63 14 56	148 26 40	.5	.10	5.00	>2.00	500	N	N	<20	20
HE900C3	63 14 50	148 27 15	.5	.05	5.00	>2.00	300	N	N	N	<20
HE901C3	63 13 35	148 35 0	3.0	.10	10.00	>2.00	500	20.0	2,000	100	30
HE902C3	63 13 20	148 35 10	2.0	.05	1.00	>2.00	100	N	N	N	20
HE904C3	63 12 35	148 31 20	1.0	.30	10.00	>2.00	500	N	N	N	30
HE905C3	63 12 28	148 39 0	.5	.07	.50	>2.00	200	N	N	N	50
HE906C3	63 13 42	148 42 5	5.0	.07	1.00	>2.00	200	150.0	>20,000	20	50
HE907C3	63 13 40	148 43 10	3.0	.10	3.00	>2.00	200	500.0	3,000	N	50
HE908C3	63 14 30	148 50 35	3.0	.07	.50	>2.00	300	200.0	N	150	50
HE909C3	63 14 30	148 51 1	5.0	.15	1.00	>2.00	300	2.0	N	N	500
HE910C3	63 17 28	148 49 30	5.0	.20	.70	>2.00	150	N	N	N	50
HE912C3	63 9 47	148 52 45	2.0	.15	1.00	>2.00	200	N	3,000	N	50
HE913C3	63 8 29	148 48 46	3.0	.10	5.00	>2.00	300	20.0	3,000	N	30

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Ba-ppm s	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	Sb-ppm s
HE867C3	>10,000	N	N	<50	100	1,000	150	200	15	<50	300	300	N
HE868C3	2,000	N	N	N	20	1,000	20	200	N	<50	70	<20	N
HE869C3	3,000	N	100	N	100	200	200	50	N	N	200	70	N
HE870C3	>10,000	N	150	N	1,000	300	5,000	N	N	<50	1,500	3,000	500
HE871C3	10,000	2	500	N	2,000	150	700	100	N	N	1,500	1,000	500
HE872C3	1,500	N	30	N	15	200	<10	100	N	<50	30	50	N
HE873C3	3,000	<2	<20	N	30	500	50	70	<10	<50	100	100	N
HE874C3	5,000	N	N	<50	70	30	300	50	<10	<50	200	150	N
HE875C3	>10,000	N	N	N	50	150	300	70	<10	50	70	150	N
HE876C3	5,000	N	N	N	50	100	500	<50	N	<50	200	100	N
HE877C3	2,000	N	N	N	30	150	70	N	N	N	70	20	N
HE878C3	>10,000	N	N	N	50	70	150	N	<10	N	100	30	N
HE879C3	3,000	N	N	N	15	150	15	50	N	<50	30	20	N
HE880C3	3,000	N	N	N	15	200	20	50	N	<50	30	20	N
HE881C3	3,000	N	N	N	15	300	15	70	N	50	20	30	N
HE882C3	5,000	N	N	N	20	200	50	50	<10	50	50	70	N
HE883C3	1,500	N	N	N	15	200	10	150	N	50	20	<20	N
HE884C3	3,000	N	N	N	15	100	10	50	N	50	20	20	N
HE885C3	10,000	N	N	N	20	150	15	50	N	50	30	30	N
HE886C3	10,000	N	N	N	50	150	20	100	N	70	70	70	N
HE887C3	>10,000	N	N	N	50	100	150	150	N	50	100	700	N
HE888C3	>10,000	N	N	<50	100	70	100	70	<10	<50	200	200	200
HE889C3	2,000	N	N	N	70	700	20	200	30	100	70	50	N
HE890C3	2,000	N	N	N	20	300	10	N	N	50	20	20	N
HE891C3	>10,000	N	N	N	15	500	10	100	N	50	20	30	N
HE892C3	10,000	N	N	N	20	300	20	100	N	70	30	50	N
HE893C3	1,500	N	N	N	20	150	15	200	N	50	<10	30	N
HE894C3	1,500	N	N	N	<10	150	<10	150	N	N	N	<20	N
HE895C3	1,000	N	N	N	10	200	N	70	N	<50	N	<20	N
HE896C3	1,000	N	N	N	10	200	N	100	N	<50	<10	<20	N
HE897C3	200	N	N	N	N	100	N	200	N	100	N	20	N
HE898C3	200	N	N	N	N	100	N	300	N	100	N	<20	N
HE899C3	500	N	N	N	N	150	N	500	N	100	20	20	N
HE900C3	200	N	N	N	N	100	N	500	N	70	15	<20	N
HE901C3	1,000	2	N	N	10	150	30	200	50	50	50	50	N
HE902C3	700	2	N	N	N	30	<10	200	<10	100	N	100	N
HE904C3	700	20	N	N	<10	100	<10	500	N	70	N	50	N
HE905C3	1,000	2	100	N	N	50	<10	300	N	50	N	50	N
HE906C3	2,000	2	200	N	20	50	150	150	N	50	100	300	200
HE907C3	700	2	N	N	10	100	20	200	<10	100	N	200	200
HE908C3	>10,000	<2	50	50	10	70	20	100	<10	50	20	50	N
HE909C3	>10,000	N	N	<50	30	100	70	>2,000	10	50	150	70	N
HE910C3	10,000	N	N	N	15	200	50	100	N	70	50	20	N
HE912C3	10,000	<2	N	N	15	70	15	200	N	50	30	50	N
HE913C3	500	2	<20	N	30	70	20	200	<10	100	50	1,500	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	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
HE867C3	30	1,000	500	100	100	300	1,000	>2,000	<200
HE868C3	15	>2,000	200	100	100	100	N	>2,000	N
HE869C3	<10	300	<200	70	300	70	N	>2,000	N
HE870C3	10	50	500	70	N	50	<500	2,000	N
HE871C3	15	300	700	50	300	200	500	>2,000	N
HE872C3	20	20	700	200	<100	200	N	>2,000	<200
HE873C3	15	30	500	700	500	100	N	2,000	N
HE874C3	N	N	300	100	N	50	1,000	500	N
HE875C3	20	N	700	300	N	150	500	200	N
HE876C3	10	N	500	150	N	50	N	150	N
HE877C3	15	N	500	200	N	50	N	200	N
HE878C3	10	N	500	150	N	50	N	>2,000	<200
HE879C3	20	70	300	200	<100	150	N	>2,000	200
HE880C3	20	50	500	200	N	200	N	>2,000	300
HE881C3	30	700	300	200	150	150	N	>2,000	200
HE882C3	20	1,500	500	200	100	150	N	>2,000	200
HE883C3	15	50	500	150	N	150	N	>2,000	N
HE884C3	10	300	500	150	150	100	N	2,000	N
HE885C3	10	N	700	100	N	100	N	>2,000	N
HE886C3	10	N	700	100	N	150	1,500	>2,000	N
HE887C3	15	200	700	100	N	200	1,500	>2,000	N
HE888C3	10	N	500	50	N	100	2,000	>2,000	N
HE889C3	20	20	500	100	N	150	700	>2,000	N
HE890C3	10	N	500	150	N	70	N	>2,000	N
HE891C3	20	N	500	100	<100	150	1,000	>2,000	N
HE892C3	20	<20	500	150	N	150	N	>2,000	N
HE893C3	15	20	500	150	N	200	N	2,000	N
HE894C3	10	20	500	150	N	200	N	>2,000	N
HE895C3	10	20	500	150	N	150	N	>2,000	N
HE896C3	15	100	500	150	100	300	N	>2,000	N
HE897C3	20	200	N	100	N	1,000	N	>2,000	200
HE898C3	20	200	N	100	N	1,000	N	2,000	N
HE899C3	20	300	N	100	N	1,500	N	2,000	N
HE900C3	20	200	N	100	N	1,000	N	>2,000	<200
HE901C3	15	150	200	100	3,000	500	N	>2,000	N
HE902C3	20	1,500	N	70	150	300	N	>2,000	N
HE904C3	15	50	700	100	<100	500	N	>2,000	N
HE905C3	50	150	N	70	N	1,000	N	>2,000	N
HE906C3	20	1,500	200	70	300	700	N	>2,000	N
HE907C3	30	200	200	150	<100	500	N	>2,000	N
HE908C3	70	700	200	150	N	500	1,500	>2,000	N
HE909C3	20	500	500	150	N	200	1,000	>2,000	<200
HE910C3	50	N	500	100	N	150	N	>2,000	N
HE912C3	50	100	200	100	<100	500	<500	>2,000	N
HE913C3	20	150	N	100	700	1,000	N	>2,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy 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
HE914C3	63 8 42	148 48 50	15.0	.10	.70	2.00	150	20.0	500	N	20
HE915C3	63 8 10	148 44 2	10.0	.07	1.00	>2.00	150	300.0	2,000	N	50
HE916C3	63 10 40	148 45 32	1.5	.05	.10	>2.00	200	5.0	N	N	100
HE917C3	63 27 20	148 51 48	5.0	.20	2.00	>2.00	150	N	2,000	N	100
HE918C3	63 30 57	148 53 10	1.0	.20	.50	>2.00	150	N	N	N	100
HE919C3	63 29 50	148 53 48	5.0	.10	2.00	2.00	150	N	700	N	1,000
HE920C3	63 29 23	148 44 40	1.0	.10	.50	>2.00	100	N	N	N	100
HE921C3	63 29 15	148 45 5	.7	.10	.70	>2.00	150	N	N	N	300
HE922C3	63 33 2	148 50 0	1.0	.70	2.00	>2.00	300	N	N	N	150
HE923C3	63 34 20	148 50 30	.5	.20	1.00	>2.00	200	2.0	N	N	200
HE924C3	63 32 33	148 58 30	.7	.20	.30	>2.00	200	N	N	N	5,000
HE925C3	63 24 35	147 34 48	.7	1.50	3.00	>2.00	300	N	N	N	300
HE926C3	63 28 12	147 33 20	3.0	.20	2.00	>2.00	200	50.0	1,500	20	70
HE927C3	63 29 15	147 32 15	1.5	.20	3.00	>2.00	300	3.0	N	N	150
HE928C3	63 26 0	147 29 20	2.0	1.50	5.00	2.00	300	2.0	1,000	N	150
HE929C3	63 18 42	147 32 0	.7	2.00	5.00	2.00	500	N	N	N	200
HE930C3	63 14 15	147 48 4	.7	1.00	5.00	2.00	500	N	N	N	200
HE931C3	63 12 38	147 40 10	.5	1.50	5.00	2.00	300	N	N	N	150
HE932C3	63 11 28	147 37 2	.5	1.00	5.00	2.00	500	N	N	N	300
HE933C3	63 5 50	149 12 45	15.0	.07	1.50	2.00	150	10.0	3,000	N	50
HE934C3	63 7 42	149 12 10	.7	.07	1.00	2.00	200	N	N	N	5,000
HE935C3	63 7 30	149 11 58	20.0	.05	1.50	2.00	70	20.0	2,000	N	30
HE936C3	63 6 0	149 13 8	5.0	.10	2.00	>2.00	150	50.0	3,000	N	150
HE937C3	63 5 52	149 14 10	.7	.10	.20	>2.00	200	N	1,500	N	1,000
HE938C3	63 3 45	149 21 2	.3	.05	.15	>2.00	150	N	N	N	200
HE939C3	63 3 55	149 21 10	1.0	.10	1.00	>2.00	200	7.0	700	N	300
HE940C3	63 3 35	149 29 20	15.0	.10	.50	>2.00	100	10.0	2,000	N	20
HE941C3	63 1 40	149 31 0	15.0	.10	1.50	2.00	300	200.0	5,000	N	30
HE942C3	63 2 10	149 29 15	10.0	.05	1.50	2.00	300	7,000.0	3,000	N	20
HE943C3	63 2 20	149 29 5	1.0	.07	5.00	>2.00	300	50.0	5,000	N	30
HE945C3	63 16 12	149 31 33	1.5	.10	.50	>2.00	200	500.0	20,000	1,000	100
HE946C3	63 16 19	149 37 40	2.0	1.00	5.00	2.00	300	700.0	5,000	1,000	20
HE947C3	63 16 25	149 37 28	3.0	2.00	5.00	1.00	700	500.0	1,000	20	300
HE948C3	63 18 2	149 34 46	1.0	2.00	5.00	1.00	500	10.0	500	N	150
HE949C3	63 17 6	149 32 20	2.0	3.00	5.00	1.00	700	7.0	2,000	N	200
HE950C3	63 54 15	147 29 7	3.0	.20	.70	>2.00	150	20.0	N	N	100
HE951C3	63 53 30	147 28 28	2.0	.07	.30	1.50	150	5.0	N	N	70
HE952C3	63 52 48	147 30 27	10.0	.07	.50	2.00	150	300.0	500	N	100
HE953C3	63 51 35	147 30 52	1.0	.10	1.50	>2.00	100	7.0	<500	N	70
HE954C3	63 51 37	147 31 16	15.0	.10	1.00	2.00	150	200.0	5,000	N	20
HE955C3	63 48 24	147 32 15	2.0	.10	1.00	>2.00	200	50.0	500	100	70
HE956C3	63 47 48	147 34 0	2.0	.10	1.00	2.00	100	N	N	N	50
HE957C3	63 46 45	149 1 58	30.0	.05	.20	.30	30	1.5	500	N	20
HE958C3	63 46 55	149 5 18	20.0	.07	.50	1.50	70	10.0	<500	N	20
HE959C3	63 47 18	149 16 43	20.0	.10	3.00	2.00	100	15.0	N	N	70

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Ba-ppm s	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	Sb-ppm s
HE914C3	>10,000	<2	30	N	30	30	30	100	N	<50	150	500	N
HE915C3	1,500	<2	70	50	20	30	500	200	70	<50	70	1,500	<200
HE916C3	700	3	N	N	N	30	10	300	10	50	15	150	N
HE917C3	10,000	<2	N	N	50	100	200	100	N	50	70	150	N
HE918C3	700	N	N	N	10	300	15	150	N	70	N	30	N
HE919C3	1,000	<2	N	N	50	50	70	50	N	50	70	100	N
HE920C3	7,000	N	N	N	<10	100	10	200	N	100	N	30	N
HE921C3	1,000	<2	N	N	<10	150	10	150	N	70	N	30	N
HE922C3	2,000	N	N	N	N	150	15	100	N	<50	10	20	N
HE923C3	500	N	N	<50	<10	150	20	<50	N	50	N	20	N
HE924C3	1,000	30	200	N	10	200	20	100	N	70	50	30	N
HE925C3	700	N	<20	N	<10	150	10	70	N	<50	N	<20	N
HE926C3	10,000	N	N	N	100	70	100	N	N	50	70	1,000	N
HE927C3	7,000	N	N	N	20	100	70	N	N	50	20	100	N
HE928C3	2,000	N	N	N	70	100	70	70	<10	<50	100	70	N
HE929C3	1,000	N	N	N	<10	150	<10	100	<10	<50	30	20	N
HE930C3	1,000	N	N	N	10	200	10	100	<10	<50	20	<20	N
HE931C3	1,000	N	N	N	<10	200	<10	100	<10	<50	20	20	N
HE932C3	1,000	N	N	N	<10	150	N	100	N	<50	20	N	N
HE933C3	>10,000	N	N	N	30	50	1,500	<50	N	70	100	1,000	N
HE934C3	3,000	N	N	N	<10	70	100	50	N	<50	15	200	N
HE935C3	1,000	N	N	N	30	50	100	N	N	<50	100	500	200
HE936C3	2,000	N	100	N	20	70	1,000	70	N	50	100	2,000	<200
HE937C3	500	<2	200	N	15	300	30	150	N	70	N	30	N
HE938C3	500	N	<20	N	N	50	<10	500	N	50	N	<20	N
HE939C3	500	<2	200	N	20	200	20	300	20	<50	30	1,000	N
HE940C3	1,000	N	N	N	50	70	100	N	N	50	100	70	<200
HE941C3	500	<2	N	N	50	150	200	300	30	<50	150	150	200
HE942C3	2,000	<2	N	N	50	20	3,000	500	50	<50	20	15,000	N
HE943C3	300	70	50	N	N	30	20	500	70	50	N	300	N
HE945C3	1,000	N	20	N	300	500	20	150	N	N	150	200	N
HE946C3	2,000	N	N	N	50	1,000	50	200	N	N	100	200	N
HE947C3	7,000	2	N	<50	30	1,500	100	100	N	<50	150	2,000	N
HE948C3	7,000	<2	N	N	20	2,000	100	200	N	N	150	300	N
HE949C3	10,000	N	N	N	50	1,500	200	100	N	N	200	70	N
HE950C3	>10,000	<2	<20	N	100	100	100	500	N	70	100	3,000	N
HE951C3	>10,000	<2	20	N	70	50	150	100	N	<50	70	1,500	N
HE952C3	10,000	<2	20	N	500	100	1,000	200	N	<50	300	1,500	N
HE953C3	10,000	2	<20	N	20	100	20	100	N	<50	70	1,000	N
HE954C3	7,000	<2	100	N	200	50	500	200	N	<50	700	5,000	N
HE955C3	3,000	N	N	N	50	150	150	150	20	<50	70	100	N
HE956C3	7,000	<2	<20	N	20	70	150	150	N	100	30	150	N
HE957C3	1,500	N	N	N	150	20	100	70	N	N	200	500	N
HE958C3	5,000	<2	30	N	200	30	200	200	N	50	300	2,000	N
HE959C3	7,000	<2	30	N	200	70	200	200	N	50	150	2,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	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
HE914C3	10	<20	700	70	150	200	N	>2,000	N
HE915C3	20	50	N	70	N	500	2,000	>2,000	N
HE916C3	30	500	N	70	N	1,000	N	>2,000	N
HE917C3	15	100	500	150	100	150	1,000	>2,000	N
HE918C3	30	>2,000	200	200	N	150	N	>2,000	N
HE919C3	<10	2,000	200	100	N	100	N	>2,000	N
HE920C3	30	<20	300	200	<100	150	N	>2,000	N
HE921C3	20	<20	<200	150	<100	100	N	>2,000	N
HE922C3	15	>2,000	500	200	150	150	N	>2,000	N
HE923C3	30	>2,000	<200	200	<100	150	700	>2,000	<200
HE924C3	20	>2,000	200	200	150	150	N	>2,000	N
HE925C3	15	300	300	200	<100	100	N	>2,000	N
HE926C3	10	30	300	200	<100	100	N	>2,000	N
HE927C3	10	20	200	200	<100	150	<500	700	N
HE928C3	10	50	500	200	100	150	N	>2,000	N
HE929C3	10	30	500	200	N	100	N	>2,000	N
HE930C3	10	20	500	200	100	150	N	>2,000	200
HE931C3	15	20	500	200	N	150	N	>2,000	N
HE932C3	10	70	500	200	<100	150	N	>2,000	N
HE933C3	15	1,500	1,000	50	N	150	N	1,500	N
HE934C3	<10	500	500	100	N	100	N	>2,000	N
HE935C3	10	1,500	300	70	N	100	500	>2,000	N
HE936C3	30	2,000	1,000	100	300	200	500	>2,000	N
HE937C3	>200	>2,000	N	150	150	300	N	>2,000	N
HE938C3	50	>2,000	N	70	300	200	N	>2,000	<200
HE939C3	200	>2,000	<200	70	150	1,000	N	>2,000	700
HE940C3	30	1,000	200	30	200	100	N	>2,000	N
HE941C3	20	50	200	50	150	300	N	>2,000	<200
HE942C3	30	>2,000	N	30	100	700	500	>2,000	<200
HE943C3	50	>2,000	500	30	300	700	N	>2,000	200
HE945C3	50	1,500	N	70	N	500	N	>2,000	N
HE946C3	20	200	500	150	N	500	500	>2,000	N
HE947C3	30	>2,000	1,000	150	<100	200	1,500	>2,000	N
HE948C3	30	150	700	150	N	300	<500	>2,000	N
HE949C3	50	300	700	200	N	200	2,000	>2,000	N
HE950C3	20	<20	700	100	N	300	N	>2,000	<200
HE951C3	15	N	1,000	50	N	200	N	>2,000	N
HE952C3	30	N	500	70	N	500	<500	>2,000	N
HE953C3	70	N	700	50	300	1,000	N	>2,000	N
HE954C3	10	N	500	70	500	150	N	>2,000	<200
HE955C3	50	20	N	200	200	700	N	>2,000	<200
HE956C3	15	N	<200	100	N	100	N	>2,000	N
HE957C3	N	N	<200	<20	N	100	500	1,500	N
HE958C3	10	N	200	50	N	200	N	>2,000	N
HE959C3	20	N	700	70	N	500	N	>2,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy 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
HE960C3	63 46 56	149 23 55	15.0	.30	2.00	>2.00	200	1.0	N	N	300
HE961C3	63 46 13	149 48 37	2.0	.20	1.00	>2.00	300	N	N	N	200
HE962C3	63 44 43	149 42 44	5.0	.07	1.00	>2.00	100	1.0	N	N	70
HE963C3	63 43 41	149 43 55	5.0	.20	1.00	>2.00	300	N	N	N	150
HE964C3	63 39 25	149 18 55	5.0	2.00	2.00	>2.00	500	N	N	N	100
HE965C3	63 39 20	149 13 55	5.0	.20	.70	>2.00	200	1.0	N	N	2,000
HE966C3	63 36 48	149 14 10	3.0	.50	1.00	>2.00	200	N	N	N	50
HE967C3	63 36 35	149 13 22	3.0	1.00	2.00	>2.00	200	<1.0	N	N	70
HE968C3	63 40 25	149 5 20	5.0	.20	.50	>2.00	150	1.0	N	N	2,000
HE969C3	63 40 30	149 5 5	3.0	.20	.50	>2.00	200	N	N	N	500
HE970C3	63 41 40	148 55 53	7.0	.30	3.00	>2.00	200	1.5	N	N	150
HE971C3	63 39 51	148 57 37	3.0	.20	1.00	>2.00	200	N	N	N	100
HE972C3	63 38 14	148 58 15	5.0	.50	1.00	>2.00	300	N	N	N	200
HE973C3	63 37 46	149 1 5	3.0	.50	.70	>2.00	200	7.0	N	20	150
HE974C3	63 37 36	149 6 15	5.0	1.50	1.00	>2.00	500	N	N	N	500
HE975C3	63 37 7	148 53 54	5.0	.50	1.50	>2.00	300	N	N	N	150
HE976C3	63 35 28	148 56 30	5.0	.70	1.00	>2.00	500	N	N	N	200
HE977C3	63 33 44	149 2 25	5.0	2.00	2.00	>2.00	2,000	5.0	N	N	5,000
HE978C3	63 33 58	149 3 58	5.0	.50	.50	>2.00	200	<1.0	N	N	150
HE979C3	63 33 12	149 4 55	3.0	2.00	2.00	>2.00	700	N	N	N	100
HE980C3	63 33 25	149 8 0	5.0	5.00	7.00	>2.00	1,000	N	N	N	150
HE981C3	63 32 28	149 9 58	5.0	.50	1.50	>2.00	200	2.0	N	N	200
HE982C3	63 30 46	149 15 58	5.0	2.00	5.00	>2.00	500	N	N	N	500
HE983C3	63 32 58	149 21 22	5.0	.70	1.00	>2.00	700	N	N	N	200
HE984C3	63 34 7	149 18 48	5.0	5.00	7.00	>2.00	1,000	<1.0	N	N	700
HE985C3	63 34 25	149 20 16	2.0	.50	1.00	>2.00	200	N	N	N	70
HE986C3	63 34 46	149 23 43	5.0	2.00	10.00	2.00	1,000	N	N	N	1,000
HE987C3	63 37 15	149 22 45	5.0	2.00	7.00	2.00	1,000	N	N	N	200
HE988C3	63 36 35	149 25 37	5.0	5.00	10.00	2.00	1,000	N	N	N	150
HE989C3	63 29 55	149 20 42	20.0	.20	1.00	>2.00	150	7.0	<500	N	100
HE990C3	63 28 30	149 21 8	30.0	.20	.30	.20	50	1.0	2,000	N	<20
HE991C3	63 28 48	149 29 13	7.0	.70	1.50	2.00	500	1.5	N	N	100
HE992C3	63 28 38	149 29 5	15.0	.70	2.00	.20	200	2.0	700	N	20
HE993C3	63 28 23	149 30 31	20.0	.20	.20	.10	50	1.0	700	N	<20
HE994C3	63 27 16	149 30 15	30.0	.10	.10	.10	30	1.0	700	N	N
HE995C3	63 27 20	149 34 53	20.0	.15	.20	.30	100	2.0	500	N	100
HE996C3	63 32 10	149 33 7	5.0	1.50	3.00	1.50	500	N	N	N	20
HE997C3	63 24 10	149 54 32	30.0	.15	.10	.20	50	2.0	7,000	N	<20
HE998C3	63 24 7	149 55 31	20.0	.50	1.50	1.00	100	1.0	1,000	N	100
HE999C3	63 25 22	149 50 7	20.0	1.00	2.00	1.00	300	1.5	500	N	50
HE1000C3	63 25 6	149 50 13	30.0	.20	.10	.20	50	1.5	<500	N	<20
HE1001C3	63 23 0	148 26 0	10.0	2.00	3.00	2.00	300	1.0	N	N	20
HE1002C3	63 53 0	148 41 55	10.0	.07	.20	.05	70	1.5	N	N	20
HE1003C3	63 53 15	148 43 35	3.0	.05	.10	.03	50	3.0	N	N	<20
HE1004C3	63 52 40	148 40 25	15.0	1.00	2.00	1.50	500	7.0	1,000	N	<20

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Ba-ppm s	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	Sb-ppm s
HE960C3	3,000	<2	20	N	150	100	150	300	N	70	100	500	N
HE961C3	>10,000	<2	N	N	N	150	<10	200	N	50	N	100	N
HE962C3	>10,000	N	30	N	70	100	10	300	N	100	20	700	N
HE963C3	7,000	<2	N	N	100	200	300	300	N	50	100	100	N
HE964C3	7,000	N	N	N	50	1,000	300	500	N	50	50	50	N
HE965C3	10,000	N	N	N	50	300	150	N	10	200	30	150	N
HE966C3	5,000	N	N	N	N	300	100	300	N	70	N	N	N
HE967C3	>10,000	N	N	<50	50	300	50	100	<10	100	50	50	N
HE968C3	>10,000	2	N	<50	20	100	300	200	10	100	30	50	N
HE969C3	>10,000	N	N	N	20	200	50	500	10	200	20	70	N
HE970C3	>10,000	<2	N	N	70	200	100	150	N	150	100	100	N
HE971C3	>10,000	N	N	<50	10	300	150	700	N	150	N	50	N
HE972C3	7,000	N	N	N	30	500	300	700	<10	100	50	100	N
HE973C3	10,000	N	N	N	20	300	50	200	<10	100	20	150	N
HE974C3	>10,000	N	N	N	30	500	100	500	<10	100	50	300	N
HE975C3	>10,000	N	N	N	20	500	50	200	N	100	20	500	N
HE976C3	10,000	N	N	N	30	500	20	200	N	100	20	70	N
HE977C3	700	<2	N	<50	30	1,500	700	300	200	70	100	700	N
HE978C3	10,000	N	N	50	50	500	100	300	10	100	70	300	N
HE979C3	700	N	N	N	20	1,500	20	300	N	100	50	20	N
HE980C3	2,000	N	N	N	50	2,000	50	200	N	70	100	150	N
HE981C3	10,000	N	N	<50	50	500	50	200	<10	70	100	700	N
HE982C3	10,000	N	N	N	50	1,000	1,500	300	N	100	100	30	N
HE983C3	7,000	N	N	<50	70	700	50	300	10	200	100	1,000	N
HE984C3	7,000	N	N	<50	50	1,000	200	1,000	N	50	150	100	N
HE985C3	>10,000	N	N	N	20	300	100	300	N	150	20	30	N
HE986C3	5,000	N	N	N	50	2,000	70	100	N	50	50	<20	N
HE987C3	1,000	N	N	N	50	1,500	<10	N	N	<50	70	N	N
HE988C3	5,000	<2	N	N	50	2,000	10	<50	N	<50	100	<20	N
HE989C3	>10,000	N	N	N	200	100	700	N	<10	50	500	300	N
HE990C3	>10,000	N	N	50	200	<20	500	N	N	N	500	500	N
HE991C3	>10,000	<2	N	N	70	200	200	100	<10	50	200	100	N
HE992C3	>10,000	N	N	<50	100	150	300	N	N	N	300	200	N
HE993C3	10,000	N	N	50	200	30	500	N	N	N	500	500	N
HE994C3	5,000	N	N	<50	200	<20	500	N	N	N	500	1,000	N
HE995C3	10,000	N	N	50	150	<20	300	N	10	N	500	500	N
HE996C3	>10,000	3	N	<50	30	500	30	100	<10	70	50	300	N
HE997C3	5,000	N	N	N	500	30	700	N	N	N	700	300	N
HE998C3	>10,000	<2	N	<50	200	200	500	70	N	50	300	100	N
HE999C3	>10,000	N	N	N	100	300	200	N	N	N	200	100	N
HE1000C3	7,000	N	N	50	200	20	1,500	N	N	N	700	200	N
HE1001C3	5,000	<2	N	N	100	500	200	N	N	<50	150	70	N
HE1002C3	>10,000	N	N	<50	50	<20	500	N	N	N	150	20	N
HE1003C3	>10,000	N	N	N	N	50	50	N	N	N	100	20	N
HE1004C3	>10,000	3	N	<50	70	150	100	70	10	70	50	1,500	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	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
HE960C3	20	N	500	70	N	300	N	>2,000	N
HE961C3	100	300	700	100	N	500	N	>2,000	N
HE962C3	30	50	700	100	N	300	N	>2,000	N
HE963C3	150	100	500	100	N	1,500	N	>2,000	<200
HE964C3	100	N	300	300	N	500	N	>2,000	N
HE965C3	100	N	500	300	N	200	N	2,000	N
HE966C3	30	N	300	150	N	200	N	>2,000	N
HE967C3	50	N	1,000	200	N	150	1,000	>2,000	N
HE968C3	50	N	1,500	200	N	150	500	>2,000	N
HE969C3	70	20	1,500	200	<100	300	N	>2,000	N
HE970C3	20	>2,000	1,000	200	<100	200	N	>2,000	N
HE971C3	100	70	1,500	200	N	300	1,000	>2,000	N
HE972C3	100	30	500	500	N	500	N	>2,000	N
HE973C3	70	50	500	300	N	300	N	>2,000	N
HE974C3	100	100	500	300	N	200	N	>2,000	N
HE975C3	70	100	1,000	200	N	300	N	>2,000	N
HE976C3	50	<20	500	200	N	200	N	>2,000	N
HE977C3	70	2,000	<200	300	N	200	700	>2,000	N
HE978C3	100	20	500	300	<100	500	700	>2,000	N
HE979C3	50	20	500	200	1,000	100	N	>2,000	N
HE980C3	100	N	200	300	N	150	N	>2,000	N
HE981C3	100	<20	700	300	100	500	700	>2,000	N
HE982C3	70	100	700	300	N	200	N	>2,000	N
HE983C3	100	<20	500	300	N	300	1,500	>2,000	N
HE984C3	100	N	300	300	N	200	1,500	>2,000	N
HE985C3	70	30	700	200	N	200	N	>2,000	N
HE986C3	100	N	300	500	N	100	500	>2,000	N
HE987C3	100	N	200	500	N	100	N	1,500	N
HE988C3	100	N	200	500	N	100	N	>2,000	N
HE989C3	10	N	700	100	N	150	N	>2,000	N
HE990C3	N	N	200	20	N	20	3,000	300	N
HE991C3	20	N	1,000	150	N	100	N	2,000	N
HE992C3	10	N	1,000	100	N	20	1,000	500	N
HE993C3	N	N	200	20	N	20	2,000	200	N
HE994C3	N	N	N	<20	N	20	1,500	200	N
HE995C3	N	N	300	70	N	30	2,000	500	N
HE996C3	50	1,000	500	150	N	200	3,000	>2,000	N
HE997C3	N	N	N	20	N	20	1,000	300	N
HE998C3	10	N	2,000	70	N	50	1,500	500	N
HE999C3	15	N	500	100	N	50	N	100	N
HE1000C3	N	N	N	50	N	20	3,000	150	N
HE1001C3	50	N	500	300	N	70	N	500	N
HE1002C3	N	N	2,000	20	N	N	500	20	N
HE1003C3	N	N	2,000	50	N	N	N	300	N
HE1004C3	20	>2,000	1,500	100	N	200	2,000	>2,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy 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
HE1005C3	63 53 15	148 55 0	10.0	.70	2.00	>2.00	700	2.0	700	N	<20
HE1006C3	63 52 30	148 43 35	15.0	1.50	3.00	>2.00	500	1.5	N	N	20
HE1007C3	63 51 50	148 45 30	10.0	.05	3.00	>2.00	150	5.0	500	N	<20
HE1008C3	63 51 30	148 51 0	30.0	.10	.10	.20	100	2.0	1,000	N	N
HE1009C3	63 49 0	148 58 30	30.0	.15	.30	.50	100	2.0	700	N	20
HE1010C3	63 48 20	148 57 10	5.0	.20	2.00	>2.00	500	<1.0	N	N	70
HE1011C3	63 2 10	147 10 50	20.0	.07	.20	1.00	100	3.0	15,000	N	<20
HE1012C3	63 2 40	147 14 40	3.0	1.00	3.00	>2.00	300	N	N	N	150
HE1013C3	63 3 5	147 16 20	5.0	.50	5.00	2.00	300	3.0	N	N	20
HE1014C3	63 3 15	147 22 15	10.0	.50	5.00	2.00	150	50.0	>20,000	N	20
HE1015C3	63 3 45	147 26 25	15.0	.20	2.00	>2.00	150	70.0	5,000	N	500
HE1016C3	63 11 5	149 14 10	30.0	.20	1.00	1.00	100	15.0	5,000	N	20
HE1017C3	63 11 0	149 9 5	50.0	.07	.10	.30	20	1.0	1,000	N	20
HE1018C3	63 9 30	149 9 35	50.0	.15	.20	.50	50	7.0	>20,000	N	200
HE1019C3	63 7 40	149 11 0	15.0	1.00	3.00	2.00	200	2.0	20,000	N	100
HE1020C3	63 7 20	149 10 45	50.0	.10	.50	.50	50	10.0	5,000	N	50
HE1021C3	63 5 30	149 8 0	50.0	.30	1.50	1.00	100	10.0	2,000	N	50
HE1022C3	63 5 25	149 8 25	50.0	.07	.20	.15	20	3.0	5,000	N	<20
HE1024C3	63 3 10	149 9 35	50.0	.20	.20	.50	70	7.0	10,000	N	50
HE1025C3	63 3 50	149 13 30	50.0	.10	.20	.70	70	30.0	>20,000	N	50
HE1026C3	63 2 20	149 13 25	30.0	.70	1.50	1.50	200	30.0	10,000	N	500
HE1027C3	63 4 55	149 17 25	20.0	.20	.20	2.00	500	7.0	5,000	N	100
HE1028C3	63 5 55	149 17 50	30.0	.30	.50	2.00	150	3.0	10,000	N	1,000
HE1029C3	63 5 55	149 18 0	15.0	.10	.20	1.00	150	1.0	5,000	N	20
HE1030C3	63 0 50	149 18 10	30.0	.10	.50	.05	70	20.0	>20,000	100	20
HE1032C3	63 2 35	149 23 10	20.0	.20	3.00	.30	200	50.0	5,000	N	100
HE1033C3	63 3 40	149 23 25	10.0	.50	10.00	>2.00	200	5.0	700	N	100
HE1036C3	63 2 15	149 32 25	1.0	.20	.70	2.00	200	N	N	N	150
HE1037C3	63 0 30	149 30 45	5.0	7.00	10.00	.30	700	N	N	N	200
HE1038C3	63 0 25	149 30 50	10.0	3.00	15.00	.50	500	2.0	1,000	N	700
HE1039C3	63 5 50	149 27 50	5.0	2.00	7.00	>2.00	700	N	<500	N	500
HE1040C3	63 10 30	149 18 50	3.0	1.00	5.00	>2.00	300	N	N	N	300
HE1041C3	63 9 10	149 19 40	3.0	1.00	5.00	>2.00	300	N	N	N	200
HE1042C3	63 7 15	149 25 30	5.0	.50	1.00	>2.00	150	N	2,000	N	200
HE1043C3	63 1 20	149 0 55	3.0	.50	3.00	>2.00	150	N	N	N	150
HE1044C3	63 1 10	149 2 5	1.5	1.50	5.00	1.00	500	N	700	N	200
HE1045C3	63 3 15	148 58 10	2.0	.50	1.00	>2.00	200	1.0	>20,000	N	3,000
HE1047C3	63 0 30	148 50 20	50.0	.20	.70	1.00	100	10.0	>20,000	N	20
HE1048C3	63 0 15	148 47 10	2.0	.30	2.00	1.00	500	70.0	20,000	100	1,500
HE1049C3	63 0 55	148 45 30	50.0	.20	.70	.50	100	10.0	15,000	N	<20
HE1050C3	63 2 40	148 47 45	50.0	.30	3.00	.50	150	500.0	>20,000	>1,000	30
HE1051C3	63 1 55	148 52 15	20.0	.07	.20	1.50	70	1,500.0	15,000	>1,000	<20
HE1052C3	63 4 5	148 52 0	30.0	.20	1.00	1.00	200	200.0	15,000	200	50
HE1053C3	63 6 30	148 48 35	30.0	.20	.50	1.50	100	50.0	10,000	N	<20
HE1054C3	63 6 20	148 48 40	15.0	.10	.10	.30	150	7.0	7,000	N	20

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Ba-ppm s	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	Sb-ppm s
HE1005C3	10,000	<2	N	<50	50	300	500	100	<10	50	30	1,000	N
HE1006C3	5,000	N	N	N	100	700	300	70	N	50	100	200	N
HE1007C3	>10,000	2	N	70	20	20	150	200	N	200	N	1,500	N
HE1008C3	10,000	N	N	50	100	<20	300	N	<10	N	500	300	N
HE1009C3	10,000	N	N	<50	150	20	500	N	N	N	500	200	N
HE1010C3	3,000	N	N	N	50	300	50	300	N	100	20	70	N
HE1011C3	>10,000	<2	N	N	50	30	50	N	N	50	50	700	200
HE1012C3	>10,000	<2	N	<50	50	500	70	500	10	150	50	200	N
HE1013C3	>10,000	2	N	200	20	70	50	200	N	70	50	1,000	N
HE1014C3	>10,000	N	20	N	70	500	50	300	N	<50	200	7,000	<200
HE1015C3	10,000	N	N	N	200	300	500	100	N	70	500	7,000	200
HE1016C3	2,000	N	N	N	200	50	1,000	N	N	N	1,000	3,000	200
HE1017C3	2,000	N	N	N	300	N	1,000	N	N	N	700	200	N
HE1018C3	3,000	N	50	N	200	20	100	N	N	N	300	700	1,000
HE1019C3	10,000	N	N	N	150	150	300	100	N	<50	500	500	N
HE1020C3	>10,000	N	N	N	200	50	500	N	N	N	500	2,000	N
HE1021C3	3,000	N	N	N	500	70	500	N	N	N	1,000	2,000	N
HE1022C3	3,000	N	N	N	300	<20	700	N	N	N	700	700	N
HE1024C3	2,000	N	N	N	500	30	200	N	N	N	500	1,000	<200
HE1025C3	7,000	N	70	100	500	20	500	N	N	N	500	7,000	200
HE1026C3	>10,000	N	20	<50	500	1,500	300	200	N	50	500	5,000	N
HE1027C3	>10,000	N	N	N	200	5,000	200	500	10	N	700	300	N
HE1028C3	5,000	<2	N	N	300	150	500	N	N	70	500	500	N
HE1029C3	>10,000	N	N	N	150	3,000	200	150	<10	N	500	300	N
HE1030C3	>10,000	N	500	N	500	70	1,500	N	10	N	1,500	500	500
HE1032C3	>10,000	<2	N	150	50	150	200	150	N	N	200	10,000	<200
HE1033C3	>10,000	N	N	50	50	700	100	300	N	<50	100	100	N
HE1036C3	1,000	2	N	N	N	300	<10	<50	N	<50	N	N	N
HE1037C3	10,000	N	N	N	50	5,000	15	150	N	N	300	150	N
HE1038C3	10,000	N	N	N	50	1,500	150	300	N	N	200	1,000	N
HE1039C3	1,500	N	N	N	30	700	200	N	N	100	100	20	N
HE1040C3	10,000	N	N	N	20	300	50	N	N	50	50	30	N
HE1041C3	>10,000	N	N	50	50	200	100	70	N	<50	70	500	N
HE1042C3	5,000	N	N	N	50	150	70	100	N	100	70	50	N
HE1043C3	2,000	N	N	N	15	200	70	100	N	100	30	20	N
HE1044C3	200	15	N	N	30	1,000	15	500	N	N	100	N	N
HE1045C3	1,500	<2	200	N	30	150	100	N	N	150	20	N	N
HE1047C3	>10,000	N	70	N	200	50	500	N	N	<50	500	1,000	300
HE1048C3	300	5	2,000	N	50	2,000	5,000	N	N	50	100	1,000	N
HE1049C3	>10,000	N	N	N	100	50	5,000	N	10	N	300	1,500	<200
HE1050C3	1,000	N	20	N	200	30	5,000	N	N	N	200	1,500	3,000
HE1051C3	>10,000	N	20	N	100	700	150	N	N	N	200	2,000	1,000
HE1052C3	>10,000	N	200	N	100	500	500	N	N	N	200	2,000	700
HE1053C3	10,000	N	N	N	200	100	2,000	100	N	<50	200	7,000	500
HE1054C3	>10,000	<2	N	N	70	<20	500	N	N	N	150	3,000	<200

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	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
HE1005C3	100	300	200	500	N	200	1,000	>2,000	N
HE1006C3	70	50	200	500	N	150	<500	2,000	N
HE1007C3	70	300	500	50	<100	300	2,000	500	N
HE1008C3	N	N	<200	20	N	20	1,500	150	N
HE1009C3	N	N	200	50	N	70	1,500	1,000	N
HE1010C3	100	30	500	200	N	200	N	>2,000	N
HE1011C3	10	300	1,000	50	N	200	500	>2,000	N
HE1012C3	50	20	1,000	200	N	200	700	>2,000	N
HE1013C3	20	<20	1,500	100	N	300	3,000	>2,000	N
HE1014C3	20	<20	1,000	150	<100	200	N	>2,000	500
HE1015C3	15	50	500	100	N	150	1,000	>2,000	N
HE1016C3	N	N	N	50	N	30	700	1,000	N
HE1017C3	N	N	N	20	N	20	1,000	1,000	N
HE1018C3	N	100	N	30	N	<20	500	200	N
HE1019C3	20	>2,000	300	150	N	100	1,000	>2,000	<200
HE1020C3	N	N	1,500	30	N	20	700	150	N
HE1021C3	N	200	<200	50	N	50	500	2,000	N
HE1022C3	N	N	N	<20	N	20	500	70	N
HE1024C3	<10	N	N	50	N	30	500	500	N
HE1025C3	N	30	N	30	N	30	5,000	1,000	N
HE1026C3	<10	N	500	100	<100	100	2,000	>2,000	N
HE1027C3	50	N	700	150	N	500	500	>2,000	700
HE1028C3	10	N	200	100	N	100	700	2,000	N
HE1029C3	70	N	500	70	N	700	500	>2,000	500
HE1030C3	N	N	300	<20	100	50	500	1,000	N
HE1032C3	10	20	3,000	100	N	100	20,000	>2,000	N
HE1033C3	70	N	700	200	N	300	700	>2,000	N
HE1036C3	N	N	N	150	N	50	N	2,000	N
HE1037C3	100	N	300	500	N	200	N	2,000	N
HE1038C3	50	N	700	200	N	200	500	>2,000	N
HE1039C3	70	1,500	300	500	<100	150	N	>2,000	N
HE1040C3	30	20	200	300	N	100	N	2,000	N
HE1041C3	50	N	1,000	300	<100	150	1,000	2,000	N
HE1042C3	50	N	N	200	N	150	N	>2,000	N
HE1043C3	50	200	200	200	N	100	N	>2,000	N
HE1044C3	100	<20	<200	150	<100	300	N	>2,000	N
HE1045C3	70	>2,000	500	100	300	100	N	1,000	N
HE1047C3	<10	>2,000	300	50	500	150	500	>2,000	N
HE1048C3	10	>2,000	N	70	1,000	100	N	>2,000	N
HE1049C3	<10	1,000	700	50	<100	70	700	200	N
HE1050C3	N	500	<200	50	N	50	<500	700	N
HE1051C3	50	50	500	50	<100	300	N	>2,000	N
HE1052C3	10	N	500	50	100	150	N	>2,000	N
HE1053C3	10	N	500	100	<100	100	N	>2,000	N
HE1054C3	N	N	1,500	30	<100	30	N	1,500	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	Au-ppm	B-ppm
			s	s	s	s	s	s	s	s	s
HE1055C3	63 6 55	148 50 45	10.0	.10	1.50	.20	200	N	N	N	<20
HE1056C3	63 7 0	148 50 30	5.0	2.00	10.00	1.50	300	30.0	20,000	70	20
HE1057C3	63 7 50	148 52 40	30.0	.07	.50	.50	150	10.0	5,000	N	20
HE1058C3	63 8 25	148 52 20	20.0	.05	1.00	.70	100	10.0	5,000	N	20
HE1059C3	63 9 0	148 56 0	30.0	.05	.20	.50	70	100.0	7,000	N	<20
HE1060C3	63 8 40	148 56 20	2.0	.07	2.00	1.50	150	2.0	500	N	20
HE1061C3	63 15 20	149 8 50	20.0	.05	1.50	1.50	100	15.0	5,000	N	<20
HE1062C3	63 14 30	149 10 55	30.0	.07	.50	.50	100	10.0	5,000	N	<20
HE1063C3	63 11 25	149 4 40	2.0	.30	10.00	>2.00	200	1.0	1,000	N	30
HE1064C3	63 11 15	149 4 25	50.0	.07	.20	.30	50	1.0	1,500	N	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	Ba-ppm s	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	Sb-ppm s
HE1055C3	>10,000	N	N	N	20	20	100	N	10	N	70	30	N
HE1056C3	10,000	2	20	N	50	1,000	100	150	N	N	100	500	N
HE1057C3	>10,000	N	200	N	150	20	300	N	N	N	500	1,000	500
HE1058C3	>10,000	<2	100	N	200	<20	200	N	N	N	500	2,000	N
HE1059C3	>10,000	N	N	N	200	<20	200	N	10	N	500	500	200
HE1060C3	>10,000	<2	N	N	50	20	70	N	N	<50	50	300	N
HE1061C3	>10,000	<2	150	N	200	20	150	N	N	N	500	2,000	N
HE1062C3	>10,000	N	N	N	200	20	300	N	N	N	500	1,000	<200
HE1063C3	7,000	N	<20	N	20	100	10	N	N	70	20	300	N
HE1064C3	5,000	N	N	N	300	N	500	N	N	N	500	100	N

TABLE 4.--Spectrographic analyses of heavy-mineral-concentrate samples from the Healy quadrangle, Alaska--continued

Sample	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
HE1055C3	N	N	1,000	50	N	100	N	500	N
HE1056C3	50	1,500	700	200	100	200	700	>2,000	N
HE1057C3	N	N	500	20	200	100	500	>2,000	N
HE1058C3	<10	N	1,000	20	200	150	<500	>2,000	N
HE1059C3	N	N	200	20	<100	70	500	2,000	N
HE1060C3	20	N	2,000	50	<100	300	N	>2,000	N
HE1061C3	15	N	500	20	300	500	N	>2,000	N
HE1062C3	N	N	300	<20	N	70	1,000	2,000	N
HE1063C3	15	30	700	100	2,000	500	N	>2,000	N
HE1064C3	N	N	<200	20	<100	30	700	2,000	N