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Emission spectrographic and atomic absorption analyses of rock, mineral occurrence, prospect, and deposit samples from the Mount Hayes quadrangle, eastern Alaska Range, Alaska

by

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INTRODUCTION

Geochemical sampling of rock, mineral occurrence, prospect, and deposit samples from the Mount Hayes quadrangle, eastern Alaska Range, Alaska, was conducted during field studies from 1978 through 1982, as part of a geologic study and multidisciplinary assessment of the mineral resource potential of the quadrangle. These studies were part of the the Alaska Mineral Resource Assessment Program (AMRAP) of the U.S. Geological Survey. This report presents the semi-quantitative emission spectrographic and atomic absorption analyses of 1106 and 799 samples collected from north and south of the Denali fault, respectively. All samples were analysed for 31 elements (Ag, As, Au, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, La, Mg, Mo, Mn, Nb, Ni, Pb, Sb, Sc, Sn, Sr, Th, Ti, V, W, Y, Zn, Zr) by six-step semiquantitative emission spectrography; in addition, all samples were analyzed for Cu, Pb, and Zn by atomic absorption spectrophotometry.

This report provides a data base for: (1) establishing background levels of metals in geologic units to help interpret data from stream-sediment and heavy-mineral concentrate geochemical surveys, and from mineral occurrence, prospect, and deposit studies; (2) determining whether parts of any rock units have intrinsic value as potentially economic mineral resources; (3) detecting potentially valuable metals not visible in hand specimens; and (4) providing assays of samples containing visible metallic minerals. The data in this report will be utilized and interpreted in various parts of a folio on the geology, mineral resource potential, mineral deposits, exploration geochemistry, and geophysics of the Mount Hayes quadrangle. This report is the last of three reports of analyses of heavy-mineral concentrate, stream-sediment, glacial-debris, and rock samples from the quadrangle. The other reports were published by O'Leary and others (1981, 1982).

Geologic studies (Nokleberg and others, 1982, 1983, 1985) show that the bedrock of the Mount Hayes quadrangle consists of a collage of tectono-stratigraphic terranes, each with a characteristic stratigraphy, structure, metamorphism, suite of mineral deposits, and geologic history. The tectono-stratigraphic terrane map and topographic map of the Mount Hayes quadrangle are used as a screened base for the location map (Plate 1). The major terranes north of the Denali fault are the Lake George, Macomb, Jarvis Creek Glacier, Hayes Glacier, Giddings, Aurora Peak, and Windy terranes. The major terranes south of the Denali fault are the Maclaren, Wrangellia, and Clearwater terranes, and a terrane of ultramafic and associated rocks. In addition, the Wrangellia terrane is further subdivided into the Slana River and Tangle subterranes, and the Maclaren terrane is subdivided into the East Susitna batholith and the Maclaren Glacier metamorphic belt. The terrane map also delineates the major granitic plutons of Jurassic through early Tertiary age, and areas of extensive surficial deposits.

Previous geochemical sampling of rock, mineral occurrence, prospect, or deposit samples in portions of the Mount Hayes quadrangle has been done by Kaufman (1964), Rose (1965, 1966a, b, 1967), Rose and Saunders (1965), and Smith and others (1973, 1975). A geologic bibliography of the Mount Hayes quadrangle as of 1980 was published by Zehner and others (1980).

SAMPLING AND ANALYTICAL PROCEDURES

Standard procedures were followed in the collection, preparation, and analysis of the rock geochemical samples. The majority of the samples are "grab" samples of rocks chosen to provide background concentrations for dominant lithologic units. A lesser but significant number of samples were collected from mineral occurrences and mineral deposits, or from outcrops with conspicuous iron-staining, hydrothermal alteration, or visible metallic minerals. Samples were crushed, and a split of this material was pulverized to minus 100-mesh, and analyzed by a six-step semiquantitative spectrographic method (Grimes and Marranzino, 1968) for thirty one elements. Each sample was also analyzed for copper, lead, and zinc by atomic absorption spectrophotometry (Ward and others, 1969), a more precise analytical method for these elements.

A number of factors contribute to bias and variability in sampling procedures. Variability of any sample is a combination of many factors, including the difficulty of obtaining representative samples from inhomogeneous rock bodies, differences of outcrop exposure due to differential resistance to erosion, and chemical weathering of outcrop surfaces. Snow, ice, alluvial cover, outcrop exposure, and availability of helicopter landing sites resulted in a lack of uniform sampling in some areas. Detailed geologic and sampling done at most major mineral occurrences and mineral deposits has resulted in data significantly biased in favor of higher values as compared to background values. Because of these factors, the requirement of truly random sampling, that all potential samples have an equal likelihood of being selected, was not met.

PRESENTATION OF GEOCHEMICAL DATA

Table 1 shows the limits of determinability for semiquantitative emmission spectrographic analysis and atomic absorption analysis. This information is important for interpreting the analytical data. Table 2 explains the qualification codes used in reporting six-step semiquantitative emission spectrographic analysis and provides a guide for understanding various chemical analysis abbreviations used in the analyses reported in Tables 5 and 6. Table 3 provides the class intervals and midpoints on the six-step scale used for reporting the emission spectrographic analyses. Table 4 defines terrane designations and other rock and mineral abbreviations used in Tables 5 and 6. The term "terrane designation" is defined as the terrane, subterrane, or granitic rock map unit on the tectonostratigraphic terrane map from which the sample was obtained. In addition to these map units on the terrane map, Tertiary rocks north of the Denali fault are also separately designated; all occur in the Jarvis Creek Glacier terrane. The location of all analyzed rock samples are plotted on a tectonostratigraphic terrane and topographic base map of the quadrangle (Plate 1). Because the terrane map is generalized, a few sample locations, particularly those from granitic rocks, may only be near, rather than in the unit designated in Tables 5 and 6.

Tables 5 and 6, the most important parts of the report, list the emission spectrographic and atomic absorption analyses of rock, mineral occurrence, and mineral deposit samples from north and south of the Denali fault, respectively. From left to right, Tables 5 and 6 list an eight-digit sample number, latitude, longitude, rock type, terrane, spectrographic analyses in weight percent for Fe, Mg, Ca, Ti, and Mn, spectrographic and atomic absorption analyses in parts per million (ppm) for Cu, Pb, and Zn, and spectrographic analyses in parts per million for the remaining elements. Rock types were determined from a petro-

logic study of a thin section of each sample, except for quartz veins. The column heading "S" in Tables 5 and 6 indicates emission spectrographic analysis; "AA" indicates atomic absorption analysis. Qualification codes, explained in Table 2, indicate that the concentration for some elements is outside the limits of determinability, or may have been affected by analytical interference.

The semiquantitative emission spectrographic analyses in Tables 5 and 6 are reported as the midpoints of geometric class intervals. There are six intervals per order of magnitude, and values listed in the data may be an integral power of ten times one of the listed class intervals. These class intervals are not evenly spaced when plotted arithmetically; however, they have constant width when data and interval boundaries are transformed to logarithms. Thus in the six-step spectrographic analysis, each succeeding class interval is greater than the last by the sixth root of ten (approximately 1.468). Midpoints and class interval boundaries are listed in Table 3.

PRECISION OF ANALYSES

The analytical precison of the six-step semiquantitative spectrographic method has been tested by a number of experiments. Motooka and Grimes (1976), after studying over 2700 separate analyses on 22 different geologic samples, concluded that on the average, the frequency that repeated analysis of the same sample will fall into the same "true" class interval plus or minus one or two intervals is approximately 83 percent and 96 percent, respectively. Thus, if a value is reported as 5.0, a repeated analysis has an 83 percent probability of being reported as 3.0, 5.0, or 7.0, at the 95 percent confidence level. They also found that precision tends to be less when the concentration of the elements falls near either the lower or upper determinability limit for that element. Motooka and Grimes (1976) also found that analytical variance is consistant for a variety of geological materials and shows no significant difference among most elements or concentration ranges, except near determinability limits.

Another study, using stream sediment samples (Johnson and others, 1980), indicates that for at least some elements, precision using the six-step spectrographic analysis varies appreciably. Johnson and others found that analytical variance for four elements varied greater than the two-step average (Cu by 3 steps, La by 3.5 steps, Ti by 3 steps, and Zr by 2.5 steps). This study indicates that for data with a narrow range of values, analytical variance will make up a significant portion of observed difference (in this study 22 to 88 percent of total variance). However, in an area with high anomalies or a broader range of values, analytical variance tends to be less significant. Johnson and others (1980) also observed analytical variance in the atomic absorption method. Since this method is more sensitive and precise than the six-step spectrographic method, they are not reported on the six-step scale. The study found the analytical variance for atomic absorption of Cu, Pb, and Zn to be about 1.0, 1.5, and 0.5 steps respectively, at the 95 percent confidence level (Johnson and others, 1980).

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TABLE 1. LIMITS OF DETERMINABILITY FOR SEMIQUANTITATIVE EMISSION SPECTROGRAPHIC AND ATOMIC ABSORPTION ANALYSES

[S - semiquantitative emission spectrographic analysis; AA - atomic absorption analysis. Units are weight percent of sample for S-Fe, S-Ca, and S-Ti; all other analyses are parts per million (ppm)]

Analysis	Limits		Analysis	Limits	
	Lower	Upper		Lower	Upper
S-Fe	0.05	20%	S-Co	5	2,000 ppm
S-Mg	0.02	10%	S-V	10	10,000 ppm
S-Ca	0.05	20%	S-Cr	10	5,000 ppm
S-Ti	0.002	1%	S-Ni	5	5,000 ppm
S-Mn	10	5,000 ppm	S-Au	10	500 ppm
AA-Cu	5	None	S-B	10	2,000 ppm
S-Cu	5	20,000 ppm	S-Ba	20	5,000 ppm
AA-Pb	5	None	S-Be	1	1,000 ppm
S-Pb	10	20,000 ppm	S-Bi	10	1,000 ppm
AA-Zn	5	None	S-Cd	20	500 ppm
S-Zn	200	10,000 ppm	S-La	20	1,000 ppm
S-Ag	0.5	5,000 ppm	S-Nb	20	2,000 ppm
S-As	200	10,000 ppm	S-Sc	5	100 ppm
S-Mo	5	2,000 ppm	S-Sr	100	5,000 ppm
S-W	50	10,000 ppm	S-Y	10	2,000 ppm
S-Sn	10	1,000 ppm	S-Zr	10	1,000 ppm
S-Sb	100	10,000 ppm	S-Th	100	2,000 ppm

TABLE 2. QUALIFICATION CODES USED IN REPORTING SIX-STEP SEMIQUANTITATIVE EMISSION SPECTROGRAPHIC ANALYSES

Qualification Code	Explanation
( )	Interference
N	Nothing detected
<	Element detected, but below lower limits of determinability
>	Element detected, but above upper limits of determinability

TABLE 3. CLASS INTERVALS AND REPORTED VALUES ON THE SIX-STEP SCALE

Reported Values	Class Intervals	
1.0	0.83	1.2
1.5	1.2	1.8
2.0	1.8	2.6
3.0	2.6	3.8
5.0	3.8	5.6
7.0	5.6	8.3
10.0	8.3	12.0

TABLE 4. TERRANE DESIGNATIONS AND ROCK AND MINERAL ABBREVIATIONS USED IN TABLES 5 AND 6

TERRANES SOUTH OF DENALI FAULT

Designation	Terrane
1	Slana River Subterrane of Wrangellia Terrane
2	Tangle Subterrane of Wrangellia
3	Maclaren Terrane
4	Clearwater Terrane
5	Terrane of Ultramafic and Associated Rocks
6	Granitic Rocks South of Denali Fault

TERRANES NORTH OF DENALI FAULT

Designation	Terrane
11	Windy Terrane
12	Aurora Peak Terrane
13	Hayes Glacier Terrane
14	Giddings Terrane
15	Jarvis Creek Glacier Terrane
16, 17	Not Used
18	Macomb Terrane
19	Lake George Terrane
20	Granitic Rocks North of Denali Fault
21	Tertiary Rocks North of Denali Fault

ROCK AND MINERAL ABBREVIATIONS

Abbreviation	Explanation
carb	Carbonate
kspar	Potassium feldspar
m.s.	Massive sulfide
musc.	Muscovite
plag	Plagioclase

Table 5. EMISSION SPECTROGRAPHIC AND ATOMIC ABSORPTION ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES FROM THE NORTHERN MOUNT HAYES QUADRANGLE, EASTERN ALASKA RANGE, ALASKA

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
78AL005A	63 23 26	145 43 48	Quartz monzonite	20	7.00	1.00	2.00	.300	1,000.0
78AL006A	63 25 29	145 44 55	Quartz-muscovite-chlorite schist	15	2.00	.50	.30	.300	100.0
78AL006C	63 25 29	145 44 55	Quartz-chlorite-muscovite-schist	15	10.00	2.00	.70	.500	500.0
78AL007B	63 25 48	145 46 11	Quartz vein	15	2.00	.70	1.00	.150	300.0
78AL008A	63 26 54	145 47 29	Amphibolite	20	15.00	3.00	5.00	1.000	2,000.0
78AL009A	63 36 49	145 51 28	Mica-epidote-quartz schist	15	7.00	2.00	2.00	.500	1,000.0
78NK141B	63 28 21	145 50 24	Quartz vein	15	.50	.10	.20	.050	100.0
78NK142B	63 29 28	145 50 40	S-stained greenschist	15	10.00	3.00	5.00	1.000	1,500.0
78NK143A	63 30 26	145 50 43	Stained greenschist	15	10.00	.30	.50	1.000	1,500.0
78NK144A	63 30 53	145 51 14	Muscovite-quartz schist	15	5.00	.70	.50	.300	500.0
78NK145A	63 33 57	145 51 31	Quartz-muscovite-chlorite schist	15	5.00	1.00	.20	.300	500.0
78NK147A	63 31 2	145 51 5	Metadiabase	20	15.00	3.00	5.00	1.000	2,000.0
78NK149A	63 49 14	144 53 8	Quartz monzonite	20	3.00	1.00	2.00	.300	700.0
78NK150A	63 41 38	144 19 38	Biotite quartz diorite	20	5.00	1.50	2.00	.300	1,000.0
78NK151A	63 40 28	144 6 22	Rhyodacite dike	20	2.00	.30	.50	.200	700.0
78NK167A	63 32 28	146 57 39	Metadiorite	20	7.00	2.00	7.00	1.000	2,000.0
78NK167B	63 32 28	146 57 39	Metaquartz monzonite	20	1.00	.20	.30	.100	200.0
79CH091A	63 25 59	145 52 58	Metagreywacke	11	5.00	2.00	1.00	.300	500.0
79CH094A	63 25 18	145 48 23	Quartz schist	12	3.00	2.00	2.00	.500	500.0
79HZ014A	63 22 35	145 38 17	Quartz-chlorite-muscovite schist	15	1.50	.50	1.00	.100	700.0
79HZ027A	63 21 29	145 31 12	Quartz-muscovite-chlorite schist	15	1.00	.20	.20	.200	500.0
79HZ028A	63 21 35	145 32 17	Metadiorite	20	10.00	5.00	5.00	1.000	1,500.0
79HZ031A	63 24 0	145 34 34	Quartz-muscovite-chlorite schist	15	7.00	10.00	3.00	.200	1,000.0
79HZ031B	63 24 0	145 34 34	Quartz vein	15	.20	<.02	<.05	.050	30.0
79HZ032A	63 24 7	145 35 41	Metagabbro	20	3.00	1.50	.50	.500	700.0
79HZ037A	63 26 48	145 42 2	Biotite-muscovite schist	15	10.00	1.50	3.00	1.000	2,000.0
79HZ037B	63 26 48	145 42 2	Schistose metagabbro	20	15.00	3.00	2.00	>1.000	1,500.0
79HZ038A	63 26 45	145 42 56	Mylonitic metagabbro	20	10.00	7.00	5.00	1.000	1,500.0
79HZ040A	63 28 12	145 44 2	Quartz-muscovite-chlorite schist	15	1.50	.15	.10	.200	500.0
79HZ042A	63 27 50	145 45 56	Quartz-muscovite-chlorite schist	15	2.00	.50	.20	.200	200.0
79HZ078C	63 1 52	144 1 10	Metaquartz sandstone	11	2.00	.05	.05	.300	300.0
79NK069D	63 24 0	145 34 12	Quartz vein	15	1.00	.15	.70	.030	700.0
79NK109A	63 24 18	145 47 36	Metaandesite	11	10.00	3.00	3.00	1.000	700.0
79NK114A	63 23 20	145 43 6	Quartz monzonite	20	5.00	1.50	1.00	.300	700.0
79NK158A	63 8 1	144 19 26	Quartz vein	13	.30	.15	1.00	.007	1,000.0
79NK158B	63 8 1	144 19 26	Dark phyllite	13	.70	.20	1.00	.100	200.0
79NK159A	63 8 38	144 19 38	Metadiabase	20	10.00	5.00	5.00	>1.000	1,500.0
79NK159B	63 8 38	144 19 38	Quartz-white mica phyllite	13	2.00	1.00	1.00	.150	1,000.0
79NK159D	63 8 38	144 19 38	Quartz vein	13	.15	.03	.07	.015	300.0
79NK160A	63 7 27	144 19 42	Quartz vein	13	.50	.20	2.00	.007	500.0
79NK160B	63 7 27	144 19 42	Quartz-mica-chlorite schist	13	2.00	1.00	1.00	.200	300.0
79NK161A	63 6 38	144 21 6	Quartz-white mica-graphite phyllite	13	1.00	.50	3.00	.200	700.0
79NK161B	63 6 38	144 21 6	Lamprophyre dike	20	5.00	2.00	3.00	.500	1,000.0
79NK161C	63 6 38	144 21 6	Quartz vein	11	.20	.07	1.00	.015	200.0
79NK161D	63 6 38	144 21 6	Diabase dike	20	5.00	3.00	2.00	.700	1,000.0

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
78AL005A	10	20	20	150	170	N	N	N	N	N	N	N	10	100
78AL006A	N	<5	15	20	<5	N	N	N	20	N	N	N	<5	30
78AL006C	25	70	25	20	240	300	N	N	N	N	N	N	<5	700
78AL007B	<5	<5	40	150	5	N	7.0	N	N	N	N	N	<5	50
78AL008A	460	500	15	<10	80	N	N	N	N	N	N	N	100	700
78AL009A	10	20	10	20	35	N	N	N	N	N	N	N	10	200
78NK141B	5	<5	5	<10	N	N	N	N	N	N	N	N	<5	20
78NK142B	240	300	25	<10	85	N	N	N	N	N	N	N	70	500
78NK143A	220	200	20	30	180	300	N	N	N	N	N	N	50	500
78NK144A	25	50	10	20	40	<200	N	N	N	N	N	N	15	200
78NK145A	25	50	10	20	40	N	N	N	N	N	N	N	15	150
78NK147A	400	500	15	<10	65	N	N	N	N	N	N	N	100	500
78NK149A	10	10	15	50	30	N	N	N	N	N	N	N	<5	100
78NK150A	10	15	10	30	45	N	N	N	N	N	N	N	10	200
78NK151A	5	<5	25	50	30	N	N	N	N	N	N	N	<5	20
78NK167A	35	70	10	<10	30	N	N	N	N	N	N	N	50	200
78NK167B	10	10	10	50	40	N	N	N	N	N	N	N	<5	10
79CH091A	80	50	10	10	70	N	<.5	N	N	N	N	N	10	200
79CH094A	30	20	10	20	70	<200	<.5	N	N	N	N	N	15	70
79HZ014A	10	10	75	70	20	N	<.5	N	N	N	N	N	7	20
79HZ027A	20	10	15	20	20	N	N	N	N	N	N	N	20	50
79HZ028A	15	20	15	<10	75	<200	N	N	N	N	N	N	50	300
79HZ031A	75	50	30	10	45	N	N	N	N	<50	N	N	70	150
79HZ031B	<5	<5	<5	N	<5	N	N	N	N	N	N	N	N	<10
79HZ032A	45	30	15	20	75	N	N	N	N	N	N	N	15	200
79HZ037A	720	500	15	20	90	<200	N	N	N	N	N	N	20	150
79HZ037B	240	200	10	<10	50	<200	N	N	N	N	N	N	70	500
79HZ038A	180	150	10	<10	25	<200	N	N	N	N	N	N	70	700
79HZ040A	15	15	10	<10	35	N	N	N	N	N	N	N	5	50
79HZ042A	5	<5	5	N	10	N	N	N	N	N	N	N	5	50
79HZ078C	30	30	5	<10	170	<200	N	5,000	<5	N	N	N	<5	<10
79NK069D	5	N	5	N	25	N	N	N	N	N	N	N	5	N
79NK109A	10	10	25	<10	45	N	N	N	N	N	N	N	10	300
79NK114A	<5	<5	15	20	50	<200	N	N	N	N	N	N	7	100
79NK158A	<5	<5	10	N	15	N	N	N	N	N	N	N	<5	10
79NK158B	30	15	15	10	100	N	3.0	N	N	N	N	N	7	1,500
79NK159A	240	500	10	10	100	<200	<.5	N	N	N	N	N	100	1,000
79NK159B	100	150	<5	<10	45	N	1.5	N	N	N	N	N	5	100
79NK159D	20	10	55	15	85	N	N	N	N	N	N	N	<5	15
79NK160A	<5	<5	35	<10	10	N	N	N	N	N	N	N	<5	10
79NK160B	35	30	20	30	120	<200	N	N	N	N	N	N	10	200
79NK161A	25	30	15	<10	50	N	.5	N	N	N	N	N	5	200
79NK161B	240	200	10	<10	140	<200	L	N	N	N	N	N	50	200
79NK161C	<5	<5	5	N	10	N	N	N	N	N	N	N	<5	10
79NK161D	35	20	15	0	85	N	<.5	N	N	N	N	N	50	150

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
78AL005A	100	15	N	100	3,000	2.0	N	N	50	<20	10	1,000	20	70	N
78AL006A	100	10	N	20	2,000	<1.0	N	N	50	<20	5	<100	<10	300	N
78AL006C	100	50	N	30	2,000	<1.0	N	N	50	<20	20	<100	20	200	N
78AL007B	50	15	N	10	500	1.0	N	N	50	<20	5	700	N	20	N
78AL008A	20	100	N	20	200	<1.0	N	N	50	<20	70	300	50	200	N
78AL009A	20	<5	N	10	1,000	1.0	N	N	50	<20	30	300	50	200	N
78BNK141B	<10	<5	N	10	200	N	N	N	50	<20	N	N	N	50	N
78BNK142B	700	150	N	100	200	<1.0	N	N	50	<20	50	200	50	100	N
78BNK143A	300	50	N	1,000	200	1.0	N	N	50	<20	50	200	50	100	N
78BNK144A	20	10	N	100	1,500	1.0	N	N	50	<20	20	200	10	200	N
78BNK145A	100	20	N	100	500	1.0	N	N	50	<20	10	<100	10	200	N
78BNK147A	20	50	N	20	200	N	N	N	50	<20	70	200	70	200	N
78BNK149A	20	<5	N	50	1,500	2.0	N	N	50	<20	10	300	15	100	N
78BNK150A	50	15	N	20	700	2.0	N	N	50	<20	30	500	50	70	N
78BNK151A	<10	<5	N	20	1,000	1.5	N	N	50	<20	7	200	20	50	N
78BNK167A	20	5	N	<10	300	1.0	N	N	50	<20	30	700	50	20	<100
78BNK167B	N	<5	N	50	1,000	2.0	N	N	70	<20	5	200	20	100	N
79CH091A	100	50	N	200	500	1.0	N	N	20	N	20	200	30	100	N
79CH094A	20	10	N	20	1,500	2.0	N	N	50	N	15	200	15	100	N
79HZ014A	20	20	N	30	300	<1.0	N	N	<20	N	<5	150	<10	15	N
79HZ027A	30	70	N	100	200	1.0	N	N	70	N	5	<100	15	500	N
79HZ028A	150	30	N	20	500	<1.0	N	N	30	N	20	700	30	100	N
79HZ031A	2,000	1,000	N	100	700	2.0	N	N	30	N	20	500	15	50	N
79HZ031B	<10	5	N	20	30	<1.0	N	N	N	N	<5	N	N	<10	N
79HZ032A	300	70	N	30	1,500	1.0	N	N	N	N	15	300	20	100	N
79HZ037A	<10	<5	N	<10	500	1.0	N	N	30	20	20	300	100	300	N
79HZ037B	<10	30	N	<10	30	<1.0	N	N	30	N	30	150	50	150	N
79HZ038A	1,000	150	N	10	700	<1.0	N	N	20	N	50	150	30	70	N
79HZ040A	30	15	N	100	300	1.0	N	N	N	N	5	<100	10	500	N
79HZ042A	50	7	N	N	300	1.5	N	N	30	<20	5	N	15	500	N
79HZ078C	<10	<5	N	300	1,000	3.0	N	N	100	70	5	100	100	>1,000	N
79NK069D	<10	5	N	N	N	N	N	N	N	<20	N	<100	20	150	N
79NK109A	15	10	N	N	100	<1.0	N	N	<20	N	20	500	20	100	N
79NK114A	30	7	N	N	1,000	1.5	N	N	20	N	7	700	10	100	N
79NK158A	<10	7	N	N	100	<1.0	N	N	N	N	N	<100	N	<10	N
79NK158B	30	70	N	70	2,000	1.0	N	N	N	N	<5	150	15	50	N
79NK159A	700	150	N	20	1,000	<1.0	N	N	30	<20	50	150	70	500	N
79NK159B	100	50	N	20	1,500	1.5	N	N	20	N	10	<100	15	70	N
79NK159D	<10	7	N	30	70	<1.0	N	N	N	N	<5	N	N	10	N
79NK160A	<10	5	N	20	70	<1.0	N	N	N	N	<5	200	<10	<10	N
79NK160B	100	100	N	200	700	1.0	N	N	50	N	10	100	10	100	N
79NK161A	100	50	N	200	1,500	1.0	N	N	30	N	15	200	15	150	N
79NK161B	200	100	N	50	1,000	<1.0	N	N	<20	N	30	150	30	70	N
79NK161C	<10	5	N	N	70	<1.0	N	N	N	N	<5	150	N	N	N
79NK161D	500	100	N	30	1,500	1.5	N	N	50	20	20	700	50	100	N

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
79NK162A	63 9 6	144 25 0	Metadiabase	20	5.00	3.00	5.00	.700	1,500.0
79NK162B	63 9 6	144 25 0	Quartz-white mica-graphite phyllite	13	1.50	1.50	.07	.200	300.0
79NK163A	63 8 6	144 25 51	Quartz vein	13	.20	.05	.20	.015	150.0
79NK163B	63 8 6	144 25 51	Quartz-white mica phyllite	13	3.00	2.00	.15	.300	1,000.0
79NK164A	63 3 46	144 10 42	Schistose gabbro	20	7.00	3.00	5.00	.700	1,000.0
79NK166A	63 3 47	144 6 18	Quartz-white mica phyllite	13	2.00	2.00	.20	.300	700.0
79NK167A	63 4 9	144 3 30	Metabasalt	13	7.00	.50	2.00	.300	1,500.0
79NK167B	63 4 9	144 3 30	Quartz-chlorite-white mica phyllite	13	1.50	.20	<.05	.150	100.0
79NK167C	63 4 9	144 3 30	Quartz vein	13	.30	.03	.50	.050	150.0
79NK168A	63 3 19	144 0 2	Metagabbro	20	10.00	5.00	5.00	>1.000	2,000.0
79NK169B	63 3 44	144 0 34	Quartz vein	13	.30	.07	.50	.020	300.0
79NK169C	63 3 44	144 0 34	Quartz-white mica-graphite phyllite	13	1.50	.15	.05	.200	150.0
79NK170A	63 10 18	144 8 52	Quartz-white mica-chlorite schist	15	2.00	.50	<.05	.200	200.0
79NK170B	63 10 18	144 8 52	Quartz-white mica-chlorite schist	15	1.50	.20	.70	.150	300.0
79NK170E	63 10 18	144 8 52	Quartz-calcite-epidote schist	15	2.00	1.50	5.00	.070	1,000.0
79NK170F	63 10 18	144 8 52	Quartz vein	15	.20	.03	.20	.010	150.0
79NK171B	63 10 20	144 9 30	Serpentinite in fault zone	20	2.00	1.50	.50	.300	3,000.0
79NK171E	63 10 20	144 9 30	Quartz-white mica-calcite schist	15	.70	.15	.50	.070	500.0
79NK172A	63 8 58	144 9 50	Quartz-calcite schist	13	.70	.15	.30	.100	1,000.0
79NK172C	63 8 58	144 9 50	Quartz vein	13	.10	.02	.15	.020	100.0
79NK173B	63 7 17	144 9 46	Quartz vein	13	.50	.13	.20	.020	300.0
79NK175A	63 7 2	144 2 18	Quartz-white mica-graphite schist	15	.50	.07	<.05	.150	70.0
79NK202A	63 11 4	144 30 7	Quartz-carbonate-white mica schist	13	5.00	.20	.50	.500	1,000.0
79NK203A	63 11 0	144 32 27	Fe-stained hornblende gabbro	20	20.00	3.00	5.00	>1.000	3,000.0
79NK204A	63 10 42	144 32 59	Quartz monzonite	20	1.50	.50	2.00	.200	300.0
79NK205B	63 11 18	144 39 36	Quartz-calcite-muscovite phyllite	13	2.00	3.00	1.50	.500	200.0
79NK205D	63 11 18	144 39 36	Lamprophyre dike	20	10.00	10.00	5.00	.700	2,000.0
79NK205E	63 11 18	144 39 36	Quartz vein	13	.05	.10	10.00	.005	150.0
79NK207A	63 12 41	144 42 45	Quartz-carb-white mica schist	13	2.00	5.00	3.00	.150	1,500.0
79NK207D	63 12 41	144 42 45	Altered gabbro dike	20	15.00	7.00	5.00	>1.000	2,000.0
79NK208A	63 13 26	144 45 44	Lamprophyre	20	7.00	1.50	3.00	1.000	1,500.0
79NK209A	63 11 45	144 41 27	Calcite-quartz-graphite marble	13	.70	3.00	>20.00	.070	300.0
79NK210B	63 13 12	144 48 30	Quartz-graphite phyllite	13	3.00	2.00	.70	.300	500.0
79NK211A	63 13 30	144 51 22	Pebbly quartz schist	13	5.00	5.00	.20	.700	1,000.0
79NK211B	63 13 30	144 51 22	Quartz vein	13	1.00	.50	1.00	.030	1,000.0
79NK212A	63 13 9	144 51 32	Fe-stained calcite-quartz phyllite	13	10.00	5.00	7.00	.700	2,000.0
79NK213A	63 14 59	144 55 37	Quartz-muscovite-biotite schist	13	2.00	1.50	.15	.150	300.0
79NK213B	63 14 59	144 55 37	Quartz-graphite phyllite	13	5.00	5.00	7.00	.500	700.0
79NK213D	63 14 59	144 55 37	Quartz-graphite marble	13	1.50	3.00	>20.00	.100	1,000.0
79NK215B	63 15 9	145 0 19	Quartz vein	13	.20	.07	2.00	.020	700.0
79NK218A	63 16 40	145 8 12	Metavolcanic greywacke	13	.70	.20	.05	.200	50.0
79NK219A	63 17 45	145 16 40	Quartzite	15	10.00	5.00	.07	1.000	1,000.0
79NK230A	63 26 20	145 56 55	Metarhyolite	11	10.00	7.00	10.00	.700	2,000.0
79NK232B	63 20 34	145 31 1	Quartz vein	15	.30	.07	.20	.003	70.0
79NK235B	63 22 4	145 32 27	Quartz vein	15	2.00	1.00	7.00	.100	2,000.0

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
79NK162A	200	150	5	<10	70	<200	N	N	N	N	N	N	70	500
79NK162B	25	15	5	N	15	N	N	N	N	N	N	N	7	100
79NK163A	<5	5	<5	N	<5	N	N	N	N	N	N	N	<5	<10
79NK163B	<5	7	10	10	45	N	N	N	N	N	N	N	10	150
79NK164A	240	200	10	<10	80	<200	N	N	N	N	N	N	70	300
79NK166A	25	20	5	<10	50	N	<.5	N	N	N	N	N	10	200
79NK167A	220	100	<5	10	120	<200	N	N	N	N	N	N	10	10
79NK167B	5	7	30	30	20	N	<.5	N	N	N	N	N	N	20
79NK167C	<5	<5	10	<10	5	N	N	N	N	N	N	N	<5	<10
79NK168A	390	500	10	<10	100	<200	.5	N	N	N	N	N	70	500
79NK169B	10	7	5	N	10	N	N	N	N	N	N	N	<5	15
79NK169C	15	7	<5	N	35	N	N	N	N	N	N	N	7	30
79NK170A	10	7	<5	N	35	N	N	N	N	N	N	N	7	50
79NK170B	10	10	25	30	30	N	<.5	N	N	N	N	N	7	30
79NK170E	5	5	25	20	50	N	N	N	N	N	N	N	<5	15
79NK170F	<5	10	<5	N	10	N	N	N	N	N	N	N	<5	N
79NK171B	<5	5	5	10	50	<200	N	N	N	N	N	N	50	100
79NK171E	10	7	5	N	25	N	N	N	N	N	N	N	5	15
79NK172A	10	7	<5	N	20	N	N	N	N	N	N	N	5	20
79NK172C	<5	5	<5	N	<5	N	N	N	N	N	N	N	<5	10
79NK173B	5	10	<5	N	20	N	N	N	N	N	N	N	<5	15
79NK175A	5	5	5	<10	10	N	N	N	N	N	N	N	<5	15
79NK202A	35	50	80	100	260	700	<.5	N	5	N	N	N	20	100
79NK203A	100	150	5	20	30	<200	N	N	N	N	N	N	30	100
79NK204A	<5	<5	5	50	35	N	<.5	N	N	N	N	N	5	30
79NK205B	65	70	20	10	85	N	2.0	N	15	N	N	N	7	300
79NK205D	50	50	15	10	55	N	<.5	N	N	N	N	N	70	500
79NK205E	<5	<5	5	N	10	N	N	N	N	N	N	N	N	10
79NK207A	5	<5	20	10	45	N	N	N	N	N	N	N	<5	20
79NK207D	210	200	5	<10	60	N	<.5	N	N	N	N	N	70	500
79NK208A	40	20	15	100	25	N	N	N	<5	N	N	N	20	300
79NK209A	10	10	20	10	15	N	<.5	N	N	N	N	N	<5	100
79NK210B	45	50	20	15	45	N	<.5	N	N	N	N	N	10	150
79NK211A	40	100	15	20	70	N	<.5	N	<5	N	N	N	50	300
79NK211B	40	50	<5	N	230	200	<.5	N	N	N	N	N	5	70
79NK212A	130	200	20	20	65	N	N	N	N	N	N	N	50	500
79NK213A	<5	5	10	30	35	N	N	N	<5	N	N	N	5	50
79NK213B	45	50	15	15	90	N	1.0	N	N	N	N	N	20	300
79NK213D	15	7	25	<10	50	N	<.5	N	N	N	N	N	5	200
79NK215B	<5	<5	15	N	10	N	N	N	N	N	N	N	<5	<10
79NK218A	<5	<5	15	20	5	N	N	N	N	N	N	N	<5	70
79NK219A	30	30	65	150	85	<200	.5	N	5	N	N	N	15	200
79NK230A	45	50	25	20	60	N	N	N	N	N	N	N	50	500
79NK233B	5	7	5	N	5	N	N	N	N	N	N	N	<5	10
79NK235B	10	30	310	700	20	N	5.0	N	N	N	N	N	10	20

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
79NK162A	150	100	N	15	1,000	<1.0	N	N	20	N	30	300	30	70	N
79NK162B	30	70	N	50	1,500	1.5	N	N	70	<20	7	100	30	100	N
79NK163A	<10	5	N	20	150	<1.0	N	N	N	N	<5	N	N	10	N
79NK163B	30	5	N	30	300	1.0	N	N	50	<20	15	N	20	200	N
79NK164A	300	100	N	20	100	<1.0	N	N	<20	N	30	1,500	30	70	N
79NK166A	200	150	N	200	1,000	1.0	N	N	20	N	10	1.0	N	500	N
79NK167A	<10	<5	N	20	3,000	1.0	N	N	50	50	30	300	100	2,000	N
79NK167B	<10	5	N	100	1,000	2.0	N	N	50	N	10	N	30	500	N
79NK167C	<10	5	N	30	200	<1.0	N	N	N	N	<5	N	10	50	N
79NK168A	500	150	N	20	300	<1.0	N	N	20	20	30	200	50	100	N
79NK169B	<10	7	N	50	100	<1.0	N	N	N	N	<5	<100	N	10	N
79NK169C	20	10	N	100	300	1.0	N	N	30	N	5	N	15	500	N
79NK170A	70	50	N	30	700	1.0	N	N	20	N	7	N	10	200	N
79NK170B	30	30	N	50	500	<1.0	N	N	30	N	5	N	15	150	N
79NK170E	<10	5	N	20	1,000	1.0	N	N	30	N	10	500	20	70	N
79NK170F	<10	7	N	15	20	<1.0	N	N	N	N	<5	N	N	N	N
79NK171B	70	100	N	150	500	1.5	N	N	30	N	10	100	15	70	N
79NK171E	10	15	N	70	100	<1.0	N	N	N	N	<5	<100	N	200	N
79NK172A	10	10	N	70	70	<1.0	N	N	N	N	<5	N	<10	70	N
79NK172C	<10	5	N	30	20	<1.0	N	N	N	N	<5	N	N	20	N
79NK173B	<10	7	N	30	150	<1.0	N	N	N	N	5	<100	10	10	N
79NK175A	10	5	N	70	200	<1.0	N	N	N	N	<5	N	N	200	N
79NK202A	20	7	N	500	2,000	5.0	N	N	70	<20	30	150	50	300	N
79NK203A	20	<5	N	30	3,000	2.0	N	N	100	30	50	1,500	100	300	N
79NK204A	30	7	N	30	2,000	5.0	N	N	50	N	5	2,000	<10	200	N
79NK205B	200	70	N	1.0	1,000	1.0	N	N	50	<20	20	100	50	500	N
79NK205D	1,500	150	N	20	2,000	3.0	N	N	50	N	50	700	30	100	N
79NK205E	10	5	N	20	300	N	N	N	N	N	<5	1,500	10	<10	N
79NK207A	10	5	N	50	1,500	1.5	N	N	50	N	10	200	30	100	N
79NK207D	100	70	N	20	300	<1.0	N	N	30	N	50	200	30	70	N
79NK208A	20	5	N	70	>5,000	5.0	N	N	200	20	10	>5,000	50	500	N
79NK209A	70	10	N	100	1,500	<1.0	N	N	N	N	5	5,000	20	100	N
79NK210B	150	100	N	100	500	1.0	N	N	20	N	15	<100	15	70	N
79NK211A	700	200	N	100	1,500	1.0	N	N	30	N	20	<100	20	100	N
79NK211B	20	20	N	100	300	N	N	N	N	N	<5	100	10	15	N
79NK212A	50	20	N	70	700	L	N	N	30	N	30	200	30	70	N
79NK213A	20	5	N	70	2,000	2.0	N	N	100	N	15	<100	50	100	N
79NK213B	300	100	N	100	5,000	1.5	N	N	70	N	20	500	50	100	N
79NK213D	100	20	N	20	1,000	<1.0	N	N	20	N	5	1,000	20	50	N
79NK215B	10	7	N	N	70	N	N	N	N	N	<5	150	<10	N	N
79NK218A	30	5	N	N	5,000	<1.0	N	N	50	N	7	<100	15	100	N
79NK219A	500	150	N	150	1,000	2.0	N	N	100	<20	20	<100	30	100	N
79NK230A	700	50	N	100	700	1.0	N	N	30	N	30	500	20	70	N
79NK233B	<10	15	N	N	20	N	N	N	N	N	<5	N	N	N	N
79NK235B	10	50	N	30	50	<1.0	10	N	<20	N	5	300	10	N	N

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
79NK239C	63 28 35	146 8 35	Quartz vein	12	.50	.10	.50	.010	1,500.0
79NK240B	63 28 18	146 4 47	Metarhyolite	12	5.00	1.50	3.00	.500	1,000.0
79NK240C	63 28 18	146 4 47	Graphite-white mica schist	12	15.00	10.00	3.00	1.000	1,500.0
79NK241A	63 28 50	146 0 23	White mica-graphite quartzite	12	7.00	3.00	.07	1.000	500.0
79NW050A	63 7 54	144 22 0	Quartz-white mica phyllite	13	5.00	1.00	1.50	.300	1,500.0
79NW052A	63 7 15	144 17 24	Quartz veins	13	1.50	1.00	2.00	.030	1,000.0
79NW052C	63 7 15	144 17 24	Altered lamprophyre dike	20	3.00	.70	2.00	.200	1,000.0
79NW053A	63 7 48	144 22 48	Carbonate-stained greenschist	13	5.00	3.00	5.00	.200	1,000.0
79NW054B	63 7 30	144 23 36	Quartz vein	13	1.50	.20	1.50	.030	1,000.0
79NW060A	63 5 20	144 2 12	Limonite-quartz vein	13	7.00	5.00	10.00	.300	2,000.0
79NW061B	63 8 55	144 1 20	Gossan	15	5.00	7.00	10.00	.100	1,500.0
79NW063B	63 13 0	144 6 12	Black phyllite	15	2.00	1.00	.20	.300	500.0
79NW063C	63 13 0	144 6 12	Lamprophyre	20	10.00	7.00	5.00	.500	1,500.0
79NW063H	63 13 0	144 6 12	Lamprophyre	20	10.00	10.00	7.00	.300	1,500.0
80AF001A	63 49 59	146 41 24	Granodiorite	20	2.00	1.50	2.00	.100	500.0
80AF002A	63 49 38	146 40 55	Andesite dike	20	1.50	1.00	.70	.150	300.0
80AF013A	63 41 53	146 46 0	Metaandesite	13	3.00	.70	.70	.500	700.0
80AF014A	63 42 0	146 45 22	Metaandesite	15	5.00	1.00	.50	.700	700.0
80AF018A	63 45 30	145 25 47	Quartz monzonite	20	1.50	.50	.50	.100	300.0
80AF020B	63 42 57	145 19 10	Quartz-feldspar-andalusite schist	15	5.00	1.00	.07	.200	1,000.0
80AF022A	63 40 21	146 33 30	Metarhyolite	15	1.50	.03	.05	.050	300.0
80AF023A	63 40 28	146 32 32	Calc-silicate schist	15	1.00	.30	7.00	.070	500.0
80AF024A	63 40 30	146 32 18	Metarhyolite	15	1.50	.02	.07	.070	300.0
80AF026A	63 47 8	145 47 30	Biotite-plagioclase-kspar schist	15	3.00	1.00	1.00	.150	500.0
80AF027A	63 45 28	145 39 46	Olivine-clinopyroxene peridotite	20	5.00	5.00	1.50	.070	500.0
80AF027B	63 45 28	145 39 46	Quartz-plagioclase pegmatite	20	.70	.30	.07	.050	70.0
80AF031A	63 43 6	145 26 52	Quartz diorite	20	2.00	2.00	2.00	.100	500.0
80AF034A	63 43 22	145 28 18	Quartz diorite	20	5.00	3.00	3.00	.200	500.0
80AF041A	63 35 38	146 1 6	Muscovite schist	15	.70	.02	<.05	.050	15.0
80AF041B	63 35 38	146 1 6	Quartz vein	15	.50	.02	<.05	.010	100.0
80AF045B	63 30 50	146 1 25	Calcite-quartz mylonite	12	1.00	3.00	5.00	.050	200.0
80AF046A	63 40 32	145 52 34	Biotite-epidote schist	15	1.50	.20	.30	.100	200.0
80AF046B	63 40 32	145 52 34	Quartz vein	15	.07	.02	.10	.005	70.0
80AF050A	63 43 38	145 14 26	Quartz-epidote-biotite schist	15	1.50	.30	.70	.100	300.0
80AF058A	63 35 32	145 14 20	Quartz-epidote-chlorite schist	15	1.50	1.00	1.50	.100	200.0
80AF058B	63 35 32	145 14 20	Rhyolite dike	20	.20	.02	<.05	.050	50.0
80AF059A	63 35 38	145 14 0	Felsic dike	20	1.50	1.00	1.50	.150	300.0
80AF064A	63 36 10	145 21 39	Quartz-white mica-chlorite schist	15	1.00	.30	<.05	.070	70.0
80AF066A	63 37 3	145 20 36	Quartz-carbonate schist	15	2.00	.20	5.00	.200	700.0
80IL002A	63 31 31	145 50 10	Muscovite-quartz-calcite schist	15	2.00	1.50	<.05	.200	300.0
80IL002B	63 31 31	145 50 10	Quartz vein	15	1.50	.30	1.00	.200	500.0
80IL002C	63 31 31	145 50 10	Schist	15	1.00	.15	.05	.100	200.0
80IL003A	63 48 22	146 32 22	Granodiorite	20	1.50	1.50	1.00	.100	300.0
80IL003B	63 48 22	146 32 22	Altered granodiorite	20	3.00	1.50	.30	.100	200.0
80IL003C	63 48 22	146 32 22	Altered granodiorite	20	1.00	.15	<.05	.100	20.0

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
79NK239C	25	10	<5	N	20	N	<.5	N	N	N	N	N	<5	10
79NK240B	55	50	10	10	65	N	.5	N	5	N	N	N	15	300
79NK240C	75	100	15	<10	50	N	<.5	N	N	N	N	N	70	500
79NK241A	25	30	5	15	55	N	<.5	N	N	N	N	N	10	500
79NW050A	10	10	20	30	60	N	N	N	N	N	N	N	15	150
79NW052A	<5	<5	10	<10	20	N	N	N	N	N	N	N	<5	15
79NW052C	<5	<5	20	20	50	N	N	N	N	N	N	N	7	70
79NW053A	20	20	20	10	50	N	N	N	N	N	N	N	15	70
79NW054B	10	7	10	<10	35	N	<.5	N	N	N	N	N	<5	10
79NW060A	50	50	20	20	55	N	N	N	N	N	N	N	30	100
79NW061B	25	20	20	<10	30	N	N	N	N	N	N	N	15	150
79NW063B	25	30	15	20	30	N	<.5	N	N	N	N	N	7	300
79NW063C	10	7	15	30	75	N	N	N	N	N	N	N	50	150
79NW063H	25	20	20	15	40	N	N	N	N	N	N	N	70	200
80AF001A	<5	7	10	10	30	N	N	N	N	N	N	N	20	150
80AF002A	25	20	15	10	30	N	<.5	N	N	N	N	N	15	150
80AF013A	<5	5	15	<10	25	N	N	N	N	N	N	N	15	150
80AF014A	20	30	25	<10	90	<200	.5	N	N	N	N	N	30	200
80AF018A	<5	<5	10	15	20	N	N	N	N	N	N	N	7	100
80AF020B	130	70	20	30	75	<200	N	N	N	N	N	N	30	150
80AF022A	5	10	20	15	150	200	N	N	15	N	N	N	5	<10
80AF023A	10	15	30	10	10	N	N	N	N	N	N	N	7	50
80AF024A	<5	7	5	<10	120	<200	N	N	N	N	N	N	5	N
80AF026A	<5	5	20	15	40	N	N	N	N	N	N	N	10	150
80AF027A	170	70	20	N	45	N	N	N	N	N	N	N	70	200
80AF027B	<5	5	15	10	10	N	N	<200	N	N	N	N	5	20
80AF031A	5	7	15	<10	25	N	N	N	N	N	N	N	30	200
80AF034A	5	7	20	10	15	N	<.5	N	N	N	N	N	50	200
80AF041A	5	5	20	<10	50	N	N	N	N	N	N	N	N	15
80AF041B	N	<5	5	<10	<5	N	<.5	<200	N	N	N	N	N	10
80AF045B	20	15	35	<10	40	N	N	N	N	N	N	N	7	70
80AF046A	<5	<5	10	10	40	N	N	N	N	N	N	N	5	70
80AF046B	<5	N	5	N	<5	N	N	N	N	N	N	N	N	15
80AF050A	5	5	10	10	45	N	N	N	N	N	N	N	7	70
80AF058A	<5	N	5	15	20	N	N	N	N	N	N	N	7	100
80AF058B	<5	<5	20	20	5	N	.7	N	N	N	30	N	N	N
80AF059A	25	20	70	50	150	<200	<.5	N	N	N	N	N	30	150
80AF064A	10	10	5	<10	25	N	N	N	N	N	N	N	5	30
80AF066A	<5	5	15	10	10	N	N	N	N	N	N	N	7	100
80IL002A	45	30	10	15	75	<200	N	N	N	N	N	N	20	200
80IL002B	40	30	15	<10	40	N	N	N	N	N	N	N	7	100
80IL002C	10	7	10	N	40	N	N	N	N	N	N	N	5	50
80IL003A	20	10	10	20	25	N	N	N	N	N	N	N	15	150
80IL003B	1,000	1,000	15	50	35	N	5.0	500	<5	N	N	N	7	150
80IL003C	10	10	5	<10	10	N	N	<200	N	N	N	N	N	100

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
79NK239C	<10	15	N	30	500	N	N	N	N	N	<5	N	<10	N	N
79NK240B	30	20	N	200	500	<1.0	N	N	20	N	20	300	30	70	N
79NK240C	300	100	N	10	200	<1.0	N	N	<20	N	50	200	30	50	N
79NK241A	500	50	N	300	1,500	1.5	N	N	70	<20	30	150	50	300	N
79NW050A	70	10	N	70	1,000	1.5	N	N	50	<20	20	150	20	150	N
79NW052A	10	15	N	30	30	<1.0	N	N	N	N	5	200	N	10	N
79NW052C	<10	<5	N	200	1,500	2.0	N	N	50	<20	5	300	15	200	N
79NW053A	500	100	N	50	200	1.5	N	N	20	N	15	300	20	70	N
79NW054B	<10	5	N	70	300	1.0	N	N	20	N	5	150	70	50	N
79NW060A	20	50	N	30	500	1.0	N	N	20	N	10	1,000	15	30	N
79NW061B	70	30	N	50	1,500	<1.0	N	N	<20	N	15	300	15	15	N
79NW063B	100	20	N	150	2,000	3.0	N	N	50	<20	15	<100	50	150	N
79NW063C	100	7	N	50	1,500	1.5	N	N	30	N	20	500	30	150	N
79NW063H	1,000	100	N	100	2,000	<1.0	N	N	50	N	30	700	30	70	N
80AF001A	150	20	N	15	700	1.5	N	N	20	N	30	500	20	100	N
80AF002A	200	50	N	10	1,000	1.0	N	N	30	<20	15	500	20	100	<100
80AF013A	30	10	N	15	300	1.0	N	N	70	20	50	150	50	200	N
80AF014A	30	10	N	<10	1,500	<1.0	N	N	50	N	50	200	30	150	N
80AF018A	15	5	N	10	1,000	1.0	N	N	<20	N	15	300	15	70	N
80AF020B	100	50	N	15	1,500	1.5	N	N	70	<20	30	100	30	100	N
80AF022A	N	5	N	15	150	3.0	N	N	150	70	N	N	70	500	N
80AF023A	30	20	N	30	2,000	1.0	N	N	30	N	10	300	20	150	N
80AF024A	<10	<5	N	15	100	3.0	N	N	150	70	10	N	100	700	N
80AF026A	100	15	N	10	500	1.5	N	N	50	<20	30	200	20	100	N
80AF027A	2,000	200	N	<10	150	<1.0	N	N	20	N	30	150	<10	30	N
80AF027B	20	30	N	15	500	1.0	N	N	30	N	<5	500	<10	70	N
80AF031A	500	50	N	10	300	1.0	N	N	<20	N	50	300	20	50	N
80AF034A	700	70	N	<10	500	<1.0	N	N	20	N	50	300	30	70	N
80AF041A	10	10	N	15	200	1.0	N	N	N	N	<5	N	N	70	N
80AF041B	10	7	N	10	100	<1.0	N	N	N	N	<5	N	N	10	N
80AF045B	100	50	N	30	100	<1.0	N	N	<20	N	7	200	10	10	N
80AF046A	30	5	N	10	300	1.0	N	N	20	N	15	100	20	100	N
80AF046B	N	5	N	N	50	<1.0	N	N	N	N	N	N	N	N	N
80AF050A	20	7	N	15	500	1.5	N	N	50	N	20	200	20	150	N
80AF058A	70	15	N	15	70	1.0	N	N	30	<20	30	500	30	100	N
80AF058B	N	5	N	30	150	1.0	N	N	30	50	N	N	70	200	N
80AF059A	100	30	N	50	300	1.5	N	N	20	N	15	500	15	100	N
80AF064A	20	7	N	10	50	1.0	N	N	20	N	7	<100	15	100	N
80AF066A	50	20	N	<10	20	1.5	N	N	70	20	15	700	30	200	N
80IL002A	200	50	N	70	700	1.5	N	N	100	<20	30	N	30	150	N
80IL002B	10	10	N	15	200	1.0	N	N	20	N	15	100	20	100	N
80IL002C	20	20	N	30	300	1.0	N	N	20	N	5	N	10	150	N
80IL003A	150	30	N	15	1,000	1.5	N	N	30	N	20	500	15	100	N
80IL003B	100	20	N	10	1,500	2.0	N	N	70	N	30	500	20	100	N
80IL003C	50	5	N	30	1,000	<1.0	N	N	20	N	10	N	10	150	N

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
80IL003D	63 48 22	146 32 22	Graphitic schist	15	.70	.07	.20	.070	15.0
80IL003E	63 48 22	146 32 22	Altered schist	15	.50	.10	<.05	.070	50.0
80IL004A	63 48 12	146 31 27	Quartz vein	20	.70	.07	.20	.015	200.0
80IL004B	63 48 12	146 31 27	Granodiorite	20	2.00	1.00	1.50	.150	300.0
80IL004C	63 48 12	146 31 27	Quartz vein	20	.50	.05	.15	.030	70.0
80IL004D	63 48 12	146 31 27	Porphyritic granodiorite	20	1.50	1.00	1.00	.100	300.0
80IL005A	63 47 11	146 57 35	Granodiorite	20	2.00	1.00	.70	.100	300.0
80IL005B	63 47 40	146 57 14	Granodiorite	20	1.50	1.00	.70	.100	300.0
80IL005C	63 48 14	146 57 24	Granodiorite	20	2.00	1.00	1.00	.150	300.0
80IL005D	63 48 42	146 57 36	Granodiorite	20	1.50	1.00	.50	.070	300.0
80IL006A	63 48 56	146 58 3	Quartz-mica schist	15	2.00	.70	<.05	.300	200.0
80IL006C	63 49 22	146 57 55	Granodiorite	20	2.00	1.00	1.00	.150	300.0
80IL006D	63 49 22	146 57 55	Quartz-mica schist	15	1.50	.50	.70	.100	200.0
80IL007A	63 50 9	146 56 50	Quartzite	15	.30	<.02	<.05	.050	150.0
80IL007B	63 50 22	146 58 22	Andesite dike	20	2.00	.30	<.05	.150	200.0
80IL007C	63 49 43	146 55 46	Quartz-biotite schist	15	1.50	.70	<.05	.200	200.0
80IL007D	63 49 43	146 55 46	Andesite dike	20	2.00	1.00	.70	.200	300.0
80IL009A	63 43 38	146 52 7	Quartz-mica schist	15	2.00	.70	.15	.300	200.0
80IL009B	63 43 38	146 52 7	Quartz vein	15	3.00	.30	.30	.150	200.0
80IL009C	63 43 38	146 52 7	Quartz-chlorite-muscovite schist	15	3.00	.70	.20	.300	300.0
80IL009D	63 43 38	146 52 7	Quartz vein	15	.70	.07	.07	.020	100.0
80IL010A	63 50 42	146 42 10	Quartzite	15	.50	.10	.20	.070	50.0
80IL010B	63 50 42	146 42 10	Graphitic schist	15	.20	.10	N	.150	20.0
80IL011A	63 42 49	146 54 30	Schistose quartzite	13	1.50	.02	<.05	.200	20.0
80IL011B	63 42 49	146 54 30	Schistose amphibolite	13	10.00	2.00	2.00	1.000	700.0
80IL011C	63 42 49	146 54 30	Metaquartz andesite	13	3.00	1.00	.30	.150	150.0
80IL012A	63 48 59	146 49 45	Granodiorite	20	2.00	1.00	1.00	.200	200.0
80IL013A	63 48 25	146 50 48	Quartz vein	20	1.50	1.00	1.00	.150	200.0
80IL013B	63 48 25	146 50 48	Quartz monzonite dike	20	1.50	.50	1.00	.150	200.0
80IL013C	63 48 25	146 50 48	Granodiorite dike	20	1.50	.70	1.00	.150	150.0
80IL013D	63 48 25	146 50 48	Granodiorite	20	2.00	.70	1.50	.200	300.0
80IL014A	63 46 54	145 23 47	Intermediate dike	20	3.00	1.50	1.50	.500	500.0
80IL014B	63 46 54	145 23 47	Felsic dike	20	.70	.03	.20	.015	700.0
80IL015A	63 46 55	145 24 9	Quartz monzonite	20	2.00	1.00	1.50	.200	300.0
80IL015B	63 46 55	145 24 9	Aplite dike	20	.50	.10	.20	.030	200.0
80IL015C	63 47 19	145 24 0	Quartz monzonite	20	1.50	.70	1.00	.150	300.0
80IL015D	63 47 19	145 24 0	Aplite dike	20	.70	.10	.15	.030	70.0
80IL015E	63 47 20	145 23 10	Alaskite	20	.50	.02	.10	.030	50.0
80IL016A	63 47 37	145 21 27	Altered quartz monzonite	20	1.50	.50	1.50	.070	300.0
80IL016B	63 47 37	145 21 27	Altered quartz monzonite	20	1.50	.30	1.50	.100	300.0
80IL017A	63 49 23	145 23 50	Quartz monzonite	20	1.00	.30	.20	.070	200.0
80IL017B	63 49 23	145 23 50	Felsic dike	20	2.00	1.00	1.50	.200	300.0
80IL017C	63 49 23	145 23 50	Quartz diorite dike	20	2.00	2.00	2.00	.100	700.0
80IL017D	63 49 23	145 23 50	Quartz monzonite	20	1.50	.70	.70	.100	300.0
80IL017E	63 49 23	145 23 50	Aplite dike	20	1.00	.15	.20	.050	150.0

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
80IL003D	10	10	100	30	35	N	1.5	N	70	<50	N	N	N	500
80IL003E	45	30	5	<10	25	N	N	300	N	N	N	N	<5	50
80IL004A	<5	<5	5	N	35	N	N	N	50	<50	N	N	<5	15
80IL004B	10	7	20	30	30	N	N	N	N	<50	N	N	20	150
80IL004C	20	10	5	30	10	N	N	N	N	N	N	N	5	20
80IL004D	10	15	10	10	15	N	N	N	50	N	N	N	15	150
80IL005A	15	15	10	30	60	N	N	N	N	N	N	N	7	150
80IL005B	10	7	10	50	30	N	N	N	N	N	N	N	7	100
80IL005C	15	10	10	30	50	N	N	N	N	N	N	N	10	150
80IL005D	10	7	10	50	50	N	N	N	N	N	N	N	7	100
80IL006A	25	20	25	20	80	<200	N	N	N	N	N	N	20	100
80IL006C	5	5	10	30	25	N	N	N	N	N	N	N	20	150
80IL006D	15	10	10	20	55	N	N	N	N	N	N	N	7	150
80IL007A	20	7	<5	N	15	N	N	N	N	N	N	N	5	15
80IL007B	30	20	20	15	75	<200	N	N	N	N	N	N	10	70
80IL007C	20	10	20	20	70	N	N	N	N	N	N	N	7	100
80IL007D	10	7	15	10	60	N	N	N	N	N	N	N	5	100
80IL009A	40	15	20	10	40	N	<.5	N	N	N	N	N	10	100
80IL009B	50	50	40	20	55	N	.7	N	N	N	N	N	20	70
80IL009C	20	20	20	15	60	N	<.5	N	N	N	N	N	20	100
80IL009D	15	5	5	N	20	N	N	N	N	N	N	N	N	10
80IL010A	35	20	10	<10	85	<200	1.5	N	N	N	N	N	N	200
80IL010B	30	15	10	<10	50	N	1.0	N	20	N	N	N	N	700
80IL011A	<5	<5	5	N	20	N	N	N	N	N	N	N	N	30
80IL011B	15	7	20	N	95	<200	N	N	N	N	N	N	50	200
80IL011C	15	7	25	20	70	N	N	N	N	N	N	N	5	50
80IL012A	40	15	15	30	450	500	.7	N	N	N	N	N	15	100
80IL013A	15	7	15	20	45	N	N	N	5	N	N	N	7	100
80IL013B	10	5	10	30	65	N	N	N	N	N	N	N	N	70
80IL013C	5	5	10	20	70	N	N	N	N	N	N	N	N	100
80IL013D	5	5	15	20	55	N	N	N	N	N	N	N	10	200
80IL014A	65	50	20	20	70	N	N	N	N	N	N	N	20	200
80IL014B	<5	N	15	50	<5	N	N	N	N	N	N	N	N	<10
80IL015A	<5	<5	15	20	35	N	N	N	N	N	N	N	15	70
80IL015B	<5	N	10	50	10	N	N	N	N	N	N	N	N	15
80IL015C	<5	<5	15	20	30	N	N	N	N	N	N	N	7	70
80IL015D	15	7	20	30	5	N	N	N	N	N	N	N	N	10
80IL015E	<5	<5	15	70	<5	N	N	N	N	N	N	N	<5	<10
80IL016A	5	5	10	30	35	N	N	N	N	N	N	N	7	100
80IL016B	<5	<5	20	20	45	N	N	N	N	N	N	N	7	100
80IL017A	<5	N	15	20	30	N	N	N	N	N	N	N	5	100
80IL017B	45	30	15	10	50	N	N	N	N	N	N	N	20	200
80IL017C	15	15	10	10	25	<200	N	N	N	N	N	N	30	150
80IL017D	5	5	10	15	35	N	N	N	N	N	N	N	10	150
80IL017E	10	7	15	50	15	N	N	N	N	N	N	N	5	30

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
80IL003D	70	7	N	50	2,000	<1.0	N	N	<20	N	10	<100	20	70	N
80IL003E	20	10	N	30	500	<1.0	N	N	20	N	<5	N	15	100	N
80IL004A	<10	5	N	15	200	<1.0	N	N	N	N	5	N	N	<10	N
80IL004B	150	30	N	15	1,000	1.5	N	N	30	N	20	500	20	50	N
80IL004C	N	5	N	15	200	1.5	N	N	<20	N	<5	100	N	20	N
80IL004D	150	30	N	10	1,500	1.0	N	N	50	<20	15	500	15	70	N
80IL005A	70	20	N	15	1,000	1.5	N	N	50	<20	15	700	20	100	N
80IL005B	70	15	N	15	1,500	1.5	N	N	30	N	10	500	15	100	N
80IL005C	100	20	N	15	1,000	1.5	N	N	50	N	20	700	20	150	N
80IL005D	70	10	N	20	3,000	1.0	N	N	<20	N	10	700	10	150	N
80IL006A	100	30	N	15	700	1.5	N	N	70	<20	15	N	20	150	<100
80IL006C	100	30	N	15	1,000	1.0	N	N	30	N	20	500	20	100	N
80IL006D	30	15	N	15	1,500	1.5	N	N	30	N	10	700	10	100	N
80IL007A	10	20	N	20	200	<1.0	N	N	N	N	<5	N	N	30	N
80IL007B	70	30	N	30	300	1.0	N	N	20	<20	15	N	10	150	N
80IL007C	100	20	N	20	1,000	1.0	N	N	30	<20	15	N	10	150	N
80IL007D	50	10	N	15	700	<1.0	N	N	N	N	15	500	10	100	N
80IL009A	100	15	N	30	700	1.0	N	N	100	<20	20	N	15	100	N
80IL009B	30	20	N	20	300	1.5	N	N	50	N	10	N	50	70	N
80IL009C	100	30	N	70	700	1.5	N	N	70	<20	20	100	30	200	N
80IL009D	<10	<5	N	10	50	N	N	N	N	<20	<5	N	N	10	N
80IL010A	50	30	N	10	>5,000	N	N	N	N	N	5	200	15	50	N
80IL010B	50	20	N	100	1,500	N	N	N	N	N	7	N	20	50	N
80IL011A	N	5	N	10	>5,000	N	N	N	50	N	15	200	15	100	N
80IL011B	300	30	N	10	300	<1.0	N	N	<20	N	70	150	30	100	N
80IL011C	<10	5	N	15	500	1.0	N	N	50	N	20	200	20	100	N
80IL012A	70	30	N	10	1,000	1.5	N	N	30	N	15	500	15	70	N
80IL013A	70	20	N	15	700	1.5	N	N	30	N	10	500	10	100	N
80IL013B	15	10	N	10	1,000	1.5	N	N	20	N	5	700	N	100	N
80IL013C	20	10	N	10	1,000	1.0	N	N	<20	N	7	700	N	100	N
80IL013D	100	20	N	10	1,000	1.5	N	N	20	N	10	700	10	150	N
80IL014A	70	30	N	10	1,500	1.0	N	N	70	N	20	1,000	15	150	N
80IL014B	N	5	N	15	70	3.0	N	N	N	N	N	N	20	100	N
80IL015A	20	5	N	10	700	1.5	N	N	50	N	15	300	15	150	N
80IL015B	N	5	N	10	200	1.5	N	N	N	<20	N	N	15	30	N
80IL015C	15	5	N	10	700	1.0	N	N	N	N	10	200	10	50	N
80IL015D	N	<5	N	10	300	<1.0	N	N	N	<20	N	N	15	30	N
80IL015E	<10	5	N	20	100	1.0	N	N	N	N	N	N	15	70	N
80IL016A	30	5	N	15	1,500	1.5	N	N	50	N	10	500	15	70	N
80IL016B	30	5	N	50	2,000	1.5	N	N	50	<20	15	300	15	150	N
80IL017A	20	5	N	15	1,500	1.0	N	N	30	N	7	200	15	150	N
80IL017B	N	5	N	20	700	1.0	N	N	30	N	30	500	30	100	N
80IL017C	500	30	N	10	700	1.0	N	N	<20	N	50	300	20	70	N
80IL017D	30	7	N	10	1,000	1.5	N	N	50	N	15	300	20	70	N
80IL017E	10	5	N	10	1,500	1.5	N	N	<20	N	<5	300	15	70	N

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
80IL017F	63 49 23	145 23 50	Quartz monzonite	20	2.00	1.00	1.00	.150	500.0
80IL018A	63 42 48	146 44 26	Quartz-mica schist with m.s.	15	2.00	1.00	1.00	.200	500.0
80IL018B	63 42 48	146 44 26	Quartz-mica-carbonate schist	15	15.00	.50	2.00	.070	2,000.0
80IL018E	63 42 48	146 44 26	Metadiabase	20	20.00	.15	.70	.030	700.0
80IL018F	63 42 48	146 44 26	Metadiabase	15	3.00	.50	3.00	.300	1,000.0
80IL018G	63 42 48	146 44 26	Skarn with massive sulfide	15	15.00	.30	2.00	.070	1,000.0
80IL018H	63 42 48	146 44 26	Hornblende schist with m.s.	15	10.00	.15	7.00	.030	>5,000.0
80IL018J	63 42 48	146 44 26	Massive sulfide	15	15.00	.10	.07	.030	500.0
80IL018K	63 42 48	146 44 26	Metadiabase	20	20.00	.15	2.00	.030	1,000.0
80IL018L	63 42 48	146 44 26	Granulated amphibolite	15	15.00	.30	2.00	.015	1,000.0
80IL019A	63 42 50	146 45 15	Quartz-mica-epidote schist	15	20.00	.20	<.05	.030	200.0
80IL019B	63 42 50	146 45 15	Actinolite schist	15	2.00	1.00	.20	.100	500.0
80IL020A	63 42 48	146 44 25	Quartz-mica schist with m.s.	15	10.00	.20	<.05	.030	150.0
80IL020B	63 42 48	146 44 25	Epidote-actinolite schist	15	20.00	.15	.70	.020	1,500.0
80IL020C	63 42 48	146 44 25	Actinolite schist	15	20.00	.30	.50	.070	500.0
80IL020D	63 42 48	146 44 25	Epidote-actinolite schist	15	15.00	.30	5.00	.015	>5,000.0
80IL020F	63 42 48	146 44 25	Massive sulfide	15	15.00	.30	.70	.030	500.0
80IL020G	63 42 48	146 44 25	Prehnite-chlorite schist with m.s.	15	10.00	1.00	2.00	.100	>5,000.0
80IL022A	63 42 47	146 44 25	Mineralized greenstone	15	15.00	.15	3.00	.050	300.0
80IL022B	63 42 47	146 44 25	Massive sulfide	15	20.00	.10	2.00	.015	1,000.0
80IL022C	63 42 47	146 44 25	Hornblende schist with m.s.	15	10.00	.20	5.00	.030	>5,000.0
80IL022D	63 42 47	146 44 25	Massive sulfide	15	5.00	.30	1.50	.030	3,000.0
80IL025A	63 30 30	145 50 33	Quartz vein	15	1.00	.20	.50	.010	300.0
80IL025B	63 30 30	145 50 33	Quartz vein	15	.70	.15	10.00	.015	1,500.0
80IL025C	63 30 30	145 50 33	Quartz vein	15	.07	.03	.10	.003	50.0
80IL026A	63 47 2	145 47 24	Biotite-plag-kspar schist	15	2.00	1.00	1.00	.100	300.0
80IL026B	63 47 2	145 47 24	Quartz-biotite schist	15	1.00	.20	<.05	.100	100.0
80IL026C	63 47 2	145 47 24	Quartz-biotite-hornblende schist	15	1.50	.70	.70	.100	300.0
80IL026D	63 47 2	145 47 24	Biotite-plag-kspar schist	15	2.00	1.00	1.50	.150	500.0
80IL027A	63 43 34	145 29 29	Quartz-white mica-biotite schist	15	2.00	.30	.05	.200	200.0
80IL027B	63 43 34	145 29 29	Quartz-white mica chlorite schist	15	1.00	.05	<.05	.050	300.0
80IL028A	63 16 31	144 16 23	Massive sulfide	15	20.00	<.02	<.05	.003	50.0
80IL028B	63 16 31	144 16 23	Quartz-chlorite-carbonate schist	15	3.00	1.00	<.05	.200	300.0
80IL029A	63 21 9	144 31 37	Quartz monzonite	20	5.00	5.00	7.00	.100	700.0
80IL029B	63 21 9	144 31 37	Quartz-muscovite-chlorite schist	15	2.00	.30	.07	.070	200.0
80NK001A	63 50 44	146 42 12	Quartz-actinolite schist	15	3.00	2.00	2.00	.300	700.0
80NK002B	63 50 39	146 40 1	Altered granodiorite	20	3.00	1.00	3.00	.500	500.0
80NK003A	63 48 20	146 53 38	Schistose granodiorite	20	2.00	1.50	2.00	.300	500.0
80NK004A	63 49 12	146 53 30	Schistose granodiorite	20	3.00	1.50	1.50	.300	500.0
80NK006A	63 42 58	146 52 54	Metagreywacke	13	5.00	2.00	.07	.700	1,000.0
80NK006B	63 42 58	146 52 54	Black schist	15	3.00	1.00	.07	.300	700.0
80NK006C	63 42 58	146 52 54	Quartz vein	15	.70	.15	.30	.050	500.0
80NK006E	63 42 58	146 52 54	Quartz-carbonate schist	13	5.00	.70	.20	.150	>5,000.0
80NK006G	63 42 58	146 52 54	Pebbly quartzite	15	5.00	2.00	.70	.300	300.0
80NK009A	63 45 44	146 44 36	Schistose granodiorite	20	3.00	3.00	3.00	.500	500.0

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Bn	S-Sb	S-Co	S-V
80IL017F	5	5	20	10	45	N	N	N	N	N	N	N	7	100
80IL018A	5	5	15	20	100	N	N	N	N	N	20	N	7	150
80IL018B	500	500	30	15	350	300	N	N	N	N	30	N	30	50
80IL018E	850	1,000	45	30	65	N	N	N	<5	N	N	N	70	10
80IL018F	<5	5	15	15	75	N	N	N	N	N	15	N	5	150
80IL018G	850	1,000	30	10	190	<200	N	N	N	N	15	N	30	50
80IL018H	450	700	15	<10	25	N	N	N	N	N	30	N	5	15
80IL018J	600	700	35	15	50	N	N	N	<5	<50	N	N	50	10
80IL018K	450	700	30	30	30	N	N	N	<5	N	20	N	15	20
80IL018L	450	500	<5	10	<5	N	N	N	<5	N	N	N	20	10
80IL019A	650	1,000	90	50	60	N	.5	N	N	N	N	N	150	15
80IL019B	15	7	55	70	80	<200	<.5	N	N	N	N	N	7	150
80IL020A	1,100	1,000	50	30	75	N	.7	N	N	N	N	N	50	15
80IL020B	550	700	35	15	55	N	N	N	<5	N	10	N	20	<10
80IL020C	2,000	2,000	55	20	120	<200	1.0	N	<5	N	10	N	100	30
80IL020D	250	300	20	<10	60	<200	N	N	<5	N	10	N	30	15
80IL020F	1,000	1,000	45	30	45	N	.5	N	<5	N	N	N	200	10
80IL020G	40	30	20	10	300	200	N	N	<5	N	10	N	10	50
80IL022A	350	500	60	15	25	N	<.5	N	N	N	N	N	150	20
80IL022B	600	700	30	10	20	N	.5	N	<5	N	N	N	500	10
80IL022C	10	10	55	<10	55	N	N	N	<5	N	15	N	20	10
80IL022D	<5	<5	20	<10	55	N	N	N	N	N	N	N	7	<10
80IL025A	40	20	15	N	15	N	<.5	N	N	N	N	N	5	<10
80IL025B	<5	<5	30	N	5	N	N	N	N	N	N	N	N	15
80IL025C	<5	<5	5	N	5	N	N	N	N	N	N	N	N	10
80IL026A	5	5	15	10	35	N	N	N	N	N	N	N	10	150
80IL026B	25	20	40	50	45	N	.5	N	N	N	N	N	7	100
80IL026C	15	10	20	20	45	N	<.5	N	N	N	N	N	10	100
80IL026D	5	<5	20	30	50	N	N	N	N	N	N	N	10	150
80IL027A	60	30	15	<10	100	<200	N	N	N	N	N	N	20	100
80IL027B	5	5	5	N	25	N	<.5	N	N	N	N	N	5	20
80IL028A	13,000	15,000	1,100	500	2,500	2,000	10.0	1,500	20	N	70	N	50	50
80IL028B	110	50	25	30	110	<200	N	N	N	N	N	N	30	100
80IL029A	65	50	40	<10	45	N	N	N	N	N	N	N	30	150
80IL029B	10	10	10	<10	25	N	<.5	N	N	N	N	N	10	50
80NK001A	15	20	10	30	40	<200	N	N	N	N	N	N	7	150
80NK002B	15	20	10	30	55	N	<.5	N	N	N	N	N	30	150
80NK003A	55	50	10	50	50	N	<.5	N	N	N	N	N	15	100
80NK004A	5	7	10	30	50	N	N	N	N	N	N	N	15	150
80NK006A	<5	<5	15	20	110	200	N	N	N	N	N	N	30	150
80NK006B	20	20	10	10	75	N	<.5	N	N	N	N	N	30	100
80NK006C	40	20	35	30	25	N	.5	N	N	N	N	N	7	20
80NK006E	60	100	10	<10	40	<200	N	N	N	N	N	N	50	100
80NK006G	5	7	20	20	95	N	N	N	N	N	N	N	20	150
80NK009A	5	10	10	30	45	N	N	N	N	N	N	N	30	200

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
80IL017F	30	7	N	10	1,000	1.0	N	N	50	N	15	300	20	150	N
80IL018A	100	30	N	15	500	1.5	N	N	150	<20	20	500	50	100	N
80IL018B	20	30	N	<10	500	1.0	N	N	30	N	10	500	30	50	N
80IL018E	N	30	N	<10	500	<1.0	30	N	20	N	N	150	N	15	N
80IL018F	70	5	N	<10	300	<1.0	<10	N	70	<20	50	1,000	30	150	N
80IL018G	15	20	N	<10	700	1.0	N	N	20	N	7	700	20	70	N
80IL018H	10	<5	N	<10	50	2.0	N	N	<20	N	N	150	<10	10	N
80IL018J	N	15	N	<10	500	<1.0	10	N	20	N	N	<100	<10	20	N
80IL018K	N	20	N	<10	300	<1.0	30	N	20	N	N	100	N	50	N
80IL018L	N	20	N	<10	70	1.5	N	N	<20	N	N	100	N	<10	N
80IL019A	<10	50	N	<10	50	<1.0	20	N	20	N	5	N	N	30	N
80IL019B	100	7	N	15	1,000	1.5	N	N	50	<20	20	<100	30	100	N
80IL020A	N	15	N	<10	50	N	<10	N	N	N	N	N	N	30	N
80IL020B	<10	7	N	<10	100	2.0	N	N	N	N	N	100	N	<10	N
80IL020C	15	15	N	<10	500	<1.0	15	N	20	N	7	200	15	50	N
80IL020D	<10	5	N	N	300	5.0	N	N	<20	N	N	<100	N	<10	N
80IL020F	10	30	N	N	50	<1.0	N	N	20	N	<5	<100	10	50	N
80IL020G	50	10	N	<10	1,000	2.0	N	N	50	<20	15	300	20	70	N
80IL022A	10	50	N	N	200	<1.0	N	N	<20	N	<5	150	15	70	N
80IL022B	N	30	N	N	100	1.0	N	N	<20	N	N	<100	N	<10	N
80IL022C	10	5	N	N	200	1.0	N	N	<20	N	<5	<100	10	20	N
80IL022D	10	5	N	<10	300	<1.0	N	N	20	N	N	N	N	200	N
80IL025A	<10	10	N	15	70	<1.0	N	N	N	N	N	<100	N	15	N
80IL025B	10	5	N	10	50	<1.0	N	N	N	N	30	700	50	<10	N
80IL025C	<10	5	N	15	30	<1.0	N	N	N	N	N	N	N	30	N
80IL026A	100	15	N	10	500	1.0	N	N	30	N	20	200	20	50	N
80IL026B	50	15	N	20	500	1.5	N	N	50	N	10	N	15	100	N
80IL026C	70	10	N	10	500	1.0	N	N	50	<20	20	200	15	70	N
80IL026D	150	10	N	10	500	1.0	N	N	50	<20	50	500	30	150	N
80IL027A	100	30	N	30	700	1.5	N	N	50	<20	20	<100	20	150	N
80IL027B	15	10	N	15	300	1.0	N	N	<20	N	5	N	N	70	N
80IL028A	N	5	N	<10	20	N	<10	N	<20	N	N	N	10	N	N
80IL028B	150	50	N	70	500	1.5	N	N	70	<20	30	100	30	100	N
80IL029A	<10	30	N	<10	70	<1.0	N	N	<20	N	50	100	30	30	N
80IL029B	20	20	N	15	1,500	1.0	N	N	30	N	7	N	10	70	N
80NK001A	500	15	N	<10	1,500	N	N	N	20	N	50	300	15	100	N
80NK002B	300	70	N	15	1,500	1.0	N	N	20	N	30	500	20	150	N
80NK003A	150	30	N	10	1,500	1.5	N	N	50	N	15	1,000	15	100	N
80NK004A	200	30	N	10	1,500	1.0	N	N	20	N	20	700	15	100	N
80NK006A	200	50	N	70	1,000	1.5	N	N	70	20	30	N	30	150	N
80NK006B	100	30	N	50	500	1.0	N	N	50	<20	20	N	20	150	N
80NK006C	10	15	N	10	150	N	N	N	N	N	N	N	N	50	N
80NK006E	50	50	N	50	700	1.0	N	N	<20	N	20	100	20	70	N
80NK006G	50	15	N	<10	300	N	N	N	50	N	50	<100	20	100	N
80NK009A	300	30	N	10	1,500	1.0	N	N	70	N	50	1,000	30	70	N

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
80NK010A	63 43 44	146 46 40	Quartz-mica-carbonate schist	15	2.00	.30	2.00	.200	300.0
80NK010B	63 43 44	146 46 40	Pelitic schist	15	5.00	1.50	1.00	.300	500.0
80NK010C	63 43 44	146 46 40	Quartz vein	15	.20	.03	.20	.015	100.0
80NK010D	63 43 44	146 46 40	Diabase sill	20	5.00	3.00	2.00	.500	700.0
80NK011A	63 37 34	146 59 42	Quartz-mica schist	14	3.00	2.00	.30	.300	500.0
80NK011B	63 37 34	146 59 22	Phyllite	14	5.00	3.00	1.50	.500	700.0
80NK011C	63 37 34	146 59 22	Metagreywacke	13	2.00	.50	.20	.200	700.0
80NK011E	63 37 34	146 59 22	Quartz vein	14	1.00	.15	.07	.070	50.0
80NK012A	63 40 21	146 59 34	Metagreywacke	13	3.00	1.50	1.50	.300	1,500.0
80NK012B	63 40 21	146 59 34	Phyllite	14	3.00	2.00	1.50	.300	500.0
80NK013A	63 39 30	146 47 39	Quartz-mica schist	13	3.00	1.00	1.50	.300	700.0
80NK013C	63 39 30	146 47 39	Quartz-mica schist	13	1.50	.50	.10	.150	100.0
80NK013D	63 39 30	146 47 39	Quartz schist	13	1.50	.50	.20	.150	700.0
80NK013E	63 39 30	146 47 39	Amphibolite	13	3.00	3.00	5.00	.200	500.0
80NK013F	63 39 30	146 47 39	Quartz vein	13	.10	.05	.05	.010	30.0
80NK014A	63 43 21	146 39 50	Quartz monzonite	20	1.50	.30	.70	.100	200.0
80NK014B	63 43 21	146 39 50	Quartz vein	20	1.50	.20	.05	.070	500.0
80NK015A	63 43 4	146 37 30	Quartz monzonite	20	1.50	.50	.50	.100	200.0
80NK016A	63 32 40	145 44 4	Muscovite-quartz schist	15	1.50	.30	.20	.100	200.0
80NK016B	63 32 40	145 44 4	Quartz vein	15	.30	.10	.20	.015	100.0
80NK016D	63 32 40	145 44 4	Fe-stained quartz vein	15	.70	.05	<.05	.030	70.0
80NK017A	63 33 0	145 43 3	Muscovite-quartz schist	15	1.00	.10	1.00	.070	500.0
80NK017C	63 33 0	145 43 3	Pyrite veins in schist	15	1.50	.15	.15	.100	150.0
80NK019A	63 34 27	145 41 30	Amphibolite	15	10.00	2.00	7.00	.020	3,000.0
80NK020B	63 41 51	146 51 56	Amphibolite	14	10.00	2.00	2.00	>1.000	700.0
80NK020C	63 41 51	146 51 56	Quartz-mica schist	14	2.00	.50	.07	.100	150.0
80NK021A	63 38 9	146 46 22	Quartz monzonite	20	1.50	.50	.70	.100	200.0
80NK021B	63 38 9	146 46 22	Andalusite-biotite schist	14	5.00	1.50	.10	.300	300.0
80NK022C	63 40 28	146 45 2	Quartz-mica schist	14	5.00	1.50	.30	.500	300.0
80NK024D	63 36 31	146 28 56	Quartz vein	14	1.50	.30	1.00	.100	300.0
80NK024E	63 36 31	146 28 56	Amphibolite with massive sulfide	13	15.00	.30	2.00	.030	1,500.0
80NK026D	63 37 16	146 18 38	Calcite schist	15	7.00	2.00	1.50	.300	500.0
80NK027A	63 39 30	145 20 54	Quartz-mica-garnet schist	15	1.50	.15	<.05	.200	100.0
80NK028A	63 46 2	145 32 45	Granodiorite	20	2.00	1.00	1.50	.200	300.0
80NK028B	63 46 2	145 32 45	Schist inclusion in granodiorite	15	5.00	1.50	3.00	.300	500.0
80NK029A	63 45 36	145 33 42	Gabbro	20	5.00	3.00	3.00	.300	700.0
80NK030B	63 45 34	145 35 34	Fe-stained gabbro	20	5.00	.70	2.00	.300	500.0
80NK032A	63 46 42	145 25 12	Quartz monzonite	20	1.50	.50	.70	.100	200.0
80NK034A	63 45 30	145 17 42	Quartz monzonite	20	2.00	1.00	1.50	.100	500.0
80NK035A	63 47 29	145 19 56	Quartz monzonite	20	1.50	.50	2.00	.100	300.0
80NK036A	63 48 13	145 25 38	Quartz gabbro	20	5.00	3.00	5.00	.500	500.0
80NK036B	63 48 13	145 25 38	Quartz diorite	20	2.00	1.00	.70	.150	300.0
80NK037A	63 47 2	145 30 33	Granodiorite	20	1.50	.70	1.50	.100	500.0
80NK038A	63 45 12	145 38 48	Granodiorite	20	3.00	1.50	2.00	.500	300.0
80NK039A	63 38 10	145 24 58	Quartz-white mica-chlorite schist	15	1.50	.50	<.05	.200	200.0

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
80NK010A	<5	<5	10	10	20	N	N	N	N	N	N	N	5	50
80NK010B	40	50	250	500	65	<200	1.5	N	N	N	N	N	50	100
80NK010C	N	<5	5	<10	<5	N	N	N	N	N	N	N	N	10
80NK010D	90	100	30	50	80	<200	<.5	N	N	N	N	N	50	200
80NK011A	10	20	15	15	130	<200	<.5	N	7	N	N	N	30	150
80NK011B	20	15	20	<10	65	N	N	N	N	N	N	N	30	150
80NK011C	20	30	10	<10	40	<200	N	N	N	N	N	N	10	100
80NK011E	55	30	5	10	30	N	N	500	N	N	N	N	N	15
80NK012A	5	10	30	70	80	<200	N	N	N	N	N	N	20	100
80NK012B	15	15	30	50	55	N	N	N	N	N	N	N	30	150
80NK013A	10	20	70	150	75	<200	.5	N	N	N	N	N	20	100
80NK013C	<5	<5	15	20	35	N	N	N	N	N	N	N	N	30
80NK013D	25	30	15	20	70	N	<.5	<200	N	N	N	N	15	150
80NK013E	25	30	55	70	45	N	N	N	N	N	N	N	50	300
80NK013F	<5	<5	15	<10	5	N	<.5	N	N	N	N	N	5	10
80NK014B	10	7	15	70	60	N	N	<200	N	N	N	N	7	100
80NK014B	5	10	20	10	40	N	N	N	N	N	N	N	10	50
80NK015A	<5	5	10	50	45	N	N	N	N	N	N	N	7	100
80NK016A	<5	7	5	<10	15	N	N	N	N	N	N	N	7	70
80NK016B	N	<5	<5	<10	5	N	<.5	N	N	N	N	N	N	10
80NK016D	5	7	<5	<10	15	N	N	N	N	N	N	N	5	15
80NK017A	<5	7	10	N	10	N	N	N	N	N	N	N	5	50
80NK017C	40	30	<5	N	30	N	N	N	N	N	N	N	10	70
80NK019A	<5	5	15	15	10	<200	N	N	N	N	N	N	30	30
80NK020B	170	150	10	10	80	<200	N	N	N	N	N	N	70	700
80NK020C	85	50	15	10	65	N	.7	N	N	N	N	N	10	150
80NK021A	10	15	15	50	55	N	N	N	N	N	N	N	7	100
80NK021B	40	30	15	10	120	<200	N	N	5	N	N	N	20	200
80NK022C	40	50	15	20	95	<200	N	N	N	N	N	N	30	300
80NK024D	90	70	10	<10	55	N	1.0	N	N	N	N	N	15	100
80NK024E	700	700	25	20	30	N	.5	N	<5	N	15	N	100	30
80NK026D	5	15	10	10	65	N	N	N	20	N	N	N	7	300
80NK027A	5	7	5	<10	25	N	N	N	N	N	N	N	5	100
80NK028A	<5	5	5	10	35	N	N	N	N	N	N	N	15	150
80NK028B	<5	7	10	20	60	N	N	N	N	N	N	N	30	200
80NK029A	<5	5	10	10	35	N	N	N	N	N	N	N	30	200
80NK030B	15	20	15	10	80	N	<.5	N	N	N	N	N	30	200
80NK032A	<5	<5	5	30	30	N	N	N	N	N	N	N	7	150
80NK034A	<5	5	5	50	30	N	N	N	N	N	N	N	7	150
80NK035A	N	<5	5	30	40	N	N	N	N	N	N	N	7	100
80NK036A	15	20	10	20	30	N	N	N	N	N	N	N	50	300
80NK036B	10	7	10	30	45	N	1.0	N	N	N	N	N	10	150
80NK037A	<5	5	10	30	65	N	N	N	N	N	N	N	7	100
80NK038A	<5	5	10	50	65	N	N	N	N	N	N	N	20	150
80NK039A	<5	5	5	10	15	N	N	N	N	N	N	N	7	100

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
BONK010A	30	10	N	30	300	<1.0	N	N	30	N	7	100	20	150	N
BONK010B	150	30	N	100	1,000	1.5	10	N	100	<20	30	150	50	150	N
BONK010C	<10	5	N	10	70	N	N	N	N	N	N	N	N	10	N
BONK010D	700	150	N	10	1,500	1.0	N	N	50	N	50	1,000	20	200	N
BONK011A	700	200	N	30	500	1.0	N	N	50	N	20	200	15	150	N
BONK011B	500	30	N	10	100	<1.0	N	N	70	<20	50	300	30	150	N
BONK011C	50	30	N	20	300	<1.0	N	N	<20	N	7	N	20	70	N
BONK011E	N	7	N	15	1,000	<1.0	N	N	70	<20	N	300	N	150	N
BONK012A	100	10	N	20	1,000	1.0	N	N	70	N	30	<100	30	200	N
BONK012B	300	30	N	15	1,000	1.0	N	N	100	<20	50	200	30	150	N
BONK013A	30	10	N	15	700	1.0	N	N	70	<20	20	100	20	150	N
BONK013C	10	5	N	15	500	1.0	N	N	70	<20	10	N	20	150	N
BONK013D	100	30	N	50	500	1.5	N	N	70	<20	20	<100	30	150	N
BONK013E	1,000	100	N	<10	700	1.0	N	N	20	N	70	500	30	70	N
BONK013F	15	10	N	N	50	<1.0	N	N	N	N	N	N	<10	N	<100
BONK014B	30	10	N	10	1,500	1.5	N	N	70	N	10	1,000	10	150	N
BONK014B	50	30	N	20	300	1.0	N	N	20	N	7	N	15	100	N
BONK015A	30	15	N	10	1,500	1.5	N	N	50	N	10	1,000	10	100	N
BONK016A	50	15	N	20	300	1.0	N	N	50	N	7	<100	15	200	N
BONK016B	<10	10	N	10	100	<1.0	N	N	N	N	N	N	N	20	N
BONK016D	10	7	N	20	200	<1.0	N	N	<20	N	N	N	N	100	N
BONK017A	20	10	N	20	200	1.0	N	N	30	N	5	100	10	200	N
BONK017C	50	20	N	30	300	1.0	N	N	30	N	10	N	15	150	N
BONK019A	<10	50	N	<10	N	1.0	N	N	N	N	N	100	N	10	N
BONK020B	200	100	N	<10	300	<1.0	N	N	20	N	70	200	50	70	N
BONK020C	70	70	N	50	2,000	1.5	N	N	30	N	20	N	20	100	N
BONK021A	70	15	N	10	1,500	1.5	N	N	70	N	10	1,500	15	100	N
BONK021B	500	70	N	50	1,000	<1.0	N	N	50	<20	30	100	30	150	N
BONK022C	700	100	N	70	1,500	1.0	N	N	70	<20	50	300	50	150	N
BONK024D	30	30	N	15	300	<1.0	N	N	N	N	15	700	15	70	N
BONK024E	20	30	N	<10	300	1.0	15	N	20	N	N	200	10	50	N
BONK026D	50	5	N	20	>5,000	<1.0	N	N	30	<20	70	700	20	100	N
BONK027A	70	20	N	15	2,000	1.0	N	N	70	<20	15	N	20	300	<100
BONK028A	70	15	N	10	1,500	<1.0	N	N	50	<20	30	500	30	100	N
BONK028B	70	15	N	10	1,000	1.0	N	N	50	N	50	500	50	100	N
BONK029A	300	30	N	10	700	1.0	N	N	70	N	70	500	50	70	N
BONK030B	300	30	N	15	300	1.5	N	N	50	N	50	N	30	150	N
BONK032A	20	5	N	15	1,500	1.0	N	N	20	N	10	300	10	70	<100
BONK034A	50	7	N	10	1,500	1.0	N	N	50	N	15	300	20	100	<100
BONK035A	30	5	N	15	1,500	1.5	N	N	30	N	15	500	15	70	N
BONK036A	200	30	N	15	500	<1.0	N	N	20	N	70	500	30	70	N
BONK036B	70	10	N	15	1,000	1.5	N	N	50	<20	20	300	30	100	N
BONK037A	20	7	N	15	1,500	1.5	N	N	50	N	15	500	20	150	N
BONK038A	100	10	N	10	2,000	1.0	N	N	N	<20	30	700	N	50	N
BONK039A	70	20	N	20	2,000	1.5	N	N	N	<20	15	N	10	200	N

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
BONK039B	63 38 10	145 24 58	Quartz vein	15	1.00	.15	<.05	.030	70.0
BONK040A	63 38 42	145 23 12	Quartz-plag-biotite-garnet schist	15	1.50	.30	.05	.100	200.0
BONK040B	63 38 42	145 23 12	Quartz vein	15	.50	.02	<.05	.015	200.0
BONK040C	63 38 42	145 23 12	Fe-stained schist	15	1.50	.30	.07	.050	2,000.0
BONK041B	63 40 6	145 20 55	Quartz vein	15	.10	.02	<.05	.010	50.0
BONK042B	63 40 28	145 20 49	Quartz vein	15	.07	.02	<.05	.005	15.0
BONK044A	63 41 19	145 21 57	Quartz-white mica-chlorite schist	15	10.00	1.00	<.05	.150	300.0
BONK045A	63 45 7	145 39 30	Quartz-biotite schist	15	5.00	1.50	<.05	.500	500.0
BONK052A	63 41 58	145 46 28	Metadiabase	20	7.00	2.00	3.00	.700	700.0
BONK060A	63 48 26	146 28 6	Quartz schist	15	.20	.30	<.05	.070	50.0
BONK063B	63 39 46	146 25 3	Quartz vein	15	.50	.07	1.00	.030	200.0
BONK064B	63 37 22	146 31 25	Quartz schist	13	2.00	.30	.50	.100	200.0
BONK065A	63 46 23	146 13 10	Quartz diorite	20	7.00	3.00	5.00	>1.000	1,000.0
BONK066A	63 36 9	146 20 52	Glacier pebbles	13	5.00	3.00	5.00	.100	700.0
BONK066C	63 36 9	146 20 52	Gabbro	20	5.00	3.00	5.00	.700	1,000.0
BONK067C	63 34 24	146 14 24	Quartz-biotite schist	14	2.00	2.00	5.00	.200	1,000.0
BONK068A	63 32 22	146 58 10	Metadiorite	20	3.00	3.00	5.00	.300	500.0
BONK069C	63 32 8	146 58 28	Calc-silicate schist	12	2.00	1.00	3.00	.100	200.0
BONK070A	63 32 32	146 54 50	Calc-silicate schist	12	1.00	.10	.20	.070	150.0
BONK070C	63 32 32	146 54 50	Metagabbro	20	2.00	.50	.70	.150	300.0
BONK070D	63 32 32	146 54 50	Calc-silicate schist	12	3.00	1.50	5.00	.200	200.0
BONK072A	63 32 0	146 53 52	Metagabbro	20	3.00	1.50	5.00	.100	300.0
BONK073C	63 32 1	146 54 37	Schistose metagabbro	12	7.00	2.00	5.00	>1.000	700.0
BONK073D	63 32 1	146 54 37	Schistose metagabbro	12	5.00	2.00	3.00	.700	700.0
BONK074A	63 32 13	146 45 52	Schistose metagabbro	12	3.00	3.00	5.00	.050	300.0
BONK074C	63 32 13	146 45 52	Clinopyroxene cumulate	12	7.00	7.00	.50	.070	500.0
BONK074F	63 32 13	146 45 52	Metagabbro	12	3.00	1.50	5.00	.050	200.0
BONK075A	63 31 14	146 44 55	Metagabbro	20	2.00	1.50	1.50	.500	300.0
BONK076B	63 30 43	146 41 2	Metaquartz monzonite	12	1.50	.30	1.00	.100	300.0
BONK076C	63 30 43	146 41 2	Metaplagiogranite	12	.50	.20	1.00	.070	150.0
BONK076G	63 30 43	146 41 2	Amphibolite	12	7.00	1.50	3.00	.700	1,000.0
BONK077C	63 30 17	146 33 34	Amphibolite	12	3.00	1.00	1.50	.200	1,000.0
BONK078A	63 29 46	146 29 52	Altered granodiorite	20	2.00	.20	.30	.150	300.0
BONK078C	63 29 46	146 29 52	Metadiorite	20	3.00	3.00	3.00	.100	500.0
BONK079A	63 29 46	146 28 34	Gabbro	20	10.00	2.00	1.50	>1.000	700.0
BONK079D	63 29 46	146 28 34	Metagabbro	20	3.00	1.00	5.00	.200	1,500.0
BONK079E	63 29 46	146 28 34	Metagabbro	20	5.00	1.00	2.00	.200	500.0
BONK080A	63 28 26	145 55 28	Metagabbro dike	20	7.00	1.00	1.50	1.000	700.0
BONK081B	63 29 50	146 23 31	Gabbro	20	5.00	1.50	3.00	1.000	700.0
BONK082B	63 29 21	146 16 41	Quartz monzonite dike	20	1.00	.20	.15	.100	200.0
BONK082C	63 29 21	146 16 41	Hornblende-biotite schist	12	3.00	2.00	5.00	.700	700.0
BONK083A	63 28 45	146 11 0	Gabbro	20	2.00	1.50	3.00	.150	300.0
BONK083D	63 28 45	146 11 0	White mica-calcite quartzite	12	1.50	.30	.70	.100	300.0
BONK084B	63 28 32	146 5 10	Metagabbro	20	1.50	.70	1.00	.150	500.0
BONK084C	63 28 32	146 5 10	Graphite-white mica schist	12	1.50	.50	.50	.100	500.0

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
80NK039B	N	<5	N	<10	20	N	<.5	<200	N	N	N	N	5	20
80NK040A	<5	5	<5	<10	25	N	<.5	N	N	N	N	N	7	70
80NK040B	N	7	N	N	N	N	<.5	N	7	N	N	N	5	<10
80NK040C	45	50	<5	N	25	N	N	N	15	N	N	N	5	50
80NK041B	N	<5	N	<10	N	N	N	N	N	N	N	N	N	10
80NK042B	N	<5	N	<10	<5	N	N	N	N	N	N	N	5	10
80NK044A	110	200	10	30	100	<200	.5	N	5	N	N	N	30	150
80NK045A	20	20	15	20	75	N	N	N	30	N	N	N	30	150
80NK052A	<5	<5	5	15	35	N	N	N	N	N	N	N	50	300
80NK060A	15	15	<5	<10	10	N	1.5	N	N	N	N	N	5	500
80NK063B	5	<5	5	N	<5	N	N	N	N	N	N	N	5	30
80NK064B	15	30	15	10	720	1,000	1.0	N	N	N	N	N	7	150
80NK065A	15	20	<5	<10	25	N	N	N	N	N	N	N	30	300
80NK066A	100	70	5	<10	10	N	<.5	N	5	N	N	N	30	500
80NK066C	65	70	5	N	5	N	N	N	N	N	N	N	50	500
80NK067C	65	50	20	30	120	<200	.7	N	<5	N	N	N	15	200
80NK068A	15	15	5	10	20	<200	N	N	<5	N	N	N	30	150
80NK069C	40	50	5	10	40	<200	<.5	N	<5	N	N	N	15	200
80NK070A	<5	<5	<5	30	25	N	N	N	<5	N	N	N	5	30
80NK070C	55	50	5	10	40	<200	1.5	N	5	N	N	N	10	200
80NK070D	60	30	10	10	20	<200	N	N	N	N	N	N	15	200
80NK072A	10	10	5	<10	10	<200	N	N	N	N	N	N	30	200
80NK073C	15	20	15	<10	50	<200	.5	N	N	N	N	N	70	200
80NK073D	20	20	5	10	20	N	N	N	N	N	N	N	30	150
80NK074A	10	10	30	N	10	N	N	N	N	N	N	N	50	150
80NK074C	25	20	30	<10	75	N	<.5	N	N	N	N	N	100	150
80NK074F	350	200	20	<10	10	N	<.5	N	15	N	N	N	5	500
80NK075A	10	7	15	10	60	N	N	N	N	N	N	N	20	150
80NK076B	10	10	10	30	40	N	N	N	N	N	N	N	7	100
80NK076C	<5	<5	15	20	15	N	N	N	N	N	N	N	<5	50
80NK076Q	100	70	20	10	55	<200	<.5	N	N	N	N	N	30	300
80NK077C	25	20	15	<10	60	<200	N	N	N	N	N	N	15	150
80NK078A	15	15	10	30	40	N	N	N	N	N	N	N	5	30
80NK078C	15	15	10	10	15	N	N	N	N	N	N	N	30	150
80NK079A	300	300	10	<10	15	<200	<.5	N	N	N	N	N	100	200
80NK079D	5	10	20	<10	<5	<200	N	N	N	N	N	N	15	200
80NK079E	150	100	20	<10	60	<200	.5	N	15	N	N	N	30	150
80NK080A	10	10	20	<10	120	<200	N	N	N	N	N	N	50	300
80NK081B	100	50	15	10	20	<200	N	N	N	N	N	N	30	200
80NK082B	<5	<5	15	50	30	N	N	N	N	N	N	N	5	50
80NK082C	50	30	15	<10	15	N	N	N	N	N	N	N	50	200
80NK083A	<5	<5	15	N	15	N	N	N	N	N	N	N	20	150
80NK083D	85	50	15	<10	40	N	<.5	N	N	50	N	N	7	70
80NK084B	10	7	15	30	75	N	N	N	N	N	N	N	7	100
80NK084C	5	7	15	5	70	N	N	N	N	N	N	N	5	100

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
80NK039B	10	7	N	15	150	<1.0	N	N	N	N	N	N	N	<10	N
80NK040A	70	30	N	15	700	1.0	N	N	<20	N	10	N	15	200	N
80NK040B	15	15	N	N	70	<1.0	N	N	N	N	N	N	<10	<10	N
80NK040C	15	7	N	15	300	1.0	N	N	N	N	7	N	10	50	N
80NK041B	10	5	N	10	50	<1.0	N	N	N	N	N	N	N	10	N
80NK042B	<10	5	N	10	70	<1.0	N	N	N	N	N	N	N	<10	N
80NK044A	150	50	N	20	700	2.0	N	N	100	<20	30	100	30	70	N
80NK045A	150	50	N	10	2,000	2.0	N	N	100	<20	30	<100	30	150	N
80NK052A	70	30	N	<10	500	<1.0	N	N	N	N	70	300	50	70	N
80NK060A	100	7	N	20	2,000	1.5	N	N	<20	N	15	N	30	100	N
80NK063B	10	7	N	10	100	<1.0	N	N	N	N	N	150	N	20	N
80NK064B	15	70	N	15	2,000	1.0	N	N	30	N	15	300	20	70	N
80NK065A	70	10	N	<10	1,500	<1.0	N	N	<20	N	70	700	15	30	N
80NK066A	500	70	N	<10	300	<1.0	N	N	N	N	50	700	<10	15	N
80NK066C	300	20	N	<10	200	<1.0	N	N	N	N	50	300	15	20	N
80NK067C	150	30	N	30	1,500	1.0	N	N	50	N	30	700	30	100	N
80NK068A	50	5	N	10	300	<1.0	N	N	<20	N	30	700	15	20	N
80NK069C	100	70	N	30	700	1.5	N	N	50	N	20	300	30	150	N
80NK070A	10	5	N	15	500	2.0	N	N	50	<20	5	100	15	100	N
80NK070C	70	20	N	20	>5,000	1.0	N	N	20	N	30	300	30	70	N
80NK070D	150	70	N	10	1,500	1.0	N	N	30	<20	30	500	30	70	N
80NK072A	300	30	N	<10	700	1.0	N	N	20	N	50	1,000	30	15	N
80NK073C	20	7	N	<10	300	<1.0	N	N	70	20	50	700	50	30	N
80NK073D	200	30	N	<10	700	1.5	N	N	50	<20	50	500	50	150	N
80NK074A	500	30	N	<10	70	<1.0	N	N	<20	N	15	500	N	<10	N
80NK074C	1,500	150	N	N	70	N	N	N	20	N	15	150	N	15	N
80NK074F	700	20	N	N	200	<1.0	N	N	N	N	50	500	10	N	N
80NK075A	50	10	N	15	700	1.5	N	N	20	<20	30	700	30	200	N
80NK076B	15	7	N	300	2,000	3.0	N	N	70	N	10	1,000	20	150	N
80NK076C	10	10	N	20	1,500	1.5	N	N	30	N	7	700	30	100	N
80NK076G	100	70	N	<10	300	1.0	N	N	20	N	70	700	50	100	N
80NK077C	15	7	N	<10	500	1.0	N	N	<20	N	30	300	50	100	N
80NK078A	N	5	N	10	2,000	1.0	N	N	70	<20	15	300	30	200	N
80NK078C	1,000	100	N	20	200	2.0	N	N	<20	N	30	500	30	70	N
80NK079A	200	100	N	N	150	<1.0	N	N	<20	<20	70	300	15	10	N
80NK079D	70	30	N	20	1,500	1.5	N	N	20	N	30	700	50	100	N
80NK079E	100	70	N	15	300	1.5	N	N	<20	N	20	700	20	70	N
80NK080A	10	15	N	<10	300	<1.0	N	N	70	20	30	700	50	100	N
80NK081B	300	50	N	<10	300	<1.0	N	N	20	<20	50	700	<10	50	N
80NK082B	N	5	N	70	300	1.0	N	N	70	30	10	150	30	150	N
80NK082C	700	150	N	<10	150	1.0	N	N	20	<20	50	500	30	100	N
80NK083A	700	20	N	10	300	<1.0	N	N	70	N	30	500	20	150	N
80NK083D	50	30	N	10	300	1.5	N	N	70	N	15	200	50	70	N
80NK084B	30	7	N	15	1,500	3.0	N	N	50	N	15	700	15	100	N
80NK084C	30	7	N	15	1,000	2.0	N	N	100	<20	15	500	20	100	N

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
BONK085B	63 28 38	146 10 24	Quartz vein	12	.50	.30	5.00	.050	200.0
BONK086A	63 28 38	146 1 10	Altered granodiorite	20	3.00	1.00	1.50	.500	500.0
BONK087A	63 29 34	146 0 2	Metadiabase	20	5.00	1.50	3.00	1.000	700.0
BONK089A	63 41 12	145 51 41	Metagranodiorite	15	2.00	1.00	.20	.200	500.0
BONK089B	63 41 12	145 51 41	Quartz vein	15	.05	<.02	<.05	.007	15.0
BONK090A	63 43 18	145 37 42	Quartz-plag-chlorite schist	15	1.50	.50	.50	.150	300.0
BONK091A	63 42 40	145 34 34	Tertiary sandstone	21	1.00	.30	7.00	.070	200.0
BONK092A	63 44 2	145 32 58	Quartz-biotite schist	15	1.00	.30	.05	.150	100.0
BONK093A	63 43 52	145 32 13	Quartz-biotite schist	15	2.00	.70	<.05	.200	200.0
BONK093B	63 43 52	145 32 13	Quartz vein	15	.05	<.02	<.05	.015	30.0
BONK094A	63 43 38	145 31 6	Quartz-biotite schist	15	2.00	.50	<.05	.150	200.0
BONK095A	63 43 36	145 23 18	Quartz monzonite	20	1.50	.70	.70	.150	300.0
BONK100A	63 42 42	145 36 11	Chlorite-muscovite schist	15	1.00	.15	.07	.100	100.0
BONK101A	63 37 39	146 9 34	Quartz-chlorite-muscovite schist	15	5.00	1.50	3.00	1.000	1,500.0
BONK102A	63 31 43	146 14 19	Biotite-muscovite schist	14	3.00	1.00	.15	.300	300.0
BONK102B	63 31 43	146 14 19	Quartz vein	14	1.00	.20	.30	.070	100.0
BONK103A	63 33 15	146 11 0	Quartz monzonite	20	2.00	.30	.50	.300	200.0
BONK103D	63 33 15	146 11 0	Epidote-hornblende-biotite schist	14	2.00	1.50	3.00	.200	300.0
BONK104A	63 34 54	145 32 34	Chlorite-muscovite schist	15	1.50	.30	.05	.100	200.0
BONK105A	63 38 19	145 32 13	Chlorite-muscovite schist	15	<.05	<.02	<.05	.003	<10.0
BONK105B	63 38 19	145 32 13	Quartz vein	15	1.50	.30	<.05	.100	200.0
BONK107A	63 41 33	145 10 56	Quartz-biotite-garnet schist	15	.70	.07	.07	.070	150.0
BONK108A	63 36 42	145 24 44	Quartz-muscovite-garnet schist	15	1.50	.30	.10	.100	150.0
BONK109A	63 35 53	145 26 59	Quartz-plag-biotite-garnet schist	15	2.00	.50	.70	.100	500.0
BONK109B	63 35 53	145 26 59	Quartz vein	15	.07	<.02	.05	.005	70.0
BONK110A	63 36 19	145 26 12	Quartz-mica-garnet schist	15	1.50	.10	<.05	.100	300.0
BONK111B	63 33 51	145 29 30	Quartz vein	15	1.00	.15	<.05	.100	150.0
BONK112A	63 31 11	145 34 57	Muscovite-quartz schist	15	.30	.07	.05	.070	70.0
BONK112C	63 31 11	145 34 57	Quartz vein	15	.20	.05	.50	.020	100.0
BONK113A	63 32 55	145 26 49	Quartz-mica-garnet schist	15	1.50	.30	.70	.150	500.0
BONK113B	63 32 55	145 26 49	Muscovite-quartz-plag-garnet schist	15	3.00	1.50	.10	.300	300.0
BONK113E	63 32 55	145 26 49	Quartz vein	15	<.05	<.02	.30	.002	200.0
BONK114A	63 33 42	145 32 10	Muscovite-quartz schist	15	2.00	.70	.05	.200	500.0
BONK114C	63 33 42	145 32 10	Quartz vein	15	1.00	.20	.30	.070	500.0
BONK115A	63 34 21	145 33 45	Muscovite-chlorite schist	15	3.00	1.00	.07	.300	500.0
BONK116B	63 27 31	145 19 4	Quartz-plag-white mica schist	15	1.50	.50	.05	.100	200.0
BONK117A	63 32 13	146 9 54	Metagabbro	20	5.00	3.00	5.00	.500	500.0
BONK117B	63 32 13	146 9 54	Quartz-biotite schist	14	2.00	1.00	.20	.150	200.0
BONK118A	63 31 47	146 5 57	Quartz-biotite schist	12	2.00	.20	.15	.070	500.0
BONK119A	63 36 17	146 0 38	Tertiary sandstone	21	2.00	.50	.10	.300	300.0
BONK120A	63 37 53	146 0 56	Quartz-chlorite-muscovite schist	15	1.50	.20	.07	.070	200.0
BONK124B	63 25 13	145 31 2	Quartz-chlorite-muscovite schist	15	3.00	1.50	1.00	.700	500.0
BONK125C	63 25 48	145 28 36	Quartz vein	15	.30	.02	.05	.015	100.0
BONK126C	63 28 40	145 28 10	Quartz vein	15	.70	.07	.07	.050	100.0
BONK129A	63 29 44	145 45 38	Metagabbro	20	1.50	2.00	2.00	.070	300.0

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	E-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
80NK085B	5	7	20	<10	20	N	N	N	N	N	N	N	<5	30
80NK086A	25	20	25	30	60	N	.5	N	N	N	N	N	20	150
80NK087A	10	10	20	10	65	<200	N	N	N	N	N	N	30	300
80NK089A	30	20	15	20	75	<200	N	N	N	N	N	N	15	150
80NK089B	N	<5	5	<10	<5	N	N	N	N	N	N	N	N	10
80NK090A	<5	N	15	<10	20	N	N	N	N	N	N	N	7	70
80NK091A	5	5	30	10	25	N	N	N	N	N	N	N	5	50
80NK092A	<5	<5	10	N	15	N	N	N	N	N	N	N	5	30
80NK093A	15	15	15	<10	60	N	N	N	N	N	N	N	10	100
80NK093B	5	5	<5	<10	<5	N	N	N	N	N	N	N	N	<10
80NK094A	<5	<5	15	10	50	N	N	N	N	N	10	N	20	100
80NK095A	<5	<5	15	15	40	N	N	N	N	N	N	N	10	100
80NK100A	<5	N	15	10	40	N	N	N	N	N	N	N	7	50
80NK101A	15	15	35	10	80	<200	N	N	N	N	N	N	30	200
80NK102A	40	30	20	10	110	<200	N	N	N	N	N	N	30	200
80NK102B	15	5	10	<10	35	N	N	N	N	N	N	N	5	50
80NK103A	300	200	15	30	60	N	.5	N	N	N	N	N	15	70
80NK103D	100	100	30	10	45	<200	<.5	N	N	N	N	N	30	200
80NK104A	15	15	15	10	45	N	N	N	N	N	N	N	7	70
80NK105A	15	<5	15	N	55	N	N	N	N	N	N	N	N	15
80NK105B	<5	10	<5	<10	<5	N	N	N	N	N	N	N	7	50
80NK107A	5	<5	5	N	10	N	N	N	N	N	N	N	5	20
80NK108A	10	7	10	<10	20	N	N	N	N	N	N	N	7	70
80NK109A	<5	N	10	10	50	N	N	N	N	N	N	N	5	70
80NK109B	<5	<5	<5	N	<5	N	N	N	N	N	N	N	N	<10
80NK110A	10	10	5	<10	85	N	N	N	N	N	N	N	5	50
80NK111B	<5	<5	10	<10	30	N	N	N	N	N	N	N	7	20
80NK112A	<5	<5	5	N	15	N	N	N	N	N	N	N	N	15
80NK112C	<5	<5	5	N	10	N	N	N	N	N	N	N	N	10
80NK113A	<5	5	30	20	25	N	N	N	N	N	N	N	7	70
80NK113B	50	70	25	30	95	<200	N	N	N	N	N	N	30	150
80NK113E	<5	<5	35	<10	<5	N	N	N	N	N	N	N	N	10
80NK114A	50	50	15	20	65	<200	N	N	N	N	N	N	20	100
80NK114C	10	7	10	N	10	N	N	N	N	N	N	N	5	30
80NK115A	45	30	15	15	85	<200	N	N	N	N	N	N	20	100
80NK116B	50	50	15	10	60	N	N	N	N	N	N	N	10	70
80NK117A	100	70	15	<10	30	N	N	N	N	N	N	N	70	300
80NK117B	5	5	15	10	85	<200	<.5	N	N	N	N	N	10	200
80NK118A	5	7	10	10	30	<200	N	N	20	N	N	N	<5	<10
80NK119A	10	50	10	<10	20	<200	.7	N	7	N	N	N	30	200
80NK120A	5	15	15	10	30	N	N	N	N	N	N	N	7	70
80NK124B	15	15	20	20	100	<200	N	N	N	N	N	N	30	150
80NK125C	<5	<5	<5	N	10	N	N	N	N	N	N	N	5	10
80NK126C	20	7	<5	N	15	N	N	N	N	N	N	N	5	20
80NK129A	55	30	25	10	65	N	N	N	N	N	N	N	20	70

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
BONK085B	10	5	N	15	150	N	N	N	N	N	N	300	10	70	N
BONK086A	20	5	N	30	1,500	2.0	N	N	70	<20	30	500	50	150	N
BONK087A	30	20	N	<10	500	2.0	N	N	50	20	50	700	30	100	N
BONK089A	100	30	N	20	700	1.5	N	N	20	<20	20	300	30	100	N
BONK089B	N	5	N	N	20	<1.0	N	N	N	N	N	N	N	N	N
BONK090A	50	20	N	15	500	1.0	N	N	50	N	15	100	20	150	N
BONK091A	20	7	N	20	700	1.5	N	N	30	N	10	200	15	50	N
BONK092A	20	15	N	15	300	1.0	N	N	30	N	7	N	15	200	N
BONK093A	70	30	N	30	1,500	2.0	N	N	50	N	20	N	20	150	N
BONK093B	N	5	N	N	70	<1.0	N	N	N	N	N	N	N	N	N
BONK094A	50	30	N	20	1,000	1.5	N	N	50	<20	15	N	30	150	N
BONK095A	30	10	N	10	700	1.5	N	N	300	<20	15	300	30	100	<100
BONK100A	30	15	N	15	300	1.0	N	N	30	N	10	<100	15	150	N
BONK101A	500	70	N	20	100	<1.0	N	N	70	50	30	500	50	150	N
BONK102A	100	50	N	70	1,500	1.0	N	N	50	N	30	100	50	100	N
BONK102B	30	10	N	30	300	1.5	N	N	N	N	5	150	N	20	N
BONK103A	10	5	N	15	3,000	1.0	N	N	30	<20	15	500	30	300	<100
BONK103D	150	50	N	30	700	1.0	N	N	50	N	30	700	30	100	N
BONK104A	50	10	N	30	200	1.0	N	N	20	N	10	<100	20	200	N
BONK105A	<10	5	N	N	N	<1.0	N	N	N	N	N	N	N	N	N
BONK105B	30	7	N	20	150	1.0	N	N	20	N	10	N	20	150	N
BONK107A	15	5	N	15	300	<1.0	N	N	N	N	5	<100	10	150	N
BONK108A	50	30	N	20	1,000	1.5	N	N	30	N	10	<100	15	150	N
BONK109A	50	5	N	10	300	1.5	N	N	70	<20	20	100	50	150	N
BONK109B	10	5	N	N	20	<1.0	N	N	N	N	N	N	N	10	N
BONK110A	30	15	N	20	300	1.0	N	N	30	<20	10	<100	15	150	N
BONK111B	10	15	N	15	100	<1.0	N	N	N	N	5	N	N	50	N
BONK112A	10	7	N	15	150	<1.0	N	N	20	N	<5	N	N	100	N
BONK112C	10	5	N	N	70	<1.0	N	N	N	N	N	<100	N	50	N
BONK113A	50	20	N	20	500	1.5	N	N	70	N	15	200	20	200	N
BONK113B	150	50	N	30	1,500	2.0	N	N	100	<20	30	300	30	70	N
BONK113E	N	5	N	N	<20	<1.0	N	N	N	N	N	N	N	N	N
BONK114A	100	30	N	30	500	1.5	20	N	70	<20	15	100	20	150	N
BONK114C	20	5	N	20	150	1.0	N	N	20	N	7	100	15	150	N
BONK115A	100	50	N	30	1,000	2.0	N	N	70	<20	20	100	30	150	N
BONK116B	30	30	N	30	500	1.5	N	N	50	N	15	N	20	100	N
BONK117A	300	150	N	<10	50	<1.0	N	N	20	N	50	300	30	70	N
BONK117B	100	5	N	70	1,500	1.5	N	N	30	N	30	200	30	150	N
BONK118A	N	5	N	10	200	3.0	N	N	100	70	N	150	70	500	N
BONK119A	150	70	N	50	1,500	1.5	N	N	50	<20	30	<100	30	150	N
BONK120A	30	15	N	20	300	1.0	N	N	70	N	10	<100	20	200	<100
BONK124B	200	70	N	15	70	<1.0	N	N	<20	N	30	100	20	100	N
BONK125C	15	5	N	15	100	<1.0	N	N	N	N	N	N	<10	70	N
BONK126C	15	7	N	15	150	<1.0	N	N	<20	N	N	N	N	15	N
BONK129A	300	200	N	<10	200	1.0	N	N	N	N	15	300	10	30	N

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
80NK129B	63 29 44	145 45 38	Quartz vein	15	.10	.10	.20	.005	70.0
80NK131A	63 30 3	145 59 42	Carbonate-chlorite schist	15	1.50	.15	.15	.200	100.0
80NK132A	63 27 44	145 56 33	Quartz monzonite	20	2.00	2.00	3.00	.200	500.0
80NK133A	63 30 30	145 49 0	Metadiabase	20	3.00	2.00	1.50	.500	500.0
80NK133B	63 30 30	145 49 0	Quartz vein	20	<.05	<.02	<.05	.003	10.0
80NK134A	63 34 45	145 43 0	Muscovite-quartz schist	15	1.50	.20	.20	.100	150.0
80NK134B	63 34 45	145 43 0	Quartz vein	15	1.00	.10	.10	.070	100.0
80NK135A	63 32 18	145 36 55	Chlorite-muscovite schist	15	.70	.20	.50	.070	500.0
80NK135B	63 32 18	145 36 55	Carbonate-chlorite schist	15	5.00	3.00	1.50	>1.000	700.0
80NK135C	63 32 18	145 36 55	Quartz vein	15	.10	.05	.05	.010	100.0
80NK136C	63 30 16	145 39 32	Quartz vein	15	.20	<.02	<.05	.015	70.0
80NK137B	63 25 25	145 48 14	Calcareous phyllite	12	3.00	1.50	3.00	.200	700.0
80NK138A	63 30 30	145 50 40	Fe-stained metagabbro	20	2.00	.10	<.05	.500	20.0
80NK139A	63 44 0	145 24 27	Quartz monzonite	20	1.50	.30	.50	.100	200.0
80NK140A	63 34 7	145 27 20	Quartz-biotite-garnet schist	15	1.50	.20	.05	.070	100.0
80NK140D	63 34 7	145 27 20	Lamprophyre dike	20	5.00	2.00	3.00	.300	500.0
80NK141C	63 34 37	145 29 45	Quartz vein	15	.50	.07	.10	.050	50.0
80RM004C	63 42 26	146 58 18	Composite quartz vein	13	.05	<.02	.20	.003	50.0
80RM004D	63 42 26	146 58 18	Metaquartz andesite	13	1.50	.15	.15	.070	70.0
80RM005A	63 42 44	146 58 54	Quartz-carbonate-chlorite schist	13	1.50	.30	.70	.050	200.0
80RM006A	63 42 14	146 47 51	Schistose metaandesite	13	5.00	1.50	2.00	.700	300.0
80RM006C	63 42 14	146 47 51	Quartz-white mica-graphite schist	13	.70	.07	<.05	.030	50.0
80RM006D	63 42 14	146 47 51	Composite quartz vein	13	.30	.07	.05	.030	70.0
80RM007A	63 43 4	146 48 32	Carbonate-altered dike	20	2.00	2.00	2.00	.100	500.0
80RM007B	63 43 4	146 48 32	Altered quartz-chlorite schist	15	2.00	.30	<.05	.100	100.0
80RM007C	63 43 4	146 48 32	Quartz vein	15	.20	<.02	.05	.007	70.0
80RM008A	63 43 21	146 48 30	Quartz vein	15	<.05	.02	.15	<.002	30.0
80RM009A	63 34 32	145 3 10	Dacite	20	1.50	.30	.20	.150	150.0
80RM009B	63 34 32	145 3 10	Porphyritic quartz monzonite	20	1.50	.30	.15	.100	100.0
80RM009C	63 34 32	145 3 10	Gabbro dike	20	3.00	1.50	3.00	.700	500.0
80RM010B	63 34 48	145 3 13	Quartz vein	20	<.05	<.02	<.05	.010	10.0
80RM010C	63 34 48	145 3 13	Aplite dike	20	.70	.10	.30	.020	150.0
80RM010E	63 34 48	145 3 13	Quartz vein	20	.05	.10	.15	<.002	50.0
80RM010F	63 34 48	145 3 13	Mineralized gneiss	15	2.00	.15	.05	.100	150.0
80ZN001B	63 37 29	145 33 0	Quartz vein	15	.10	<.02	<.05	.010	20.0
80ZN002A	63 39 21	145 31 12	Muscovite-quartz-plag schist	15	.70	.07	<.05	.070	100.0
80ZN009C	63 42 30	145 22 12	Gabbro dike	20	.70	.05	<.05	.070	10.0
80ZN013A	63 36 46	146 10 42	Metagabbro	20	7.00	.50	2.00	>1.000	500.0
80ZN014B	63 36 27	146 9 19	Tertiary siltstone	21	.30	.07	<.05	.015	70.0
80ZN015B	63 36 51	146 8 8	Metagabbro	20	10.00	1.00	5.00	.030	5,000.0
80ZN017A	63 28 33	145 55 18	Fe-stained schist	12	3.00	.30	5.00	>1.000	300.0
80ZN021B	63 41 21	145 14 35	Quartz vein	15	.05	<.02	.05	.007	30.0
80ZN024A	63 28 18	145 55 24	Metabasalt	12	3.00	.50	1.00	.500	500.0
80ZN026B	63 27 35	145 55 18	Stained quartz diorite	20	3.00	1.00	.20	.100	300.0
80ZN028A	63 27 41	145 53 29	Chlorite-calcite blastomylonite	12	7.00	1.50	1.50	1.000	500.0

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
80NK129B	<5	<5	<5	N	<5	N	N	N	N	N	N	N	N	<10
80NK131A	<5	5	<5	N	25	N	N	N	<5	N	N	N	7	70
80NK132A	20	20	15	30	55	N	<.5	N	N	N	N	N	30	200
80NK133A	170	100	15	<10	50	N	<.5	N	N	N	N	N	50	200
80NK133B	<5	<5	N	N	N	N	N	N	N	N	N	N	N	10
80NK134A	<5	<5	<5	<10	15	N	N	N	N	N	N	N	5	50
80NK134B	<5	<5	5	N	10	N	<.5	N	N	N	N	N	5	20
80NK135A	<5	N	5	N	20	N	N	N	N	N	N	N	5	30
80NK135B	<5	N	35	30	55	N	N	N	N	N	N	N	50	500
80NK135C	N	<5	<5	N	<5	N	N	N	N	N	N	N	N	10
80NK136C	<5	<5	<5	N	5	N	N	N	N	N	N	N	5	15
80NK137B	10	10	20	<10	160	<200	N	N	N	N	N	N	10	150
80NK138A	40	30	30	20	5	N	.5	300	N	N	N	200	5	200
80NK139A	<5	<5	10	10	20	N	N	N	N	N	N	N	7	100
80NK140A	25	20	10	N	25	N	N	N	N	N	N	N	5	70
80NK140D	80	70	20	10	50	N	N	N	N	N	N	N	30	200
80NK141C	N	<5	5	N	5	N	N	N	N	N	N	N	N	20
80RM004C	<5	<5	5	N	<5	N	N	N	N	N	N	N	5	10
80RM004D	<5	<5	20	10	5	N	N	N	N	N	N	N	5	100
80RM005A	5	<5	20	<10	25	N	N	N	N	N	N	N	5	<10
80RM006A	35	50	15	<10	15	N	1.5	N	N	N	N	N	30	200
80RM006C	70	30	25	20	400	300	1.5	N	10	N	N	N	5	150
80RM006D	10	5	25	N	15	N	N	N	N	N	N	N	N	15
80RM007A	20	10	55	15	75	N	N	N	N	N	N	N	30	200
80RM007B	30	20	20	10	70	<200	N	N	N	N	N	N	7	100
80RM007C	<5	<5	5	N	<5	N	<.5	<200	N	N	N	N	N	10
80RM008A	<5	<5	5	<10	<5	N	N	N	N	N	N	N	N	10
80RM009A	35	15	25	20	40	N	N	N	N	N	20	N	10	150
80RM009B	20	7	30	30	40	N	<.5	N	N	N	N	N	7	100
80RM009C	15	10	20	10	95	N	N	N	N	N	N	N	30	150
80RM010B	<5	<5	10	N	<5	N	N	<200	N	N	N	N	5	10
80RM010C	5	7	30	50	5	N	N	<200	N	N	N	N	5	<10
80RM010E	<5	<5	5	N	<5	N	N	<200	N	N	N	N	N	<10
80RM010F	200	100	30	20	30	N	.5	N	5	<50	N	N	30	100
80ZN001B	<5	<5	<5	N	5	N	N	N	N	N	N	N	N	10
80ZN002A	40	20	350	100	25	N	<.5	N	N	N	N	N	5	100
80ZN009C	20	<5	10	N	15	N	N	N	10	N	N	N	<5	150
80ZN013A	55,000	>20,000	25	20	120	<200	7.0	N	7	N	N	N	50	100
80ZN014B	<5	<5	<5	N	<5	N	N	<200	N	N	N	N	5	15
80ZN015B	250	150	10	<10	10	N	N	N	N	N	30	N	20	15
80ZN017A	20	30	20	<10	120	<200	N	N	N	N	N	N	30	200
80ZN021B	10	5	<5	N	<5	N	N	<200	N	N	N	N	N	15
80ZN024A	<5	7	15	10	120	<200	N	N	<5	N	N	N	7	50
80ZN026B	1,700	1,000	25	50	30	N	2.0	N	5	N	N	N	20	100
80ZN028A	25	30	25	<10	70	<200	N	N	N	N	N	N	30	200

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
BONK129B	10	5	N	10	<20	<1.0	N	N	N	N	N	N	N	N	N
BONK131A	N	5	N	10	150	1.0	N	N	70	30	15	300	30	150	N
BONK132A	50	15	N	15	1,500	1.5	N	N	50	N	50	1,000	30	30	N
BONK133A	500	70	N	<10	150	<1.0	N	N	20	N	70	100	30	70	N
BONK133B	<10	5	N	N	<20	<1.0	N	N	N	N	N	N	N	<10	N
BONK134A	10	5	N	15	300	1.5	N	N	30	N	20	150	30	150	N
BONK134B	N	5	N	N	200	1.0	N	N	30	N	10	<100	15	100	N
BONK135A	15	5	N	15	200	<1.0	N	N	20	N	<5	N	N	300	N
BONK135B	300	200	N	<10	70	<1.0	N	N	20	<20	70	200	30	150	N
BONK135C	<10	5	N	N	20	<1.0	N	N	N	N	N	N	N	15	N
BONK136C	<10	5	N	N	30	N	N	N	N	N	N	N	N	10	N
BONK137B	70	15	N	50	500	1.0	N	N	N	N	20	300	20	70	N
BONK138A	300	7	N	300	200	<1.0	N	N	<20	N	20	<100	50	70	N
BONK139A	15	5	N	10	500	1.0	N	N	20	N	10	200	15	70	N
BONK140A	20	5	N	20	200	1.0	N	N	N	N	10	N	N	150	N
BONK140D	500	100	N	<10	700	1.0	N	N	<20	N	30	500	15	100	N
BONK141C	10	5	N	N	150	1.0	N	N	<20	N	5	N	N	70	N
BORM004C	<10	5	N	N	<20	<1.0	N	N	N	N	N	N	N	<10	N
BORM004D	15	5	N	20	5,000	1.0	N	N	70	<20	15	150	20	100	N
BORM005A	N	<5	N	15	300	1.0	N	N	50	N	10	<100	20	100	N
BORM006A	15	5	N	<10	300	<1.0	N	N	30	<20	50	200	50	150	N
BORM006C	20	20	N	<10	>5,000	1.0	N	N	<20	N	5	200	15	70	N
BORM006D	N	5	N	N	100	<1.0	N	N	N	N	<5	N	N	15	N
BORM007A	700	50	N	<10	500	1.0	N	N	50	N	50	500	20	70	N
BORM007B	70	15	N	20	300	1.5	N	N	70	<20	20	N	20	100	N
BORM007C	N	5	N	N	20	<1.0	N	N	N	N	N	N	N	<10	N
BORM008A	N	5	N	N	<20	<1.0	N	N	N	N	N	N	N	10	N
BORM009A	50	20	N	20	700	2.0	N	N	70	<20	10	500	20	150	N
BORM009B	70	20	N	30	500	2.0	N	N	50	<20	10	300	15	200	N
BORM009C	70	20	N	10	700	1.5	N	N	30	<20	30	700	30	150	N
BORM010B	N	5	N	30	50	<1.0	N	N	N	N	N	N	N	15	N
BORM010C	N	5	N	30	200	3.0	N	N	50	50	5	<100	100	70	<100
BORM010E	N	5	N	N	<20	<1.0	N	N	N	N	N	N	N	N	N
BORM010F	100	70	N	50	700	2.0	N	N	70	N	20	<100	20	70	N
BOZN001B	<10	5	N	N	30	<1.0	N	N	N	N	N	N	N	10	N
BOZN002A	30	7	N	15	1,000	1.0	N	N	50	N	10	N	20	70	N
BOZN009C	30	10	N	<10	500	<1.0	N	N	20	N	10	N	10	100	N
BOZN013A	N	15	N	<10	500	1.0	30	N	30	30	50	150	70	100	N
BOZN014B	<10	5	N	N	20	<1.0	N	N	N	N	N	N	N	15	N
BOZN015B	15	20	N	<10	50	3.0	N	N	<20	N	N	100	<10	50	N
BOZN017A	10	20	N	20	300	1.5	N	N	50	20	30	300	50	150	N
BOZN021B	<10	5	N	N	<20	<1.0	N	N	N	N	N	N	N	<10	N
BOZN024A	<10	<5	N	<10	500	2.0	N	N	100	70	15	700	70	200	N
BOZN026B	50	30	N	20	1,500	1.0	N	N	70	<20	20	300	20	100	N
BOZN028A	10	10	N	<10	500	1.5	N	N	70	30	50	500	50	100	N

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
80ZN029A	63 28 53	145 54 23	Amphibolite	15	7.00	1.50	2.00	>1.000	500.0
80ZN029B	63 28 53	145 54 23	Fe-stained gabbro	20	5.00	.30	.20	.700	300.0
81IL001A	63 56 49	144 19 5	Porphyritic quartz monzonite	20	2.00	.20	2.00	.200	500.0
81IL002A	63 56 21	144 20 29	Quartz monzonite	20	3.00	.50	2.00	.300	700.0
81IL003A	63 54 27	144 23 2	Quartz-white mica-biotite schist	19	7.00	2.00	.50	.500	700.0
81IL004A	63 54 9	144 19 17	White-mica quartzite	19	1.00	.20	1.00	.200	700.0
81IL005A	63 36 55	145 13 25	Quartz-mica-carbonate schist	15	3.00	5.00	7.00	.500	1,000.0
81IL005B	63 36 55	145 13 25	Quartz-white mica-chlorite schist	15	2.00	.30	2.00	.500	700.0
81IL005C	63 36 55	145 13 25	Rhyolite dike	20	.70	.30	.50	.100	500.0
81IL008A	63 37 29	145 12 14	Quartz-epidote schist with m.s.	15	20.00	.30	5.00	.300	1,500.0
81IL009A	63 38 14	145 10 49	Quartz monzonite	20	5.00	2.00	2.00	.500	1,000.0
81IL015A	63 39 47	145 5 15	Gabbro dike	20	10.00	3.00	5.00	1.000	2,000.0
81IL016A	63 36 12	145 8 30	Quartz-mica-garnet schist	15	10.00	3.00	5.00	1.000	5,000.0
81IL016C	63 36 12	145 8 30	Quartz-white mica-chlorite schist	15	1.00	.30	1.00	.200	700.0
81IL016E	63 36 12	145 8 30	Quartz vein	15	1.00	.30	.10	.050	200.0
81IL017B	63 36 17	145 7 18	Amphibolite	15	10.00	10.00	5.00	1.000	2,000.0
81IL019C	63 36 27	145 6 44	Quartz-plagioclase-mica schist	15	2.00	.50	.30	.200	300.0
81IL026A	63 31 12	144 32 36	Schistose quartz monzonite	20	3.00	.70	2.00	.200	700.0
81IL028A	63 34 57	144 26 8	Schistose diorite	20	10.00	10.00	5.00	1.000	2,000.0
81IL029A	63 35 42	144 23 28	Quartz monzonite	20	3.00	1.00	1.00	.300	700.0
81IL030A	63 36 55	144 35 30	Schistose quartz monzonite	20	3.00	.50	2.00	.300	1,000.0
81IL030B	63 36 55	144 35 30	Schistose quartz diorite	20	7.00	5.00	7.00	.500	1,500.0
81IL030C	63 36 55	144 35 30	Schistose quartz monzonite	20	5.00	1.00	2.00	.300	1,000.0
81IL033A	63 38 9	144 34 25	Schistose quartz monzonite	20	2.00	.50	1.00	.200	700.0
81IL034A	63 36 48	144 33 22	Schistose granodiorite	20	7.00	5.00	5.00	1.000	2,000.0
81IL035A	63 35 52	144 34 29	Quartz-biotite schist	18	7.00	2.00	1.00	.500	1,500.0
81IL036A	63 34 11	144 24 44	Schistose quartz monzonite	20	5.00	.70	2.00	.300	700.0
81IL036B	63 34 11	144 24 44	Porphyritic granodiorite	20	5.00	1.00	2.00	.200	500.0
81IL036C	63 34 11	144 24 44	Quartz monzonite	20	1.00	.10	.50	.050	500.0
81IL037A	63 34 28	144 24 10	Quartz monzonite	20	1.00	.15	.30	.050	700.0
81IL037B	63 34 28	144 24 10	Quartz monzonite	20	3.00	.50	1.00	.200	700.0
81IL038A	63 34 25	144 23 9	Schistose quartz monzonite	20	5.00	1.00	2.00	.500	700.0
81IL039B	63 34 29	144 22 42	Rhyodacite porphyry	20	3.00	.70	.70	.300	700.0
81IL040A	63 34 46	144 20 59	Quartz monzonite	20	3.00	1.00	2.00	.300	1,000.0
81IL042A	63 33 57	144 23 14	Quartz monzonite	20	.70	.10	.50	.070	700.0
81IL045A	63 30 20	144 42 10	Schistose quartz monzonite	20	2.00	.30	1.00	.300	700.0
81IL045B	63 30 20	144 42 10	Schistose quartz diorite	20	1.00	.30	1.00	.300	700.0
81IL045C	63 30 20	144 42 10	Schistose quartz diorite	20	5.00	.70	2.00	.500	1,000.0
81IL046C	63 30 16	144 42 36	Porphyritic granodiorite dike	20	7.00	2.00	3.00	.500	1,000.0
81IL048C	63 30 23	144 43 37	Quartz-muscovite-andalusite schist	18	2.00	.70	.20	.300	500.0
81IL050B	63 30 44	144 45 36	Amphibolite	18	7.00	10.00	10.00	1.000	1,500.0
81IL052B	63 26 32	144 38 5	Carbonate-altered lamprophyre	20	20.00	.50	20.00	.300	5,000.0
81IL052C	63 26 32	144 38 5	Quartz-plag-chlorite-garnet schist	15	5.00	.20	1.00	.300	500.0
81IL053A	63 26 40	144 38 9	Quartz-white mica schist	15	2.00	.50	.20	.500	500.0
81IL054B	63 27 6	144 38 24	Quartz-biotite-chlorite schist	15	5.00	.50	2.00	>1.000	200.0

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
80ZN029A	250	500	15	<10	65	<200	N	N	N	N	N	N	50	200
80ZN029B	750	700	15	<10	85	N	<.5	N	N	N	N	N	30	100
81IL001A	N	<5	5	50	30	N	N	N	N	N	N	N	5	20
81IL002A	N	<5	5	30	40	N	N	N	N	N	N	N	5	100
81IL003A	25	50	15	70	40	N	N	N	N	N	N	N	20	200
81IL004A	<5	10	10	30	15	N	N	N	N	N	N	N	10	50
81IL005A	N	<5	35	70	85	200	N	N	N	N	N	N	50	150
81IL005B	10	30	20	30	45	N	N	N	N	N	N	N	30	70
81IL005C	5	5	100	150	100	<200	N	N	N	N	30	N	N	10
81IL008A	320	1,500	30	50	30	N	.5	N	N	N	300	N	200	100
81IL009A	45	70	10	70	30	N	N	N	N	N	N	N	20	150
81IL015A	20	70	10	10	90	N	N	N	N	N	N	N	50	200
81IL016A	20	30	15	70	85	200	N	N	N	N	N	N	15	500
81IL016C	5	10	5	N	10	N	N	N	N	N	N	N	5	300
81IL016E	<5	10	<5	N	20	N	N	N	N	N	N	N	5	10
81IL017B	70	100	10	30	40	300	N	N	N	N	N	N	70	700
81IL019C	N	<5	10	N	15	N	N	N	N	N	N	N	10	50
81IL026A	N	<5	10	50	30	N	N	N	N	N	N	N	10	100
81IL028A	5	30	5	30	15	200	N	N	N	N	10	N	70	300
81IL029A	N	<5	10	50	35	N	N	N	N	N	N	N	10	150
81IL030A	5	20	5	30	30	N	N	N	N	N	N	N	10	70
81IL030B	5	15	15	10	30	300	N	N	N	N	N	N	50	300
81IL030C	N	5	5	70	30	N	N	N	N	N	N	N	15	100
81IL033A	N	<5	10	70	30	N	N	N	N	N	N	N	5	50
81IL034A	N	15	10	20	35	300	N	N	N	N	N	N	70	300
81IL035A	<5	15	10	70	30	200	N	N	N	N	N	N	30	200
81IL036A	N	5	5	70	25	N	N	N	N	N	N	N	10	100
81IL036B	N	5	15	30	25	N	N	N	N	N	N	N	10	100
81IL036C	N	<5	10	50	20	N	N	N	N	N	10	N	5	10
81IL037A	N	<5	10	70	20	N	N	N	N	N	10	N	5	10
81IL037B	N	<5	10	70	35	N	N	N	N	N	10	N	10	30
81IL038A	<5	10	10	70	35	N	N	N	N	N	N	N	15	100
81IL039B	<5	10	15	70	30	N	N	N	N	N	N	N	5	70
81IL040A	N	<5	15	50	45	N	N	N	N	N	N	N	10	150
81IL042A	N	<5	10	70	20	N	N	N	N	N	N	N	5	10
81IL045A	10	20	5	30	30	<200	N	N	N	N	N	N	10	50
81IL045B	N	5	<5	10	15	<200	N	N	N	N	N	N	10	50
81IL045C	N	5	5	50	40	<200	N	N	N	N	N	N	20	100
81IL046C	10	30	10	50	50	<200	N	N	10	N	N	N	20	200
81IL048C	15	30	5	30	55	<200	N	N	N	N	N	N	20	100
81IL050B	15	30	15	30	10	<200	N	N	N	N	N	N	70	300
81IL052B	1,000	1,500	10	30	35	200	2.0	N	N	N	70	N	150	100
81IL052C	45	50	5	30	15	N	N	N	N	N	N	N	10	20
81IL053A	15	30	5	30	20	<200	N	N	N	N	N	N	10	100
81IL054B	800	700	<5	70	20	N	1.0	N	N	N	N	N	100	200

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
80ZN029A	N	30	N	<10	100	<1.0	N	N	20	<20	70	300	50	100	N
80ZN029B	N	5	N	<10	150	1.5	N	N	50	20	30	100	70	200	N
81IL001A	N	5	N	<10	1,000	3.0	N	N	20	N	5	500	10	200	N
81IL002A	N	5	N	<10	1,000	1.0	N	N	20	N	10	500	20	150	N
81IL003A	150	50	N	50	700	3.0	N	N	100	<20	30	300	100	300	N
81IL004A	30	30	N	<10	20	2.0	N	N	N	N	5	200	15	300	N
81IL005A	500	100	N	100	1,000	1.0	N	N	20	N	30	700	30	150	N
81IL005B	70	50	N	50	700	1.0	N	N	20	N	15	200	30	200	N
81IL005C	20	5	N	50	300	10.0	N	N	N	30	N	N	100	200	N
81IL008A	150	150	N	<10	70	N	N	N	N	N	15	N	30	100	N
81IL009A	150	50	N	70	1,000	7.0	N	N	100	N	10	700	30	300	N
81IL015A	300	100	N	10	1,000	1.0	N	N	70	20	30	700	100	500	N
81IL016A	N	5	N	10	50	N	N	N	20	N	30	500	70	200	N
81IL016C	150	70	N	30	2,000	2.0	N	N	20	N	10	N	70	100	N
81IL016E	N	10	N	<10	70	N	N	N	N	N	N	N	N	N	N
81IL017B	70	50	N	10	200	1.0	N	N	N	N	50	200	70	200	N
81IL019C	10	5	N	<10	1,500	1.0	N	N	50	N	10	200	50	150	N
81IL026A	20	5	N	<10	1,500	2.0	N	N	30	N	10	500	30	200	N
81IL028A	500	150	N	20	200	2.0	N	N	20	N	30	1,000	70	500	N
81IL029A	150	30	N	20	1,000	1.0	N	N	20	N	15	300	30	150	N
81IL030A	70	10	N	10	1,000	1.0	<10	N	50	N	15	300	50	500	N
81IL030B	150	5	N	10	300	N	N	N	20	N	50	300	30	50	N
81IL030C	30	5	N	10	1,500	5.0	N	N	20	N	15	700	70	70	N
81IL033A	N	5	N	10	1,000	5.0	N	N	20	<20	10	300	50	100	N
81IL034A	200	100	N	10	500	1.0	N	N	100	N	30	500	70	200	N
81IL035A	150	100	N	100	500	5.0	N	N	50	<20	20	500	30	200	N
81IL036A	20	15	N	20	1,000	2.0	N	N	30	<20	15	300	20	70	N
81IL036B	N	10	N	10	500	N	N	N	N	N	15	300	20	70	N
81IL036C	N	10	N	30	1,000	3.0	N	N	N	N	5	300	20	50	N
81IL037A	N	10	N	30	700	7.0	N	N	20	N	5	300	50	100	N
81IL037B	N	10	N	10	1,500	2.0	N	N	100	N	10	500	30	200	N
81IL038A	50	15	N	10	1,000	3.0	N	N	100	<20	20	300	70	300	N
81IL039B	N	5	N	10	2,000	3.0	N	N	N	N	10	700	20	200	N
81IL040A	N	5	N	10	1,000	2.0	N	N	50	N	15	500	30	200	N
81IL042A	N	5	N	10	1,000	7.0	N	N	20	N	5	300	30	70	N
81IL045A	N	5	N	10	1,500	5.0	N	N	150	N	7	500	30	150	N
81IL045B	50	10	N	20	300	1.0	N	N	20	N	10	300	10	500	N
81IL045C	150	70	N	10	1,000	5.0	N	N	50	N	20	300	30	700	N
81IL046C	20	5	N	20	1,500	1.0	N	N	50	N	20	700	30	200	N
81IL048C	70	70	N	70	1,000	2.0	N	N	20	N	10	100	10	150	N
81IL050B	700	100	N	50	300	N	N	N	N	N	30	100	50	200	N
81IL052B	150	100	N	70	150	N	N	N	N	N	10	300	30	100	N
81IL052C	N	5	N	10	500	1.0	N	N	20	N	30	200	50	200	N
81IL053A	70	20	N	100	300	2.0	N	N	20	N	10	N	30	200	N
81IL054B	N	100	N	10	700	N	N	N	50	50	50	200	100	500	N

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
81IL056A	63 22 47	144 42 3	Quartz-rich marble	15	.50	.30	20.00	.100	1,000.0
81IL056B	63 22 47	144 42 3	Quartz-white mica-chlorite schist	15	5.00	.70	1.00	.300	200.0
81IL056C	63 22 57	144 41 6	Quartz-calcite-white mica schist	15	1.00	.30	2.00	.200	500.0
81IL057A	63 23 10	144 38 45	Quartz-white mica-garnet schist	15	2.00	.50	2.00	.200	700.0
81IL058A	63 19 46	144 31 46	Quartz-white mica-chlorite schist	15	3.00	.50	.10	.300	700.0
81IL059A	63 53 52	144 11 34	Schistose quartz diorite	19	10.00	2.00	2.00	1.000	2,000.0
81IL059B	63 53 52	144 11 34	Quartz monzonite porphyry	20	1.00	.20	.05	.150	200.0
81IL059C	63 53 52	144 11 34	Quartz monzonite porphyry	20	1.00	.15	.20	.150	1,500.0
81IL059E	63 53 54	144 11 12	Quartz diorite	20	2.00	.50	10.00	.200	1,000.0
81IL059F	63 53 54	144 11 12	Porphyritic quartz monzonite	20	1.00	.10	1.00	.100	500.0
81IL059G	63 53 54	144 11 12	Granodiorite porphyry	20	1.00	.10	1.00	.200	1,000.0
81IL060A	63 53 58	144 11 0	Granodiorite porphyry	20	5.00	.50	2.00	.300	1,000.0
81IL060B	63 54 1	144 10 48	Quartz diorite porphyry	20	7.00	2.00	2.00	.500	1,000.0
81IL060C	63 54 9	144 10 30	Quartz monzonite	20	2.00	.50	1.00	.300	500.0
81IL061A	63 54 12	144 10 0	Metaquartz monzonite	19	1.00	.20	1.00	.100	200.0
81IL062A	63 55 2	144 8 10	Schistose quartz diorite	19	5.00	1.00	3.00	.500	1,000.0
81IL063B	63 55 8	144 8 27	Leucocratic quartz monzonite	20	2.00	.03	.50	.100	500.0
81IL064A	63 55 58	144 11 18	Quartz monzonite	20	1.00	.20	1.00	.100	700.0
81IL070A	63 28 20	144 17 54	Porphyritic quartz monzonite	20	1.00	.15	.50	.100	700.0
81IL071A	63 28 56	144 15 50	Quartz-plag-mica-andalusite schist	18	2.00	1.00	.30	.300	700.0
81IL072A	63 29 22	144 15 40	Schistose quartz monzonite	20	1.00	.30	1.00	.200	700.0
81IL073A	63 29 57	144 15 27	Schistose quartz monzonite	20	1.00	.50	1.00	.200	700.0
81IL074A	63 29 42	144 16 5	Pyroxenite	20	7.00	>10.00	1.00	.050	1,500.0
81IL074B	63 29 42	144 16 5	Altered pyroxenite	20	7.00	>10.00	.20	.070	1,500.0
81IL076A	63 41 40	145 16 52	Quartz-plag-kspar-mica schist	15	3.00	.50	.50	.300	700.0
81IL080A	63 41 29	145 16 13	Quartz-plag-biotite-garnet schist	15	3.00	.50	.30	.300	700.0
81IL081A	63 41 30	145 15 51	Quartz-plag-biotite-garnet schist	15	3.00	.70	.50	.300	700.0
81IL083A	63 41 53	145 12 40	Quartz-plag-biotite-garnet schist	15	3.00	.70	.30	.300	700.0
81IL084A	63 45 34	144 32 7	Quartz monzonite	20	3.00	.70	2.00	.200	1,000.0
81IL085B	63 45 6	144 30 47	Diorite	20	5.00	2.00	2.00	.500	1,500.0
81IL086B	63 46 30	144 29 41	Quartz-chlorite-epidote schist	19	10.00	.50	1.00	.100	2,000.0
81IL087A	63 46 47	144 29 31	Mica-staurolite-garnet schist	19	5.00	.50	.15	.200	1,500.0
81IL088A	63 22 5	144 23 54	Quartz-white mica-chlorite schist	15	1.50	.15	.50	.200	500.0
81IL090A	63 22 20	144 22 36	Quartz-carbonate-white mica schist	15	1.00	.15	1.50	.200	300.0
81IL093A	63 22 39	144 21 11	Altered lamporphyre	20	5.00	7.00	2.00	.300	1,000.0
81IL094A	63 22 51	144 20 19	Quartz-carbonate-white mica schist	15	3.00	1.00	2.00	.300	700.0
81IL094B	63 22 51	144 20 19	Altered lamprophyre	20	5.00	3.00	3.00	.300	2,000.0
81IL097A	63 22 57	144 19 48	Altered intermediate dike	20	5.00	2.00	3.00	.200	2,000.0
81IL100A	63 21 31	144 22 25	Massive sulfide in schist	15	20.00	.50	2.00	.070	2,000.0
81IL100B	63 21 31	144 19 0	Massive sulfide in schist	15	10.00	.50	.30	.070	1,000.0
81IL100C	63 21 31	144 19 0	Quartz-carbonate-white mica schist	15	1.50	.20	15.00	.100	3,000.0
81IL101A	63 17 3	144 26 46	Quartz-white mica schist	15	5.00	.70	.10	.200	700.0
81IL102A	63 17 16	144 25 14	Monzodiorite	20	5.00	.70	1.00	.500	1,000.0
81IL103A	63 17 21	144 24 50	Quartz vein	15	3.00	.50	.50	.200	1,000.0
81IL104A	63 17 31	144 23 53	Schistose metagabbro	20	7.00	1.50	2.00	.700	2,000.0

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
81IL056A	<5	20	85	150	80	<200	N	N	N	N	N	N	5	20
81IL056B	20	30	5	20	50	<200	N	N	N	N	N	N	20	150
81IL056C	N	5	10	30	10	N	N	N	N	N	N	N	10	70
81IL057A	10	30	<5	20	15	N	N	N	N	N	N	N	15	100
81IL058A	40	50	5	20	25	N	N	N	N	N	N	N	20	100
81IL059A	25	50	15	50	110	N	N	N	N	N	N	N	50	200
81IL059B	<5	5	55	150	30	N	.5	N	N	N	N	N	5	50
81IL059C	<5	5	40	100	60	N	N	N	N	N	N	N	5	50
81IL059E	<5	5	10	N	5	N	N	N	N	N	N	N	5	100
81IL059F	5	10	10	150	15	N	N	N	N	N	N	N	5	20
81IL059G	<5	5	10	30	45	N	N	N	N	N	N	N	5	30
81IL060A	<5	5	15	50	60	N	N	N	N	N	N	N	15	200
81IL060B	15	30	10	50	70	N	N	N	N	N	N	N	50	200
81IL060C	N	<5	5	70	25	N	N	N	N	N	N	N	10	70
81IL061A	<5	7	<5	20	10	N	N	N	N	N	N	N	5	50
81IL062A	<5	10	<5	20	30	N	N	N	N	N	N	N	20	200
81IL063B	<5	<5	<5	70	5	N	N	N	N	N	N	N	5	30
81IL064A	<5	5	<5	30	20	N	N	N	N	N	N	N	5	50
81IL070A	<5	<5	<5	70	15	N	N	N	N	N	N	N	5	30
81IL071A	10	20	10	70	65	N	N	N	N	N	N	N	10	100
81IL072A	N	<5	<5	70	25	N	N	N	N	N	N	N	5	50
81IL073A	N	<5	<5	70	20	N	N	N	N	N	N	N	10	100
81IL074A	<5	5	20	N	25	<200	N	N	N	N	N	N	200	150
81IL074B	<5	5	5	N	10	<200	N	N	N	N	N	N	150	100
81IL076A	<5	5	<5	30	45	N	N	N	N	N	N	N	10	70
81IL080A	<5	20	<5	20	20	N	N	N	N	N	N	N	20	100
81IL081A	<5	10	5	30	30	N	N	N	N	N	N	N	15	100
81IL083A	<5	20	5	50	35	N	N	N	N	N	N	N	15	100
81IL084A	<5	5	5	70	35	N	N	N	N	N	N	N	15	150
81IL085B	10	30	15	70	75	N	N	N	N	N	N	N	20	300
81IL086B	250	200	10	<10	25	N	<.5	N	N	N	30	N	30	50
81IL087A	45	50	10	20	20	N	N	N	N	N	N	N	10	70
81IL088A	5	10	15	30	35	N	N	N	N	N	N	N	5	30
81IL090A	5	7	20	20	35	N	N	N	N	N	N	N	<5	50
81IL093A	60	70	20	15	55	N	N	N	N	N	N	N	50	100
81IL094A	10	15	15	20	35	N	N	N	N	N	N	N	15	100
81IL094B	90	100	30	50	70	N	N	N	N	N	N	N	30	100
81IL097A	25	20	55	50	150	N	N	N	N	N	N	N	20	200
81IL100A	280	500	40	20	100	500	.5	N	N	N	20	N	50	20
81IL100B	340	500	95	50	240	700	1.0	N	N	N	N	N	15	20
81IL100C	35	70	35	30	460	200	N	N	N	N	N	N	N	15
81IL101A	15	30	35	50	65	<200	N	N	N	N	N	N	7	70
81IL102A	10	10	20	20	95	N	N	N	N	N	N	N	15	50
81IL103A	30	15	20	10	45	N	N	N	N	N	N	N	20	50
81IL104A	210	200	10	<10	30	<200	N	N	N	N	N	N	50	300

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
81IL056A	N	5	N	<10	100	N	N	N	N	N	N	1,000	10	30	N
81IL056B	100	50	N	70	1,000	10.0	N	N	50	<20	20	N	30	200	N
81IL056C	50	10	N	70	700	5.0	N	N	50	N	5	200	50	200	N
81IL057A	100	20	N	20	1,000	1.0	N	N	20	N	10	200	20	300	N
81IL058A	100	50	N	50	700	2.0	N	N	50	N	10	N	30	300	N
81IL059A	200	100	N	10	500	2.0	N	N	100	20	30	300	100	500	N
81IL059B	N	5	N	100	500	5.0	N	N	20	N	10	N	30	150	N
81IL059C	N	5	N	50	1,000	5.0	N	N	20	N	10	300	30	150	N
81IL059E	20	5	N	10	700	10.0	N	N	20	N	15	1,500	50	200	N
81IL059F	N	5	N	20	1,000	3.0	N	N	20	N	10	300	100	150	N
81IL059Q	N	5	N	70	1,500	5.0	N	N	150	N	10	300	70	300	N
81IL060A	N	5	N	10	2,000	5.0	N	N	50	N	10	700	30	150	N
81IL060B	200	70	N	10	1,000	3.0	N	N	50	N	20	300	30	500	N
81IL060C	N	5	N	<10	2,000	5.0	N	N	100	N	10	500	20	500	N
81IL061A	N	5	N	<10	700	5.0	N	N	50	N	5	300	30	200	N
81IL062A	150	20	N	<10	500	2.0	N	N	50	N	30	300	70	200	N
81IL063B	N	5	N	10	700	5.0	N	N	N	N	N	300	30	50	N
81IL064A	N	5	N	<10	500	5.0	N	N	20	N	5	300	30	150	N
81IL070A	N	5	N	20	500	7.0	N	N	N	N	N	300	10	70	N
81IL071A	150	15	N	20	1,000	2.0	N	N	100	N	20	200	30	500	N
81IL072A	N	5	N	10	1,000	2.0	N	N	100	30	10	100	20	200	N
81IL073A	N	5	N	10	1,000	2.0	N	N	100	N	10	300	20	200	N
81IL074A	>5,000	1,500	N	50	20	N	N	N	N	N	20	N	N	N	N
81IL074B	>5,000	1,500	N	20	20	N	N	N	N	N	15	N	N	N	N
81IL076A	70	15	N	<10	1,000	1.0	N	N	150	N	15	200	50	300	N
81IL080A	70	70	N	20	700	2.0	N	N	100	N	15	200	30	500	N
81IL081A	100	20	N	20	1,000	3.0	N	N	20	N	15	300	30	500	N
81IL083A	70	20	N	10	1,000	3.0	N	N	50	N	15	300	30	500	N
81IL084A	50	10	N	10	2,000	2.0	N	N	20	N	15	500	20	200	N
81IL085B	50	10	N	<10	1,000	1.0	N	N	N	N	20	300	30	70	N
81IL086B	30	20	N	<10	<20	N	N	N	30	N	5	200	15	100	N
81IL087A	70	20	N	10	500	1.5	N	N	50	N	10	200	20	100	N
81IL088A	30	10	N	15	150	<1.0	N	N	50	N	5	<100	10	150	N
81IL090A	20	10	N	70	200	1.5	N	N	N	N	5	<100	10	200	N
81IL093A	700	700	N	50	700	1.5	N	N	N	N	20	500	20	70	N
81IL094A	70	50	N	50	700	2.0	N	N	50	N	15	100	30	150	N
81IL094B	500	300	N	15	700	2.0	N	N	<20	N	20	700	20	100	N
81IL097A	300	50	N	100	200	2.0	N	N	N	N	20	300	20	70	N
81IL100A	<10	30	N	N	200	1.0	15	N	20	N	5	200	15	70	N
81IL100B	10	15	N	N	100	<1.0	<10	N	N	N	5	N	15	100	N
81IL100C	20	<5	N	<10	50	N	N	N	N	N	5	700	15	100	N
81IL101A	50	15	N	70	500	1.5	N	N	50	N	10	N	20	150	N
81IL102A	15	<5	N	20	1,000	3.0	N	N	70	<20	10	500	50	200	N
81IL103A	50	30	N	50	300	1.0	N	N	30	N	7	100	20	200	N
81IL104A	N	10	N	<10	500	1.0	N	N	N	N	30	200	50	200	N

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
81IL104B	63 17 31	144 23 53	Actinolite-quartz-epidote schist	15	5.00	3.00	5.00	.500	2,000.0
81IL107A	63 18 50	144 18 42	Kspar-rich lamprophyre	20	5.00	5.00	2.00	.500	1,500.0
81IL107B	63 18 50	144 18 42	Quartz-white mica schist	15	3.00	.30	.70	.150	300.0
81IL108A	63 20 56	144 41 12	Quartz-white mica-chlorite schist	15	2.00	.70	.20	.300	500.0
81IL109A	63 20 46	144 41 36	Carbonate-altered lamprophyre	20	5.00	7.00	1.50	.200	1,000.0
81IL109B	63 20 46	144 41 36	Carbonate-altered lamprophyre	20	2.00	2.00	1.00	.150	700.0
81IL110A	63 21 10	144 40 0	Quartz-rich marble	15	.70	.50	20.00	.050	3,000.0
81IL111B	63 21 52	144 38 55	Quartz-biotite-chlorite schist	15	1.00	.20	.50	.100	300.0
81IL112C	63 23 22	144 34 26	Hornblendite with massive sulfide	20	20.00	.30	5.00	.050	1,500.0
81IL113B	63 46 26	144 29 39	Quartz-white mica-biotite schist	19	1.00	.15	.20	.200	200.0
81IL115A	63 46 42	144 29 38	Quartzite	19	1.50	.20	.20	.150	700.0
81IL115B	63 46 42	144 29 38	Schistose amphibolite	19	7.00	3.00	3.00	1.000	2,000.0
81IL115C	63 46 42	144 29 38	Quartz-white mica-biotite schist	19	3.00	.70	.20	.300	300.0
81IL120B	63 12 16	144 13 30	Quartz-white mica schist	15	.50	.10	.10	.070	200.0
81IL122A	63 15 45	144 0 54	Actinolite metagabbro	20	10.00	5.00	3.00	1.000	1,500.0
81IL123A	63 16 11	144 1 36	Altered intermediate dike	20	7.00	3.00	2.00	.500	1,500.0
81IL123C	63 16 11	144 1 36	Quartz-chlorite-carbonate schist	15	5.00	1.00	.50	.700	700.0
81IL124A	63 16 11	144 1 23	Quartz vein	15	1.00	.30	.70	.150	500.0
81IL124B	63 16 11	144 1 23	Quartz-carbonate-white mica schist	15	3.00	1.00	.50	.200	700.0
81IL125A	63 15 53	144 2 18	Quartz-white mica schist	15	5.00	1.00	.70	.300	2,000.0
81IL125B	63 15 53	144 2 18	Quartz-white mica schist	15	2.00	.50	.07	.300	300.0
81IL125C	63 15 53	144 2 18	Lamprophyre	20	5.00	5.00	5.00	.300	1,000.0
81IL126A	63 15 44	144 2 2	Quartz-white mica schist	15	7.00	1.50	.05	.300	3,000.0
81IL126B	63 15 44	144 2 2	Quartz-carbonate-white mica schist	15	5.00	2.00	.20	.200	1,500.0
81IL126C	63 15 44	144 2 2	Massive sulfide in schist	15	20.00	.30	2.00	.010	150.0
81IL126D	63 15 44	144 2 2	Quartz-white mica schist	15	.70	.10	<.05	.150	20.0
81IL126E	63 15 44	144 2 2	Quartz-white mica schist	15	5.00	.50	<.05	.300	500.0
81IL126F	63 15 44	144 2 2	Gossan breccia	15	10.00	.10	.05	.100	150.0
81IL126H	63 15 44	144 2 2	Schistose metagabbro	20	5.00	3.00	3.00	.500	1,500.0
81IL127A	63 15 42	144 2 38	Quartz-carbonate-white mica schist	15	1.00	.70	2.00	.100	2,000.0
81IL127B	63 15 42	144 2 38	Quartz-white mica schist	15	1.00	.30	<.05	.200	50.0
81IL128A	63 15 41	144 3 13	Quartz-rich pebbly phyllite	15	2.00	.50	.07	.300	200.0
81IL129A	63 16 3	144 2 56	Actinolite-quartz-epidote schist	15	5.00	5.00	5.00	.300	1,500.0
81IL130A	63 15 48	144 3 55	Metagabbro	20	10.00	3.00	2.00	1.000	1,000.0
81IL131A	63 16 17	144 16 1	Quartzite	15	.50	.15	.15	070	100.0
81IL132A	63 16 20	144 15 40	Schistose metagabbro	20	7.00	5.00	5.00	.500	1,500.0
81IL133A	63 16 29	144 15 48	Quartz-white mica schist	15	2.00	.20	.20	.200	300.0
81IL133B	63 16 29	144 15 48	Quartz-plag-white mica schist	15	1.00	.30	.30	.200	200.0
81IL133C	63 16 29	144 15 48	Quartz-plag-white mica schist	15	2.00	.50	.07	.200	300.0
81IL133D	63 16 29	144 15 48	Quartz-plag-white mica schist	15	1.50	.70	.30	.200	300.0
81IL134A	63 16 34	144 16 0	Actinolite metagabbro	20	>20.00	.15	.20	.005	1,000.0
81IL135B	63 16 52	144 18 18	Quartz-white mica schist	15	.70	.10	<.05	.150	30.0
81IL135C	63 16 52	144 18 18	Quartz-carbonate-mica schist	15	1.00	.15	3.00	.100	500.0
81IL136A	63 16 37	144 18 49	Quartz-white mica schist	15	1.00	.05	.05	.100	100.0
81IL138A	63 19 55	144 24 29	Quartz-plag-mica schist	15	1.50	.50	.10	.070	300.0

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
81IL104B	60	70	10	<10	20	N	N	N	N	N	N	N	50	200
81IL107A	45	50	20	10	40	N	N	N	N	N	N	N	30	150
81IL107B	180	150	20	15	45	N	1.5	<200	N	N	N	N	20	30
81IL108A	N	<5	10	10	15	N	N	N	N	N	N	N	<5	70
81IL109A	55	30	25	10	35	N	N	N	N	N	N	N	50	100
81IL109B	70	30	25	15	50	N	N	N	N	N	N	N	20	100
81IL110A	10	<5	60	70	45	N	N	N	N	N	N	N	N	15
81IL111B	35	20	5	N	10	N	N	N	N	N	N	N	N	20
81IL112C	190	200	15	<10	10	200	1.0	N	N	N	30	N	50	20
81IL113B	15	10	10	10	20	N	N	N	N	N	N	N	<5	50
81IL115A	10	5	10	<10	10	N	N	N	N	N	N	N	<5	30
81IL115B	60	70	10	20	10	N	N	N	N	N	N	N	30	200
81IL115C	15	15	10	20	30	N	N	N	N	N	N	N	15	100
81IL120B	N	<5	10	<10	5	N	N	N	N	N	N	N	N	20
81IL122A	85	50	5	N	20	N	N	N	N	N	N	N	30	200
81IL123A	160	150	20	10	50	N	<.5	N	N	N	N	N	30	200
81IL123C	10	10	5	<10	35	N	N	N	N	N	N	N	10	70
81IL124A	5	5	15	10	10	N	N	N	N	N	N	N	N	50
81IL124B	25	15	10	10	35	N	N	N	N	N	N	N	20	100
81IL125A	10	10	10	15	130	300	N	N	<5	N	<10	N	20	100
81IL125B	20	15	200	200	15	N	1.0	N	N	N	<10	N	N	100
81IL125C	35	20	20	10	35	N	N	N	N	N	N	N	30	150
81IL126A	210	150	1,600	2,000	740	1,000	3.0	N	N	N	30	N	10	150
81IL126B	410	300	4,200	3,000	800	700	7.0	N	N	N	15	N	20	100
81IL126C	10,000	10,000	6,400	>20,000	21,000	>10,000	200.0	10,000	7	N	300	1,500	15	20
81IL126D	<5	<5	10	20	25	N	.7	N	N	N	N	N	N	300
81IL126E	110	100	240	200	200	300	1.0	<200	N	N	N	N	N	150
81IL126F	1,500	1,000	1,200	500	4,600	3,000	1.5	500	5	N	N	N	N	150
81IL126H	140	200	5	<10	20	N	N	N	N	N	N	N	30	200
81IL127A	<5	7	15	20	25	N	N	N	N	N	N	N	N	50
81IL127B	<5	5	190	200	15	N	1.5	N	N	N	N	N	N	100
81IL128A	20	15	10	20	10	N	N	N	N	N	N	N	N	50
81IL129A	85	70	10	20	35	N	1.0	N	N	N	N	N	7	200
81IL130A	180	100	10	10	65	<200	N	N	N	N	N	N	50	500
81IL131A	5	5	10	<10	20	N	N	N	N	N	N	N	N	50
81IL132A	120	100	10	10	35	N	<.5	N	N	N	N	N	50	200
81IL133A	100	50	65	70	200	200	N	N	<5	N	N	N	7	150
81IL133B	25	15	10	10	35	N	N	N	N	N	N	N	5	70
81IL133C	25	20	20	15	70	N	N	N	N	N	N	N	5	70
81IL133D	15	10	260	200	55	N	N	N	N	N	N	N	10	50
81IL134A	3,300	3,000	3,000	1,500	110,000	>10,000	10.0	1,500	30	N	20	100	10	<10
81IL135B	5	15	15	50	160	300	.5	N	N	N	N	N	N	30
81IL135C	5	7	20	30	65	N	N	N	N	N	N	N	N	20
81IL136A	15	10	15	10	130	N	<.5	N	N	N	N	N	N	20
81IL138A	<5	<5	15	10	80	N	<.5	N	N	N	<10	N	N	<10

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
81IL104B	20	50	N	<10	200	<1.0	N	N	N	N	30	200	30	50	N
81IL107A	700	150	N	10	1,000	2.0	N	N	N	N	20	500	20	100	N
81IL107B	10	7	N	300	1,500	2.0	<10	N	50	N	15	100	30	150	N
81IL108A	50	20	N	200	500	2.0	N	N	30	N	10	<100	20	200	N
81IL109A	1,000	500	N	20	700	1.5	N	N	N	N	20	500	15	70	N
81IL109B	300	150	N	150	500	3.0	N	N	N	N	10	500	15	50	N
81IL110A	30	7	N	10	20	1.0	N	N	N	N	<5	1,000	10	70	N
81IL111B	30	7	N	10	1,000	1.0	N	N	N	N	5	N	10	200	N
81IL112C	20	20	N	<10	50	1.0	N	N	N	N	5	N	N	50	N
81IL113B	30	7	N	15	500	1.5	N	N	N	N	5	<100	<10	150	N
81IL115A	30	5	N	10	200	1.0	N	N	N	N	<5	<100	10	300	N
81IL115B	200	30	N	<10	100	1.0	N	N	N	N	30	300	30	150	N
81IL115C	70	30	N	20	700	2.0	N	N	70	N	15	200	20	100	N
81IL120B	15	N	N	20	70	<1.0	N	N	N	N	N	N	<10	200	N
81IL122A	200	70	N	<10	100	<1.0	N	N	N	N	30	200	20	70	N
81IL123A	200	50	N	30	70	1.0	N	N	N	N	30	100	20	70	N
81IL123C	10	5	N	<10	20	<1.0	N	N	N	N	20	N	20	150	N
81IL124A	30	5	N	15	500	1.0	N	N	N	N	10	N	10	100	N
81IL124B	30	7	N	10	500	<1.0	N	N	20	N	20	<100	20	100	N
81IL125A	100	50	N	30	2,000	2.0	N	N	70	N	20	<100	20	150	N
81IL125B	100	5	N	50	2,000	2.0	N	N	70	N	15	<100	70	150	N
81IL125C	1,000	200	N	20	1,500	1.0	N	N	30	N	30	300	15	70	N
81IL126A	50	5	N	30	1,500	1.0	10	N	50	N	30	N	30	200	N
81IL126B	500	70	N	15	700	<1.0	20	N	N	N	20	N	20	100	N
81IL126C	N	N	N	N	200	N	N	100	N	N	5	100	30	30	N
81IL126D	50	5	N	100	2,000	1.5	N	N	N	N	7	<100	10	100	N
81IL126E	50	15	N	20	1,000	1.5	N	N	100	N	15	N	30	150	N
81IL126F	50	10	N	20	2,000	1.0	N	20	N	N	10	N	10	70	N
81IL126H	30	70	N	30	1,000	N	N	N	N	N	30	200	20	70	N
81IL127A	20	7	N	70	700	1.5	N	N	N	N	5	<100	15	200	N
81IL127B	20	5	N	70	2,000	2.0	N	N	<20	N	20	<100	15	200	N
81IL128A	10	<5	N	20	3,000	5.0	N	N	N	N	20	N	20	200	N
81IL129A	500	20	N	<10	100	1.0	N	N	70	20	30	500	20	100	N
81IL130A	<10	30	N	10	100	<1.0	N	N	N	N	30	100	30	100	N
81IL131A	10	5	N	30	200	1.0	N	N	N	N	5	N	<10	50	N
81IL132A	200	100	N	10	500	<1.0	N	N	N	N	30	200	15	50	N
81IL133A	50	50	N	30	2,000	1.0	N	N	50	N	7	N	20	200	N
81IL133B	<10	5	N	10	2,000	2.0	N	N	N	N	10	100	20	100	N
81IL133C	10	<5	N	15	1,500	2.0	N	N	N	N	15	N	20	150	N
81IL133D	10	5	N	<10	1,500	1.0	N	N	30	N	10	150	10	200	N
81IL134A	<10	5	N	N	1,500	N	10	300	N	N	N	N	N	N	N
81IL135B	20	5	N	50	500	1.0	N	N	20	N	<5	N	10	300	N
81IL135C	20	7	N	100	200	1.5	N	N	N	N	5	150	10	200	N
81IL136A	15	7	N	50	150	1.5	N	N	20	N	<5	N	<10	200	N
81IL138A	N	7	N	20	1,000	3.0	N	N	30	N	10	N	30	150	N

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
81IL139A	63 20 32	144 19 28	Quartz-mica-plag schist	15	7.00	2.00	<.05	.500	300.0
81IL142A	63 42 48	146 43 48	Calc-silicate schist	15	3.00	3.00	5.00	.070	2,000.0
81IL142B	63 42 48	146 43 48	Skarn	15	10.00	1.00	7.00	.070	5,000.0
81IL142C	63 42 48	146 43 48	Greenstone	15	10.00	.70	5.00	.070	5,000.0
81IL142D	63 42 48	146 43 48	Biotite-quartz marble	15	5.00	.30	3.00	.050	5,000.0
81IL142E	63 42 48	146 43 48	Quartz-mica-carbonate schist	15	3.00	.30	1.00	.050	3,000.0
81IL142F	63 42 48	146 43 48	Hornblende-biotite-carbonate schist	15	5.00	1.00	10.00	.020	5,000.0
81IL142G	63 42 48	146 43 48	Epidote-carbonate schist	15	10.00	1.00	5.00	.500	5,000.0
81IL142H	63 42 48	146 43 48	Biotite-quartz marble	15	5.00	5.00	10.00	.070	5,000.0
81IL142I	63 42 48	146 43 48	Quartz-mica-carbonate schist	15	2.00	.50	.10	.100	500.0
81IL142J	63 42 48	146 43 48	Massive sulfide	15	20.00	.50	1.50	.100	2,000.0
81IL142K	63 42 48	146 43 48	Massive sulfide	15	20.00	.30	.30	.050	700.0
81IL142L	63 42 48	146 43 48	Skarn with massive sulfide	15	20.00	.15	.50	.050	1,500.0
81IL142N	63 42 48	146 43 48	Massive sulfide	15	20.00	.30	.50	.070	2,000.0
81IL142O	63 42 48	146 43 48	Massive sulfide	15	20.00	.20	5.00	.070	5,000.0
81IL143A	63 42 50	146 44 49	Quartz-mica schist	15	7.00	.70	.07	.100	700.0
81IL144A	63 42 48	146 45 5	Quartz-mica schist	15	20.00	.50	.50	.070	1,000.0
81IL144B	63 42 48	146 45 5	Skarn with massive sulfide	15	15.00	.50	7.00	.100	>5,000.0
81IL144D	63 42 48	146 45 5	Quartz-mica-carbonate schist	15	2.00	.50	1.50	.150	1,000.0
81IL144E	63 42 48	146 45 5	Prehnite-chlorite schist with m.s.	15	20.00	.50	1.00	.100	2,000.0
81IL145C	63 42 29	146 44 12	Quartz-mica-plag schist with m.s.	15	20.00	.30	.20	.100	700.0
81IL145D	63 42 29	146 44 12	Epidote skarn	15	10.00	.50	2.00	.200	5,000.0
81IL147C	63 42 29	146 44 12	Metabasalt	15	10.00	.30	5.00	.070	>5,000.0
81IL148A	63 42 29	146 44 12	Quartz-mica schist with m.s.	15	20.00	.30	.15	.070	700.0
81IL150A	63 42 29	146 45 24	Calc-silicate schist with m.s.	15	20.00	.50	2.00	.050	1,500.0
81IL153A	63 24 51	144 37 38	Quartz-hornblende-chlorite schist	15	5.00	3.00	3.00	.700	1,000.0
81IL154A	63 24 42	144 37 24	Lamprophyre	20	3.00	3.00	3.00	.300	1,000.0
81IL157A	63 24 27	144 37 0	Quartz-white mica schist	15	1.00	.10	.50	.100	300.0
81IL160A	63 25 12	144 40 29	Quartz monzonite	20	3.00	2.00	1.50	.500	1,000.0
81IL160B	63 25 12	144 40 29	Quartz-hornblende-chlorite schist	15	5.00	3.00	3.00	.700	1,500.0
81IL161A	63 16 4	144 14 5	Quartz-kspar-plag-mica schist	15	1.00	.15	.10	.150	100.0
81IL161B	63 16 4	144 14 5	Quartz-plag-mica-carbonate schist	15	.70	.10	.10	.100	70.0
81IL161C	63 16 4	144 14 5	Quartz-kspar-plag-mica schist	15	1.00	.20	.05	.100	70.0
81IL161D	63 16 4	144 14 5	Quartz-plag-mica-carbonate schist	15	.70	.20	.07	.070	70.0
81IL161E	63 16 4	144 14 5	Quartz-kspar-plag-mica schist	15	.50	.10	.15	.100	100.0
81IL161F	63 16 4	144 14 5	Quartz-plag-mica-carbonate schist	15	1.50	.70	.10	.100	200.0
81IL161G	63 16 4	144 14 5	Quartz-plag-mica-carbonate schist	15	2.00	.50	.30	.200	500.0
81IL161H	63 16 4	144 14 5	Quartz-plag-mica-carbonate schist	15	2.00	.70	.15	.200	700.0
81IL161I	63 16 4	144 14 5	Quartz-kspar-plag-mica schist	15	.70	.15	.05	.150	70.0
81IL161J	63 16 4	144 14 5	Plagioclase-aplite dike	20	2.00	.15	.10	.200	100.0
81IL161K	63 16 4	144 14 5	Massive sulfide in schist	15	20.00	.10	1.50	.010	700.0
81IL162A	63 15 32	144 14 20	Massive sulfide	15	15.00	.10	.10	.005	200.0
81IL166A	63 14 20	144 8 42	Quartz-white mica schist	15	.70	.07	<.05	.070	15.0
81IL167A	63 20 46	144 3 46	Quartzite	15	5.00	1.00	.10	.100	300.0
81IL168A	63 11 42	144 6 34	Quartz-white mica schist	15	.70	.10	<.05	.050	50.0

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
81IL139A	25	20	15	15	40	N	N	N	N	N	10	N	15	150
81IL142A	5	10	40	50	25	N	<.5	N	N	N	N	N	10	50
81IL142B	30	30	5	<10	15	N	N	N	N	N	15	N	20	20
81IL142C	15	20	10	<10	20	N	N	N	N	N	N	N	20	20
81IL142D	<5	N	15	N	55	N	N	N	N	N	N	N	7	15
81IL142E	20	20	15	<10	30	N	N	N	N	N	N	N	7	20
81IL142F	5	N	25	<10	10	N	N	N	N	N	N	N	7	10
81IL142G	5	N	25	20	60	N	N	N	N	N	30	N	7	70
81IL142H	5	<5	45	15	800	500	N	N	N	N	N	N	N	10
81IL142I	15	15	30	50	60	N	N	N	N	N	10	N	5	50
81IL142J	280	300	45	20	35	N	N	N	5	N	15	N	200	20
81IL142K	440	700	45	20	20	N	N	N	<5	N	10	N	200	15
81IL142L	800	1,000	30	20	20	N	N	N	5	N	20	N	500	N
81IL142N	1,000	1,000	35	30	60	N	N	N	<5	N	10	N	50	10
81IL142O	730	700	20	N	35	N	N	N	N	N	50	N	100	10
81IL143A	250	300	35	50	90	N	<.5	N	N	N	15	N	5	50
81IL144A	450	500	35	20	130	N	N	N	<5	N	20	N	200	15
81IL144B	90	150	15	<10	30	N	N	N	N	N	50	N	7	20
81IL144D	5	10	30	30	55	N	N	N	N	N	10	N	<5	70
81IL144E	280	500	170	100	5,000	5,000	1.5	N	<5	N	15	N	150	20
81IL145C	350	500	35	20	130	200	.7	N	<5	N	15	N	20	30
81IL145D	130	100	10	10	2,400	2,000	N	N	N	N	50	N	5	50
81IL147C	35	20	20	<10	55	<200	N	N	N	N	N	N	<5	20
81IL148A	500	700	20	10	30	N	N	N	<5	N	10	N	50	20
81IL150A	340	500	40	20	25	N	.5	N	N	N	N	N	150	<10
81IL153A	55	70	20	70	35	<200	<.5	N	N	N	N	N	30	200
81IL154A	60	50	30	20	70	<200	N	N	N	N	N	N	30	150
81IL157A	5	<5	5	20	10	N	N	N	N	N	N	N	N	<10
81IL160A	70	30	25	20	60	<200	N	N	15	N	N	N	30	150
81IL160B	45	30	15	20	25	N	N	N	N	N	N	N	30	200
81IL161A	20	15	10	<10	<5	N	N	N	N	N	N	N	N	50
81IL161B	15	7	20	20	5	N	N	N	N	N	N	N	N	10
81IL161C	15	10	10	<10	5	N	N	N	N	N	N	N	N	10
81IL161D	5	<5	5	N	5	N	N	N	N	N	N	N	N	<10
81IL161E	15	7	10	10	<5	N	N	N	N	N	N	N	N	15
81IL161F	N	N	10	<10	40	N	N	N	N	N	N	N	5	20
81IL161G	15	10	10	N	100	<200	N	N	N	N	N	N	5	50
81IL161H	N	N	15	10	55	<200	N	N	N	N	N	N	5	50
81IL161I	15	10	10	<10	5	N	N	N	N	N	N	N	<5	20
81IL161J	450	300	10	N	15	N	N	N	N	N	N	N	15	20
81IL161K	590	500	55	20	1,100	2,000	1.0	N	5	N	N	N	15	<10
81IL162A	2,200	2,000	12,000	15,000	6,200	>40,000	150.0	1,000	10	N	100	150	N	20
81IL166A	5	15	60	150	100	200	1.0	N	N	N	N	N	N	20
81IL167A	65	50	20	50	240	300	.5	N	N	N	N	N	N	30
81IL168A	20	15	25	50	50	N	<.5	N	N	N	N	N	N	70

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
81IL139A	100	20	N	100	1,000	2.0	<10	N	50	N	20	N	30	200	N
81IL142A	30	15	N	<10	200	N	10	N	N	N	5	700	15	70	N
81IL142B	15	20	N	<10	20	2.0	N	N	<20	N	5	200	10	150	N
81IL142C	10	10	N	<10	100	2.0	N	N	N	N	5	200	10	70	N
81IL142D	10	7	N	<10	1,000	N	N	N	N	N	N	100	<10	100	N
81IL142E	10	5	N	<10	20	N	N	N	N	N	N	100	10	100	N
81IL142F	N	15	N	<10	100	2.0	N	N	N	N	N	100	<10	<10	N
81IL142G	50	7	N	<10	20	1.0	N	N	70	N	20	1,000	50	150	N
81IL142H	<10	<5	N	<10	30	<1.0	N	N	N	N	<5	300	15	50	N
81IL142I	30	20	N	50	1,000	2.0	N	N	N	N	5	N	10	150	N
81IL142J	10	15	N	N	20	N	20	N	20	N	5	200	20	100	N
81IL142K	<10	20	N	N	<20	N	20	N	N	N	N	N	10	30	N
81IL142L	N	50	N	<10	100	1.5	N	N	20	N	N	100	<10	20	N
81IL142N	N	7	N	<10	300	1.5	50	N	<20	N	5	200	15	200	N
81IL142O	N	7	N	N	50	1.5	N	N	<20	N	5	300	15	150	N
81IL143A	30	5	N	<10	700	2.0	10	N	N	N	10	N	15	100	N
81IL144A	<10	10	N	<10	300	<1.0	10	N	<20	N	7	100	10	70	N
81IL144B	20	5	N	<10	200	2.0	N	N	N	N	5	200	15	200	N
81IL144D	30	5	N	10	200	1.0	N	N	30	N	10	300	20	300	N
81IL144E	10	10	N	<10	1,000	<1.0	20	30	N	N	7	200	15	70	N
81IL145C	15	15	N	<10	<20	<1.0	15	N	30	N	10	200	20	150	N
81IL145D	50	10	N	<10	1,000	1.0	N	20	70	N	15	1,000	50	200	N
81IL147C	10	5	N	<10	500	5.0	N	N	N	N	5	<100	10	30	N
81IL148A	15	30	N	<10	N	<1.0	15	N	N	N	5	<100	10	100	N
81IL150A	<10	7	N	N	N	N	10	N	N	N	<5	200	<10	30	N
81IL153A	200	50	N	<10	50	1.0	N	N	N	N	30	300	30	100	N
81IL154A	500	100	N	10	700	2.0	N	N	N	N	20	1,000	20	100	N
81IL157A	10	<5	N	10	200	1.5	N	N	30	N	10	500	30	200	N
81IL160A	300	70	N	20	1,000	2.0	N	N	N	N	20	700	20	100	N
81IL160B	100	50	N	<10	300	1.0	N	N	N	N	30	500	20	100	N
81IL161A	<10	5	N	10	5,000	2.0	N	N	50	N	7	200	20	200	N
81IL161B	N	<5	N	10	2,000	2.0	N	N	50	N	7	100	20	150	N
81IL161C	N	<5	N	10	2,000	2.0	N	N	30	N	7	N	20	200	N
81IL161D	N	5	N	10	2,000	2.0	N	N	30	N	5	N	20	150	N
81IL161E	<10	<5	N	70	5,000	2.0	N	N	30	N	7	150	20	150	N
81IL161F	<10	<5	N	10	2,000	2.0	N	N	150	N	10	N	30	150	N
81IL161G	10	5	N	100	1,000	3.0	N	N	20	N	15	<100	20	200	N
81IL161H	10	<5	N	<10	1,000	2.0	N	N	30	N	10	<100	20	200	N
81IL161I	<10	<5	N	<10	5,000	3.0	N	N	50	N	10	100	20	70	N
81IL161J	<10	N	N	<10	300	2.0	N	N	50	<20	10	N	70	300	N
81IL161K	N	<5	N	N	200	<1.0	50	20	<20	N	5	100	20	10	N
81IL162A	N	15	N	N	300	N	100	200	N	N	N	N	N	N	N
81IL166A	15	5	N	50	1,500	1.5	N	N	N	N	<5	N	N	200	N
81IL167A	20	5	N	<10	20	N	10	N	<20	N	5	N	10	100	N
81IL168A	15	5	N	10	300	<1.0	N	N	N	N	<5	N	<10	70	N

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
81IL170B	63 11 29	144 6 23	Altered gabbro	20	5.00	3.00	5.00	.500	1,000.0
81IL171A	63 11 25	144 6 22	Quartz-white mica schist	15	3.00	.30	.07	.100	200.0
81IL173A	63 14 36	144 8 22	Quartz-chlorite schist	15	5.00	2.00	3.00	.300	2,000.0
81IL173C	63 14 36	144 8 22	Metagabbro	20	7.00	2.00	1.00	1.000	1,500.0
81IL175A	63 15 48	144 2 9	Quartz-graphite-white mica schist	15	1.00	.10	.05	.100	50.0
81NK001A	63 58 36	144 0 30	Metaquartz monzonite	20	1.00	.07	.20	.050	200.0
81NK002A	63 58 38	144 2 12	Quartz monzonite	20	1.00	.10	.70	.100	200.0
81NK003A	63 59 56	144 5 18	Quartz monzonite	20	2.00	.30	1.00	.200	500.0
81NK005A	63 57 15	144 16 29	Porphyritic quartz monzonite	20	.50	.10	.20	.100	100.0
81NK006A	63 57 56	144 18 19	Quartz monzonite	20	5.00	2.00	2.00	.500	1,000.0
81NK007A	63 53 22	144 21 55	Quartz-white mica-biotite schist	19	2.00	.70	.50	.300	700.0
81NK008A	63 25 48	144 2 8	Quartz-mica-garnet schist	18	2.00	.50	.50	.200	500.0
81NK009A	63 32 51	144 38 37	Schistose quartz monzonite	20	3.00	1.00	2.00	.300	1,000.0
81NK010A	63 35 28	145 22 16	Quartz-white mica-chlorite schist	15	1.00	.50	.10	.200	200.0
81NK010B	63 35 28	145 22 16	Felsic dike	20	5.00	3.00	5.00	.300	1,500.0
81NK011B	63 35 0	145 21 58	Aplite fault dike	20	1.00	.05	.20	.020	70.0
81NK013B	63 31 3	145 20 42	Quartz vein	15	.70	.20	.50	.002	500.0
81NK014A	63 30 18	145 20 40	Quartz-plag-garnet schist	15	5.00	.70	5.00	.300	3,000.0
81NK014B	63 30 18	145 20 40	Quartz-white mica-chlorite schist	15	5.00	1.00	.20	.300	1,000.0
81NK015A	63 27 20	145 21 40	Mica-plag-quartz schist	15	5.00	.50	<.05	.200	200.0
81NK015C	63 27 20	145 21 40	Quartz vein	15	.10	.03	.50	.005	150.0
81NK017B	63 22 26	145 15 18	Quartz vein	15	.50	.07	1.00	.020	150.0
81NK018C	63 22 48	145 11 36	Quartz vein	15	.50	.07	.20	.100	200.0
81NK019B	63 22 22	145 8 52	Quartz vein	15	.30	.03	.10	.005	100.0
81NK020A	63 23 26	145 8 42	Chlorite schist	15	2.00	.50	.10	.200	200.0
81NK020B	63 23 26	145 8 42	Lamprophyre sill	20	10.00	3.00	5.00	1.000	1,500.0
81NK021C	63 24 35	145 5 43	Quartz vein	15	.20	.03	.10	.010	150.0
81NK026A	63 27 36	144 55 36	Quartz-plag-chlorite-garnet schist	15	3.00	.20	<.05	.300	70.0
81NK027B	63 28 52	145 10 14	Quartz vein	15	.50	.30	.10	.030	300.0
81NK028A	63 25 34	145 8 53	Quartz-plag-white mica schist	15	2.00	.70	2.00	.300	1,500.0
81NK028B	63 25 34	145 8 53	Quartz vein	15	2.00	.70	1.00	.300	1,000.0
81NK029C	63 27 59	145 6 24	Quartz vein	15	1.00	.50	10.00	.100	3,000.0
81NK030A	63 27 29	145 4 44	Quartz-plag-mica-garnet schist	15	1.00	.20	1.00	.070	700.0
81NK030B	63 27 29	145 4 44	Quartz-carbonate vein	15	.05	.02	.05	N	50.0
81NK031A	63 33 7	144 58 50	Gabbro	20	1.00	1.00	3.00	.005	1,000.0
81NK031B	63 33 7	144 58 50	Quartzite	15	1.00	1.00	2.00	.150	700.0
81NK032A	63 33 13	145 2 25	Quartz monzodiorite	20	5.00	2.00	2.00	.500	700.0
81NK033A	63 31 0	145 0 59	Hornblende amphibolite	15	10.00	10.00	5.00	1.000	1,500.0
81NK033B	63 31 0	145 0 59	Quartz-epidote-biotite schist	15	5.00	2.00	2.00	.300	1,000.0
81NK034C	63 31 29	144 59 31	Quartz vein	18	.07	.02	.05	.010	100.0
81NK035A	63 32 26	144 56 59	Quartz-musc.-biotite-garnet schist	15	5.00	2.00	.50	>1.000	2,000.0
81NK035B	63 32 26	144 56 59	Schistose amphibolite	15	7.00	5.00	3.00	1.000	1,000.0
81NK036A	63 36 16	144 49 48	Schistose quartz monzonite	20	7.00	2.00	2.00	.700	2,000.0
81NK037A	63 37 17	144 49 31	Schistose quartz monzonite	20	2.00	.50	1.00	.200	1,000.0
81NK038A	63 43 38	144 52 30	Metaandesite	15	.50	.10	.10	1.000	30.0

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
81IL170B	80	70	10	10	40	N	<.5	N	N	N	N	N	30	200
81IL171A	6,400	5,000	1,600	1,500	300	300	10.0	N	N	N	N	N	30	<10
81IL173A	3,300	2,000	25	30	140	N	1.5	N	N	N	N	N	30	150
81IL173C	460	500	20	20	110	N	1.0	300	N	<50	N	N	50	1,000
81IL175A	230	150	30	50	160	<200	1.0	200	7	N	N	N	N	1,000
81NK001A	<5	5	10	70	15	N	N	N	N	N	N	N	5	10
81NK002A	<5	<5	5	70	20	N	N	N	N	N	N	N	5	10
81NK003A	<5	<5	5	30	20	N	N	N	N	N	N	N	5	50
81NK005A	<5	5	5	50	10	N	N	N	N	N	N	N	5	10
81NK006A	<5	5	5	10	25	N	N	N	N	N	N	N	30	300
81NK007A	10	20	10	50	15	N	N	N	N	N	N	N	10	150
81NK008A	10	20	10	20	50	N	N	N	N	N	N	N	10	70
81NK009A	<5	5	5	30	25	N	N	N	N	N	N	N	10	100
81NK010A	<5	5	5	<10	15	N	N	N	N	N	N	N	10	70
81NK010B	20	30	30	100	75	N	N	N	N	N	N	N	30	300
81NK011B	N	<5	30	100	40	N	N	N	N	N	30	N	5	10
81NK013B	N	<5	5	N	10	N	N	N	N	N	N	N	5	10
81NK014A	<5	5	20	50	30	N	N	N	N	N	N	N	15	100
81NK014B	45	30	10	30	55	N	N	N	N	N	N	N	30	150
81NK015A	25	20	260	300	35	N	2.0	N	N	N	N	N	5	100
81NK015C	N	<5	5	N	5	N	N	N	N	N	N	N	5	10
81NK017B	5	5	85	70	5	N	N	N	N	N	N	N	5	10
81NK018C	5	5	5	N	5	N	N	N	N	N	N	N	5	10
81NK019B	<5	<5	5	N	10	N	N	N	N	N	N	N	5	10
81NK020A	5	5	10	N	35	N	N	N	N	N	N	N	10	50
81NK020B	15	30	20	50	95	N	N	N	N	N	N	N	50	100
81NK021C	N	<5	5	N	5	N	N	N	N	N	N	N	5	10
81NK026A	30	50	5	N	10	N	1.0	200	N	N	N	100	10	70
81NK027B	N	<5	5	N	15	N	N	N	N	N	N	N	5	10
81NK028A	15	30	10	N	30	N	N	N	N	N	N	N	10	70
81NK028B	<5	20	40	N	30	N	N	N	N	N	N	N	10	50
81NK029C	5	5	10	50	20	N	N	N	N	N	N	N	10	50
81NK030A	N	5	<5	N	5	N	N	N	N	N	N	N	10	20
81NK030B	N	<5	30	N	15	N	N	N	N	N	N	N	5	10
81NK031A	35	<5	30	30	75	N	N	N	N	N	N	N	5	10
81NK031B	<5	5	20	30	25	N	N	N	N	N	N	N	10	70
81NK032A	10	30	30	100	45	N	N	N	N	N	N	N	20	150
81NK033A	85	150	10	30	25	N	N	N	N	N	N	N	70	500
81NK033B	5	5	10	N	45	N	N	N	N	N	N	N	20	200
81NK034C	N	<5	5	N	5	N	N	N	N	N	N	N	N	10
81NK035A	25	70	10	70	75	<200	N	N	N	N	N	N	30	200
81NK035B	40	50	10	50	45	<200	N	N	N	N	N	N	50	200
81NK036A	N	<5	10	50	25	N	N	N	N	N	N	N	10	200
81NK037A	N	<5	10	30	30	N	N	N	N	N	N	N	5	50
81NK038A	N	<5	5	N	5	N	N	N	N	N	N	N	5	10

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
B1IL170B	300	100	N	<10	200	N	N	N	N	N	30	200	20	50	N
B1IL171A	<10	10	N	20	5,000	1.0	<10	N	50	N	7	N	30	200	N
B1IL173A	50	30	N	50	2,000	1.0	N	N	N	N	20	500	30	100	N
B1IL173C	10	50	N	100	1,000	1.5	N	N	N	N	20	200	20	100	N
B1IL175A	20	10	N	20	3,000	1.0	N	N	N	N	5	N	<10	50	N
B1NK001A	N	5	N	10	1,000	2.0	N	N	N	20	5	N	30	70	N
B1NK002A	N	5	N	<10	1,000	1.0	N	N	N	N	5	300	30	100	N
B1NK003A	N	5	N	<10	1,500	2.0	N	N	N	N	7	300	N	100	N
B1NK005A	N	5	N	50	300	1.0	N	N	N	<20	5	N	50	70	N
B1NK006A	150	20	N	<10	700	1.0	N	N	N	N	30	200	50	70	N
B1NK007A	70	20	N	20	500	3.0	N	N	N	N	15	200	30	300	N
B1NK008A	50	30	N	20	500	1.0	N	N	N	N	15	150	30	150	N
B1NK009A	20	5	N	10	2,000	2.0	N	N	20	N	15	700	30	200	N
B1NK010A	20	10	N	10	200	1.0	N	N	N	N	5	N	N	200	N
B1NK010B	200	70	N	100	1,500	15.0	N	N	N	N	30	1,500	30	200	N
B1NK011B	N	5	N	100	50	2.0	N	N	N	70	N	N	70	200	N
B1NK013B	N	5	N	<10	20	N	N	N	N	N	N	N	N	N	N
B1NK014A	100	50	N	100	500	2.0	N	N	20	N	15	500	30	200	N
B1NK014B	150	70	N	100	1,000	7.0	N	N	70	N	20	300	30	150	N
B1NK015A	70	5	N	50	700	1.0	10	N	N	N	10	N	10	100	N
B1NK015C	N	5	N	<10	50	N	N	N	N	N	N	N	N	N	N
B1NK017B	N	5	N	<10	100	N	N	N	N	N	N	100	N	N	N
B1NK018C	N	5	N	<10	50	N	N	N	N	N	N	N	N	100	N
B1NK019B	N	5	N	<10	30	N	N	N	N	N	N	N	N	N	N
B1NK020A	50	20	N	<10	300	1.0	N	N	N	N	5	N	N	300	N
B1NK020B	20	10	N	70	1,000	1.0	10	N	50	20	20	1,000	70	300	N
B1NK021C	10	5	N	<10	20	N	N	N	N	N	N	N	N	N	N
B1NK026A	50	5	N	100	500	2.0	N	N	50	N	10	N	20	700	N
B1NK027B	N	5	N	<10	200	N	N	N	N	N	N	N	N	10	N
B1NK028A	50	10	N	<10	200	N	N	N	20	N	10	200	30	300	N
B1NK028B	50	10	N	<10	200	N	N	N	20	N	5	100	20	300	N
B1NK029C	N	10	N	<10	50	N	N	N	N	N	10	500	N	20	N
B1NK030A	N	10	N	10	150	N	N	N	N	N	N	200	N	100	N
B1NK030B	N	5	N	<10	20	N	N	N	N	N	N	N	N	N	N
B1NK031A	N	10	N	<10	20	N	N	N	N	N	N	500	N	N	N
B1NK031B	30	10	N	70	300	1.0	N	N	N	N	N	700	N	50	N
B1NK032A	150	50	N	50	1,500	2.0	N	N	100	N	15	700	20	100	N
B1NK033A	300	70	N	<10	200	N	N	N	N	N	30	500	50	150	N
B1NK033B	150	10	N	<10	700	1.0	N	N	20	N	30	300	30	150	N
B1NK034C	N	5	N	<10	30	N	N	N	N	N	N	N	N	N	N
B1NK035A	150	70	N	10	1,000	1.0	N	N	20	50	30	100	50	200	N
B1NK035B	300	30	N	<10	100	1.0	N	N	N	N	30	100	30	150	N
B1NK036A	N	5	N	10	3,000	N	N	N	N	N	10	300	20	150	N
B1NK037A	N	5	N	10	2,000	3.0	N	N	70	N	5	300	30	200	N
B1NK038A	N	5	N	<10	200	2.0	N	N	N	20	5	100	N	200	N

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
81NK038B	63 43 38	144 52 30	Quartz vein	15	.50	.02	.07	.020	50.0
81NK039A	63 48 27	144 41 48	Quartz monzonite	20	2.00	.30	1.00	.300	700.0
81NK040A	63 43 48	145 10 56	Quartz-plag-mica-garnet schist	15	2.00	.30	2.00	.300	700.0
81NK041A	63 41 2	145 4 36	Quartz-biotite-garnet schist	15	2.00	.50	.30	.300	500.0
81NK042A	63 40 40	145 6 24	Muscovite-biotite-quartz schist	15	2.00	.30	.50	.200	700.0
81NK042B	63 40 40	145 6 24	Quartz-biotite-garnet schist	15	1.00	.20	.20	.200	700.0
81NK043A	63 41 26	145 1 33	Quartz-biotite-garnet schist	15	2.00	1.00	1.00	.500	700.0
81NK044A	63 37 40	145 1 58	Quartz-biotite-garnet schist	15	7.00	1.00	.50	.700	1,000.0
81NK045A	63 37 2	145 0 2	Quartz-biotite-garnet schist	15	3.00	.70	2.00	.300	1,500.0
81NK045C	63 37 2	145 0 2	Quartz vein	15	.30	.10	2.00	.030	200.0
81NK046A	63 35 50	144 58 9	Quartz-biotite schist	15	7.00	1.00	.05	.500	1,000.0
81NK047A	63 33 40	144 55 15	Schistose quartz monzonite	20	3.00	1.00	2.00	.300	1,000.0
81NK048A	63 33 46	144 53 40	Gabbro	20	7.00	10.00	7.00	.500	1,000.0
81NK049A	63 44 22	144 51 22	Quartz-muscovite-carbonate schist	15	2.00	.50	1.00	.300	700.0
81NK049B	63 44 22	144 51 22	Amphibolite	15	10.00	10.00	7.00	1.000	1,500.0
81NK050A	63 40 36	144 46 6	Biotite-white mica schist	18	1.00	.30	1.00	.200	150.0
81NK051A	63 40 55	144 46 38	Biotite-white mica schist	18	1.00	.15	1.00	.200	300.0
81NK053A	63 39 9	144 40 45	Schistose quartz monzonite	20	2.00	.50	1.00	.200	1,000.0
81NK059A	63 40 37	144 56 2	Quartz-muscovite-carbonate schist	15	2.00	.30	.20	.200	500.0
81NK062B	63 34 41	145 18 37	Quartz vein	15	1.00	.20	5.00	.100	500.0
81NK064A	63 34 47	145 9 34	Porphyritic quartz monzonite	20	3.00	1.00	2.00	.300	500.0
81NK065A	63 34 26	145 6 43	Quartz dacite	20	3.00	1.00	1.00	.300	700.0
81NK067A	63 34 4	145 2 18	Porphyritic quartz monzonite	20	3.00	1.00	2.00	.500	700.0
81NK068A	63 33 42	145 5 17	Diorite	20	7.00	5.00	3.00	.700	1,000.0
81NK069A	63 33 45	145 1 30	Porphyritic quartz monzonite	20	5.00	.15	1.00	.300	1,500.0
81NK069B	63 33 45	145 1 30	Lamprophyre dike	20	5.00	2.00	2.00	.500	1,000.0
81NK069G	63 33 45	145 1 30	Lamprophyre	20	2.00	1.00	1.50	.300	500.0
81NK069H	63 33 45	145 1 30	Lamprophyre	20	2.00	5.00	3.00	.200	500.0
81NK072A	63 26 28	144 54 0	Quartz-white mica-chlorite schist	15	5.00	1.00	.20	.200	700.0
81NK073B	63 22 52	144 49 16	Quartz vein	15	.50	.10	1.00	.020	1,000.0
81NK074A	63 27 31	144 43 13	Quartz-plag-chlorite-biotite schist	15	7.00	1.00	1.00	.500	1,500.0
81NK074C	63 27 31	144 43 13	Quartz-hornblende-chlorite schist	15	7.00	2.00	2.00	.300	500.0
81NK074D	63 27 31	144 43 13	Quartz vein	15	.15	.05	<.05	.050	20.0
81NK075A	63 28 42	144 36 17	Quartz diorite	20	3.00	.50	2.00	.300	1,000.0
81NK076A	63 32 59	144 44 3	Schistose quartz monzonite	20	3.00	1.00	2.00	.300	1,000.0
81NK077A	63 27 23	144 16 11	Porphyritic quartz monzonite	20	2.00	.30	.50	.200	700.0
81NK078A	63 25 30	144 36 0	Quartz-biotite-chlorite schist	15	3.00	.30	1.00	.300	700.0
81NK079B	63 25 12	144 40 48	Quartz-mica-garnet-chlorite schist	15	5.00	2.00	2.00	1.000	1,000.0
81NK079C	63 25 12	144 40 48	Quartz vein	15	.07	.03	.20	.005	100.0
81NK080A	63 27 30	144 19 31	Leucocratic quartz diorite	20	5.00	1.00	5.00	.500	700.0
81NK081B	63 26 4	144 20 21	Quartz-mica-garnet schist	18	5.00	.50	.70	.300	700.0
81NK082B	63 27 6	144 24 13	Quartz-mica-andalusite schist	18	5.00	.50	.20	.300	200.0
81NK082C	63 27 6	144 24 13	Metamarl	18	10.00	.70	5.00	1.000	2,000.0
81NK083B	63 27 13	144 26 13	Quartz vein	18	.20	.07	.10	.070	100.0
81NK084A	63 28 1	144 30 8	Quartz diorite	20	5.00	.50	1.00	.300	1,000.0

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
81NK038B	N	5	5	N	5	N	N	N	N	N	N	N	5	10
81NK039A	<5	10	10	70	20	N	N	N	N	N	N	N	5	70
81NK040A	N	<5	5	10	30	N	N	N	N	N	N	N	10	70
81NK041A	10	20	5	20	35	N	N	N	N	N	N	N	10	100
81NK042A	5	10	15	30	30	N	N	N	N	N	N	N	10	70
81NK042B	N	<5	5	10	10	N	N	N	N	N	N	N	5	20
81NK043A	5	10	10	10	35	N	N	N	N	N	N	N	15	100
81NK044A	10	30	10	20	40	N	N	N	N	N	N	N	30	200
81NK045A	<5	5	15	20	90	N	N	N	N	N	N	N	15	100
81NK045C	N	<5	10	10	10	N	N	N	N	N	N	N	5	10
81NK046A	35	30	15	20	95	N	N	N	N	N	N	N	50	200
81NK047A	N	<5	5	30	40	N	N	N	N	N	N	N	10	100
81NK048A	10	20	10	10	10	N	N	N	N	N	N	N	50	300
81NK049A	5	20	10	10	20	N	N	N	N	N	N	N	10	70
81NK049B	15	30	10	10	40	<200	N	N	N	N	N	N	70	300
81NK050A	N	<5	<5	N	10	N	N	N	N	N	N	N	5	50
81NK051A	<5	10	<5	N	5	N	N	N	N	N	N	N	5	10
81NK053A	N	<5	10	30	40	N	N	N	N	N	N	N	10	70
81NK059A	15	20	10	20	25	N	N	N	N	N	N	N	10	50
81NK062B	<5	30	15	30	10	<200	N	N	N	N	N	N	10	50
81NK064A	50	30	15	70	25	N	N	N	5	N	N	N	15	150
81NK065A	N	5	10	50	50	N	N	N	N	N	N	N	10	70
81NK067A	20	30	20	70	30	N	N	N	N	N	N	N	10	100
81NK068A	190	300	15	50	40	N	N	N	N	N	N	N	50	300
81NK069A	5	20	15	70	100	200	N	N	5	N	15	N	5	10
81NK069B	45	30	20	70	50	N	N	N	5	N	N	N	30	200
81NK069G	40	50	5	70	30	N	N	N	7	N	N	N	15	70
81NK069H	90	50	10	10	45	N	N	N	N	N	N	N	50	70
81NK072A	15	30	10	30	50	N	N	N	N	N	N	N	10	150
81NK073B	15	<5	5	N	20	N	N	N	N	N	N	N	N	10
81NK074A	N	30	10	10	75	N	N	N	N	N	N	N	30	150
81NK074C	N	5	N	30	<5	200	N	N	N	N	N	N	50	200
81NK074D	N	<5	10	N	35	N	N	N	N	N	N	N	5	10
81NK075A	N	<5	10	30	30	<200	N	N	N	N	N	N	10	70
81NK076A	N	5	10	50	30	<200	N	N	N	N	N	N	15	100
81NK077A	N	<5	5	30	30	<200	N	N	N	N	N	N	5	70
81NK078A	30	<5	10	20	40	N	N	N	N	N	N	N	5	70
81NK079B	30	50	10	N	35	N	N	N	5	N	N	100	50	200
81NK079C	N	<5	5	N	5	<200	N	N	N	N	N	N	5	10
81NK080A	20	30	10	70	45	N	N	N	N	N	N	N	20	150
81NK081B	85	150	25	70	30	N	N	N	N	N	N	N	5	100
81NK082B	25	30	10	70	60	N	N	N	N	N	N	N	20	150
81NK082C	20	50	20	50	30	N	N	N	N	N	N	N	70	300
81NK083B	<5	5	5	N	5	N	N	N	N	N	N	N	5	10
81NK084A	N	N	5	30	35	N	N	N	N	N	N	N	10	100

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
81NK038B	N	5	N	10	50	1.0	N	N	N	N	N	100	N	30	N
81NK039A	N	5	N	10	1,500	15.0	N	N	150	20	N	700	20	200	100
81NK040A	N	5	N	10	1,500	2.0	N	N	100	N	15	100	50	200	N
81NK041A	50	10	N	10	1,000	1.0	N	N	N	N	15	300	20	500	N
81NK042A	30	15	N	10	700	1.0	N	N	N	N	5	300	10	200	N
81NK042B	10	5	N	10	500	1.0	N	N	N	N	N	100	10	300	N
81NK043A	70	20	N	10	1,000	2.0	N	N	50	N	15	300	30	300	N
81NK044A	200	70	N	70	3,000	2.0	N	N	100	N	30	200	50	200	N
81NK045A	N	20	N	10	1,500	5.0	N	N	70	N	10	300	30	200	N
81NK045C	N	5	N	<10	50	1.0	N	N	N	N	N	100	N	N	N
81NK046A	150	70	N	150	2,000	5.0	N	N	100	<20	20	N	30	300	N
81NK047A	N	5	N	20	1,500	5.0	N	N	20	N	10	700	30	300	N
81NK048A	50	50	N	20	700	2.0	N	N	N	N	30	1,000	30	70	N
81NK049A	20	5	N	10	1,000	5.0	N	N	20	N	15	500	50	200	N
81NK049B	300	100	N	10	200	1.0	N	N	N	N	50	500	50	150	N
81NK050A	N	5	N	<10	500	5.0	N	N	70	N	10	700	70	200	N
81NK051A	N	5	N	<10	150	10.0	N	N	150	30	10	300	70	300	N
81NK053A	N	5	N	<10	700	7.0	N	N	30	N	10	300	30	200	N
81NK059A	50	10	N	50	500	2.0	N	N	N	N	10	100	15	100	N
81NK062B	20	5	N	<10	300	1.0	N	N	N	N	5	300	20	70	N
81NK064A	150	20	N	200	1,000	5.0	N	N	100	<20	15	500	30	200	N
81NK065A	100	50	N	10	1,000	7.0	N	N	20	N	5	700	20	200	N
81NK067A	70	20	N	50	1,000	5.0	N	N	20	N	10	700	20	200	N
81NK068A	500	150	N	50	1,000	3.0	N	N	100	N	30	700	30	700	N
81NK069A	N	5	N	30	1,500	10.0	N	N	100	30	5	700	70	700	N
81NK069B	150	50	N	50	1,500	2.0	N	N	70	N	15	1,000	30	200	N
81NK069G	70	15	N	15	700	1.0	N	N	100	N	10	700	30	70	N
81NK069H	1,000	150	N	10	500	N	N	N	N	N	30	300	15	30	N
81NK072A	50	10	N	100	700	5.0	N	N	N	N	20	200	30	300	N
81NK073B	N	5	N	<10	70	N	N	N	N	N	N	300	10	20	N
81NK074A	100	70	N	50	1,000	2.0	N	N	100	N	20	200	70	500	N
81NK074C	150	50	N	20	700	7.0	N	N	50	N	30	500	30	150	N
81NK074D	N	5	N	<10	20	N	N	N	N	N	N	N	N	N	N
81NK075A	N	5	N	<10	1,500	3.0	N	N	N	N	15	500	30	150	N
81NK076A	10	5	N	<10	1,500	3.0	N	N	20	N	10	500	30	200	N
81NK077A	N	5	N	<10	700	5.0	N	N	N	N	5	300	30	100	N
81NK078A	10	5	N	<10	700	2.0	N	N	N	N	20	300	50	300	N
81NK079B	300	150	N	<10	700	1.0	N	N	70	50	30	300	30	500	N
81NK079C	N	5	N	<10	<20	N	N	N	N	N	N	N	N	20	N
81NK080A	30	10	N	70	2,000	7.0	N	N	50	N	15	1,500	20	200	N
81NK081B	100	5	N	10	700	1.0	N	N	20	N	10	100	10	300	N
81NK082B	150	70	N	200	700	5.0	N	N	100	N	15	300	20	200	N
81NK082C	500	100	N	30	300	N	N	N	N	N	50	500	50	100	N
81NK083B	N	5	N	<10	50	N	N	N	N	N	N	N	N	N	N
81NK084A	N	5	N	<10	1,000	3.0	N	N	70	N	10	500	30	200	N

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
81NK085D	63 27 20	144 34 59	Metaquartz diorite	20	10.00	1.00	2.00	1.000	1,500.0
81NK086B	63 28 3	144 26 37	Quartz-plag-hornblende-garnet gneiss	18	5.00	.50	2.00	.300	1,000.0
81NK086D	63 28 3	144 26 37	Quartz vein	18	.30	.15	.07	.020	100.0
81NK087C	63 25 25	144 30 23	Quartz-mica-garnet-chlorite schist	15	10.00	10.00	5.00	.700	1,500.0
81NK088D	63 25 50	144 39 30	Quartz vein	15	1.00	.10	.10	.050	50.0
81NK089C	63 24 39	144 43 10	Quartz-plag-mica-garnet schist	15	5.00	1.00	.30	.700	700.0
81NK089D	63 24 39	144 43 10	Metaquartz monzonite	15	5.00	2.00	2.00	.300	1,000.0
81NK092B	63 21 25	144 42 39	Carbonate-altered lamprophyre	20	5.00	7.00	5.00	.200	1,000.0
81NK094B	63 18 39	144 35 0	Quartz-white mica-chlorite schist	15	1.00	.30	.10	.200	500.0
81NK095A	63 18 59	144 31 36	Quartz-white mica schist	15	3.00	.15	<.05	.150	150.0
81NK096C	63 19 10	144 25 23	Quartz-plag-mica schist	15	5.00	1.00	1.00	.500	700.0
81NK097C	63 20 1	144 25 48	Fe-stained aplite dike	15	5.00	2.00	2.00	.500	700.0
81NK098C	63 21 59	144 27 5	Quartz-epidote-mica schist with m.s	15	10.00	.50	5.00	.300	2,000.0
81NK099A	63 21 18	144 24 1	Quartz-mica-plag schist	15	10.00	.30	.05	.300	500.0
81NK100C	63 21 31	144 18 59	Quartz vein	15	.50	.20	1.00	.010	200.0
81NK101A	63 53 55	144 8 47	Schistose granodiorite	19	2.00	.30	1.00	.200	700.0
81NK102A	63 55 4	144 7 2	Porphyritic quartz monzonite	20	5.00	1.00	2.00	.500	1,500.0
81NK103A	63 55 9	144 5 57	Porphyritic quartz monzonite	20	5.00	2.00	2.00	.500	1,000.0
81NK105A	63 51 29	144 9 33	Quartz diorite	20	5.00	.70	.30	.500	700.0
81NK106A	63 52 20	144 7 19	Schistose amphibolite	19	1.00	.10	.30	.100	200.0
81NK106B	63 52 20	144 7 19	Metaquartz diorite	20	7.00	1.00	.20	.500	700.0
81NK108A	63 52 2	144 11 44	Mica-garnet-silliminite schist	19	7.00	1.00	.20	.500	700.0
81NK109A	63 51 1	144 33 6	Biotite augen gneiss	19	5.00	1.00	1.00	.500	700.0
81NK110A	63 47 11	144 3 39	Quartz monzonite	20	3.00	.70	2.00	.300	700.0
81NK111A	63 53 49	144 49 12	Muscovite-quartz schist	19	5.00	.70	.20	.300	500.0
81NK112A	63 49 34	144 46 10	Quartz monzonite	20	2.00	.30	1.00	.150	700.0
81NK113A	63 48 17	144 45 53	Quartz monzonite	20	1.00	.30	1.00	.150	700.0
81NK114A	63 43 3	144 33 18	Biotite-white mica schist	19	5.00	.70	.20	.500	700.0
81NK115A	63 42 46	144 24 4	Quartz monzonite	20	2.00	.50	1.00	.300	500.0
81NK116A	63 43 59	144 18 10	Altered quartz monzonite	20	5.00	.70	2.00	.500	1,000.0
81NK117A	63 37 10	144 21 0	Granodiorite	20	5.00	1.00	2.00	.500	1,000.0
81NK118A	63 36 39	144 22 24	Granodiorite	20	5.00	.70	2.00	.300	1,000.0
81NK119A	63 34 56	144 29 14	Granodiorite	20	5.00	.70	2.00	.300	1,000.0
81NK120A	63 31 44	144 34 11	Schistose quartz monzonite	20	5.00	1.00	2.00	.300	1,500.0
81NK121A	63 31 11	144 33 16	Schistose quartz monzonite	20	2.00	.70	2.00	.300	700.0
81NK122A	63 29 13	144 24 16	Porphyritic quartz monzonite	20	2.00	.30	1.00	.100	700.0
81NK123A	63 28 5	144 21 12	Porphyritic quartz monzonite	20	2.00	.70	1.00	.300	700.0
81NK123B	63 28 5	144 21 12	Andesite dike	20	2.00	.30	1.00	.500	700.0
81NK124A	63 28 54	144 19 46	Porphyritic quartz monzonite	20	2.00	.20	1.00	.200	700.0
81NK125A	63 28 16	144 19 1	Porphyritic quartz monzonite	20	2.00	.30	1.00	.200	700.0
81NK126C	63 26 11	144 10 52	Quartz-plag-hornblende schist	18	5.00	1.00	2.00	.500	700.0
81NK127C	63 41 33	145 22 6	Quartz vein	15	.15	.07	.10	.010	20.0
81NK129A	63 41 53	145 22 52	Quartz-biotite-garnet schist	15	5.00	1.00	1.00	.300	1,500.0
81NK130C	63 42 0	145 23 0	Quartz vein	15	.70	.20	.10	.100	200.0
81NK131C	63 42 13	145 22 52	Quartzite	15	3.00	.15	.15	.200	1,500.0

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
81NK085D	10	30	50	100	120	N	N	N	N	N	N	N	30	100
81NK086B	N	10	10	50	20	N	N	N	N	N	N	N	10	100
81NK086D	N	5	<5	N	<5	N	N	N	N	N	N	N	5	10
81NK087C	90	200	25	50	75	N	N	N	N	N	N	N	70	300
81NK088D	5	30	10	N	N	N	N	N	N	N	N	N	N	10
81NK089C	30	30	10	30	25	N	N	N	N	N	N	N	15	200
81NK089D	65	200	15	30	40	N	N	N	N	N	N	N	30	300
81NK092B	50	50	50	50	45	200	N	N	N	N	N	N	50	200
81NK094B	10	20	50	100	65	<200	N	N	N	N	N	N	5	50
81NK095A	25	30	45	100	50	N	N	N	N	N	N	N	5	20
81NK096C	65	50	5	20	10	N	N	N	N	N	N	N	20	200
81NK097C	20	30	10	N	15	N	N	N	N	N	N	N	50	300
81NK098C	200	200	15	30	15	N	N	N	N	N	20	N	50	100
81NK099A	160	150	25	30	25	N	N	N	N	N	N	N	5	100
81NK100C	N	<5	15	10	15	200	N	N	N	N	N	N	5	20
81NK101A	N	<5	5	30	20	N	N	N	N	N	N	N	10	70
81NK102A	N	<5	15	50	80	N	N	N	N	N	N	N	15	150
81NK103A	N	5	15	30	50	N	N	N	N	N	N	N	20	200
81NK105A	N	30	10	30	30	<200	N	N	N	N	N	N	15	150
81NK106A	15	5	20	70	50	N	N	N	N	N	10	N	5	10
81NK106B	5	70	15	30	10	<200	N	N	N	N	N	N	30	200
81NK108A	50	100	20	30	75	N	N	N	N	N	N	N	30	200
81NK109A	10	30	10	20	45	N	N	N	N	N	N	N	20	100
81NK110A	45	5	15	50	25	N	N	N	N	N	N	N	15	100
81NK111A	N	50	10	50	50	N	N	N	N	N	N	N	20	150
81NK112A	5	<5	5	50	25	N	N	N	N	N	N	N	5	50
81NK113A	<5	<5	5	50	30	N	N	N	N	N	N	N	5	30
81NK114A	65	70	20	30	70	N	N	N	N	N	N	N	50	200
81NK115A	<5	N	10	50	35	N	N	N	N	N	N	N	10	100
81NK116A	<5	N	15	30	70	N	N	N	N	N	N	N	15	150
81NK117A	5	5	15	30	60	N	N	N	N	N	N	N	20	200
81NK118A	5	5	15	30	45	N	N	N	N	N	N	N	15	200
81NK119A	5	5	10	30	65	N	N	N	N	N	N	N	10	100
81NK120A	<5	<5	15	50	50	N	N	N	N	N	N	N	15	150
81NK121A	N	<5	10	70	30	N	N	N	N	N	N	N	15	100
81NK122A	N	<5	<5	70	N	N	N	N	N	N	N	N	5	50
81NK123A	5	5	15	30	25	N	N	N	N	N	N	N	10	100
81NK123B	10	20	15	30	40	N	N	N	N	N	N	N	15	200
81NK124A	N	<5	15	50	25	N	N	N	N	N	N	N	5	50
81NK125A	N	<5	15	70	35	N	N	N	N	N	N	N	5	50
81NK126C	<5	<5	10	N	35	N	N	N	N	N	N	N	20	300
81NK127C	N	N	<5	N	N	N	N	N	N	N	N	N	5	10
81NK129A	40	30	15	30	70	<200	N	N	N	N	N	N	30	100
81NK130C	<5	5	5	N	15	N	N	N	N	N	N	N	5	20
81NK131C	10	15	20	0	150	<200	N	N	N	N	N	N	30	50

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
B1NK085D	N	5	N	50	1,000	5.0	N	N	100	30	20	700	70	200	N
B1NK086B	N	5	N	10	700	7.0	N	N	70	N	30	1,000	70	500	N
B1NK086D	10	10	N	<10	50	N	N	N	N	N	N	N	N	20	N
B1NK087C	1,000	200	N	30	2,000	5.0	N	N	20	N	30	1,000	50	200	N
B1NK088D	N	5	N	<10	50	N	N	N	N	N	N	N	N	50	N
B1NK089C	200	20	N	100	2,000	5.0	N	N	150	30	30	200	50	500	N
B1NK089D	200	70	N	15	1,000	2.0	N	N	N	N	20	700	20	200	N
B1NK092B	1,500	500	N	20	500	1.0	N	N	N	N	20	1,000	20	50	N
B1NK094B	50	5	N	30	300	1.0	N	N	N	N	5	N	20	500	N
B1NK095A	N	5	N	<10	20	1.0	N	N	N	N	5	300	30	100	N
B1NK096C	150	50	N	70	>5,000	15.0	N	N	100	50	20	500	70	700	N
B1NK097C	100	70	N	100	1,000	1.0	N	N	100	N	30	300	50	200	N
B1NK098C	100	70	N	30	50	N	15	N	70	N	15	1,000	50	200	N
B1NK099A	70	5	N	50	700	1.0	15	N	20	N	15	N	30	500	N
B1NK100C	N	5	N	10	30	N	N	N	N	N	N	N	N	N	N
B1NK101A	N	5	N	10	1,500	7.0	N	N	50	N	10	300	20	150	N
B1NK102A	N	5	N	20	1,500	3.0	N	N	30	N	15	700	30	200	N
B1NK103A	70	10	N	10	700	2.0	N	N	100	N	30	300	30	300	N
B1NK105A	100	50	N	<10	1,000	1.0	N	N	20	<20	20	300	20	300	N
B1NK106A	N	20	N	100	500	5.0	N	N	N	N	5	100	30	100	N
B1NK106B	150	70	N	10	700	1.0	N	N	200	<20	20	300	30	500	N
B1NK108A	150	70	N	10	700	1.0	N	N	100	N	20	100	70	500	N
B1NK109A	70	20	N	<10	700	1.0	N	N	100	20	20	200	30	500	N
B1NK110A	N	5	N	<10	700	7.0	N	N	50	N	15	500	50	200	N
B1NK111A	100	50	N	30	700	7.0	N	N	100	N	20	300	50	300	N
B1NK112A	N	5	N	15	1,500	10.0	N	N	30	N	N	700	15	200	N
B1NK113A	N	5	N	<10	1,000	5.0	N	N	N	N	N	300	20	200	N
B1NK114A	150	100	N	50	700	5.0	N	N	200	N	20	200	50	300	N
B1NK115A	N	5	N	<10	1,500	3.0	N	N	20	N	7	500	10	100	N
B1NK116A	N	5	N	30	1,000	2.0	N	N	30	N	15	1,000	30	300	N
B1NK117A	N	10	N	20	1,000	1.0	N	N	20	N	15	700	20	100	N
B1NK118A	N	5	N	<10	1,000	5.0	N	N	100	N	15	700	30	300	N
B1NK119A	N	5	N	<10	1,000	5.0	N	N	20	N	10	700	30	200	N
B1NK120A	N	5	N	10	1,000	7.0	N	N	50	20	15	300	70	200	N
B1NK121A	N	5	N	<10	1,500	5.0	N	N	30	N	10	300	30	300	N
B1NK122A	N	5	N	<10	1,000	7.0	N	N	300	<20	N	200	70	150	200
B1NK123A	N	5	N	<10	1,000	2.0	N	N	50	N	10	300	30	200	N
B1NK123B	N	5	N	<10	1,500	5.0	N	N	70	N	15	700	20	300	N
B1NK124A	N	5	N	<10	700	5.0	N	N	30	<20	N	300	30	300	N
B1NK125A	N	5	N	<10	700	7.0	N	N	30	<20	5	300	20	150	N
B1NK126C	N	5	N	<10	300	5.0	N	N	50	N	30	300	50	200	N
B1NK127C	N	5	N	<10	70	N	N	N	N	N	N	N	N	N	N
B1NK129A	100	50	N	20	700	3.0	N	N	50	N	20	100	70	300	N
B1NK130C	N	10	N	<10	200	N	N	N	20	N	N	N	N	100	N
B1NK131C	N	50	N	20	1,500	3.0	N	N	70	N	5	300	70	300	N

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
B1NK131D	63 42 13	145 22 52	Quartz vein	15	.07	<.02	.05	.200	50.0
B1NK132A	63 26 9	144 17 18	Shallow granodiorite intrusion	20	5.00	1.00	2.00	.500	700.0
B1NK132D	63 26 9	144 17 18	Altered porphyritic granodiorite	20	3.00	1.00	1.00	.300	500.0
B1NK134C	63 25 15	144 18 18	Quartz-plag-mica schist	18	5.00	1.00	.20	.500	500.0
B1NK135A	63 25 34	144 20 15	Fe-stained schist	18	5.00	1.00	.50	.500	2,000.0
B1NK136B	63 25 11	144 21 28	Schistose quartz monzonite	20	1.00	.15	.70	.100	300.0
B1NK137D	63 22 21	144 23 22	Porphrytic basalt dike	20	7.00	5.00	5.00	1.000	1,500.0
B1NK137E	63 22 21	144 23 22	Altered aplite dike	20	1.00	.10	.50	.100	500.0
B1NK138C	63 24 47	144 13 10	Quartz-mica-garnet schist	15	7.00	1.00	2.00	.500	2,000.0
B1NK139C	63 23 33	144 8 40	Fe-stained basalt dike	20	7.00	10.00	5.00	.700	1,500.0
B1NK140B	63 22 18	144 13 20	Quartz-mica-plagioclase schist	15	7.00	.50	.50	.500	500.0
B1NK144C	63 20 29	144 3 12	Actinolite-quartz-epidote schist	15	10.00	10.00	5.00	.500	1,500.0
B1NK146C	63 19 6	144 9 11	Quartz-carbonate-white mica schist	15	2.00	.50	5.00	.300	700.0
B1NK147B	63 19 23	144 13 58	Carbonate-altered dike	20	7.00	5.00	10.00	.500	2,000.0
B1NK148A	63 19 4	144 18 22	Quartz-mica-plagioclase schist	15	7.00	1.00	.20	.500	700.0
B1NK148C	63 19 4	144 18 22	Quartz vein	15	.10	.05	.05	.007	100.0
B1NK149B	63 19 11	144 20 1	Quartz-white mica schist	15	7.00	1.00	.10	.500	500.0
B1NK150A	63 18 19	144 22 24	Muscovite schist	15	1.00	.20	.07	.150	200.0
B1NK150B	63 18 19	144 22 24	Quartz vein	15	.20	.10	.05	.050	20.0
B1NK151B	63 18 18	144 21 49	Quartz-plagioclase-mica schist	15	5.00	.50	.05	.300	700.0
B1NK151C	63 18 18	144 21 49	Quartz-plagioclase-mica schist	15	5.00	.10	<.05	.300	700.0
B1NK153D	63 15 44	144 26 36	Basalt dike	20	5.00	3.00	2.00	.700	700.0
B1NK153E	63 15 44	144 26 36	Altered rhyodacite dike	20	1.50	.50	1.00	.200	500.0
B1NK154C	63 14 48	144 22 11	Quartz-calcite schist	13	3.00	2.00	7.00	.500	700.0
B1NK154D	63 14 48	144 22 11	Quartz-calcite schist	13	5.00	2.00	1.50	.700	500.0
B1NK154E	63 14 48	144 22 11	Altered diabase	20	1.00	.30	1.50	.150	200.0
B1NK155A	63 16 47	144 21 47	Quartz-plagioclase-mica schist	15	2.00	1.00	.07	.100	300.0
B1NK157A	63 17 23	144 15 12	Quartz-white mica schist	15	1.50	.50	.10	.500	70.0
B1NK157B	63 17 23	144 15 12	Carbonate-altered intermediate dike	20	5.00	2.00	3.00	.500	1,000.0
B1NK157C	63 17 23	144 15 12	Metagabbro	20	5.00	2.00	2.00	.700	1,000.0
B1NK158B	63 17 7	144 11 20	Quartz-white mica schist	15	1.00	.20	.07	.150	200.0
B1NK159A	63 16 3	144 12 4	Quartz-white mica schist	15	2.00	1.00	.07	.150	300.0
B1NK159B	63 16 3	144 12 4	Metagabbro	20	5.00	3.00	3.00	.700	1,000.0
B1NK160A	63 14 59	144 11 50	Quartz-white mica-chlorite schist	15	3.00	.70	.10	.500	300.0
B1NK161A	63 15 25	144 13 28	Schistose metagabbro	15	7.00	1.50	1.50	1.000	1,500.0
B1NK162A	63 14 13	144 13 58	Quartz-white mica schist	15	7.00	5.00	.20	1.000	2,000.0
B1NK162B	63 14 13	144 13 58	Quartz-actinolite schist	15	5.00	1.00	.10	.500	700.0
B1NK162C	63 14 13	144 13 58	Quartz-white mica-chlorite schist	15	5.00	3.00	5.00	.500	1,000.0
B1NK164A	63 13 11	144 16 38	Quartz monzonite	20	5.00	2.00	5.00	.500	2,000.0
B1NK165A	63 9 48	144 16 48	Schistose amphibolite	13	5.00	5.00	5.00	.500	1,000.0
B1NK165B	63 9 48	144 16 48	Schistose amphibolite	13	7.00	2.00	1.00	1.000	1,000.0
B1NK165C	63 9 48	144 16 48	Schistose amphibolite	13	7.00	2.00	1.00	1.000	1,000.0
B1NK166B	63 10 48	144 14 12	Quartz-white mica schist	15	1.00	.30	1.50	.100	150.0
B1NK166C	63 10 48	144 14 12	Schistose metagabbro	20	1.00	.30	1.50	.100	100.0
B1NK167A	63 11 14	144 9 3	Quartz-white mica schist	15	5.00	2.00	3.00	1.000	700.0

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
81NK131D	<5	<5	10	N	30	N	N	N	N	N	N	N	5	10
81NK132A	45	50	15	70	50	N	N	N	5	N	N	N	30	200
81NK132D	10	15	20	70	50	N	N	N	N	N	N	N	15	70
81NK134C	40	150	20	70	55	<200	N	N	N	N	N	N	10	200
81NK135A	<5	5	20	70	90	<200	N	N	N	N	N	N	30	200
81NK136B	N	<5	10	15	30	N	N	N	N	N	N	N	<5	20
81NK137D	20	30	20	30	80	N	N	N	N	N	N	N	50	300
81NK137E	N	<5	35	70	30	N	N	N	N	N	N	N	N	10
81NK138C	40	30	15	70	70	200	N	N	N	N	N	N	30	200
81NK139C	40	50	30	20	70	200	N	N	N	N	N	N	70	300
81NK140B	75	70	10	N	25	<200	N	N	N	N	N	N	10	70
81NK144C	80	100	10	N	20	<200	N	N	N	N	N	N	70	500
81NK146C	10	20	20	30	45	<200	N	N	N	N	N	N	10	70
81NK147B	75	70	30	10	60	<200	N	N	N	N	N	N	50	300
81NK148A	5	30	15	N	40	<200	N	N	N	N	N	N	30	200
81NK148C	N	<5	5	N	N	N	N	N	N	N	N	N	5	10
81NK149B	40	50	15	20	40	N	N	N	N	N	N	N	20	200
81NK150A	15	20	15	20	20	<200	N	N	N	N	N	N	N	10
81NK150B	N	<5	35	70	<5	<200	N	N	N	N	N	N	N	50
81NK151B	15	30	10	N	80	<200	N	N	N	N	N	N	N	10
81NK151C	15	30	15	20	80	<200	N	N	N	N	N	N	15	10
81NK153D	15	15	10	<10	90	<200	N	N	N	N	N	N	30	100
81NK153E	N	<5	30	50	50	N	N	N	N	N	N	N	5	50
81NK154C	45	50	30	<10	70	N	N	N	N	N	N	N	30	100
81NK154D	<5	<5	20	<10	140	N	N	N	N	N	N	N	30	150
81NK154E	N	<5	30	70	45	N	N	N	N	N	N	N	5	50
81NK155A	160	150	35	50	20	N	<.5	N	N	N	N	N	20	30
81NK157A	55	50	25	50	80	<200	.5	N	10	N	N	N	N	300
81NK157B	120	100	25	10	70	N	N	N	N	N	N	N	30	200
81NK157C	110	70	5	<10	30	N	<.5	N	N	N	N	N	50	300
81NK158B	<5	5	N	N	10	N	N	N	N	N	N	N	<5	30
81NK159A	40	20	55	100	140	200	.5	N	N	N	N	N	N	20
81NK159B	20	20	15	15	40	<200	N	N	N	N	N	N	30	200
81NK160A	10	15	15	15	20	N	<.5	N	N	N	N	N	20	100
81NK161A	270	200	30	30	160	200	.5	N	N	N	N	N	50	200
81NK162A	500	500	20	15	70	<200	<.5	N	5	N	15	N	30	150
81NK162B	30	50	15	10	45	N	N	N	N	N	N	N	10	100
81NK162C	100	100	10	10	25	N	N	N	N	N	N	N	50	200
81NK164A	5	15	10	20	50	N	N	N	N	N	N	N	20	70
81NK165A	45	50	10	N	30	N	N	N	N	N	N	N	30	150
81NK165B	10	5	10	N	60	N	N	N	N	N	N	N	30	100
81NK165C	15	7	10	N	70	N	N	N	N	N	N	N	30	200
81NK166B	5	<5	15	15	25	N	N	N	N	N	N	N	N	50
81NK166C	45	<5	20	10	70	N	N	N	N	N	N	N	N	30
81NK167A	60	50	160	10	90	N	<.5	N	N	N	N	N	50	200

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
B1NK131D	N	5	N	<10	20	N	N	N	20	N	N	N	N	N	N
B1NK132A	100	50	N	500	1,500	10.0	N	N	70	<20	15	1,500	50	300	N
B1NK132D	70	20	N	70	1,000	10.0	N	N	20	<20	10	1,000	30	200	N
B1NK134C	150	10	N	200	1,000	3.0	N	N	70	N	20	100	30	500	N
B1NK135A	100	100	N	200	1,000	5.0	N	N	70	N	20	100	50	150	N
B1NK136B	10	<5	N	10	500	2.0	N	N	N	N	7	150	20	100	N
B1NK137D	200	100	N	50	1,000	2.0	N	N	30	<20	30	1,000	70	300	N
B1NK137E	N	5	N	200	100	10.0	N	N	20	<20	N	100	70	200	N
B1NK138C	150	100	N	100	1,000	5.0	N	N	150	<20	30	300	70	200	N
B1NK139C	300	150	N	50	1,000	1.0	N	N	100	<20	30	1,000	50	300	N
B1NK140B	N	5	N	10	500	N	N	N	30	N	30	200	30	300	N
B1NK144C	50	100	N	10	50	N	N	N	N	N	50	300	30	100	N
B1NK146C	50	10	N	70	300	1.0	N	N	20	N	10	300	30	200	N
B1NK147B	500	150	N	70	300	1.0	N	N	N	N	30	300	30	70	N
B1NK148A	150	70	N	70	1,000	3.0	N	N	100	<20	20	N	50	200	N
B1NK148C	N	5	N	<10	20	N	N	N	N	N	N	N	N	N	N
B1NK149B	150	20	N	100	1,000	3.0	N	N	200	<20	20	N	100	200	N
B1NK150A	N	5	N	20	300	2.0	N	N	20	N	10	N	30	200	N
B1NK150B	N	5	N	<10	700	1.0	N	N	N	N	N	N	N	N	N
B1NK151B	N	5	N	20	1,500	5.0	N	N	20	N	20	N	50	300	N
B1NK151C	N	5	N	10	1,000	2.0	N	N	N	N	20	N	50	300	N
B1NK153D	150	50	N	<10	700	1.0	N	N	N	N	20	500	20	200	N
B1NK153E	30	7	N	300	1,000	5.0	N	N	50	N	7	500	15	100	N
B1NK154C	200	70	N	100	100	<1.0	N	N	N	N	15	500	10	50	N
B1NK154D	100	70	N	50	100	<1.0	N	N	N	N	15	200	20	70	N
B1NK154E	30	7	N	200	700	3.0	N	N	50	N	7	500	<10	150	N
B1NK155A	20	10	N	<10	30	N	N	N	N	N	5	N	N	100	N
B1NK157A	150	5	N	70	2,000	2.0	N	N	30	<20	15	N	30	200	N
B1NK157B	150	70	N	100	500	<1.0	N	N	N	N	20	300	20	100	N
B1NK157C	100	50	N	20	5,000	<1.0	N	N	N	N	30	300	30	100	N
B1NK158B	20	10	N	N	200	N	N	N	N	N	<5	N	<10	300	N
B1NK159A	N	5	N	30	3,000	2.0	N	N	20	N	15	N	20	200	N
B1NK159B	200	100	N	10	1,000	<1.0	N	N	N	N	30	500	20	150	N
B1NK160A	100	30	N	50	500	5.0	N	N	50	N	20	N	30	150	N
B1NK161A	N	7	N	<10	700	1.0	N	N	30	N	50	200	50	200	N
B1NK162A	150	100	N	<10	150	<1.0	N	N	30	20	20	N	20	100	N
B1NK162B	100	30	N	50	1,000	5.0	N	N	30	N	15	N	20	150	N
B1NK162C	200	100	N	<10	150	<1.0	N	N	N	N	30	500	20	70	N
B1NK164A	20	15	N	20	1,000	2.0	N	N	100	N	10	1,000	30	150	N
B1NK165A	150	70	N	10	700	1.0	N	N	N	N	30	200	20	150	N
B1NK165B	N	N	N	10	500	1.5	N	N	30	<20	20	200	50	150	N
B1NK165C	N	<5	N	10	300	1.5	N	N	50	20	20	300	30	200	N
B1NK166B	<10	7	N	10	700	2.0	N	N	50	N	5	100	20	70	N
B1NK166C	10	5	N	15	1,000	2.0	N	N	N	N	5	200	15	70	N
B1NK167A	200	150	N	<10	300	<1.0	N	N	N	N	30	200	50	150	N

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
B1NK168A	63 13 5	144 9 15	Quartz-white mica schist	15	7.00	.30	.05	.300	150.0
B1NK169A	63 14 12	144 8 12	Quartz-white mica schist	15	3.00	1.50	.05	.200	200.0
B1NK169B	63 14 12	144 8 12	Quartz-white mica schist	15	3.00	.70	.70	.200	500.0
B1NK169C	63 14 12	144 8 12	Schistose metagabbro	20	5.00	2.00	2.00	.500	1,000.0
B1NK171A	63 16 14	144 5 58	Actinolite-quartz-epidote schist	15	5.00	3.00	5.00	.500	1,000.0
B1NK172B	63 16 1	144 2 29	Quartz-white mica schist	15	2.00	.20	1.50	.150	2,000.0
B1NK173A	63 16 44	144 4 22	Actinolite-quartz-epidote schist	15	5.00	3.00	5.00	.300	1,500.0
B1NK173B	63 16 11	144 4 32	Metagabbro	20	5.00	5.00	5.00	.500	1,000.0
B1NK174A	63 16 31	144 0 10	Metagabbro	20	5.00	3.00	5.00	.300	1,000.0
B1NK176A	63 11 27	144 12 40	Quartz-white mica-chlorite schist	15	3.00	.50	.50	.200	700.0
B1NK176B	63 11 27	144 12 40	Quartz-white mica-chlorite schist	15	1.00	.20	.10	.100	300.0
B1NK176C	63 11 27	144 12 40	Quartz-white mica schist	15	3.00	1.00	.05	.300	700.0
B1NK176D	63 11 27	144 12 40	Quartz-white mica-chlorite schist	15	2.00	.70	.05	.200	500.0
B1NK177B	63 12 15	144 11 26	Quartz-white mica-chlorite schist	15	2.00	.50	<.05	.150	700.0
B1NK177C	63 12 15	144 11 26	Quartz vein	15	2.00	.10	<.05	.015	200.0
B1NK178A	63 12 41	144 10 34	Quartz-white mica schist	15	1.00	.50	.05	.150	200.0
B1NK178B	63 12 41	144 10 34	Schistose metagabbro	20	10.00	3.00	3.00	.500	2,000.0
B1NK178D	63 12 41	144 10 34	Altered metagabbro	20	5.00	.30	1.00	.150	1,500.0
B1NK179A	63 11 8	144 4 40	Schistose metagabbro	20	5.00	2.00	3.00	.700	2,000.0
B1NK180A	63 11 8	144 6 2	Quartz-kspar-white mica schist	15	1.50	.30	<.05	.070	200.0
B1NK181B	63 9 50	144 7 36	Quartz-white mica-chlorite schist	15	2.00	.30	.05	.200	150.0
B1NK184A	63 14 18	144 8 50	Quartz vein	15	10.00	2.00	.05	.100	700.0
B1NK184B	63 14 18	144 8 50	Quartz-chlorite schist	15	5.00	3.00	.30	.300	2,000.0
B1NK184C	63 14 18	144 8 50	Quartz-chlorite schist	15	5.00	3.00	1.00	.300	2,000.0
B1NK184D	63 14 18	144 8 50	Quartz-chlorite schist	15	5.00	3.00	<.05	.150	1,000.0
B1NK184E	63 14 18	144 8 50	Metagabbro	20	7.00	5.00	2.00	.300	2,000.0
B1NK184F	63 14 18	144 8 50	Quartz-white mica schist	15	1.50	.30	.05	.150	300.0
B1NK185A	63 22 9	144 45 12	Quartz-white mica-chlorite schist	15	5.00	1.50	.15	.300	1,000.0
B1NK186A	63 20 28	144 47 29	Garnet-white mica quartzite	15	1.00	.30	.20	.150	300.0
B1NK186B	63 20 28	144 47 29	Quartz vein	15	.70	.20	.20	.020	500.0
B1NK188B	63 17 55	144 51 10	Metagabbro	20	3.00	3.00	2.00	.300	1,000.0
B1NK188C	63 17 55	144 51 10	Quartz vein	15	.50	.10	.20	.050	500.0
B1NK189C	63 19 23	144 53 13	Quartz monzonite	20	7.00	2.00	3.00	.700	1,500.0
B1NK190A	63 16 30	144 51 46	Mylonitic quartzite	13	1.50	.70	.20	.100	500.0
B1NK190C	63 16 30	144 51 46	Hornblende metagabbro	13	7.00	3.00	1.50	1.000	2,000.0
B1NK190E	63 16 30	144 51 46	Quartz vein	13	.20	.07	.70	.020	500.0
B1NK191B	63 17 13	144 47 31	Quartz-white mica schist	13	1.00	.20	.05	.100	30.0
B1NK192A	63 17 45	144 41 10	Quartz-white mica schist	15	1.50	.50	.20	.200	300.0
B1NK192B	63 17 45	144 41 10	Marble	15	1.50	1.00	20.00	.300	300.0
B1NK193A	63 19 28	144 39 16	Quartz-chlorite-carbonate schist	15	1.50	.30	.20	.100	200.0
B1NK193D	63 19 28	144 39 16	Carbonate-altered lamprophyre	20	3.00	3.00	1.00	.200	700.0
B1NK195B	63 19 34	144 59 33	Quartz-plag-white mica schist	15	1.00	.20	.50	.200	500.0
B1NK196B	63 18 26	144 57 57	Quartz-white mica phyllite	13	.50	.15	.15	.100	50.0
B1NK198A	63 22 24	144 54 54	Quartz-white mica-chlorite schist	15	1.00	.30	.05	.200	300.0
B1NK199B	63 18 57	145 0 6	Quartz vein	15	.20	.10	.20	.020	200.0

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
B1NK168A	10	70	20	100	85	<200	.5	N	N	N	<10	N	50	100
B1NK169A	5	5	10	10	30	N	N	N	N	N	N	N	N	100
B1NK169B	5	7	30	30	45	N	<.5	N	N	N	N	N	10	100
B1NK169C	170	100	15	10	45	N	N	N	N	N	N	N	30	200
B1NK171A	40	20	10	<10	20	N	N	N	N	N	N	N	50	150
B1NK172B	N	N	35	30	55	N	N	N	N	N	N	N	5	70
B1NK173A	85	70	15	<10	25	N	N	N	N	N	N	N	50	200
B1NK173B	60	50	10	<10	20	N	N	N	N	N	N	N	50	200
B1NK174A	40	30	5	<10	15	N	.5	N	N	N	N	N	50	150
B1NK176A	30	15	10	N	55	N	N	N	N	N	N	N	10	100
B1NK176B	N	<5	5	N	10	N	N	N	N	N	N	N	N	30
B1NK176C	60	30	15	10	40	N	N	N	N	N	N	N	5	100
B1NK176D	95	50	15	<10	40	N	N	N	N	N	N	N	20	100
B1NK177B	15	20	30	30	60	N	<.5	N	N	N	N	N	10	70
B1NK177C	180	50	20	<10	20	N	N	N	N	N	N	N	10	<10
B1NK178A	25	15	5	N	40	N	<.5	N	N	N	N	N	N	150
B1NK178B	450	500	15	<10	50	N	<.5	N	N	N	N	N	70	300
B1NK178D	65	70	25	20	65	N	.5	N	20	N	10	N	10	10
B1NK179A	25	20	10	10	50	N	N	N	<5	N	N	N	20	200
B1NK180A	260	150	70	100	190	300	.7	N	N	N	N	N	N	<10
B1NK181B	20	10	5	N	40	N	N	N	N	N	N	N	5	50
B1NK184A	110,000	>20,000	530	300	1,600	3,000	70.0	500	N	N	50	N	100	50
B1NK184B	3,200	3,000	430	300	600	700	5.0	N	N	N	N	N	70	50
B1NK184C	2,400	2,000	75	100	260	200	2.0	N	N	N	20	N	30	70
B1NK184D	170	150	25	20	130	200	N	N	N	N	<10	N	10	<10
B1NK184E	35	50	25	20	50	N	N	N	N	N	N	N	30	150
B1NK184F	10	15	5	N	15	N	N	N	N	N	N	N	N	30
B1NK185A	5	7	50	150	80	N	N	N	N	N	N	N	30	100
B1NK186A	10	7	5	20	10	N	N	N	N	N	N	N	5	70
B1NK186B	<5	<5	5	N	15	N	N	N	N	N	N	N	<5	10
B1NK188B	50	50	35	30	80	N	N	N	N	N	N	N	30	150
B1NK188C	25	30	25	20	10	N	N	N	N	N	N	N	N	<10
B1NK189C	260	150	10	<10	40	N	N	N	N	N	N	N	30	200
B1NK190A	30	20	5	N	10	N	N	N	N	N	N	N	N	70
B1NK190C	100	150	15	N	55	<200	N	N	N	N	N	N	50	300
B1NK190E	<5	<5	10	<10	10	N	N	N	N	N	N	N	N	<10
B1NK191B	5	5	10	<10	60	N	.7	N	N	N	N	N	N	300
B1NK192A	N	N	5	<10	10	N	N	N	N	N	N	N	<5	100
B1NK192B	10	<5	45	<10	15	N	N	N	N	N	N	N	10	70
B1NK193A	<5	<5	5	<10	15	N	N	N	N	N	N	N	10	10
B1NK193D	40	30	20	10	50	N	N	N	N	N	N	N	30	100
B1NK195B	10	10	20	20	25	N	N	<200	N	N	N	N	5	20
B1NK196B	<5	<5	5	<10	5	N	N	N	N	N	N	N	N	10
B1NK198A	5	5	5	10	30	N	N	N	N	N	N	N	<5	50
B1NK199B	<5	<5	5	N	10	N	N	N	N	N	N	N	N	<10

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
81NK168A	50	70	N	50	700	2.0	N	N	30	N	10	N	20	70	N
81NK169A	20	<5	N	20	300	1.5	N	N	N	N	20	N	15	100	N
81NK169B	20	5	N	50	500	1 5	N	N	50	N	15	100	20	100	N
81NK169C	50	70	N	10	500	1.0	N	N	N	N	20	300	20	100	N
81NK171A	200	100	N	10	20	N	N	N	N	N	30	300	20	50	N
81NK172B	30	10	N	100	200	1.0	N	N	30	N	7	N	20	200	N
81NK173A	300	70	N	10	30	<1.0	N	N	N	N	30	200	20	70	N
81NK173B	500	100	N	10	<20	<1.0	N	N	N	N	30	200	20	50	N
81NK174A	500	100	N	<10	20	N	N	N	N	N	30	200	15	50	N
81NK176A	<10	5	N	15	200	1 0	N	N	30	N	20	100	20	150	N
81NK176B	20	10	N	15	150	<1.0	N	N	N	N	5	N	<10	200	N
81NK176C	70	7	N	100	1,000	3.0	N	N	<20	N	20	N	15	100	N
81NK176D	50	20	N	50	1,000	2.0	N	N	50	N	10	N	20	200	N
81NK177B	20	10	N	30	200	1.5	N	N	N	N	7	N	10	100	N
81NK177C	<10	15	N	10	50	N	N	N	N	N	N	N	N	<10	N
81NK178A	30	10	N	50	5,000	1.0	N	N	N	N	7	N	10	70	N
81NK178B	N	20	N	50	150	<1.0	N	N	N	N	30	<100	15	50	N
81NK178D	10	<5	N	50	3,000	3.0	N	N	50	N	<5	700	20	200	N
81NK179A	30	<5	N	<10	700	<1.0	N	N	N	N	30	500	50	150	N
81NK180A	N	<5	N	15	5,000	1.5	N	N	N	N	10	N	30	200	N
81NK181B	70	20	N	30	1,000	1.0	N	N	N	N	7	N	15	300	N
81NK184A	50	50	N	<10	N	N	50	70	N	N	7	N	N	30	N
81NK184B	150	70	N	<10	20	<1.0	20	<20	N	N	10	N	<10	70	N
81NK184C	200	100	N	<10	N	<1.0	<10	<20	N	N	10	N	10	70	N
81NK184D	<10	5	N	<10	N	<1.0	N	N	20	N	15	N	20	150	N
81NK184E	500	30	N	10	1,500	<1.0	N	N	<20	N	20	700	20	50	N
81NK184F	20	5	N	20	300	1.0	N	N	<20	N	5	N	10	100	N
81NK185A	100	30	N	100	700	3.0	<10	N	50	N	20	<100	20	150	N
81NK186A	20	<5	N	50	200	1.5	N	N	N	N	7	100	20	200	N
81NK186B	<10	10	N	10	70	N	N	N	N	N	N	N	N	15	N
81NK188B	200	150	N	<10	1,500	2 0	N	N	20	N	15	700	20	100	N
81NK188C	10	<5	N	10	50	N	N	N	N	N	N	N	N	50	N
81NK189C	300	70	N	<10	70	1.0	N	N	N	N	30	200	30	70	N
81NK190A	20	20	N	<10	3,000	<1.0	N	N	N	N	7	N	<10	50	N
81NK190C	70	50	N	10	1,000	<1.0	N	N	N	N	30	100	50	100	N
81NK190E	<10	<5	N	<10	<20	<1.0	N	N	N	N	7	<100	<10	<10	N
81NK191B	50	15	N	50	1,000	<1.0	N	N	N	N	7	N	15	70	N
81NK192A	10	5	N	50	5,000	1.5	N	N	150	N	20	N	30	200	N
81NK192B	300	20	N	N	200	<1.0	N	N	N	N	10	1,000	10	50	N
81NK193A	15	<5	N	10	100	N	N	N	N	N	N	N	15	300	N
81NK193D	700	500	N	20	1,000	2 0	N	N	N	N	15	300	15	100	N
81NK195B	20	15	N	30	150	<1.0	N	N	N	N	<5	<100	15	500	N
81NK196B	15	5	N	15	300	<1 0	N	N	N	N	<5	N	<10	200	N
81NK198A	20	10	N	30	300	1 5	N	N	<20	N	5	N	10	200	N
81NK199B	N	N	N	<10	70	N	N	N	N	N	N	N	N	20	N

TABLE 5 ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
81NK200A	63 22 48	144 54 46	Quartz-calcite-white mica schist	15	1.00	.20	.10	.150	300.0
81NK201B	63 23 22	144 56 18	Quartz-white mica-chlorite schist	15	5.00	.70	1.50	.200	300.0
81NK201D	63 23 22	144 56 18	Quartz vein	15	.20	.10	.10	.030	200.0
81NK202A	63 15 2	144 5 36	Quartz-chlorite-carbonate schist	15	5.00	2.00	.30	.500	1,000.0
81NK202B	63 15 2	144 5 36	Quartz-rich pebbly phyllite	15	2.00	.30	.10	.100	500.0
81NK202C	63 15 2	144 5 36	Carbonate-altered lamprophyre	15	3.00	2.00	5.00	.200	1,000.0
81NK203B	63 15 25	144 31 58	Quartz-white mica schist	13	1.00	.15	.05	.150	100.0
81NK203D	63 15 25	144 31 58	Quartz vein	13	.70	.15	.05	.070	150.0
81NK204A	63 13 53	144 33 50	Quartz-plag-carbonate phyllite	20	5.00	2.00	2.00	.700	1,000.0
81NK205C	63 14 2	144 29 55	Quartz-calcite schist	13	2.00	3.00	2.00	.300	700.0
81NK206A	63 12 31	144 26 10	Quartz-chlorite schist	13	5.00	2.00	1.50	1.000	1,000.0
81NK206B	63 12 31	144 26 10	Quartz-chlorite schist	13	5.00	3.00	1.50	1.000	1,000.0
81NK206C	63 12 31	144 26 10	Quartz-graphite vein	13	5.00	2.00	1.50	.700	1,000.0
81NK207A	63 12 2	144 20 54	Quartz-biotite-kspar schist	13	5.00	1.50	.15	.500	3,000.0
81NK208A	63 14 4	144 21 0	Quartz-white mica schist	13	3.00	2.00	.20	.500	1,000.0
81NK209A	63 17 30	144 30 6	Quartz-white mica-chlorite schist	15	5.00	1.00	<.05	.300	500.0
81NK210A	63 17 25	144 35 0	Quartz-white mica schist	13	1.50	.20	.07	.100	200.0
81NK211A	63 15 38	144 47 38	Quartz-chlorite-calcite schist	13	5.00	3.00	1.00	1.000	1,000.0
81NK211B	63 15 38	144 47 38	Mylonitic graphitic quartzite	13	1.00	.15	.30	.100	50.0
81NK211C	63 15 38	144 47 38	Calcite-quartz schist	13	3.00	.50	10.00	.200	700.0
81NK212A	63 15 40	144 49 18	Mylonitic white mica quartzite	11	3.00	.70	.10	.300	500.0
81NK213A	63 32 35	144 55 15	Quartz-mica-garnet schist	15	3.00	.70	.10	.300	500.0
81NK214B	63 31 50	144 56 14	Quartz-biotite schist	15	1.50	.15	.30	.070	200.0
81NK216A	63 30 34	145 2 15	Quartz-white mica-chlorite schist	15	1.50	.20	1.00	.100	700.0
81NK218B	63 29 15	145 0 5	Quartz-albite-mica-garnet schist	15	2.00	.50	.20	.200	500.0
81NK220C	63 25 0	144 44 3	Carbonate-altered lamprophyre	20	5.00	2.00	2.00	.300	700.0
81NK222C	63 27 54	144 46 3	Quartz-biotite-chlorite schist	15	2.00	.50	.15	.200	500.0
81NK223A	63 25 8	144 49 36	Quartz-mica-garnet schist	15	5.00	2.00	.05	.500	300.0
81NK225B	63 14 13	144 8 12	Quartz-white mica-chlorite schist	15	7.00	.20	<.05	.150	70.0
81NK225C	63 14 13	144 8 12	Quartz vein	15	.50	.05	N	.070	N
81NK226C	63 35 46	146 13 32	Quartz-chlorite-muscovite schist	15	2.00	.50	.20	.200	200.0
81NK226D	63 35 46	146 13 32	Carbonate schist with m.s.	15	5.00	.50	20.00	.010	>5,000.0
81NK226E	63 35 46	146 13 32	Massive sulfide	15	20.00	.15	.20	.020	700.0
81NK226F	63 35 46	146 13 32	Massive sulfide in quartz schist	15	>20.00	.30	.30	.020	700.0
81NK226G	63 35 46	146 13 32	Chlorite-biotite-quartz schist	15	7.00	.30	10.00	.030	5,000.0
81NK228A	63 37 11	146 25 42	Quartz-biotite schist	14	2.00	.50	.20	.150	300.0
81NK228D	63 37 11	146 25 42	Amphibolite	14	10.00	3.00	7.00	.500	1,000.0
81NK228E	63 37 11	146 25 42	Fe-stained schist	14	10.00	3.00	5.00	.300	1,500.0
81NK229C	63 37 15	146 25 53	Quartz vein	14	10.00	.70	.20	.070	500.0
81NK230A	63 37 26	146 30 5	Graphite-quartz-carbonate schist	13	3.00	.20	.10	.200	200.0
81NK230D	63 37 26	146 30 5	Graphite-quartz-carbonate schist	13	2.00	.70	.30	.200	2,000.0
81NK231B	63 37 26	146 32 57	Metaquartz andesite	13	2.00	1.00	.30	.150	300.0
81NK233A	63 42 51	146 45 22	Metarhyodacite	15	5.00	1.50	.10	.300	1,000.0
81NK234A	63 38 53	144 48 50	Biotite quartzite	18	1.50	.30	.50	.100	500.0
81NK235A	63 15 56	144 13 36	Quartz-kspar-plag-mica schist	15	1.00	.20	.20	100	200.0

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Bn	S-Sb	S-Co	S-V
81NK200A	5	5	5	<10	25	N	N	N	N	N	N	N	7	30
81NK201B	30	20	5	N	15	N	N	N	N	N	N	N	10	100
81NK201D	<5	N	15	20	5	N	N	N	N	N	N	N	N	<10
81NK202A	20	20	45	50	110	<200	<.5	N	N	N	N	N	15	100
81NK202B	20	10	<5	N	55	N	N	N	N	N	N	N	N	10
81NK202C	15	10	25	15	65	N	N	N	N	N	N	N	20	150
81NK203B	10	7	20	15	50	N	.5	N	7	N	N	N	N	200
81NK203D	5	<5	15	<10	15	N	<.5	N	N	N	N	N	N	15
81NK204A	25	15	5	N	45	N	N	N	N	N	N	N	20	300
81NK205C	30	20	20	N	50	N	N	N	N	N	N	N	30	100
81NK206A	40	30	45	50	125	<200	<.5	N	N	N	N	N	20	200
81NK206B	5	5	10	10	50	N	7.0	N	N	N	N	N	20	200
81NK206C	15	7	20	20	80	N	N	N	N	N	N	N	15	200
81NK207A	65	70	20	20	95	N	N	N	N	N	N	N	15	100
81NK208A	25	20	35	50	90	<200	N	N	N	N	N	N	20	100
81NK209A	40	30	20	20	80	N	N	N	N	N	N	N	20	100
81NK210A	45	20	10	<10	25	N	N	N	N	N	N	N	15	15
81NK211A	50	50	10	<10	80	<200	<.5	N	N	N	N	N	50	200
81NK211B	45	20	10	15	1,500	1,000	3.0	N	30	N	N	N	N	1,000
81NK211C	30	30	15	10	45	N	<.5	N	N	N	N	N	30	150
81NK212A	10	15	10	20	60	N	N	N	N	N	N	N	20	150
81NK213A	10	10	15	70	65	N	N	N	N	N	<10	N	10	150
81NK214B	30	20	5	20	15	N	N	N	10	N	10	N	N	10
81NK216A	10	5	10	<10	30	N	N	N	N	N	N	N	5	30
81NK218B	15	15	5	30	45	N	N	N	N	N	N	N	5	100
81NK220C	70	50	20	<10	55	N	N	N	<5	N	N	N	30	200
81NK222C	10	10	5	10	30	N	N	N	N	N	N	N	7	100
81NK223A	25	30	10	30	35	N	<.5	N	<5	N	10	N	5	200
81NK225B	5,000	5,000	500	500	450	700	15.0	N	50	N	30	N	10	70
81NK225C	75	50	700	700	10	N	2.0	N	N	N	N	N	N	20
81NK226C	65	50	50	50	250	200	1.0	N	10	N	N	N	10	200
81NK226D	200	150	2,500	2,000	2,000	5,000	50.0	N	N	N	N	N	30	10
81NK226E	2,000	2,000	200	100	250	200	3.0	N	N	N	20	N	50	<10
81NK226F	1,750	2,000	40	30	40	N	1.0	N	<5	N	N	N	150	10
81NK226G	2,500	3,000	45	30	40	N	1.0	N	N	N	50	N	30	20
81NK228A	50	100	15	<10	50	N	<.5	N	N	N	N	N	7	100
81NK228D	500	300	35	10	40	N	.7	N	7	N	N	N	50	200
81NK228E	500	300	25	<10	20	<200	2.0	N	<5	N	N	N	50	200
81NK229C	20	20	100	100	75	<200	5.0	N	N	N	N	N	30	70
81NK230A	250	150	40	30	425	500	2.0	N	30	N	N	N	7	500
81NK230D	75	70	15	15	85	N	1.0	N	N	N	N	N	30	150
81NK231B	45	50	20	20	60	N	<.5	N	N	N	N	N	7	100
81NK233A	5	10	30	50	75	N	N	N	N	N	<10	N	10	70
81NK234A	<5	<5	15	20	25	N	N	N	N	N	N	N	5	70
81NK235A	<5	15	20	15	5	N	N	N	N	N	N	N	N	10

TABLE 5 ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
B1NK200A	20	10	N	70	200	1.0	N	N	30	N	7	N	20	300	N
B1NK201B	15	<5	N	<10	150	1.5	N	N	30	N	20	300	20	150	N
B1NK201D	<10	N	N	<10	50	N	N	N	N	N	N	N	N	30	N
B1NK202A	10	5	N	20	500	1.5	N	N	N	N	20	<100	20	100	N
B1NK202B	N	<5	N	10	70	1.0	N	N	20	N	10	N	20	150	N
B1NK202C	300	20	N	70	1,000	1.5	N	N	N	N	20	1,000	20	100	N
B1NK203B	20	10	N	20	500	1.5	N	N	N	N	5	N	10	100	N
B1NK203D	10	5	N	20	100	<1.0	N	N	N	N	N	N	<10	70	N
B1NK204A	50	10	N	15	1,000	1.0	N	N	N	N	30	150	20	100	N
B1NK205C	500	200	N	70	1,000	1.5	N	N	N	N	15	200	15	70	N
B1NK206A	10	5	N	10	300	1.5	N	N	N	<20	30	100	20	200	N
B1NK206B	20	30	N	50	500	2.0	N	N	N	N	30	N	30	300	N
B1NK206C	N	5	N	<10	500	1.0	N	N	N	N	20	200	20	100	N
B1NK207A	100	50	N	50	700	2.0	N	N	100	N	20	N	20	150	N
B1NK208A	150	70	N	50	1,000	3.0	N	N	30	N	20	N	15	150	N
B1NK209A	70	50	N	150	1,000	3.0	N	N	50	N	20	N	20	100	N
B1NK210A	15	<5	N	20	70	1.0	N	N	N	N	5	N	10	500	N
B1NK211A	50	50	N	10	500	1.0	N	N	N	N	30	200	20	200	N
B1NK211B	20	100	N	15	5,000	1.0	N	30	N	N	<5	N	15	50	N
B1NK211C	200	70	N	15	3,000	<1.0	N	N	N	N	15	500	15	70	N
B1NK212A	500	50	N	100	1,000	2.0	N	N	50	N	20	200	20	150	N
B1NK213A	70	30	N	70	700	2.0	N	N	100	N	15	<100	50	200	N
B1NK214B	<10	N	N	10	100	5.0	N	N	100	70	<5	200	50	500	N
B1NK216A	15	5	N	50	300	1.5	N	N	N	N	5	200	10	150	N
B1NK218B	50	7	N	20	500	3.0	N	N	50	N	10	200	20	150	N
B1NK220C	500	70	N	200	200	2.0	N	N	N	N	20	200	20	100	N
B1NK222C	50	20	N	10	300	1.5	N	N	N	N	10	N	15	200	N
B1NK223A	200	7	N	100	1,000	2.0	N	N	N	<20	30	100	20	200	N
B1NK225B	30	10	N	20	3,000	1.5	50	N	20	N	5	N	N	100	N
B1NK225C	<10	5	N	30	2,000	2.0	N	N	N	N	N	N	<10	50	N
B1NK226C	70	50	N	30	3,000	2.0	N	N	N	N	10	N	20	150	N
B1NK226D	N	15	N	N	30	N	70	70	N	N	N	500	30	N	N
B1NK226E	N	10	N	N	<20	N	N	N	N	N	N	N	N	20	N
B1NK226F	N	15	N	N	<20	N	10	N	N	N	N	N	N	20	N
B1NK226G	10	10	N	N	N	1.0	20	N	N	N	N	300	10	10	N
B1NK228A	30	30	N	20	1,000	1.0	N	N	N	N	10	200	15	70	N
B1NK228D	300	100	N	<10	300	1.0	N	N	N	N	20	700	<10	50	N
B1NK228E	200	100	N	<10	100	1.0	N	N	<20	N	30	200	50	150	N
B1NK229C	20	50	N	10	700	1.0	<10	N	N	N	7	500	N	10	N
B1NK230A	50	100	N	200	3,000	2.0	N	20	N	N	15	<100	30	100	N
B1NK230D	20	50	N	100	1,500	1.5	N	N	N	N	15	300	15	100	N
B1NK231B	70	30	N	10	150	1.5	N	N	N	N	10	300	15	50	N
B1NK233A	50	15	N	15	1,000	1.0	N	N	50	<20	10	N	20	200	N
B1NK234A	N	<5	N	15	700	1.5	N	N	N	N	10	300	15	200	N
B1NK235A	N	<5	N	10	5,000	1.5	N	N	50	N	7	150	20	150	N

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
81NK235B	63 15 56	144 13 36	Quartz-kspar-plag-mica schist	15	.50	.10	.20	.070	100.0
81NK235C	63 15 56	144 13 36	Quartz-kspar-plag-mica schist	15	1.00	.30	.07	.050	300.0
81NK235D	63 15 56	144 13 36	Metagabbro	20	5.00	3.00	5.00	.500	1,500.0
81NK236A	63 19 27	144 24 8	Quartz-mica-plag schist	15	.70	.20	.30	.150	150.0
81NK236B	63 19 27	144 24 8	Quartz-mica-plag schist	15	5.00	5.00	.20	.200	1,000.0
81NK236C	63 19 27	144 24 8	Metarhyolite	15	3.00	.50	1.00	.500	500.0
81NK236D	63 19 27	144 24 8	Gossan	15	5.00	.05	.05	.015	50.0
81NK237A	63 15 32	144 47 0	Metaquartz andesite porphyry	13	2.00	.50	.30	.150	500.0
81NK237B	63 15 32	144 47 0	Mylonitic graphitic quartzite	13	3.00	1.00	.70	.150	300.0
81NK237C	63 15 32	144 47 0	Metaquartz andesite porphyry	13	1.00	.50	.20	.150	150.0
81NK237E	63 15 32	144 47 0	Argillite	13	1.50	.30	.30	.100	100.0
81NK237F	63 15 32	144 47 0	Metarhyodacite porphyry	13	2.00	.70	1.00	.100	200.0
81NK238C	63 8 46	144 3 52	Quartz-chlorite schist	15	2.00	.30	.15	.200	200.0
81NK238D	63 8 46	144 3 52	Quartz-white mica schist	15	1.50	.70	.05	.200	200.0
81NK242A	63 23 30	144 13 56	Quartz-carbonate-mica schist	15	1.00	.50	.70	.100	700.0
81NK243A	63 25 31	144 11 22	Quartz-mica-garnet schist	15	3.00	1.50	.20	.200	500.0
81NK244B	63 13 58	144 4 10	Quartz schist	15	3.00	2.00	1.50	.200	1,000.0
81NK245A	63 13 6	144 0 48	Quartz-white mica-chlorite schist	15	2.00	.50	.20	.150	200.0
81NK245B	63 13 6	144 0 48	Altered lamprophyre dike	20	3.00	.50	.15	.200	1,000.0
81NK246B	63 8 0	144 6 0	Schistose metaandesite	13	2.00	.50	.10	.150	700.0
81NK246C	63 8 0	144 6 0	Quartz vein	13	1.50	10	1.00	.100	700.0
81NK247A	63 9 0	144 1 14	Quartzite	15	.70	.10	<.05	.050	100.0
81NK248A	63 9 22	144 2 0	Quartzite	15	1.50	.02	<.05	.010	50.0
81NK248B	63 9 22	144 2 0	Quartz vein	15	1.50	.10	<.05	.020	70.0
81RM001A	63 40 5	144 5 8	Altered felsic dike	20	1.00	.15	.20	.100	500.0
81RM001B	63 40 5	144 5 8	Rhyodacite dike	20	1.50	.30	.20	.150	700.0
81RM002A	63 40 10	144 5 42	Quartz vein	20	.50	.03	<.05	.030	150.0
81RM003A	63 39 50	144 6 38	Rhyodacite dike	20	.70	.07	.07	.050	150.0
81RM004A	63 56 12	144 1 10	Schistose quartz monzonite	20	1.50	.30	1.00	.200	700.0
81RM004B	63 56 12	144 1 10	Dacite porphyry dike	20	3.00	1.00	1.50	.300	1,000.0
81RM004C	63 56 12	144 1 10	Quartz vein	20	<.05	.02	<.05	.010	20.0
81RM005A	63 56 2	144 1 58	Granodiorite	20	5.00	1.00	.15	.500	3,000.0
81RM006B	63 56 5	144 3 4	Granodiorite	20	2.00	1.00	2.00	.200	1,000.0
81RM006C	63 56 5	144 3 4	Quartz monzonite dike	20	1.50	.30	1.00	.150	500.0
81RM007A	63 55 46	144 3 38	Quartz-white mica schist	19	3.00	1.00	.10	.300	2,000.0
81RM009B	63 39 1	144 46 16	Mylonite	18	2.00	1.00	5.00	.200	150.0
81RM010B	63 39 11	144 45 23	Mylonitic quartz monzonite	20	1.00	.20	.30	.100	500.0
81RM012A	63 38 16	144 43 40	Schistose quartz monzonite	20	1.00	.30	.50	.150	700.0
81RM018A	63 36 5	144 14 45	Granodiorite	20	2.00	1.00	1.00	.200	1,000.0
81RM018B	63 36 5	144 14 45	Dacite dike	20	1.50	.50	.50	.200	700.0
81RM019A	63 36 40	144 14 28	Porphyritic quartz monzonite	20	.70	10	.10	.100	100.0
81RM023D	63 27 23	144 24 51	Schistose amphibolite	18	5.00	3.00	3.00	1.000	1,000.0
81RM024A	63 27 22	144 24 22	Aplite dike	20	.50	.15	.05	.030	70.0
81RM025B	63 27 30	144 23 44	Quartz-pyroxene-graphite schist	18	2.00	2.00	2.00	200	2,000.0
81RM026A	63 27 22	144 22 23	Quartz-biotite-cordierite schist	18	.70	.10	.10	.070	200.0

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
B1NK235B	5	<5	15	<10	15	N	N	N	N	N	N	N	N	10
B1NK235C	<5	N	15	<10	45	N	N	N	N	N	N	N	N	10
B1NK235D	250	150	20	10	35	N	N	N	N	N	N	N	50	200
B1NK236A	<5	<5	20	20	10	N	N	N	<5	N	N	N	<5	50
B1NK236B	<5	N	20	N	60	N	N	N	N	N	N	N	30	100
B1NK236C	<5	<5	15	15	70	N	N	N	N	N	N	N	10	200
B1NK236D	210	200	14,000	15,000	130	200	100.0	2,000	30	N	300	3,000	N	15
B1NK237A	5	7	20	20	50	N	N	N	N	N	N	N	7	100
B1NK237B	5	<5	25	20	30	N	N	N	N	N	N	N	5	70
B1NK237C	5	<5	10	10	30	N	N	N	N	N	N	N	5	100
B1NK237E	30	30	20	15	100	<200	.7	N	10	N	N	N	<5	200
B1NK237F	5	<5	15	<10	35	N	N	N	N	N	N	N	<5	50
B1NK238C	10	5	15	10	30	N	N	N	N	N	N	N	5	70
B1NK238D	30	20	15	20	25	N	.5	N	5	N	N	N	<5	300
B1NK242A	10	15	15	<10	60	N	N	N	N	N	N	N	5	20
B1NK243A	30	20	15	30	70	N	<.5	N	N	N	<10	N	15	70
B1NK244B	20	15	35	30	90	N	N	N	N	N	N	N	20	70
B1NK245A	5	<5	10	<10	30	N	N	N	20	N	N	N	7	50
B1NK245B	20	15	35	50	110	N	N	N	N	N	N	N	10	70
B1NK246B	N	N	10	<10	50	N	N	N	N	N	<10	N	N	10
B1NK246C	15	10	15	<10	35	N	N	N	<5	N	N	N	<5	<10
B1NK247A	60	30	5	N	15	N	N	N	N	N	N	N	N	10
B1NK248A	650	700	20	15	560	500	1.0	N	N	N	N	N	5	10
B1NK248B	2,000	1,500	35	30	330	500	2.0	N	N	N	N	N	20	20
B1RM001A	<5	<5	15	20	25	N	N	N	N	N	N	N	N	10
B1RM001B	5	5	20	30	70	N	<.5	N	N	N	N	N	<5	50
B1RM002A	<5	<5	130	100	10	N	7.0	N	N	N	N	100	N	10
B1RM003A	<5	<5	20	30	5	N	<.5	N	N	N	N	N	N	<10
B1RM004A	5	5	5	30	40	N	N	N	N	N	<10	N	<5	50
B1RM004B	<5	<5	15	50	80	N	N	N	<5	N	N	N	10	100
B1RM004C	N	N	N	N	N	N	N	N	N	N	N	N	N	<10
B1RM005A	35	20	10	20	60	<200	N	N	N	N	N	N	30	150
B1RM006B	5	5	20	30	60	N	N	N	N	N	N	N	10	150
B1RM006C	5	5	10	30	40	N	N	N	N	N	N	N	<5	50
B1RM007A	30	20	25	50	60	<200	N	N	N	N	N	N	15	200
B1RM009B	100	70	15	N	10	N	<.5	N	N	N	N	N	10	70
B1RM010B	<5	N	10	50	20	N	N	N	N	N	N	N	<5	20
B1RM012A	<5	<5	5	30	25	N	N	N	N	N	N	N	5	50
B1RM018A	<5	<5	10	30	40	N	<.5	N	N	N	N	N	10	100
B1RM018B	5	10	15	30	35	N	<.5	N	N	N	20	N	<5	50
B1RM019A	55	50	15	50	10	N	.5	N	N	N	N	N	N	10
B1RM023D	5	5	5	20	20	N	N	N	N	N	N	N	30	200
B1RM024A	<5	<5	65	100	10	N	<.5	N	5	N	70	N	N	<10
B1RM025B	80	50	10	10	5	N	N	N	20	N	N	N	15	200
B1RM026A	5	<5	N	<10	10	N	N	N	N	N	N	N	N	30

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
81NK235B	N	<5	N	10	5,000	1.5	N	N	50	N	7	200	20	150	N
81NK235C	N	N	N	10	1,500	2.0	N	N	70	N	10	N	30	150	N
81NK235D	30	50	N	<10	300	<1.0	N	N	N	N	30	300	20	70	N
81NK236A	<10	7	N	10	200	1.0	N	N	30	N	10	N	20	100	N
81NK236B	50	5	N	<10	100	1.0	N	N	N	N	20	N	20	50	N
81NK236C	N	<5	N	30	300	2.0	N	N	N	N	30	N	15	100	N
81NK236D	N	<5	<10	<10	150	N	500	20	N	N	N	N	N	20	N
81NK237A	15	5	N	10	200	1.0	N	N	30	N	15	N	20	100	N
81NK237B	15	<5	N	15	300	1.5	N	N	N	N	10	200	20	100	N
81NK237C	20	<5	N	<10	100	1.0	N	N	N	N	10	100	20	150	N
81NK237E	30	15	N	10	<20	<1.0	N	<20	N	N	7	<100	15	150	N
81NK237F	<10	<5	N	15	150	1.0	N	N	30	N	10	<100	20	100	N
81NK238C	N	N	N	10	20	<1.0	N	N	20	N	15	N	20	150	N
81NK238D	70	5	N	50	1,000	3.0	N	N	30	N	10	N	10	100	N
81NK242A	10	7	N	20	100	<1.0	N	N	N	N	<5	N	10	150	N
81NK243A	70	20	N	50	1,000	3.0	N	N	100	N	15	150	30	150	N
81NK244B	200	30	N	50	1,000	2.0	N	N	20	N	15	700	20	100	N
81NK245A	10	5	N	<10	70	<1.0	N	N	30	N	10	N	30	100	N
81NK245B	150	20	N	<10	100	1.5	N	N	N	N	15	N	20	150	N
81NK246B	N	N	N	10	700	3.0	N	N	100	30	10	N	30	300	N
81NK246C	N	N	N	<10	700	1.5	N	N	50	20	7	500	30	200	N
81NK247A	<10	<5	N	<10	500	<1.0	N	N	N	N	<5	N	<10	150	N
81NK248A	<10	N	N	10	70	N	<10	<20	N	N	N	N	N	50	N
81NK248B	<10	<5	N	10	50	N	10	N	N	N	N	N	N	50	N
81RM001A	N	N	N	100	500	2.0	N	N	50	N	5	150	30	150	N
81RM001B	N	5	N	30	1,000	2.0	N	N	30	N	7	200	20	150	N
81RM002A	N	N	N	20	100	1.5	N	N	N	N	N	N	N	20	N
81RM003A	N	N	N	15	1,000	2.0	N	N	50	N	5	100	20	100	N
81RM004A	N	N	N	10	1,000	1.5	N	N	50	N	7	300	30	150	N
81RM004B	N	<5	N	<10	1,000	2.0	N	N	<20	N	10	500	20	200	N
81RM004C	N	N	N	<10	70	N	N	N	N	N	N	N	N	50	N
81RM005A	100	50	N	<10	700	1.5	N	N	50	N	20	150	30	200	N
81RM006B	10	7	N	15	1,000	1.5	N	N	50	N	15	500	20	150	N
81RM006C	N	5	N	10	1,000	2.0	N	N	50	N	7	500	30	150	N
81RM007A	70	30	N	20	700	1.0	N	N	<20	N	15	N	20	150	N
81RM009B	70	30	N	20	300	1.0	N	N	30	N	10	500	20	150	N
81RM010B	<10	5	N	15	1,000	3.0	N	N	30	N	5	200	20	70	N
81RM012A	<10	<5	N	<10	1,000	5.0	N	N	100	N	5	300	20	100	N
81RM018A	10	5	N	15	1,000	1.5	N	N	N	N	15	500	20	200	N
81RM018B	N	<5	N	200	1,000	3.0	N	N	50	N	10	200	30	150	N
81RM019A	<10	<5	N	30	300	7.0	10	N	30	20	<5	<100	20	70	N
81RM023D	200	70	N	<10	300	2.0	N	N	N	N	20	300	20	150	N
81RM024A	N	<5	N	100	100	3.0	<10	N	N	30	N	N	150	100	N
81RM025B	70	50	N	10	700	1.5	N	N	50	N	10	500	20	150	N
81RM026A	15	5	N	20	700	<1.0	N	N	N	N	<5	<100	<10	200	N

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
81RM027B	63 26 54	144 21 35	Quartz vein	18	.50	.10	.05	.100	200.0
81RM030A	63 28 56	144 24 50	Porphyritic quartz monzonite	20	2.00	.70	.70	.200	700.0
81RM033A	63 13 52	144 16 33	Quartzite	15	.50	.15	.05	.100	200.0
81RM033B	63 13 52	144 16 33	Quartz-white mica schist	15	1.50	.30	<.05	.150	300.0
81RM033C	63 13 52	144 16 33	Quartz vein	15	.70	.10	.05	.070	200.0
81RM033D	63 13 52	144 16 33	Quartz-white mica schist	15	2.00	1.50	.07	.500	1,000.0
81RM035A	63 14 5	144 15 27	Quartz-chlorite-epidote schist	15	5.00	3.00	2.00	.500	1,500.0
81RM038B	63 14 16	144 13 39	Metagabbro	20	5.00	5.00	7.00	.200	1,000.0
81RM039A	63 14 9	144 12 52	Quartz-white mica schist	15	1.50	.70	.10	.200	500.0
81RM039C	63 14 9	144 12 52	Quartz-white mica schist	15	1.00	.15	<.05	.150	20.0
81RM039E	63 14 9	144 12 52	Quartz vein	15	.70	.20	.05	.010	150.0
81RM039F	63 14 9	144 12 52	Quartz-white mica-chlorite schist	15	1.50	.50	.05	.150	300.0
81RM040A	63 16 14	144 6 3	Massive sulfide cobble	15	>20.00	.10	.10	.002	150.0
81RM041A	63 25 40	144 3 58	Calc-silicate schist	18	5.00	.50	1.00	.300	1,000.0
81RM041B	63 25 40	144 3 58	Quartz-mica-garnet schist	18	2.00	.30	.70	.150	700.0
81RM043B	63 26 2	144 2 40	Quartz-plag-mica-garnet schist	18	7.00	1.50	1.50	1.000	2,000.0
81RM043D	63 26 2	144 2 40	Quartz vein	18	.10	.03	.05	.015	30.0
81RM044B	63 25 42	144 2 1	Dacite dike	20	5.00	3.00	2.00	.700	1,500.0
81RM046A	63 25 49	144 0 45	Quartz-plag-mica-garnet schist	18	7.00	2.00	1.50	.700	1,500.0
81RM046B	63 25 49	144 0 45	Quartz-mica-garnet schist	18	3.00	.70	.20	.200	1,000.0
81RM048A	63 26 20	144 0 16	Schistose quartz monzonite	20	1.00	.05	.30	.050	300.0
81RM048C	63 26 20	144 0 16	Quartz-mica-garnet schist	18	3.00	3.00	5.00	.200	2,000.0
81RM049C	63 26 55	144 0 33	Quartz vein	18	.05	.03	.07	.003	30.0
81RM053A	63 26 39	144 3 21	Quartz-mica-garnet schist	18	70	.15	.20	.100	100.0
81RM054A	63 26 8	144 5 31	Quartzofeldspathic schist	18	2.00	.15	1.00	.150	300.0
81RM054B	63 26 8	144 5 31	Quartz vein	18	.07	.02	.07	.005	20.0
81RM056B	63 25 0	144 2 40	Carbonate-altered dike	20	5.00	2.00	2.00	.700	1,500.0
81RM057A	63 22 42	144 0 8	Quartz-plag-epidote-garnet schist	18	1.50	.15	.70	.150	700.0
81RM064A	63 25 22	144 4 42	Quartz-mica-garnet schist	18	2.00	.50	.30	.200	1,000.0
81RM065C	63 24 44	144 4 32	Quartz-plag-mica-garnet schist	18	5.00	1.50	.50	.500	1,000.0
81RM069A	63 24 24	144 1 45	Quartz-plag-mica-garnet schist	18	3.00	1.00	.30	.500	500.0
81SB001A	63 41 20	144 20 12	Quartz monzonite	20	5.00	1.00	2.00	.300	1,000.0
81SB002A	63 41 0	144 18 59	Quartz monzonite	20	5.00	1.00	2.00	.300	1,500.0
81SB003A	63 41 38	144 21 7	Quartz monzonite	20	5.00	2.00	2.00	.300	1,000.0
81SB005A	63 38 58	144 16 35	Quartz-andalusite-kspar-mica schist	19	7.00	1.00	.10	.300	500.0
81SB005B	63 38 58	144 16 35	Quartz vein	19	.50	.10	.20	.050	100.0
81SB007A	63 53 13	144 16 46	White mica quartzite	19	2.00	.50	.30	.300	700.0
81SB008A	63 52 54	144 17 20	Quartz vein	19	.10	.02	<.05	.010	50.0
81SB011A	63 36 17	145 9 49	Quartz-mica-garnet schist	15	7.00	1.00	5.00	.700	1,500.0
81SB012C	63 36 33	145 10 3	Quartz vein	15	.05	.02	.20	.010	20.0
81SB013A	63 36 44	145 9 54	Diabase dike	20	5.00	2.00	2.00	.500	1,000.0
81SB013C	63 36 44	145 9 54	Felsic dike	20	5.00	2.00	5.00	.500	1,000.0
81SB014A	63 36 52	145 9 42	Quartz-plag-mica-garnet schist	15	2.00	50	.50	.300	500.0
81SB014B	63 36 52	145 9 42	Diabase dike	20	5.00	2.00	5.00	.500	1,500.0
81SB015B	63 36 59	145 9 14	Quartz vein	15	.10	.05	.10	.020	20.0

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
81RM027B	5	5	N	N	5	N	N	N	N	N	N	N	N	20
81RM030A	<5	N	10	30	25	N	N	N	N	N	<10	N	7	70
81RM033A	5	5	N	N	5	N	N	N	N	N	N	N	N	50
81RM033B	15	10	<5	N	20	N	N	N	N	N	N	N	N	30
81RM033C	10	7	<5	N	10	N	N	N	N	N	N	N	N	20
81RM033D	100	100	15	50	100	<200	.5	N	N	N	10	N	30	150
81RM035A	25	30	10	<10	35	N	N	N	N	N	N	N	30	150
81RM038B	45	20	<5	N	10	N	N	N	N	N	N	N	50	150
81RM039A	65	50	10	15	30	N	N	N	10	N	N	N	<5	200
81RM039C	<5	<5	<5	<10	<5	N	N	N	N	N	N	N	N	10
81RM039E	10	5	35	50	15	N	<.5	N	N	N	N	N	N	10
81RM039F	<5	5	5	<10	50	N	<.5	N	N	N	N	N	N	20
81RM040A	6,900	5,000	6,500	7,000	30,000	>10,000	100.0	1,000	10	N	50	100	7	N
81RM041A	N	7	50	100	50	N	1.5	N	N	N	N	N	15	150
81RM041B	<5	<5	25	30	25	N	<.5	N	N	N	N	N	<5	30
81RM043B	20	20	100	50	70	N	N	N	N	N	N	N	10	70
81RM043D	N	<5	5	N	N	N	N	N	N	N	N	N	N	<10
81RM044B	50	50	20	15	70	N	N	N	N	N	N	N	30	200
81RM046A	5	10	10	10	45	N	N	N	N	N	N	N	20	150
81RM046B	10	10	5	20	20	N	N	N	N	N	N	N	N	100
81RM048A	5	5	10	20	10	N	N	N	N	N	N	N	N	N
81RM048C	N	<5	15	30	35	N	N	N	N	N	N	N	30	200
81RM049C	N	N	N	N	N	N	N	N	N	N	N	N	N	N
81RM053A	<5	<5	5	N	10	N	N	N	N	N	N	N	N	20
81RM054A	<5	<5	5	15	30	N	N	N	N	N	10	N	N	30
81RM054B	N	N	<5	N	N	N	N	N	N	N	N	N	N	<10
81RM056B	30	20	25	20	80	N	N	N	N	N	N	N	30	200
81RM057A	40	20	5	<10	5	N	N	N	N	N	<10	N	7	50
81RM064A	15	15	10	20	35	N	N	N	N	N	N	N	N	70
81RM065C	25	30	15	30	90	N	N	N	N	N	N	N	20	100
81RM069A	45	50	15	50	50	N	N	N	N	N	N	N	20	100
81SB001A	<5	5	5	50	50	N	N	N	N	N	N	N	20	150
81SB002A	<5	5	10	50	45	N	N	N	N	N	N	N	20	150
81SB003A	10	20	10	30	80	N	N	N	N	N	N	N	20	200
81SB005A	20	30	10	50	70	<200	N	N	N	N	N	N	20	200
81SB005B	<5	5	<5	<10	10	N	N	N	N	N	N	N	5	10
81SB007A	15	30	5	30	35	N	N	N	N	N	N	N	10	70
81SB008A	N	<5	<5	N	<5	N	N	N	N	N	N	N	5	10
81SB011A	N	<5	10	30	40	N	N	N	N	N	N	N	20	300
81SB012C	N	N	N	N	<5	N	N	N	N	N	N	N	N	10
81SB013A	15	30	10	50	80	N	N	N	N	N	N	N	30	200
81SB013C	15	30	10	50	60	<200	N	N	N	N	N	N	20	200
81SB014A	5	5	<5	10	20	N	N	N	N	N	N	N	15	100
81SB014B	5	20	10	30	75	N	N	N	N	N	N	N	30	200
81SB015B	10	30	450	200	5	N	N	N	N	N	N	N	5	10

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
81RM027B	<10	<5	N	15	300	1.0	N	N	N	N	<5	N	N	70	N
81RM030A	<10	5	N	10	1,000	3.0	N	N	50	N	7	300	20	150	N
81RM033A	15	<5	N	20	200	<1.0	N	N	N	N	<5	N	N	200	N
81RM033B	20	7	N	30	200	1.0	N	N	N	N	5	N	<10	300	N
81RM033C	10	5	N	10	100	<1.0	N	N	N	N	N	N	N	100	N
81RM033D	100	70	N	50	1,000	2.0	N	N	70	<20	20	<100	30	200	N
81RM035A	200	100	N	<10	700	N	N	N	N	N	15	1,000	20	50	N
81RM038B	500	150	N	10	150	N	N	N	N	N	30	200	15	20	N
81RM039A	50	5	N	30	1,000	2.0	N	N	N	N	7	N	10	200	N
81RM039C	N	<5	N	10	300	1.5	N	N	N	N	15	<100	15	200	N
81RM039E	N	<5	N	<10	20	N	N	N	N	N	N	N	N	10	N
81RM039F	N	<5	N	10	200	2.0	N	N	50	N	10	N	20	200	N
81RM040A	N	5	N	N	20	N	100	70	N	N	N	N	N	N	N
81RM041A	N	5	N	<10	200	2.0	<10	N	N	N	30	100	30	50	N
81RM041B	<10	<5	N	10	700	1.5	N	N	50	N	15	100	20	100	N
81RM043B	N	N	N	<10	300	2.0	N	N	50	30	15	300	50	200	N
81RM043D	<10	N	N	N	30	N	N	N	N	N	N	N	N	10	N
81RM044B	200	50	N	<10	700	3.0	N	N	50	<20	20	700	30	200	N
81RM046A	50	10	N	<10	1,000	1.5	N	N	30	N	30	200	30	200	N
81RM046B	70	5	N	15	700	1.5	N	N	<20	N	15	100	30	200	N
81RM048A	10	<5	N	10	1,000	2.0	N	N	20	N	5	100	30	150	N
81RM048C	700	200	N	<10	500	5.0	10	N	N	<20	30	<100	50	30	N
81RM049C	<10	<5	N	<10	50	N	N	N	N	N	N	N	N	10	N
81RM053A	20	7	N	<10	200	<1.0	N	N	N	N	<5	100	<10	200	N
81RM054A	<10	5	N	<10	500	3.0	N	N	50	N	10	200	30	200	N
81RM054B	N	<5	N	<10	50	N	N	N	N	N	<5	N	N	<10	N
81RM056B	100	50	N	100	300	1.0	<10	N	N	N	30	200	30	100	N
81RM057A	N	5	N	<10	50	N	N	N	50	N	10	200	20	200	N
81RM064A	50	7	N	30	700	2.0	N	N	<20	N	10	100	15	150	N
81RM065C	100	30	N	100	1,000	2.0	<10	N	100	<20	20	300	50	150	N
81RM069A	50	20	N	100	300	2.0	<10	N	50	<20	10	300	20	150	N
81SB001A	N	5	N	10	1,000	1.0	N	N	20	N	15	500	30	100	N
81SB002A	N	5	N	10	1,000	2.0	N	N	20	N	15	500	30	150	N
81SB003A	N	5	N	10	700	2.0	N	N	N	N	15	500	10	70	N
81SB005A	150	70	N	30	700	3.0	N	N	100	N	20	100	50	300	N
81SB005B	N	5	N	10	100	N	N	N	N	N	N	100	N	100	N
81SB007A	70	15	N	20	700	5.0	N	N	20	N	10	300	10	500	N
81SB008A	N	5	N	10	50	N	N	N	N	N	N	N	N	N	N
81SB011A	N	5	N	20	1,000	1.0	N	N	20	N	50	300	30	200	N
81SB012C	N	5	N	10	70	N	N	N	N	N	N	N	N	N	N
81SB013A	200	50	N	50	1,000	1.0	N	N	20	N	20	700	20	200	N
81SB013C	100	15	N	200	1,000	5.0	N	N	20	N	20	300	30	200	N
81SB014A	70	20	N	20	5,000	5.0	N	N	50	N	10	200	30	200	N
81SB014B	20	5	N	50	1,500	2.0	N	N	20	N	20	1,000	30	200	N
81SB015B	N	5	N	<10	70	1.0	N	N	N	N	N	N	N	N	N

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
81SB017A	63 37 4	144 53 14	Quartz-biotite-white mica schist	15	5.00	1.00	2.00	.300	1,000.0
81SB019A	63 38 40	144 52 50	Quartz vein	15	.50	.20	.15	.020	150.0
81SB020A	63 37 6	144 53 15	Quartz-biotite-white mica schist	15	5.00	1.00	.30	.300	700.0
81SB021A	63 35 57	144 52 50	Schistose quartz monzonite	20	2.00	.20	1.00	.200	700.0
81SB022A	63 38 54	144 53 48	Quartz-muscovite-calcite schist	15	5.00	2.00	2.00	.300	70.0
81SB023A	63 40 10	144 52 40	Quartz-muscovite-garnet schist	15	7.00	1.00	.10	.500	2,000.0
81SB024A	63 41 20	144 51 8	Quartz-mica-garnet schist	15	2.00	.70	.30	.500	500.0
81SB025A	63 42 58	144 51 35	Metarhyodacite flow	15	1.00	.02	.20	.050	700.0
81SB026A	63 42 48	144 51 40	Quartz-muscovite-biotite schist	15	1.00	.20	.30	.200	700.0
81SB027A	63 31 48	144 39 35	Quartz monzonite	20	.50	.10	.20	.020	150.0
81SB027C	63 31 48	144 39 35	Aplite dike	20	7.00	10.00	10.00	.500	1,500.0
81SB027D	63 31 48	144 39 35	Latite dike in quartz monzonite	20	7.00	2.00	2.00	.500	1,500.0
81SB028A	63 31 34	144 40 48	Quartz-biotite-hornblende schist	18	5.00	1.00	.20	.500	700.0
81SB028B	63 31 34	144 40 48	Quartz biotite schist	18	.50	.10	.20	.050	100.0
81SB028C	63 31 34	144 40 48	Aplite dike	20	7.00	.70	.20	.500	700.0
81SB029A	63 31 28	144 41 6	Quartz-kspar-biotite schist	18	.50	.07	.10	.070	150.0
81SB029D	63 31 28	144 41 6	Quartz vein	20	.30	.07	.10	.050	150.0
81SB030A	63 31 22	144 42 8	Schistose quartz monzonite	20	2.00	.30	1.00	.150	700.0
81SB030B	63 31 22	144 42 8	Aplite dike	20	1.00	.10	.50	.070	700.0
81SB031A	63 31 33	144 42 47	Schistose quartz monzonite	20	1.00	.20	.50	.100	700.0
81SB032A	63 31 40	144 46 8	Quartz monzonite	20	2.00	.30	1.00	.200	700.0
81SB034B	63 42 4	145 13 52	Quartz-mica-garnet schist	15	5.00	2.00	.20	.200	700.0
81SB037A	63 20 54	144 13 27	Quartz-carbonate-white mica schist	15	1.00	.50	1.00	.200	300.0
81SB037B	63 20 54	144 13 27	Lamprophyre	20	5.00	3.00	2.00	.300	1,000.0
81SB037C	63 20 54	144 13 27	Quartz-carbonate-white mica schist	15	3.00	1.00	1.00	.200	500.0
81SB037D	63 20 54	144 13 27	Quartz-chlorite-carbonate schist	15	10.00	1.50	.10	.500	300.0
81SB037E	63 20 54	144 13 27	Quartz-chlorite-carbonate schist	15	7.00	1.00	.10	.200	200.0
81SB038A	63 21 0	144 12 39	Quartz-carbonate-white mica schist	15	1.00	.30	.30	.200	200.0
81SB038B	63 21 0	144 12 39	Quartz-chlorite-carbonate schist	15	7.00	2.00	1.50	1.000	2,000.0
81SB038C	63 21 0	144 12 39	Marble	15	1.00	.50	20.00	.070	1,000.0
81SB038D	63 21 0	144 12 39	Marble	15	.50	.50	20.00	.100	100.0
81SB039A	63 20 59	144 11 42	Quartz-white mica schist	15	2.00	1.50	1.00	.200	500.0
81SB040A	63 21 16	144 12 4	Quartz-chlorite-carbonate schist	15	5.00	1.00	2.00	.700	2,000.0
81SB041B	63 21 20	144 10 48	Quartz-carbonate-white mica schist	15	2.00	.70	.10	.070	300.0
81SB042A	63 21 32	144 10 20	Quartz-chlorite-carbonate schist	15	5.00	3.00	1.50	1.000	2,000.0
81SB043A	63 21 50	144 9 38	Quartz-white mica schist	15	3.00	.50	.07	.300	300.0
81SB044A	63 19 35	144 28 46	Quartz-plag-chlorite schist	15	3.00	.70	.05	.300	700.0
81SB044B	63 19 35	144 28 46	Quartz-carbonate-white mica schist	15	.50	.20	15.00	.070	500.0
81SB045A	63 19 28	144 28 52	Quartz-mica-plag schist	15	5.00	.50	.15	.200	700.0
81SB045B	63 19 28	144 28 52	Quartz-white mica schist	15	.70	.15	.20	.100	200.0
81SB046A	63 19 15	144 29 15	Quartz-white mica schist	15	1.50	.50	.20	.100	500.0
81SB046B	63 19 15	144 29 15	Quartz-white mica schist	15	.50	.10	.05	.050	50.0
81SB047A	63 19 16	144 30 27	Quartz-calcite-white mica schist	15	2.00	.50	1.50	.300	2,000.0
81SB048A	63 29 3	144 14 48	Quartz-plag-mica-sillimanite schist	18	3.00	1.00	.15	.500	300.0
81SB049A	63 29 21	144 14 50	Schistose quartz monzonite	20	1.00	.30	.50	.100	200.0

TABLE 5 ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
81SB017A	5	20	5	50	60	N	N	N	N	N	N	N	15	100
81SB019A	<5	<5	N	N	5	N	N	N	N	N	N	N	5	10
81SB020A	10	20	5	30	65	N	N	N	N	N	N	N	10	100
81SB021A	N	<5	5	30	15	N	N	N	N	N	N	N	5	50
81SB022A	<5	<5	5	30	40	N	N	N	N	N	N	N	20	200
81SB023A	20	30	<5	100	80	200	N	N	N	N	N	N	70	150
81SB024A	<5	<5	<5	20	20	N	N	N	N	N	N	N	20	150
81SB025A	N	<5	<5	50	15	N	N	N	N	N	N	N	5	10
81SB026A	5	10	<5	20	15	N	N	N	N	N	N	N	5	30
81SB027A	N	<5	<5	70	35	N	N	N	N	N	N	N	5	10
81SB027C	N	100	<5	30	<5	200	N	N	N	N	N	N	70	300
81SB027D	60	30	10	20	60	200	N	N	N	N	N	N	30	300
81SB028A	5	50	10	70	50	N	N	N	N	N	N	N	15	200
81SB028B	55	5	25	70	45	N	N	N	N	N	N	N	5	10
81SB028C	N	50	5	70	5	<200	N	N	7	N	N	N	10	200
81SB029A	30	5	5	N	50	<200	N	N	N	N	N	N	5	20
81SB029D	<5	5	<5	N	5	<200	N	N	N	N	N	N	5	20
81SB030A	N	<5	<5	50	20	N	N	N	N	N	N	N	5	70
81SB030B	N	10	<5	70	10	N	N	N	N	N	N	N	5	10
81SB031A	N	<5	5	70	20	N	N	N	N	N	N	N	5	30
81SB032A	N	<5	10	70	30	N	N	N	N	N	N	N	5	70
81SB034B	<5	5	5	30	75	<200	N	N	N	N	N	N	30	100
81SB037A	95	70	360	300	160	N	1.0	N	N	N	<10	N	N	70
81SB037B	90	100	55	150	85	<200	.7	N	N	N	N	N	30	200
81SB037C	30	20	35	30	25	N	<.5	N	N	N	N	N	15	100
81SB037D	150	200	45	50	80	<200	<.5	N	N	N	N	N	30	70
81SB037E	110	100	20	20	130	<200	<.5	N	N	N	N	N	15	70
81SB038A	15	10	10	N	400	500	N	N	N	N	N	N	N	30
81SB038B	80	50	35	20	100	N	N	N	N	N	N	N	50	200
81SB038C	20	10	50	20	15	N	N	N	N	N	N	N	7	10
81SB038D	15	5	50	10	25	N	N	N	N	N	N	N	N	20
81SB039A	85	50	45	70	50	N	1.0	N	N	N	N	N	15	500
81SB040A	30	20	30	30	120	N	N	N	N	N	N	N	15	100
81SB041B	10	7	10	<10	15	N	N	N	N	N	N	N	5	10
81SB042A	300	200	20	<10	130	<200	N	N	N	N	N	N	50	300
81SB043A	20	20	10	10	20	N	N	N	N	N	<10	N	7	100
81SB044A	20	15	100	100	95	N	.7	N	N	N	N	N	10	100
81SB044B	10	<5	35	20	15	N	N	N	N	N	N	N	N	20
81SB045A	20	5	15	<10	95	<200	N	N	N	N	N	N	20	70
81SB045B	10	7	15	10	20	N	N	N	N	N	N	N	N	20
81SB046A	10	7	10	<10	50	N	N	N	N	N	N	N	N	50
81SB046B	<5	<5	10	<10	<5	N	N	N	N	N	N	N	N	10
81SB047A	10	5	20	10	45	N	N	N	N	N	N	N	10	100
81SB048A	30	20	20	30	95	N	N	N	N	N	10	N	10	150
81SB049A	<5	<5	10	5	20	N	N	N	N	N	N	N	<5	20

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
81SB017A	50	5	N	10	700	3.0	N	N	100	N	20	300	30	200	N
81SB019A	N	5	N	<10	200	N	N	N	N	N	N	N	N	N	N
81SB020A	100	15	N	70	700	2.0	N	N	20	N	15	200	30	200	N
81SB021A	N	5	N	20	1,000	7.0	N	N	N	30	5	300	30	200	N
81SB022A	200	10	N	10	2,000	2.0	N	N	50	N	20	200	30	200	N
81SB023A	150	100	N	100	1,000	7.0	N	N	20	N	20	200	30	150	N
81SB024A	100	70	N	20	1,000	2.0	N	N	50	N	15	200	30	500	N
81SB025A	N	5	N	<10	300	7.0	N	N	N	50	5	N	50	50	N
81SB026A	50	10	N	20	500	1.0	N	N	N	N	5	N	10	500	N
81SB027A	N	5	N	<10	1,000	2.0	N	N	N	N	N	300	N	200	N
81SB027C	1,000	500	N	20	1,000	5.0	N	N	N	N	30	1,500	20	100	N
81SB027D	200	30	N	10	700	2.0	N	N	20	N	30	500	50	300	N
81SB028A	100	20	N	70	1,000	5.0	N	N	70	N	20	300	30	500	N
81SB028B	N	5	N	<10	500	1.0	N	N	20	N	N	200	N	100	N
81SB028C	150	10	N	50	700	5.0	N	N	70	N	15	200	30	300	N
81SB029A	N	5	N	50	100	N	N	N	N	N	N	N	N	20	N
81SB029D	N	5	N	50	100	N	N	N	N	N	N	N	N	20	N
81SB030A	N	5	N	10	1,000	7.0	N	N	N	N	5	300	30	200	N
81SB030B	N	10	N	<10	500	3.0	N	N	N	N	N	200	30	300	N
81SB031A	N	5	N	<10	500	3.0	N	N	N	N	N	200	15	150	N
81SB032A	N	5	N	10	1,000	5.0	N	N	70	N	5	700	15	150	200
81SB034B	70	50	N	10	700	1.0	N	N	20	N	15	200	20	100	N
81SB037A	30	15	N	50	500	1.5	N	N	30	N	10	100	20	200	N
81SB037B	300	30	N	10	1,000	2.0	N	N	N	N	20	700	20	100	N
81SB037C	20	5	N	30	500	2.0	<10	N	30	N	15	100	20	150	N
81SB037D	100	30	N	10	500	2.0	N	N	70	<20	10	N	30	150	N
81SB037E	50	20	N	10	300	1.5	N	N	50	N	10	N	15	150	N
81SB038A	30	7	N	20	200	N	N	<20	N	N	<5	N	10	100	N
81SB038B	30	30	N	<10	<20	1.0	N	N	N	N	30	200	50	150	N
81SB038C	10	5	N	N	100	N	N	N	N	N	<5	1,000	10	50	N
81SB038D	20	<5	N	30	150	N	N	N	N	N	5	2,000	10	50	N
81SB039A	150	50	N	100	700	3.0	N	N	50	N	15	100	20	100	N
81SB040A	<10	<5	N	<10	<20	<1.0	N	N	70	20	20	300	50	200	N
81SB041B	20	10	N	<10	100	N	N	N	N	N	<5	N	10	200	N
81SB042A	200	100	N	N	N	1.0	N	N	N	N	30	N	30	100	N
81SB043A	15	<5	N	50	1,000	3.0	<10	N	50	<20	20	100	30	300	N
81SB044A	100	20	N	200	500	5.0	<10	N	100	N	15	200	20	100	N
81SB044B	15	<5	N	10	150	<1.0	N	N	N	N	<5	500	<10	70	N
81SB045A	70	50	N	150	300	2.0	N	N	50	N	10	150	20	70	N
81SB045B	20	5	N	70	150	<1.0	N	N	N	N	<5	N	<10	200	N
81SB046A	30	10	N	70	300	1.5	N	N	N	N	5	N	10	100	N
81SB046B	<10	N	N	15	100	<1.0	N	N	N	N	N	N	<10	300	N
81SB047A	<10	<5	N	20	200	1.0	N	N	N	N	15	100	20	150	N
81SB048A	150	50	N	70	1,000	1.5	N	N	100	<20	20	200	30	150	N
81SB049A	<10	5	N	<10	500	3.0	N	N	<20	N	5	300	<10	100	N

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
81SB051A	63 28 29	144 15 8	Porphyritic quartz monzonite	20	1.00	.15	.30	.070	300.0
81SB053B	63 15 36	144 6 59	Metagabbro	20	5.00	5.00	2.00	.150	1,500.0
81SB054C	63 15 26	144 5 54	Quartz-plag-mica-carbonate schist	15	2.00	.30	.10	.300	500.0
81SB055B	63 15 29	144 5 40	Fe-stained quartz vein	15	1.50	.50	2.00	.070	1,000.0
81SB056A	63 15 37	144 5 33	Quartz-plag-mica-carbonate schist	15	2.00	.70	.15	.300	300.0
81SB058A	63 16 14	144 6 24	Quartz-white mica schist	15	.70	.15	.05	.200	15.0
81SB059C	63 16 28	144 4 39	Quartz-kspar-plag-mica schist	15	2.00	.50	1.00	.200	700.0
81SB061B	63 41 25	146 40 41	Quartzite	15	.70	.15	.20	.070	150.0
81SB061C	63 41 25	146 40 41	Quartzite	15	.70	.10	.05	.070	150.0
81SB061D	63 41 25	146 40 41	Quartzite	15	.50	.05	.10	.010	70.0
81SB062A	63 41 20	146 39 34	Quartzite	15	5.00	.50	.07	.070	70.0
81SB062B	63 41 20	146 39 34	Quartzite	15	2.00	.20	<.05	.050	50.0
81SB062C	63 41 20	146 39 34	Quartzite and marble with m.s.	15	20.00	1.50	2.00	.050	1,000.0
81SB063A	63 43 17	146 46 4	S-stained metamarl	15	20.00	.20	2.00	.050	3,000.0
81SB063B	63 43 17	146 46 4	Chlorite schist	15	10.00	2.00	3.00	.500	2,000.0
81SB063C	63 43 17	146 46 4	Quartz-mica-carbonate schist	15	3.00	.50	3.00	.200	1,000.0
81SB063D	63 43 17	146 46 4	Quartz-mica-carbonate schist	15	2.00	.70	1.50	.150	700.0
81ZN001A	63 39 11	144 3 39	Schistose quartz monzonite	20	1.50	.50	1.00	.200	500.0
81ZN001B	63 39 11	144 3 39	Quartz vein	20	1.00	.03	.05	.020	100.0
81ZN002A	63 38 11	144 4 42	Rhyolite dike	20	1.00	.15	.07	.150	300.0
81ZN003A	63 38 21	144 10 22	Quartz monzonite	20	1.50	.50	1.00	.200	500.0
81ZN005A	63 37 19	144 49 3	Schistose granodiorite	20	1.00	.15	.50	.100	500.0
81ZN005B	63 37 19	144 49 3	Schistose granodiorite	20	.50	.03	.15	.030	100.0
81ZN007A	63 38 14	144 49 1	Biotite-white mica schist	18	1.50	.20	1.00	.150	500.0
81ZN007B	63 38 14	144 49 1	Quartz vein	18	.05	.02	<.05	.002	50.0
81ZN008A	63 38 42	144 46 48	Biotite-white mica schist	18	2.00	.50	.07	.300	200.0
81ZN008B	63 38 42	144 46 48	Quartz monzonite	20	.50	.15	.30	.070	150.0
81ZN009A	63 32 0	144 12 45	Quartz monzonite	20	1.00	.15	.50	.100	500.0
81ZN010A	63 32 46	144 11 10	Quartz diorite	20	5.00	1.50	1.50	.300	1,000.0
81ZN010B	63 32 46	144 11 10	Aplite dike	20	.20	.10	.20	.020	100.0
81ZN012A	63 32 30	144 13 0	Quartz diorite	20	5.00	2.00	5.00	.500	1,000.0
81ZN014A	63 33 54	144 15 0	Quartz diorite	20	5.00	2.00	3.00	.300	1,500.0
81ZN016A	63 34 30	144 11 32	Altered quartz monzonite	20	2.00	1.50	1.50	.200	1,000.0
81ZN017A	63 34 50	144 17 40	Granodiorite	20	2.00	.70	1.50	.200	700.0
81ZN018A	63 56 37	144 0 29	Quartz monzonite	20	1.00	.15	.30	.100	500.0
81ZN021A	63 53 41	144 20 30	Quartz-white mica-biotite schist	19	1.00	.20	.30	.150	500.0
81ZN021B	63 53 41	144 20 30	Quartz vein	19	.07	.02	.05	.010	10.0
81ZN023B	63 54 15	144 18 7	Schistose amphibolite	19	7.00	2.00	2.00	>1.000	2,000.0
81ZN024A	63 42 39	145 12 38	Quartz-mica-garnet schist	15	1.50	.30	.30	.150	300.0
81ZN024B	63 42 39	145 12 38	Quartz-plag-kspar-mica schist	15	.70	.10	.50	.100	200.0
81ZN025A	63 20 5	144 38 14	Quartz-white mica-chlorite schist	15	2.00	1.00	3.00	.200	1,500.0
81ZN025D	63 20 5	144 38 14	Quartz-plag-chlorite-garnet schist	15	5.00	.70	.07	.100	200.0
81ZN026A	63 20 7	144 37 15	Quartz-white mica-chlorite schist	15	.70	.20	.05	.100	200.0
81ZN026B	63 20 7	144 37 15	Quartz-white mica-chlorite schist	15	5.00	1.50	.30	.700	500.0
81ZN026C	63 20 7	144 37 15	Carbonate-altered lamprophyre	20	3.00	5.00	3.00	.200	700.0

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
81SB051A	<5	N	10	30	30	N	N	N	N	N	N	N	N	10
81SB053B	100	100	40	30	130	N	<.5	N	N	N	N	N	30	150
81SB054C	10	7	10	10	65	N	N	N	N	N	N	N	5	30
81SB055B	15	10	70	70	240	200	N	N	N	N	N	N	7	50
81SB056A	<5	<5	25	20	45	N	<.5	N	N	N	N	N	7	30
81SB058A	5	7	5	<10	90	N	2.0	N	20	N	N	N	N	1,500
81SB059C	20	10	10	50	110	N	N	N	N	N	N	N	10	50
81SB061B	15	10	5	N	30	N	N	N	N	N	N	N	N	30
81SB061C	15	10	5	N	40	N	N	N	N	N	N	N	N	30
81SB061D	10	5	5	N	25	N	N	N	N	N	N	N	N	<10
81SB062A	65	70	55	70	95	<200	.5	<200	N	N	N	N	10	50
81SB062B	65	50	10	<10	15	N	<.5	N	N	N	N	N	N	100
81SB062C	360	500	55	30	65	<200	1.0	200	N	N	N	N	300	50
81SB063A	350	300	20	<10	20	N	N	N	N	N	N	N	300	<10
81SB063B	5	<5	20	<10	90	N	N	N	N	N	20	N	30	50
81SB063C	5	<5	15	10	20	N	N	N	N	N	<10	N	7	50
81SB063D	<5	N	30	50	30	N	.7	N	N	N	N	N	<5	30
81ZN001A	N	<5	10	50	20	N	N	N	N	N	<10	N	5	70
81ZN001B	10	15	110	200	35	N	3.0	200	N	N	N	N	N	10
81ZN002A	15	10	45	50	55	N	<.5	N	N	N	N	N	N	70
81ZN003A	5	5	15	30	45	N	<.5	N	N	N	N	N	7	100
81ZN005A	N	<5	15	30	20	N	N	N	N	N	<10	N	N	50
81ZN005B	N	<5	10	50	<5	N	N	N	N	N	N	N	N	10
81ZN007A	<5	5	10	10	25	N	<.5	N	N	N	N	N	5	70
81ZN007B	N	N	5	N	N	N	N	N	N	N	N	N	N	10
81ZN008A	25	15	15	20	40	N	N	500	N	N	N	N	5	100
81ZN008B	N	N	10	30	5	N	N	N	N	N	N	N	<5	15
81ZN009A	<5	<5	10	20	35	N	N	N	N	N	N	N	<5	20
81ZN010A	5	5	20	10	85	N	N	N	N	N	N	N	20	100
81ZN010B	N	<5	10	50	5	N	N	N	N	N	N	N	N	10
81ZN012A	110	70	35	30	20	N	.5	N	N	N	15	N	30	100
81ZN014A	10	7	25	<10	40	N	N	N	N	N	N	N	30	200
81ZN016A	15	10	20	20	60	N	<.5	N	N	N	N	N	10	100
81ZN017A	60	50	20	30	40	N	<.5	N	N	50	N	N	7	70
81ZN018A	N	<5	10	50	25	N	N	N	N	N	<10	N	N	15
81ZN021A	5	5	10	10	5	N	N	N	N	N	N	N	<5	30
81ZN021B	<5	N	5	N	N	N	N	N	N	N	N	N	N	<10
81ZN023B	35	50	20	<10	35	<200	N	N	N	N	10	N	30	200
81ZN024A	5	5	10	10	25	N	N	N	N	N	N	N	5	50
81ZN024B	10	7	10	20	5	N	N	N	N	N	N	N	N	10
81ZN025A	150	100	30	15	30	N	N	N	N	N	N	N	10	70
81ZN025D	540	500	20	<10	15	N	<.5	N	N	N	N	N	50	15
81ZN026A	10	5	10	<10	20	N	N	N	N	N	N	N	<5	15
81ZN026B	10	5	15	15	45	N	N	N	N	N	<10	N	5	100
81ZN026C	25	20	40	20	50	N	N	N	N	N	N	N	50	100

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
81SB051A	N	<5	N	<10	700	2.0	N	N	N	N	<5	100	<10	100	N
81SB053B	100	100	N	<10	70	N	N	N	N	N	20	200	<10	20	N
81SB054C	15	<5	N	20	500	1.5	N	N	70	N	15	N	30	200	N
81SB055B	30	<5	N	10	700	1.0	N	N	<20	N	10	100	20	70	N
81SB056A	10	<5	N	<10	700	1.0	N	N	70	N	20	N	30	200	N
81SB058A	50	7	N	30	1,500	2.0	N	N	N	N	5	N	10	100	N
81SB059C	70	15	N	20	2,000	2.0	N	N	70	N	15	N	30	300	N
81SB061B	20	10	N	20	500	<1.0	N	N	N	N	<5	N	30	150	N
81SB061C	10	15	N	20	300	<1.0	N	N	N	N	<5	N	10	150	N
81SB061D	<10	5	N	<10	150	N	N	N	N	N	N	N	<10	10	N
81SB062A	10	7	N	<10	20	N	20	N	N	N	5	N	<10	70	N
81SB062B	15	7	N	10	200	N	<10	N	N	N	<5	N	<10	50	N
81SB062C	10	7	N	N	<20	N	50	N	N	N	5	200	N	50	N
81SB063A	<10	10	N	N	150	1.5	N	N	N	N	<5	<100	N	30	N
81SB063B	50	7	N	N	N	1.0	N	N	100	<20	20	500	50	500	N
81SB063C	50	7	N	15	700	2.0	N	N	50	N	10	300	20	500	N
81SB063D	15	<5	N	30	1,500	2.0	N	N	30	N	10	N	20	150	N
81ZN001A	15	5	N	<10	1,000	2.0	N	N	50	N	10	200	20	150	N
81ZN001B	<10	<5	N	10	70	<1.0	N	N	N	N	N	N	N	20	N
81ZN002A	10	5	N	200	1,000	3.0	N	N	30	N	5	<100	<10	100	N
81ZN003A	20	10	N	15	700	2.0	N	N	70	N	7	300	15	100	N
81ZN005A	<10	5	N	10	1,000	2.0	N	N	20	N	5	200	15	100	N
81ZN005B	N	<5	N	10	100	5.0	N	N	N	<20	<5	N	20	70	N
81ZN007A	N	<5	N	10	700	2.0	N	N	50	N	10	200	15	100	N
81ZN007B	N	N	N	15	50	N	N	N	N	N	N	N	N	10	N
81ZN008A	50	10	N	30	500	5.0	N	N	50	N	15	200	15	150	N
81ZN008B	10	5	N	20	1,000	1.5	N	N	30	N	5	200	10	70	N
81ZN009A	<10	<5	N	15	1,000	2.0	N	N	50	N	5	300	10	100	N
81ZN010A	20	7	N	20	700	1.0	N	N	30	N	20	500	20	150	N
81ZN010B	N	<5	N	15	500	5.0	N	N	N	N	<5	100	30	50	N
81ZN012A	150	50	N	<10	30	3.0	<10	N	100	N	30	1,000	50	200	N
81ZN014A	20	15	N	10	300	<1.0	N	N	30	N	30	500	50	100	N
81ZN016A	15	7	N	50	700	1.5	<10	N	20	N	15	300	20	100	N
81ZN017A	10	5	N	15	1,000	1.5	<10	N	50	N	10	500	20	100	N
81ZN018A	<10	<5	N	10	500	2.0	N	N	50	N	5	100	30	100	N
81ZN021A	20	10	N	10	100	2.0	N	N	N	N	5	100	30	150	N
81ZN021B	N	<5	N	<10	<20	N	N	N	N	N	N	N	N	N	N
81ZN023B	10	5	N	<10	20	2.0	N	N	N	N	30	N	70	200	N
81ZN024A	30	10	N	10	100	1.0	N	N	N	N	5	<100	10	150	N
81ZN024B	N	N	N	10	1,000	1.5	N	N	100	N	10	100	30	150	N
81ZN025A	50	30	N	50	300	1.5	N	N	30	N	15	300	20	100	N
81ZN025D	10	5	N	<10	N	<1.0	<10	N	50	N	<5	N	15	150	N
81ZN026A	10	5	N	20	200	1.0	N	N	N	N	<5	N	<10	150	N
81ZN026B	150	7	N	100	1,000	5.0	N	N	50	<20	20	N	50	200	N
81ZN026C	700	700	N	100	300	2.0	N	N	N	N	15	500	10	50	N

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
81ZN026D	63 20 7	144 37 15	Quartz monzonite	20	5.00	2.00	3.00	1.000	1,000.0
81ZN026E	63 20 7	144 37 15	Quartz vein	15	.50	.20	.50	.050	300.0
81ZN027A	63 20 43	144 33 2	Carbonate-altered lamprophyre	20	5.00	5.00	7.00	.500	1,000.0
81ZN027B	63 20 43	144 33 2	Carbonate-altered lamprophyre	20	3.00	7.00	10.00	.150	1,500.0
81ZN027D	63 20 43	144 33 2	Metagabbro	20	15.00	.50	5.00	.070	>5,000.0
81ZN027E	63 20 43	144 33 2	Massive sulfide	15	20.00	.15	.05	.030	1,000.0
81ZN030A	63 49 52	144 7 18	Metaquartz diorite	19	3.00	.70	.07	.700	300.0
81ZN031A	63 58 10	144 27 54	Schistose amphibolite	19	5.00	10.00	.07	.500	300.0
81ZN032A	63 55 0	144 33 1	Biotite augen gneiss	19	1.00	.30	.50	.150	300.0
81ZN033A	63 54 8	144 44 42	Quartz-biotite schist	19	3.00	.70	.07	.300	1,000.0
81ZN034A	63 28 37	144 41 8	Quartz-biotite-chlorite schist	15	2.00	.70	1.00	.200	500.0
81ZN035A	63 29 7	144 42 20	Quartz-white mica-garnet schist	15	3.00	.70	.10	.500	500.0
81ZN035B	63 29 7	144 42 20	Quartz monzonite	20	1.50	.30	.70	.150	500.0
81ZN036B	63 29 46	144 42 50	Quartz-white mica-andalusite schist	18	5.00	1.50	.10	.500	700.0
81ZN036C	63 29 46	144 42 50	Schistose quartz diorite	20	3.00	1.00	1.00	.300	500.0
81ZN037B	63 29 38	144 43 1	Quartz-white mica-andalusite schist	18	5.00	1.00	.15	.200	200.0
81ZN038A	63 29 29	144 43 15	Quartz-biotite-andalusite schist	18	2.00	.30	.70	.150	300.0
81ZN038B	63 29 29	144 43 15	Quartz-mica-andalusite schist	18	5.00	1.50	.10	.300	500.0
82IL015A	63 42 48	146 43 50	Quartz-calcite-muscovite schist	15	.20	.07	1.00	.030	100.0
82IL015B	63 42 48	146 43 50	Chlorite-quartz schist	15	10.00	1.00	<.05	.300	200.0
82IL015C	63 42 48	146 43 50	Massive sulfide	15	15.00	.10	1.50	.020	1,000.0
82IL015D	63 42 48	146 43 50	Quartz-calcite vein	15	.70	.05	10.00	<.002	15.0
82IL015E	63 42 48	146 43 50	Pyroxene-sulfide-hornblende skarn	15	10.00	1.50	7.00	.020	5,000.0
82IL015F	63 42 48	146 43 50	Quartz-sericite-albite schist	15	1.50	.70	.30	.200	2.00
82IL017A	63 42 48	146 44 36	Actinolite-chlorite-albite schist	15	10.00	.30	5.00	.020	>5,000.0
82IL018A	63 42 31	146 44 13	Massive sulfide	15	20.00	.20	.05	.030	150.0
82IL042D	63 36 5	146 15 40	Quartz-muscovite-albite schist	15	2.00	1.00	.10	.150	200.0
82IL044A	63 35 59	146 14 48	Massive sulfide	15	20.00	.20	.05	.020	1,000.0
82IL044B	63 35 59	146 14 48	Massive sulfide	15	10.00	.70	5.00	.002	>5,000.0
82IL044C	63 35 59	146 14 48	Chlorite-actinolite-albite schist	15	7.00	2.00	2.00	.700	500.0
82IL045A	63 36 25	146 14 20	Metadiorite	20	5.00	2.00	3.00	1.000	500.0
82IL047A	63 42 48	146 44 31	Massive sulfide	15	20.00	.50	<.05	.050	200.0
82IL052A	63 41 20	146 39 34	Massive sulfide	15	20.00	1.50	.70	.020	200.0
82IL053B	63 41 24	146 39 30	Quartz schist with massive sulfide	15	5.00	.50	.05	.050	100.0
82IL053C	63 41 24	146 39 30	Quartz schist with massive sulfide	15	5.00	.50	<.05	.050	70.0
82IL060A	63 41 16	146 34 6	Massive sulfide	15	15.00	.50	.20	.150	150.0
82IL060B	63 41 16	146 34 6	Massive sulfide	15	20.00	.50	.30	.100	200.0
82IL061A	63 41 20	146 33 57	Massive sulfide	15	10.00	.50	2.00	.070	500.0
82IL062B	63 41 28	146 33 51	Quartz-muscovite schist with m.s.	15	2.00	.05	<.05	.050	50.0
82IL064A	63 41 13	146 33 21	Quartz-epidote schist	15	5.00	.70	10.00	.100	3,000.0
82IL064B	63 41 13	146 33 21	Clinopyroxene-calcite marble	15	5.00	.20	1.00	.100	300.0
82IL067A	63 41 7	146 31 47	Hornblende-calcite skarn	15	7.00	.30	7.00	.020	5,000.0
82IL068A	63 41 13	146 31 46	Clinopyroxene-calcite skarn	15	10.00	.50	10.00	.015	5,000.0
82IL069A	63 41 29	146 31 37	Massive sulfide	15	10.00	.70	5.00	.200	5,000.0

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
B1ZN026D	15	10	20	15	100	N	N	N	N	N	N	N	20	100
B1ZN026E	N	N	10	N	5	N	N	N	N	N	N	N	N	10
B1ZN027A	45	30	10	N	10	N	N	N	N	N	N	N	50	150
B1ZN027B	100	70	50	10	30	N	N	N	N	N	N	N	20	100
B1ZN027D	240	200	20	10	45	<200	N	N	N	N	15	N	5	20
B1ZN027E	780	700	30	15	60	<200	1.0	N	N	N	N	100	50	<10
B1ZN030A	50	30	30	50	100	N	<.5	N	N	N	N	N	15	150
B1ZN031A	<5	<5	10	<10	20	N	N	N	N	N	N	N	50	100
B1ZN032A	5	7	10	70	30	N	N	N	N	N	N	N	<5	20
B1ZN033A	20	15	10	70	25	N	N	N	N	N	N	N	7	100
B1ZN034A	15	10	10	15	40	N	N	N	N	N	N	N	10	70
B1ZN035A	30	20	10	100	35	N	<.5	N	N	N	N	N	<5	100
B1ZN035B	<5	7	5	30	25	N	N	N	N	N	N	N	N	30
B1ZN036B	250	150	20	70	100	N	<.5	N	N	N	N	N	20	100
B1ZN036C	50	30	10	30	70	N	<.5	N	N	N	N	N	10	100
B1ZN037B	65	50	15	50	25	N	<.5	N	N	N	N	N	15	100
B1ZN038A	5	5	10	<10	20	N	N	N	N	N	N	N	7	50
B1ZN038B	85	50	5	20	30	N	N	N	N	N	N	N	20	100
B2IL015A	5	<5	10	<10	5	N	N	N	N	N	N	N	N	10
B2IL015B	2,250	200	20	N	140	200	N	N	N	N	<10	N	20	20
B2IL015C	4,300	2,000	40	20	<5	N	N	N	N	N	20	N	200	<10
B2IL015D	<5	<5	20	<10	N	N	N	N	N	N	N	N	N	<10
B2IL015E	<5	<5	10	N	10	N	N	N	N	N	20	N	20	<10
B2IL015F	<5	<5	10	<10	15	N	N	N	N	N	N	N	20	50
B2IL017A	<5	<5	20	N	35	N	N	N	N	N	10	N	50	<10
B2IL018A	1,400	1,000	30	15	40	N	<.5	N	N	N	N	N	100	10
B2IL042D	85	70	10	10	85	<200	.5	N	10	N	N	N	15	100
B2IL044A	2,600	2,000	320	100	210	300	2.0	N	N	N	70	N	150	<10
B2IL044B	360	500	30	20	23,000	>10,000	N	N	N	N	20	N	20	10
B2IL044C	250	200	10	<10	80	<200	N	N	N	N	N	N	50	100
B2IL045A	180	100	<5	<10	40	N	N	N	N	N	N	N	50	100
B2IL047A	1,080	1,500	140	70	95	200	.7	N	N	N	N	N	100	10
B2IL052A	720	700	50	30	40	<200	.5	N	N	N	N	N	200	20
B2IL053B	790	500	7,200	3,000	6,900	7,000	5.0	5,000	N	N	100	100	10	30
B2IL053C	10,300	200	3,500	1,000	3,900	5,000	2.0	1,500	N	N	70	<100	N	30
B2IL060A	830	700	30	30	25	N	N	N	N	N	15	N	30	20
B2IL060B	1,100	1,000	20	15	30	N	<.5	N	N	N	N	N	200	15
B2IL061A	700	700	40	30	15	N	.7	N	N	N	N	N	70	20
B2IL062B	<5	5	10	<10	5	N	1.5	N	N	N	<10	N	N	10
B2IL064A	5	7	20	20	55	N	N	N	N	N	20	N	10	20
B2IL064B	9,200	7,000	600	500	2,150	1,000	10.0	N	N	N	<10	N	10	20
B2IL067A	20	20	20	10	40	N	N	N	N	N	N	N	30	10
B2IL068A	220	300	25	<10	25	N	N	N	N	N	N	N	100	10
B2IL069A	110	100	10	15	40	N	N	N	N	N	N	N	50	30

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
81ZN026D	20	20	N	30	1,000	2.0	N	N	50	<20	15	500	30	200	N
81ZN026E	<10	5	N	15	70	N	N	N	N	N	N	N	N	100	N
81ZN027A	500	150	N	10	70	<1.0	N	N	N	N	30	200	15	70	N
81ZN027B	70	50	N	<10	200	<1.0	N	N	N	N	10	100	20	50	N
81ZN027D	15	<5	N	10	500	2.0	N	N	50	N	5	200	10	50	N
81ZN027E	N	70	N	<10	70	<1.0	N	N	N	N	N	N	N	<10	N
81ZN030A	100	20	N	20	700	2.0	N	N	70	<20	15	100	15	200	N
81ZN031A	70	500	N	N	<20	N	N	N	N	N	20	N	<10	100	N
81ZN032A	20	10	N	10	500	2.0	N	N	20	N	10	100	15	100	N
81ZN033A	100	20	N	30	1,000	3.0	N	N	100	<20	15	300	20	150	N
81ZN034A	50	10	N	10	700	1.5	N	N	30	N	10	200	20	200	N
81ZN035A	150	5	N	200	1,000	2.0	N	N	100	N	15	200	20	150	N
81ZN035B	<10	<5	N	<10	1,000	2.0	N	N	50	N	5	300	15	100	N
81ZN036B	150	70	N	150	1,000	3.0	N	N	100	N	20	200	30	150	N
81ZN036C	20	5	N	10	150	5.0	N	N	50	N	15	300	15	150	N
81ZN037B	100	20	N	70	1,000	2.0	N	N	70	N	15	100	20	100	N
81ZN038A	15	15	N	15	500	2.0	N	N	50	N	10	300	20	200	N
81ZN038B	100	20	N	20	1,000	2.0	N	N	70	<20	15	200	20	150	N
82IL015A	<10	5	N	20	20	N	N	N	<20	N	<5	<100	<10	50	N
82IL015B	15	N	N	<10	N	N	N	N	70	20	7	N	30	300	N
82IL015C	N	20	N	N	20	1.5	10	N	N	N	<5	<100	<10	10	N
82IL015D	<10	<5	N	15	<20	N	N	N	N	N	N	100	<10	N	N
82IL015E	N	10	N	<10	50	2.0	N	N	N	N	<5	<100	10	20	N
82IL015F	15	7	N	30	500	<1.0	N	N	70	N	15	200	20	100	N
82IL017A	N	<5	N	N	30	<1.0	N	N	N	N	<5	N	10	10	N
82IL018A	N	15	N	N	20	N	20	N	N	N	5	N	<10	15	N
82IL042D	50	15	N	15	1,500	1.0	N	N	50	N	15	100	15	70	N
82IL044A	<10	10	N	N	200	N	<10	N	N	N	<5	<100	10	10	N
82IL044B	N	<5	N	N	300	7.0	N	150	N	N	N	N	N	N	N
82IL044C	70	20	N	<10	100	N	N	N	N	N	30	300	30	50	N
82IL045A	300	70	N	<10	50	N	N	N	N	N	30	200	30	50	N
82IL047A	<10	15	N	N	<20	N	30	N	N	N	5	N	10	30	N
82IL052A	10	10	N	N	N	N	50	N	N	N	5	<100	20	15	N
82IL053B	15	15	N	15	200	<1.0	N	20	N	N	5	N	<10	30	N
82IL053C	15	15	N	10	50	N	N	<20	N	N	<5	N	<10	30	N
82IL060A	15	30	N	N	N	N	N	N	N	N	7	<100	15	30	N
82IL060B	10	100	N	N	<20	N	N	N	N	N	5	<100	20	50	N
82IL061A	<10	50	N	N	<20	N	N	N	N	N	7	200	10	15	N
82IL062B	10	7	N	10	70	<1.0	N	N	N	N	N	N	N	50	N
82IL064A	50	5	N	10	300	<1.0	N	N	100	N	15	700	50	30	N
82IL064B	<10	5	N	10	50	<1.0	30	<20	20	N	10	100	10	70	N
82IL067A	<10	5	N	<10	150	1.0	N	N	N	N	<5	200	<10	<10	N
82IL068A	N	10	N	<10	100	1.0	N	N	N	N	N	150	<10	15	N
82IL069A	50	15	N	<10	50	1.0	N	N	50	N	15	500	30	30	N

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
82IL069B	63 41 29	146 31 37	Clinopyroxene-calcite skarn	15	7.00	.30	10.00	.020	>5,000.0
82NK028A	63 32 22	146 58 9	Schistose quartz monzonite	20	.70	.10	.20	.070	150.0
82NK028B	63 32 22	146 58 9	Schistose diorite	20	5.00	2.00	2.00	.700	1,500.0
82NK031A	63 42 48	146 44 31	Quartz-chlorite-epidote schist	15	3.00	1.50	2.00	.200	200.0
82NK045A	63 15 37	144 17 10	Metaquartz andesite	15	1.00	.20	.05	.100	100.0
82NK045B	63 15 37	144 17 10	Hornblende-epidote metagabbro	20	5.00	2.00	1.50	.700	200.0
82NK046A	63 10 17	144 18 11	Quartz-biotite-kspar schist	13	1.00	.50	.30	.070	100.0
82NK095A	63 29 6	144 43 46	Carbonate-altered lamprophyre	20	3.00	3.00	2.00	.200	500.0
82NK095B	63 29 6	144 43 46	Olivine-clinopyroxene lamprophyre	20	3.00	3.00	2.00	.200	500.0
82NK095C	63 29 6	144 43 46	Olivine-clinopyroxene lamprophyre	20	3.00	2.00	2.00	.700	300.0
82NK095D	63 29 6	144 43 46	Olivine-clinopyroxene lamprophyre	20	3.00	2.00	2.00	.300	500.0
82NK095E	63 29 6	144 43 46	Carbonate-altered lamprophyre	20	3.00	3.00	2.00	.200	500.0
82NK096A	63 31 16	144 44 25	Pyroxene-hornblende lamprophyre	20	3.00	1.50	2.00	.200	500.0
82NK096B	63 31 16	144 44 25	Carbonate-alterd lamprophyre	20	3.00	2.00	2.00	.500	500.0
82NK096C	63 31 16	144 44 25	Pyroxene-hornblende lamprophyre	20	3.00	3.00	3.00	.700	500.0
82NK096D	63 31 16	144 44 25	Carbonate-altered lamprophyre	20	3.00	2.00	2.00	.500	300.0
82NK096E	63 31 16	144 44 25	Olivine-clinopyroxene lamprophyre	20	5.00	2.00	3.00	.500	500.0
82SB003A	63 42 25	146 44 17	Metaquartz andesite	15	1.00	.50	.05	.100	200.0
82SB028A	63 35 35	146 15 22	Quartz-graphite-calcite schist	15	2.00	.50	.10	.100	500.0
82SB028C	63 35 35	146 15 22	Quartz vein	15	1.50	.20	5.00	.020	2,000.0
82SB029A	63 35 33	146 15 8	Quartz-rich marble	15	.05	.20	20.00	.002	150.0
82SB030B1	63 35 34	146 15 0	Quartz schist with massive sulfide	15	20.00	.20	.05	.010	70.0
82SB030B2	63 35 34	146 15 0	Quartz schist with massive sulfide	15	20.00	.10	.07	.005	100.0
82SB044D	63 35 37	146 14 35	Quartz-chlorite-calcite schist	15	3.00	2.00	2.00	.700	500.0
82SB046A	63 35 40	146 13 32	Metarhyolite	15	1.00	.15	.05	.070	300.0
82SB046B	63 35 40	146 13 32	Metarhyolite	15	1.50	.02	<.05	.070	10.0

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
82IL069B	15	10	10	<10	25	N	N	N	N	N	N	N	50	<10
82NK028A	<5	N	10	30	35	N	N	N	N	N	N	N	N	10
82NK028B	55	70	5	N	10	N	N	N	N	N	N	N	20	100
82NK031A	<5	<5	5	<10	20	N	N	N	N	N	N	N	20	70
82NK045A	5	<5	15	10	20	N	N	N	N	N	N	N	<5	15
82NK045B	45	30	5	10	35	N	N	N	N	N	N	N	50	70
82NK046A	<5	<5	25	30	25	N	N	N	N	N	<10	N	N	15
82NK095A	50	50	30	30	50	N	N	N	N	N	N	200	50	70
82NK095B	85	50	15	30	40	N	N	N	N	N	N	N	50	70
82NK095C	15	20	15	10	65	N	N	N	N	N	N	N	50	70
82NK095D	90	50	15	30	60	N	N	N	N	N	N	N	30	70
82NK095E	30	20	20	15	45	N	N	N	N	N	N	N	50	70
82NK096A	50	30	15	50	50	N	N	N	N	N	N	N	30	70
82NK096B	50	20	15	30	60	N	N	N	N	N	N	N	30	70
82NK096C	30	50	20	50	50	N	<.5	N	N	N	N	N	30	70
82NK096D	50	20	20	20	55	N	N	N	N	N	N	N	30	70
82NK096E	35	30	20	30	55	N	N	N	N	N	N	N	50	70
82SB003A	20	10	5	N	25	N	N	N	N	N	N	N	<5	50
82SB028A	15	10	15	20	40	N	N	N	N	N	N	N	20	30
82SB028C	45	30	40	70	50	N	<.5	N	N	N	N	N	N	10
82SB029A	10	<5	55	<10	5	N	N	N	N	N	N	N	N	N
82SB030B1	1,400	1,000	30	10	30	N	.7	N	N	N	N	N	200	<10
82SB030B2	6,900	700	40	10	15	N	.7	N	N	N	N	N	300	N
82SB044D	30	30	20	<10	65	N	N	N	N	N	N	N	50	100
82SB046A	5	<5	15	30	140	200	N	N	10	N	20	N	N	N
82SB046B	<5	<5	10	20	10	N	N	N	10	N	10	N	N	N

TABLE 5. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, NORTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
82IL069B	<10	5	N	<10	<20	1.5	N	N	N	N	<5	<100	<10	10	N
82NK028A	N	<5	N	50	500	1.5	N	N	70	N	N	200	10	50	N
82NK028B	15	7	N	<10	150	1.0	N	N	N	N	15	700	20	N	N
82NK031A	100	10	N	10	150	<1.0	N	N	50	N	20	200	20	100	N
82NK045A	10	10	N	20	150	N	N	N	N	N	<5	N	<10	70	N
82NK045B	200	70	N	10	700	N	N	N	70	<20	15	700	20	50	N
82NK046A	N	N	N	15	300	1.0	N	N	50	N	5	150	15	50	N
82NK095A	1,000	300	N	10	100	1.5	N	N	N	N	15	500	20	70	N
82NK095B	1,000	150	N	<10	700	<1.0	N	N	N	N	20	500	20	50	N
82NK095C	500	20	N	10	200	<1.0	N	N	N	N	20	500	30	70	N
82NK095D	300	50	N	<10	1,000	1.0	N	N	<20	N	20	700	20	70	N
82NK095E	1,000	300	N	10	300	1.0	N	N	20	N	20	300	15	50	N
82NK096A	200	70	N	10	700	1.0	N	N	50	N	15	700	20	50	N
82NK096B	500	100	N	10	300	1.0	N	N	100	N	20	500	20	70	N
82NK096C	300	100	N	<10	1,000	<1.0	N	N	150	N	20	1,000	20	50	N
82NK096D	500	100	N	10	300	<1.0	N	N	50	<20	15	300	20	70	N
82NK096E	300	70	N	15	1,000	1.0	N	N	70	N	20	500	30	70	N
82SB003A	20	5	N	30	100	<1.0	N	N	N	N	5	N	10	70	N
82SB028A	50	50	N	20	100	<1.0	N	N	30	N	7	N	10	150	N
82SB028C	N	5	N	10	20	N	N	N	N	N	7	500	15	30	N
82SB029A	<10	N	N	N	<20	N	N	N	N	N	N	500	N	10	N
82SB030B1	N	15	N	N	N	N	20	N	N	N	N	N	N	N	N
82SB030B2	N	20	N	N	N	N	15	N	N	N	N	N	N	N	N
82SB044D	50	20	N	10	3,000	N	N	N	30	N	15	300	20	50	N
82SB046A	N	<5	N	15	500	1.5	N	N	150	30	N	N	50	200	N
82SB046B	N	N	N	10	500	<1.0	N	N	30	50	N	N	50	300	N

Table 6. EMISSION SPECTROGRAPHIC AND ATOMIC ABSORPTION ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES FROM THE SOUTHERN MOUNT HAYES QUADRANGLE, EASTERN ALASKA RANGE, ALASKA

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
78AL002B	63 18 39	145 41 27	Dacite porphyry	1	5.00	1.50	1.00	.300	700
78AL003A	63 19 48	145 43 32	Calcareous metadacite tuff	1	7.00	2.00	.70	.300	1,000
78AL003C	63 19 48	145 43 32	Quartz vein in dacite tuff	1	3.00	1.00	1.50	.150	500
78AL004C	63 20 46	145 43 30	Metaandesite	1	15.00	5.00	10.00	.700	2,000
78AL011B	63 5 25	145 37 27	Metabasalt	2	10.00	3.00	10.00	.700	1,000
78AL012A	63 5 20	146 24 30	Metagabbro	2	15.00	5.00	7.00	1.000	2,000
78AL014A	63 4 58	145 38 30	Epidotized vein	2	3.00	.50	5.00	.500	500
78AL018A	63 0 14	145 57 40	Epidote-chlorite metabasalt	2	3.00	2.00	2.00	.200	300
78AL018B	63 0 24	145 55 15	Metabasalt	2	3.00	2.00	2.00	.200	500
78AL019B	63 5 52	145 55 2	Serpentinized olivine cumulate	2	5.00	3.00	1.00	.100	1,000
78AL023B	63 11 13	145 53 52	Actinolite metadiabase	2	3.00	3.00	3.00	.200	2,000
78AL026A	63 7 56	145 55 43	Actinolite metagabbro	2	3.00	3.00	3.00	.150	2,000
78AL027A	63 8 13	145 55 3	Pillowed metabasalt	2	5.00	2.00	2.00	.700	1,500
78AL028A	63 8 42	145 55 10	Metabasalt	2	5.00	2.00	3.00	.700	2,000
78AL034A	63 6 24	145 37 59	Chlorite metabasalt	2	5.00	2.00	5.00	.700	3,000
78AL036A	63 14 36	146 4 37	Serpentinized olivine cumulate	2	15.00	7.00	.70	.700	3,000
78AL037A	63 13 48	146 3 36	Olivine-pyroxene cumulate	2	10.00	7.00	.50	.030	3,000
78AL038A	63 13 28	145 58 50	Olivine cumulate	2	5.00	5.00	.20	.050	1,000
78AL040A	63 12 40	145 54 7	Altered olivine cumulate	2	10.00	7.00	.15	.020	3,000
78AL041A	63 13 58	145 54 12	Metabasalt	2	7.00	.20	3.00	.700	3,000
78AL044A	63 7 8	145 26 54	Hornblende gabbro cumulate	2	7.00	3.00	7.00	.300	2,000
78AL045B	63 8 0	145 27 7	Granodiorite	6	3.00	1.00	5.00	.200	2,000
78AL046A	63 3 9	145 11 40	Granite	2	2.00	.20	.50	.200	200
78AL051A	63 1 35	145 13 28	Metarhyolite	2	2.00	.20	1.00	.200	1,500
78AL053A	63 1 13	145 10 36	Quartz latite porphyry	2	2.00	.50	1.00	.200	300
78AL054A	63 0 30	145 9 48	Diorite porphyry	2	2.00	.50	1.00	.200	1,000
78AL055A	63 0 25	145 8 49	Vitric volcanic breccia	2	7.00	3.00	2.00	1.000	3,000
78AL056A	63 0 29	145 5 42	Quartz monzonite porphyry	2	2.00	.50	.10	.100	300
78AL056B	63 0 29	145 5 42	Quartz monzonite porphyry	2	3.00	.10	.10	.100	200
78AL056C	63 0 29	145 5 42	Quartz monzonite porphyry	2	5.00	1.50	.10	.300	500
78NK127B	63 5 22	145 28 16	Greenstone	2	10.00	7.00	5.00	.500	2,000
78NK129B	63 17 44	145 39 50	Metaandesite-dacite porphyry	1	15.00	3.00	5.00	.500	2,000
78NK129D	63 17 44	145 39 50	Metaandesite-dacite skarn	1	10.00	2.00	10.00	.500	1,500
78NK130A	63 17 54	145 40 5	Metaandesite agglomerate	1	10.00	2.00	10.00	.500	1,500
78NK130B	63 17 54	145 40 5	Malachite nodule	1	7.00	2.00	7.00	.300	700
78NK130D	63 17 54	145 40 5	Chlorite-rich shears	1	10.00	2.00	10.00	1.000	1,000
78NK131A	63 21 43	145 40 50	Stained morainal chips	3	10.00	2.00	7.00	.700	1,000
78NK132A	63 21 36	145 40 54	Stained granofels	3	10.00	3.00	5.00	.700	1,500
78NK133C	63 21 37	145 41 27	Biotite schist	3	7.00	2.00	1.00	.300	200
78NK134A	63 21 21	145 41 12	Schist and granofels	1	5.00	2.00	.20	.200	1,500
78NK135A	63 21 11	145 42 10	Chlorite-plagioclase granofels	1	7.00	3.00	1.00	.500	1,000
78NK136B	63 21 0	145 42 6	Chlorite granofels	1	10.00	2.00	.10	.300	1,000
78NK137A	63 20 42	145 42 3	Metafelsic agglomerate	1	10.00	3.00	1.00	.500	1,500
78NK137B	63 20 42	145 42 3	Quartz-malachite vein	1	7.00	2.00	.70	.200	1,500
78NK137D	63 20 42	145 42 3	Metavolcanic dike	1	2.00	1.00	.15	.200	200

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
78AL002B	340	500	15	20	35	N	N	N	N	N	N	N	10.0	100
78AL003A	30	70	15	20	70	N	N	N	N	N	N	N	10.0	200
78AL003C	5,600	7,000	180	500	4,200	5,000	10.0	5,000	N	N	N	N	<5.0	50
78AL004C	40	150	25	<10	100	<200	N	N	N	N	N	N	100.0	300
78AL011B	20,000	20,000	15	<10	15	N	20.0	N	N	N	N	N	70.0	500
78AL012A	170	300	10	<10	45	<200	N	N	N	N	N	N	100.0	700
78AL014A	30	50	5	N	5	N	N	N	N	N	N	N	10.0	200
78AL018A	55	30	5	N	10	N	N	N	N	N	N	N	20.0	100
78AL018B	60	50	10	<10	20	N	N	N	N	N	N	N	50.0	200
78AL019B	160	100	20	N	25	N	N	N	N	N	N	N	70.0	70
78AL023B	120	100	15	N	35	N	N	N	N	N	N	N	50.0	150
78AL026A	120	70	15	N	40	N	N	N	N	N	N	N	50.0	200
78AL027A	300	300	10	N	35	N	N	N	N	N	N	N	50.0	300
78AL028A	60	100	10	N	55	N	N	N	N	N	N	N	50.0	300
78AL034A	440	300	10	N	70	N	N	N	N	N	N	N	50.0	300
78AL036A	140	200	25	N	75	N	N	N	N	N	N	N	150.0	20
78AL037A	100	100	25	N	40	N	N	N	N	N	N	N	150.0	30
78AL038A	120	100	25	N	40	N	N	N	N	N	N	N	70.0	30
78AL040A	85	100	20	N	35	N	N	N	N	N	N	N	100.0	20
78AL041A	65	100	5	N	50	N	N	N	N	N	N	N	50.0	300
78AL044A	20	50	20	N	35	N	N	N	N	N	N	N	50.0	300
78AL045B	6,600	5,000	10	20	20	N	2.0	N	N	N	N	N	15.0	150
78AL046A	25	50	15	30	20	N	N	N	N	N	N	N	N	20
78AL051A	45	50	10	10	55	N	N	N	N	N	N	N	N	<10
78AL053A	5	5	10	10	40	N	N	N	N	N	N	N	10.0	50
78AL054A	35	50	15	10	90	N	N	N	N	N	N	N	<5.0	100
78AL055A	35	70	20	<10	100	N	N	N	N	N	N	N	50.0	300
78AL056A	5	<5	10	N	45	N	N	N	N	N	N	N	<5.0	<10
78AL056B	5	<5	10	20	30	N	N	N	N	N	N	N	<5.0	<10
78AL056C	45	70	35	50	140	N	N	N	N	N	N	N	70.0	150
78NK127B	75	150	15	<10	35	N	N	N	N	N	N	N	100.0	500
78NK129B	80	150	15	20	70	N	N	N	N	N	N	N	70.0	1,000
78NK129D	20	30	10	10	45	N	N	N	N	N	N	N	70.0	500
78NK130A	15	30	20	20	50	<200	N	N	N	N	N	N	50.0	300
78NK130B	10,000	10,000	20	20	40	N	20.0	N	N	N	N	N	50.0	300
78NK130D	220	300	20	50	45	<200	N	N	N	N	N	N	70.0	500
78NK131A	600	500	10	15	30	N	N	N	N	N	N	N	70.0	300
78NK132A	190	200	15	<10	65	<200	N	N	N	N	N	N	70.0	500
78NK133C	35	50	15	<10	80	<200	N	N	N	N	N	N	10.0	300
78NK134A	65	100	240	500	460	500	15.0	N	N	N	N	N	10.0	200
78NK135A	40	100	20	30	65	N	N	N	N	N	N	N	20.0	300
78NK136B	95	200	35	100	140	<200	5.0	N	50	N	N	N	30.0	300
78NK137A	130	200	20	50	130	<200	N	N	N	N	N	N	70.0	500
78NK137B	4,800	5,000	25	30	300	500	3.0	N	N	N	N	N	50.0	200
78NK137D	300	70	120	200	55	<200	5.0	N	50	N	N	300	N	50

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	S-Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
78AL002B	<10	10	N	20	1,000	<1.0	N	N	50	<20	20	300	20	100	N
78AL003A	<10	<5	N	50	1,000	1.0	N	N	50	<20	20	500	50	200	N
78AL003C	<10	<5	N	20	5,000	<1.0	N	100	50	<20	5	300	20	70	N
78AL004C	100	100	N	20	200	<1.0	N	N	50	<20	30	300	70	50	N
78AL011B	500	150	N	50	50	<1.0	N	N	50	<20	50	500	50	100	N
78AL012A	300	150	N	20	100	N	N	N	50	<20	70	300	50	200	N
78AL014A	100	20	N	50	20	N	N	N	50	<20	20	700	15	30	<100
78AL018A	500	100	N	<10	70	N	N	N	N	<20	15	200	N	20	<100
78AL018B	500	50	N	<10	700	N	N	N	N	<20	30	200	10	20	<100
78AL019B	3,000	700	N	50	50	N	N	N	<20	<20	10	N	N	<10	<100
78AL023B	150	100	N	10	500	N	N	N	50	<20	20	200	10	20	<100
78AL026A	70	70	N	10	200	N	N	N	<20	<20	20	200	10	30	<100
78AL027A	150	100	N	10	100	N	N	N	<20	<20	30	200	20	100	<100
78AL028A	200	100	N	10	200	N	N	N	50	<20	30	200	20	70	<100
78AL034A	150	70	N	20	200	N	N	N	<20	<20	30	300	30	100	<100
78AL036A	700	1,000	N	100	N	N	N	N	<20	<20	15	N	N	20	<100
78AL037A	5,000	1,000	N	20	N	N	N	N	<20	<20	10	N	N	<10	<100
78AL038A	2,000	1,000	N	15	N	N	N	N	50	<20	5	N	N	<10	<100
78AL040A	3,000	1,000	N	20	N	N	N	N	<20	<20	5	N	N	N	<100
78AL041A	200	100	N	10	100	N	N	N	<20	<20	30	300	30	70	<100
78AL044A	50	20	N	20	300	N	N	N	50	<20	30	2,000	20	30	N
78AL045B	<10	5	N	10	700	1.0	N	N	50	<20	10	2,000	20	20	N
78AL046A	<10	5	N	10	1,500	1.5	N	N	70	<20	5	100	30	70	N
78AL051A	N	<5	N	10	1,000	1.0	N	N	70	<20	20	100	70	200	N
78AL053A	N	<5	N	10	2,000	1.0	N	N	50	<20	10	150	30	150	N
78AL054A	N	<5	N	50	3,000	1.0	N	N	<20	<20	5	500	20	30	N
78AL055A	20	<5	N	20	1,000	<1.0	N	N	50	<20	30	200	30	100	N
78AL056A	<10	<5	N	10	300	<1.0	N	N	<20	<20	5	100	15	100	N
78AL056B	<10	<5	N	<10	200	<1.0	N	N	50	<20	<5	<100	20	70	N
78AL056C	<10	5	N	10	100	N	N	N	50	<20	20	<100	10	30	N
78NK127B	1,000	200	N	20	300	N	N	N	50	<20	50	300	30	30	N
78NK129B	50	20	N	20	300	N	N	N	50	<20	50	700	50	50	N
78NK129D	70	20	N	50	50	N	N	N	50	<20	50	700	30	30	N
78NK130A	50	10	N	70	1,000	<1.0	N	N	50	<20	30	200	20	30	N
78NK130B	20	10	N	100	500	<1.0	N	N	50	<20	30	200	50	30	N
78NK130D	200	100	N	20	100	N	N	N	50	<20	30	1,500	50	100	N
78NK131A	20	10	N	20	200	N	N	N	50	<20	30	1,000	50	50	N
78NK132A	100	50	N	20	50	N	N	N	50	<20	50	200	50	50	N
78NK133C	100	30	N	50	1,500	1.0	N	N	50	<20	20	100	30	50	N
78NK134A	20	<5	N	30	>5,000	<1.0	N	N	50	<20	20	200	10	50	N
78NK135A	50	10	N	30	1,000	N	N	N	50	<20	30	300	20	50	N
78NK136B	20	10	N	20	3,000	N	N	N	50	<20	30	<100	20	50	N
78NK137A	50	15	N	20	1,500	N	N	N	50	<20	50	300	20	50	N
78NK137B	<10	10	N	20	1,500	<1.0	N	N	50	<20	20	200	20	100	N
78NK137D	<10	<5	N	50	>5,000	N	N	N	50	<20	10	500	20	100	N

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
78NK138B	63 20 39	145 43 14	Quartz-biotite granofels	1	7.00	1.00	3.00	.500	1,500
78NK152B	63 5 22	145 41 2	Greenstone	2	7.00	2.00	3.00	.700	3,000
78NK153A	63 5 40	145 40 42	Quartz-epidote vein	2	10.00	2.00	5.00	1.000	3,000
78NK154A	63 6 2	145 41 4	Metagabbro	2	2.00	3.00	5.00	.100	1,000
78NK156A	63 5 58	145 44 36	Clinopyroxene-plagioclase cumulate	2	10.00	7.00	5.00	.300	3,000
78NK157A	63 0 26	145 33 48	Cu-stained greenstone	2	10.00	2.00	1.00	.700	3,000
78NK158A	63 6 50	145 45 18	Metagabbro	2	2.00	3.00	7.00	.100	1,000
78NK158B	63 6 50	145 45 18	Olivine-clinopyroxene cumulate	2	20.00	5.00	5.00	.050	1,000
78NK164A	63 7 24	145 52 40	Greenstone	2	10.00	3.00	7.00	.500	1,500
78NK165B	63 18 34	146 3 36	Metadacite tuff	1	3.00	3.00	1.00	.300	3,000
78NK168A	63 27 5	146 59 35	Schistose granodiorite	3	3.00	1.00	1.00	.300	500
78NK169A	63 20 0	146 54 14	Schistose quartz gabbro	3	5.00	2.00	2.00	.500	2,000
78NK170A	63 14 40	146 53 20	Phyllonite	3	5.00	2.00	2.00	.300	2,000
78NK171B	63 11 16	146 56 31	Granofels	4	7.00	2.00	1.00	.300	3,000
78NK172A	63 15 12	146 35 7	Metabasalt	2	10.00	3.00	5.00	.500	2,000
78NK174A	63 1 10	144 14 27	Metatuff	1	5.00	2.00	1.00	.200	500
78NK178A	63 14 0	145 31 12	Argillite	1	3.00	1.00	<.05	.300	200
78NK178B	63 14 0	145 31 12	Crystal tuff	1	2.00	.70	1.00	.200	500
78NK179A	63 15 16	145 30 40	Metasiltstone	1	3.00	1.00	1.00	.200	1,000
78NK180A	63 16 16	145 31 39	Metaandesite	1	10.00	3.00	.20	.500	2,000
78NK181A	63 16 8	145 32 26	Metaandesite tuff	1	3.00	3.00	1.00	.200	700
78NK182A	63 17 10	145 34 10	Metatuff	1	10.00	3.00	1.00	.500	2,000
78NK183A	63 17 34	145 33 10	Metaandesite tuff	1	7.00	2.00	.20	.500	1,000
78NK186A	63 18 42	145 38 0	Andesite-dacite flow	1	3.00	1.50	.07	.300	3,000
78NK187A	63 20 4	145 40 41	Chlorite granofels	1	5.00	1.50	2.00	.300	1,000
78NK189A	63 20 34	145 40 32	Chlorite granofels	1	3.00	1.50	.50	.200	3,000
78NK193A	63 2 31	145 22 0	Metabasalt	2	10.00	3.00	5.00	.700	3,000
78NK197A	63 7 3	145 25 36	Quartz monzonite	6	3.00	1.50	2.00	.200	1,000
78NK198A	63 6 36	145 25 52	Hornblende pyroxenite	6	5.00	5.00	10.00	.300	3,000
78NK200A	63 15 42	145 50 58	Greenstone	1	10.00	5.00	5.00	.300	2,000
78NK202A	63 18 58	146 28 48	Metagabbro	1	3.00	1.50	2.00	.200	700
78NK202B	63 18 58	146 28 48	Quartz-carbonate-sulfide vein	1	2.00	1.50	7.00	.050	2,000
78NK205A	63 2 53	144 15 35	Greenstone	1	3.00	2.00	1.00	.300	1,000
78NK206A	63 0 25	145 3 32	Greenstone	2	10.00	3.00	5.00	.500	2,000
78NK207A	63 0 40	145 5 23	Quartz monzonite	2	5.00	1.50	1.00	.300	2,000
78NK209A	63 2 29	144 58 36	Metabasalt	2	3.00	.50	1.00	.200	500
78NK210A	63 3 4	144 53 54	Leucocratic quartz diorite	6	3.00	1.00	7.00	.200	300
78NK212A	63 1 54	144 45 14	Metabasalt	2	3.00	1.50	2.00	.500	1,500
78NK214A	63 6 44	146 1 33	Greenstone	2	7.00	3.00	5.00	.500	1,500
78NK215A	63 7 18	146 2 30	Pillowed metabasalt	2	10.00	5.00	5.00	.300	2,000
78NK216A	63 7 50	146 12 10	Pillowed metabasalt	2	7.00	3.00	5.00	.500	2,000
78NK218A	63 14 16	146 23 30	Pillowed metabasalt	2	5.00	3.00	3.00	.500	1,500
78NK219A	63 9 41	146 21 12	Pillowed metabasalt	2	7.00	3.00	5.00	.700	2,000

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
78NK138B	85	150	15	20	70	<200	N	N	N	N	N	N	20.0	200
78NK152B	70	150	10	<10	55	N	N	N	N	N	N	N	50.0	300
78NK153A	45	100	10	<10	55	N	N	N	N	N	N	N	70.0	300
78NK154A	15	10	10	<10	20	N	N	N	N	N	N	N	20.0	150
78NK156A	190	300	10	N	25	N	N	N	N	N	N	N	70.0	200
78NK157A	26,000	20,000	20	<10	120	N	20.0	N	N	N	N	N	50.0	300
78NK158A	500	500	15	N	15	N	N	N	N	N	N	N	50.0	200
78NK158B	3,200	5,000	15	<10	30	N	N	N	N	N	N	N	200.0	70
78NK164A	130	200	10	N	35	N	N	N	N	N	N	N	50.0	200
78NK165B	35	70	20	30	300	500	N	N	N	N	N	N	15.0	200
78NK168A	15	15	10	20	75	N	N	N	N	N	N	N	15.0	100
78NK169A	10	15	15	20	70	N	N	N	N	N	N	N	20.0	200
78NK170A	80	100	25	20	95	N	N	N	N	N	N	N	50.0	200
78NK171B	45	50	25	50	90	N	N	N	N	N	N	N	10.0	200
78NK172A	300	200	15	<10	65	N	N	N	N	N	N	N	70.0	300
78NK174A	640	1,500	20	<10	65	N	N	N	N	N	N	N	20.0	200
78NK178A	80	200	25	20	120	<200	N	N	N	N	N	N	10.0	200
78NK178B	35	70	50	50	70	N	N	N	N	N	N	N	<5.0	20
78NK179A	60	70	15	<10	85	N	N	N	N	N	N	N	20.0	200
78NK180A	140	200	25	20	200	N	N	N	N	N	N	N	50.0	300
78NK181A	110	300	25	30	80	N	N	N	N	N	N	N	20.0	100
78NK182A	25	70	25	20	140	N	N	N	N	N	N	N	30.0	200
78NK183A	25	70	20	30	50	N	.5	N	N	N	N	N	50.0	200
78NK186A	75	100	300	500	700	500	.5	N	N	N	N	N	15.0	200
78NK187A	45	70	20	20	65	N	N	N	N	N	N	N	15.0	150
78NK189A	65	100	55	50	130	N	5.0	N	N	N	N	N	15.0	150
78NK193A	35	70	15	<10	100	N	N	N	N	N	N	N	50.0	200
78NK197A	30	50	5	20	20	N	N	N	N	N	N	N	20.0	150
78NK198A	10	10	10	N	25	<200	N	N	N	N	N	N	50.0	300
78NK200A	120	200	25	<10	85	N	N	N	N	N	N	N	100.0	300
78NK202A	100	100	10	<10	50	N	N	N	N	N	N	N	20.0	100
78NK202B	1,600	1,500	25	10	110	N	.7	500	N	50	N	N	20.0	50
78NK205A	60	50	15	10	120	N	N	N	N	N	N	N	20.0	200
78NK206A	50	70	65	<10	90	N	N	N	N	N	N	N	70.0	300
78NK207A	520	500	30	30	110	N	N	N	N	N	N	N	10.0	100
78NK209A	40	50	10	<10	65	N	N	N	N	N	N	N	10.0	10
78NK210A	10	5	10	<10	10	N	N	N	N	N	N	N	<5.0	100
78NK212A	120	200	15	<10	80	N	N	N	N	N	N	N	20.0	200
78NK214A	110	200	15	N	55	N	N	N	N	N	N	N	50.0	200
78NK215A	50	70	15	<10	45	N	N	N	N	N	N	N	70.0	200
78NK216A	150	200	15	N	80	N	N	N	N	N	N	N	50.0	200
78NK218A	30	50	10	N	55	N	N	N	N	N	N	N	50.0	200
78NK219A	40	70	15	N	75	N	N	N	N	N	N	N	70.0	200

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	S-Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
78NK138B	30	10	N	100	500	1.0	N	N	50	<20	30	300	50	50	N
78NK152B	150	100	N	20	100	N	N	N	<20	<20	30	300	30	70	<100
78NK153A	300	100	N	20	100	N	N	N	<20	<20	30	500	30	150	<100
78NK154A	700	100	N	50	100	N	N	N	<20	<20	20	500	N	<10	<100
78NK156A	>5,000	500	N	20	50	N	N	N	<20	<20	50	N	10	20	<100
78NK157A	100	50	N	20	100	N	N	N	<20	<20	30	200	30	70	<100
78NK158A	200	200	N	15	150	N	N	N	<20	<20	30	500	N	<10	<100
78NK158B	2,000	1,000	N	20	N	N	N	N	<20	<20	20	N	N	N	<100
78NK164A	200	200	N	10	100	N	N	N	50	<20	30	300	20	70	<100
78NK165B	100	50	N	10	300	N	N	N	<20	<20	20	200	10	50	<100
78NK168A	50	10	N	10	1,000	1.0	N	N	50	<20	10	300	15	70	N
78NK169A	70	20	N	10	1,000	1.0	N	N	70	<20	20	1,000	30	200	N
78NK170A	100	70	N	50	700	<1.0	N	N	50	<20	20	500	30	70	N
78NK171B	70	20	N	20	500	<1.0	N	N	50	<20	20	300	20	50	N
78NK172A	200	100	N	20	100	N	N	N	50	<20	50	200	30	100	N
78NK174A	50	5	N	<10	<20	N	N	N	50	<20	20	200	10	50	N
78NK178A	70	50	N	100	300	1.0	N	N	50	<20	20	150	30	100	N
78NK178B	<10	<5	N	20	1,000	<1.0	N	N	70	<20	10	300	20	100	N
78NK179A	<10	7	N	100	700	N	N	N	50	<20	20	<100	20	50	N
78NK180A	<10	7	N	<10	500	N	N	N	50	<20	30	<100	10	20	N
78NK181A	50	10	N	20	500	<1.0	N	N	50	<20	15	N	20	100	N
78NK182A	50	7	N	20	1,000	N	N	N	<20	<20	30	100	10	20	N
78NK183A	<10	5	N	20	700	N	N	N	<20	<20	30	<100	10	30	N
78NK186A	30	5	N	20	3,000	N	N	N	50	<20	30	N	10	70	N
78NK187A	20	5	N	20	100	<1.0	N	N	50	<20	30	200	20	70	N
78NK189A	<10	5	N	20	3,000	N	N	N	<20	<20	30	N	10	50	N
78NK193A	200	100	N	20	100	N	N	N	50	<20	50	100	30	100	N
78NK197A	<10	10	N	20	1,000	<1.0	N	N	50	<20	15	1,000	20	200	N
78NK198A	100	50	N	10	100	<1.0	N	N	50	<20	70	200	30	20	N
78NK200A	500	150	N	20	500	<1.0	N	N	50	<20	50	300	30	70	N
78NK202A	N	5	N	10	1,000	<1.0	N	N	50	<20	20	300	20	70	N
78NK202B	N	5	N	20	2,000	N	N	N	50	<20	5	200	10	10	N
78NK205A	<10	10	N	10	500	N	N	N	50	<20	20	200	20	20	N
78NK206A	100	100	N	50	300	<1.0	N	N	50	<20	30	200	20	50	N
78NK207A	<10	7	N	10	300	1.0	N	N	50	<20	20	200	30	70	N
78NK209A	N	<5	N	10	1,500	1.0	N	N	50	<20	20	300	30	50	N
78NK210A	N	<5	N	10	200	1.0	N	N	50	<20	20	700	50	100	N
78NK212A	N	5	N	10	150	<1.0	N	N	50	<20	30	200	20	70	N
78NK214A	500	100	N	10	300	N	N	N	<20	<20	30	200	20	30	N
78NK215A	2,000	500	N	20	100	N	N	N	<20	<20	30	150	20	20	N
78NK216A	100	100	N	10	150	N	N	N	50	<20	30	200	30	100	N
78NK218A	100	70	N	10	150	N	N	N	50	<20	30	150	20	70	N
78NK219A	200	100	N	<10	200	N	N	N	<20	<20	50	150	20	70	N

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
79CH001A	63 10 37	145 56 36	Pillowed metabasalt	2	20.00	5.00	7.00	>1.000	1,000
79CH002A	63 10 28	145 56 10	Pillowed metabasalt	2	15.00	10.00	10.00	>1.000	1,500
79CH003A	63 10 8	145 55 46	Pillowed metabasalt	2	>20.00	7.00	7.00	>1.000	1,000
79CH004A	63 9 59	145 54 59	Metabasalt	2	>20.00	10.00	10.00	>1.000	2,000
79CH005A	63 9 42	145 54 54	Metabasalt	2	20.00	7.00	5.00	>1.000	1,500
79CH006A	63 9 18	145 55 0	Metabasalt	2	20.00	7.00	5.00	>1.000	1,500
79CH007A	63 8 56	145 54 38	Metabasalt	2	20.00	7.00	5.00	>1.000	1,000
79CH008A	63 8 44	145 55 5	Metagabbro	2	15.00	5.00	10.00	>1.000	1,500
79CH009A	63 19 7	146 3 36	Serpentinized olivine cumulate	1	15.00	>10.00	<.05	.030	700
79CH009B	63 19 7	146 3 36	Olivine-pyroxene cumulate	1	3.00	1.00	2.00	.300	1,000
79CH010A	63 19 16	146 3 54	Serpentinized olivine cumulate	1	>20.00	7.00	10.00	1.000	2,000
79CH010B	63 19 16	146 3 54	Serpentinized olivine cumulate	1	15.00	>10.00	<.05	.030	500
79CH010C	63 19 16	146 3 54	Metabasalt	1	>20.00	10.00	>20.00	1.000	>5,000
79CH010D	63 19 16	146 3 54	Serpentinized olivine cumulate	1	20.00	>10.00	<.05	.020	1,000
79CH011A	63 19 14	146 4 10	Welded tuff	1	5.00	3.00	.30	.700	150
79CH011B	63 19 14	146 4 10	Marble skarn	1	1.50	2.00	>20.00	.150	1,500
79CH011C	63 19 14	146 4 10	Metaandesite-dacite porphyry	1	3.00	3.00	3.00	1.000	500
79CH012A	63 19 2	146 4 5	Metabasalt	1	10.00	1.50	2.00	.500	500
79CH013A	63 18 50	146 4 0	Andesitic argillite	1	2.00	1.50	.15	.700	200
79CH014A	63 18 39	146 4 10	Metaandesite	1	7.00	3.00	5.00	1.000	700
79CH014B	63 18 39	146 4 10	Metadiabase dike	1	15.00	7.00	5.00	>1.000	700
79CH015A	63 18 31	146 4 12	Metaandesite	1	10.00	3.00	1.00	.700	700
79CH015B	63 18 31	146 4 12	Stained, altered metaandesite	1	15.00	3.00	2.00	.700	1,000
79CH016A	63 18 23	146 4 8	Metaandesite-dacite porphyry	1	15.00	5.00	3.00	1.000	1,000
79CH017A	63 18 6	146 3 58	Diabase altered to skarn	1	15.00	>10.00	5.00	.700	1,000
79CH018A	63 17 44	146 3 53	Serpentinized pyroxene cumulate	1	5.00	>10.00	<.05	.700	2,000
79CH019A	63 18 47	145 54 55	Serpentinized ultramafic cumulate	1	>20.00	>10.00	3.00	.050	1,500
79CH020A	63 18 39	145 55 6	Volcanic agglomerate	1	10.00	7.00	5.00	>1.000	300
79CH020B	63 18 39	145 55 6	Calcareous-tuffaceous breccia	1	3.00	3.00	>20.00	.500	150
79CH020C	63 18 39	145 55 6	Diabase dike	1	20.00	10.00	7.00	>1.000	1,000
79CH020D	63 18 39	145 55 6	Calcareous-tuffaceous breccia	1	>20.00	1.00	>20.00	.030	3,000
79CH022A	63 18 51	145 55 34	Limestone	1	20.00	3.00	10.00	.700	2,000
79CH023A	63 18 27	145 58 3	Tuffaceous volcanic breccia	1	15.00	10.00	7.00	1.000	1,000
79CH024A	63 18 18	145 57 53	Volcaniclastic metabasalt	1	15.00	>10.00	7.00	1.000	1,500
79CH025C	63 18 7	145 57 32	Mafic volcanic breccia	1	20.00	10.00	5.00	1.000	1,000
79CH027A	63 18 33	146 27 42	Metagranodiorite	6	15.00	5.00	5.00	1.000	1,000
79CH027B	63 18 33	146 27 42	Diabase dike	1	20.00	5.00	5.00	>1.000	1,500
79CH028A	63 18 26	146 27 40	Porphyritic diabase	1	15.00	7.00	5.00	.700	2,000
79CH028B	63 18 26	146 27 40	Metagranodiorite	6	15.00	3.00	3.00	.500	1,000
79CH029A	63 18 19	146 27 20	Metagranodiorite	6	10.00	1.50	2.00	.500	1,000
79CH030A	63 18 16	146 27 8	Marble	2	.10	2.00	>20.00	.015	50
79CH030B	63 18 16	146 27 8	Marble	2	.70	1.50	>20.00	.070	300
79CH031A	63 18 1	146 26 46	Argillite	2	7.00	1.50	3.00	1.000	700
79CH032A	63 17 57	146 26 36	Gabbro	2	15.00	5.00	3.00	.700	1,500
79CH033A	63 17 53	146 27 27	Argillite	2	10.00	2.00	.07	1.000	200

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
79CH001A	120	300	10	N	30	N	N	N	N	N	N	N	70.0	2,000
79CH002A	85	300	10	N	30	N	N	N	N	N	N	N	30.0	1,000
79CH003A	180	500	15	<10	40	N	N	N	N	N	N	N	100.0	2,000
79CH004A	95	500	10	N	60	<200	N	N	N	N	N	N	150.0	3,000
79CH005A	140	300	10	N	60	<200	N	N	N	N	N	N	50.0	1,500
79CH006A	360	500	15	N	75	<200	N	N	N	N	N	N	70.0	1,500
79CH007A	120	300	10	N	65	N	N	N	N	N	N	N	70.0	2,000
79CH008A	200	500	15	N	60	N	N	N	N	N	N	N	50.0	1,500
79CH009A	<5	30	35	N	25	N	N	N	N	N	50	N	200.0	50
79CH009B	10	7	10	<10	35	N	N	N	N	N	N	N	5.0	100
79CH010A	160	300	10	N	50	<200	1.0	N	N	N	N	N	100.0	2,000
79CH010B	20	50	40	<10	40	N	N	N	N	N	N	N	200.0	100
79CH010C	1,400	1,500	(20)	<10	25	N	N	N	N	N	N	N	30.0	1,000
79CH010D	20	50	35	N	45	<200	N	N	N	N	N	N	300.0	50
79CH011A	10	10	15	10	15	N	N	N	20	N	N	N	5.0	300
79CH011B	10	7	(70)	30	75	N	N	N	N	N	N	N	7.0	70
79CH011C	140	150	15	15	35	N	N	N	N	N	N	N	10.0	700
79CH012A	10	15	10	<10	15	N	N	N	N	N	N	N	5.0	50
79CH013A	10	7	10	N	45	N	.5	N	5	N	N	N	N	1,000
79CH014A	130	200	15	<10	30	N	N	N	N	N	N	N	7.0	700
79CH014B	40	50	25	15	65	N	N	N	N	N	N	N	70.0	1,000
79CH015A	35	30	15	10	65	N	N	N	N	N	N	N	15.0	500
79CH015B	140	200	15	10	110	<200	N	N	N	N	N	N	20.0	700
79CH016A	160	200	20	10	100	<200	N	N	N	N	N	N	30.0	1,000
79CH017A	90	150	15	<10	45	<200	N	N	N	N	N	N	100.0	300
79CH018A	30	100	40	<10	50	<200	N	N	N	N	N	N	150.0	200
79CH019A	<5	<5	35	N	50	N	N	N	N	N	N	N	500.0	300
79CH020A	N	N	20	<10	25	N	N	N	N	N	N	N	15.0	1,000
79CH020B	15	10	(65)	50	80	N	N	N	N	N	N	N	5.0	150
79CH020C	200	300	15	N	70	<200	N	N	N	N	N	N	100.0	1,500
79CH020D	20	50	35	<10	10	N	N	N	N	N	N	N	10.0	150
79CH022A	<5	N	20	<10	30	N	N	N	N	N	N	N	20.0	300
79CH023A	60	100	15	N	20	N	N	N	N	N	N	N	70.0	1,000
79CH024A	140	300	25	N	85	<200	N	N	N	N	N	N	100.0	700
79CH025C	80	150	25	<10	45	N	N	N	N	N	N	N	100.0	1,000
79CH027A	240	300	20	30	70	N	N	N	N	N	N	N	30.0	700
79CH027B	280	500	15	10	45	N	N	N	N	N	N	N	100.0	2,000
79CH028A	<5	5	20	N	40	N	N	N	N	N	N	N	50.0	1,500
79CH028B	65	50	15	<10	50	N	N	N	N	N	N	N	15.0	500
79CH029A	10	10	15	10	50	N	N	N	N	N	N	N	7.0	150
79CH030A	<5	N	(70)	<10	10	N	N	N	N	N	N	N	N	30
79CH030B	10	<5	(70)	10	20	N	N	N	N	N	N	N	N	150
79CH031A	40	100	15	10	280	300	.5	N	15	N	N	N	7.0	1,000
79CH032A	<5	<5	10	<10	30	N	N	N	N	N	N	N	20.0	700
79CH033A	30	20	20	<10	75	<200	<.5	N	5	N	N	N	N	300

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	S-Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
79CH001A	500	200	N	<10	70	<1.0	N	N	N	N	30	200	20	50	N
79CH002A	700	300	N	<10	50	<1.0	N	N	N	N	30	200	20	20	N
79CH003A	500	300	N	<10	100	<1.0	N	N	N	N	50	200	30	70	N
79CH004A	700	300	N	<10	20	N	N	N	N	N	50	150	30	70	N
79CH005A	300	200	N	<10	100	<1.0	N	N	N	N	50	200	30	70	N
79CH006A	200	150	N	<10	50	<1.0	N	N	N	N	30	100	20	30	N
79CH007A	500	200	N	<10	50	<1.0	N	N	N	N	30	150	20	50	N
79CH008A	300	200	N	<10	50	<1.0	N	N	N	N	50	300	50	70	N
79CH009A	>5,000	5,000	N	70	N	N	N	N	N	N	<5	N	N	N	N
79CH009B	10	5	N	N	500	1.0	N	N	N	N	10	300	30	150	N
79CH010A	300	200	N	10	700	<1.0	N	N	N	N	70	500	30	20	N
79CH010B	>5,000	5,000	N	100	N	N	N	N	N	N	5	<100	N	N	N
79CH010C	150	150	N	<10	N	N	N	N	N	N	15	N	10	N	N
79CH010D	>5,000	5,000	N	150	N	N	N	N	N	N	<5	N	N	N	N
79CH011A	20	10	N	N	700	<1.0	N	N	20	N	10	150	N	50	N
79CH011B	50	50	N	500	N	N	N	N	N	N	<5	150	10	<10	N
79CH011C	100	70	N	N	700	<1.0	N	N	20	N	15	1,000	<10	50	N
79CH012A	50	20	N	N	200	N	N	N	N	N	15	300	30	50	N
79CH013A	100	30	N	N	1,500	<1.0	N	N	N	N	10	<100	20	50	N
79CH014A	30	7	N	N	20	N	N	N	N	N	20	500	15	10	N
79CH014B	1,500	300	N	N	1,000	<1.0	N	N	20	N	20	1,000	20	70	N
79CH015A	15	10	N	N	70	<1.0	N	N	N	N	20	100	20	30	N
79CH015B	30	20	N	50	500	<1.0	N	N	N	N	30	100	15	30	N
79CH016A	30	20	N	<10	1,000	<1.0	N	N	N	N	50	500	10	15	N
79CH017A	5,000	3,000	N	<10	<20	<1.0	N	N	N	N	20	N	10	20	N
79CH018A	>5,000	5,000	N	N	<20	<1.0	N	N	N	N	10	N	N	10	N
79CH019A	>5,000	5,000	N	<10	N	N	N	N	N	N	15	N	N	N	N
79CH020A	1,500	1,500	N	N	N	<1.0	N	N	N	N	20	N	15	20	N
79CH020B	150	70	N	70	100	N	N	N	N	N	7	700	10	10	N
79CH020C	1,000	300	N	<10	70	N	N	N	N	N	50	200	30	50	N
79CH020D	30	20	N	<10	20	N	N	N	N	N	N	100	10	N	N
79CH022A	300	100	N	<10	20	<1.0	N	N	N	N	15	N	<10	30	N
79CH023A	1,500	1,500	N	<10	50	<1.0	N	N	N	N	30	300	20	50	N
79CH024A	3,000	2,000	N	<10	20	<1.0	N	N	N	N	30	150	20	50	N
79CH025C	2,000	1,500	N	<10	70	<1.0	N	N	N	N	30	200	20	30	N
79CH027A	30	20	N	N	700	<1.0	N	N	N	N	50	500	30	50	N
79CH027B	100	150	N	<10	150	<1.0	N	N	N	N	50	200	30	70	N
79CH028A	70	50	N	<10	500	N	N	N	N	N	70	500	15	<10	N
79CH028B	30	15	N	N	700	<1.0	N	N	<20	N	30	300	30	50	N
79CH029A	15	10	N	N	1,500	<1.0	N	N	N	N	10	300	30	100	N
79CH030A	<10	N	N	N	N	N	N	N	N	N	N	700	N	N	N
79CH030B	50	5	N	N	50	N	N	N	N	N	<5	1,000	20	<10	N
79CH031A	100	70	N	N	2,000	<1.0	N	N	20	N	20	700	50	70	N
79CH032A	100	20	N	20	500	N	N	N	N	N	30	500	20	50	N
79CH033A	50	10	N	70	1,500	<1.0	N	N	N	N	20	100	<10	50	N

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
79CH034A	63 17 46	146 27 36	Pillowed amygdaloidal metabasalt	2	20.00	7.00	10.00	>1.000	1,500
79CH035A	63 18 20	146 41 12	Metaandesite	1	10.00	2.00	1.50	.300	700
79CH035B	63 18 20	146 41 12	Metavolcanic greywacke	1	10.00	3.00	1.50	.700	700
79CH035C	63 18 20	146 41 12	Metavolcanic greywacke	1	5.00	2.00	15.00	.500	1,000
79CH036A	63 18 10	146 40 17	Serpentinized olivine cumulate	1	15.00	10.00	.50	.300	700
79CH036B	63 18 10	146 40 17	Serpentinized olivine cumulate	1	15.00	>10.00	1.00	.300	1,000
79CH036C	63 18 10	146 40 17	Metadiabase	1	10.00	7.00	5.00	.700	1,000
79CH037A	63 18 11	146 39 30	Marble	1	.50	1.50	20.00	.030	1,500
79CH037B	63 18 11	146 39 30	Metaandesite dike	1	15.00	5.00	7.00	.500	1,000
79CH037C	63 18 11	146 39 30	Metadiabase	1	10.00	5.00	7.00	1.000	700
79CH038A	63 18 15	146 38 43	Metaandesite tuff	1	7.00	3.00	7.00	1.000	1,000
79CH038B	63 18 15	146 38 43	Metagabbro dike	1	15.00	5.00	5.00	>1.000	1,500
79CH039A	63 18 24	146 37 48	Greenstone	1	20.00	3.00	5.00	>1.000	1,500
79CH040A1	63 18 24	146 37 32	Metachert	1	10.00	3.00	10.00	.300	5,000
79CH040A2	63 18 24	146 37 32	Metachert	1	>20.00	1.50	10.00	.015	>5,000
79CH040B	63 18 24	146 37 32	Diorite porphyry	6	3.00	1.00	1.50	.200	700
79CH041A	63 18 21	146 36 56	Metadiabase	1	15.00	5.00	7.00	.700	1,000
79CH041B	63 18 21	146 36 56	Metachert	1	1.00	.70	.30	.200	1,000
79CH042A	63 16 55	146 34 20	Metabasalt	2	15.00	3.00	10.00	>1.000	1,500
79CH042B	63 16 55	146 34 20	Metadiabase dike	2	15.00	3.00	5.00	>1.000	1,500
79CH043A	63 16 48	146 34 42	Metagabbro dike	2	15.00	5.00	5.00	1.000	1,500
79CH044A	63 16 42	146 35 36	Metabasalt	2	15.00	5.00	7.00	>1.000	1,500
79CH045A	63 17 0	146 36 40	Metabasalt	2	15.00	5.00	5.00	>1.000	1,500
79CH046A	63 17 8	146 36 14	Metabasalt	2	10.00	3.00	5.00	1.000	1,000
79CH048A	63 18 22	146 36 21	Diorite porphyry	6	5.00	1.50	2.00	.300	700
79CH048B	63 18 22	146 36 21	Metadiabase	1	10.00	5.00	7.00	.700	1,500
79CH049A	63 18 19	146 35 55	Greenstone	1	15.00	7.00	7.00	.300	1,000
79CH049B	63 18 19	146 35 55	Greenstone	1	15.00	5.00	7.00	.500	1,500
79CH050A	63 18 25	146 35 14	Metachert	1	.50	.15	.05	.150	10
79CH051A	63 18 28	146 35 0	Greenstone	1	20.00	10.00	5.00	1.000	1,500
79CH052A	63 18 30	146 34 26	Greenstone	1	15.00	5.00	5.00	1.000	1,500
79CH052B	63 18 30	146 34 26	Porphyritic metaandesite	1	3.00	.70	1.00	.200	500
79CH053A	63 18 4	146 33 10	Metabasalt	2	15.00	5.00	5.00	.500	1,000
79CH054A	63 8 0	146 1 40	Metabasalt	2	15.00	5.00	7.00	>1.000	1,000
79CH058A	63 7 49	146 0 30	Metabasalt	2	15.00	5.00	3.00	>1.000	1,000
79CH059A	63 7 42	146 0 24	Pillowed metabasalt	2	20.00	5.00	5.00	>1.000	2,000
79CH060A	63 7 40	146 0 12	Pillowed metabasalt	2	10.00	5.00	7.00	.500	1,500
79CH061A	63 8 0	144 45 24	Metaandesite	1	3.00	.70	1.00	.300	500
79CH061B	63 8 7	144 45 24	Amygdaloidal metaandesite	1	5.00	2.00	.30	.300	1,000
79CH063A	63 7 18	144 42 30	Metaandesite agglomerate	1	10.00	3.00	5.00	.500	700
79CH065A	63 7 30	144 42 48	Amygdaloidal metabasalt	1	15.00	3.00	2.00	.700	1,500
79CH066A	63 6 22	144 44 6	Tuffaceous greywacke	1	5.00	1.50	.70	.700	3,000
79CH066D	63 6 22	144 44 6	Metaandesite porphyry	1	10.00	3.00	1.50	.700	1,500
79CH067A	63 6 6	144 44 18	Tuffaceous breccia	1	1.00	.70	.07	.070	150
79CH068A	63 6 0	144 44 24	Dacite porphyry	1	3.00	2.00	.50	.500	500

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
79CH034A	85	150	25	N	90	<200	N	N	N	N	N	N	100.0	1,500
79CH035A	15	10	15	<10	45	N	N	N	N	N	N	N	10.0	300
79CH035B	30	50	30	10	95	<200	N	N	N	N	N	N	20.0	300
79CH035C	25	70	(25)	10	55	N	N	N	N	N	N	N	7.0	150
79CH036A	10	5	25	<10	35	<200	N	N	N	N	N	N	200.0	100
79CH036B	10	<5	35	N	45	<200	N	N	N	N	N	N	200.0	200
79CH036C	300	500	10	<10	30	N	N	N	N	N	N	N	100.0	300
79CH037A	10	5	(70)	<10	20	N	N	N	N	N	N	N	N	50
79CH037B	90	150	10	10	25	<200	N	N	N	N	N	N	50.0	500
79CH037C	50	150	10	<10	25	<200	N	N	N	N	N	N	70.0	700
79CH038A	10	<5	10	<10	10	N	N	N	N	N	N	N	7.0	500
79CH038B	340	500	10	<10	35	<200	N	N	N	N	N	N	100.0	1,000
79CH039A	440	500	5	N	25	<200	N	N	N	N	N	N	150.0	1,500
79CH040A	25	15	10	<10	30	N	N	N	N	N	N	N	10.0	150
79CH040A	3,000	5,000	15	10	20	N	1.0	N	5	N	N	N	1,000.0	30
79CH040B	55	100	10	<10	40	N	N	N	N	N	N	N	7.0	150
79CH041A	95	150	10	10	5	<200	N	N	N	N	N	N	50.0	500
79CH041B	5	<5	10	N	30	N	N	N	N	N	N	N	5.0	50
79CH042A	560	700	10	N	30	N	N	N	N	N	N	N	70.0	1,000
79CH042B	210	300	15	N	45	<200	N	N	N	N	N	N	50.0	1,000
79CH043A	40	100	15	N	55	<200	N	N	N	N	N	N	50.0	700
79CH044A	90	150	20	N	70	<200	N	N	N	N	N	N	100.0	1,000
79CH045A	75	100	20	N	65	<200	N	N	N	N	N	N	70.0	1,000
79CH046A	140	150	40	<10	100	<200	N	N	N	N	N	N	50.0	300
79CH048A	30	20	10	<10	30	N	N	N	N	N	N	N	7.0	200
79CH048B	70	100	5	10	25	<200	N	N	N	N	N	N	50.0	500
79CH049A	60	150	10	<10	10	N	N	N	N	N	N	N	70.0	500
79CH049B	80	70	15	<10	20	<200	N	N	N	N	N	N	50.0	500
79CH050A	110	100	5	N	65	N	N	N	N	N	N	N	5.0	50
79CH051A	45	100	20	<10	45	<200	N	N	N	N	N	N	150.0	500
79CH052A	130	200	10	<10	20	<200	N	N	N	N	N	N	70.0	500
79CH052B	5	<5	10	10	25	N	N	N	N	N	N	N	5.0	100
79CH053A	150	200	10	<10	10	N	N	N	N	N	N	N	50.0	500
79CH054A	35	70	20	<10	90	N	N	N	N	N	N	N	100.0	700
79CH058A	50	150	15	N	85	N	N	N	N	N	N	N	70.0	700
79CH059A	160	300	25	N	80	<200	N	N	N	N	N	N	100.0	2,000
79CH060A	140	150	20	N	65	N	N	N	N	N	N	N	30.0	300
79CH061A	5	5	20	<10	40	N	N	N	N	N	N	N	5.0	70
79CH061B	40	30	10	<10	75	N	N	N	N	N	N	N	10.0	50
79CH063A	45	200	10	10	20	<200	N	N	N	N	N	N	30.0	300
79CH065A	25	20	(25)	10	85	<200	N	N	N	N	N	N	30.0	700
79CH066A	<5	<5	15	10	65	N	N	N	N	N	N	N	5.0	200
79CH066D	90	150	(40)	30	90	N	N	N	N	N	N	N	N	500
79CH067A	<5	<5	5	N	30	<200	N	N	N	N	N	N	N	<10
79CH068A	50	50	10	10	20	N	N	N	N	N	N	N	7.0	200

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	S-Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
79CH034A	300	200	N	<10	20	<1.0	N	N	N	N	70	150	30	10	N
79CH035A	20	10	N	10	150	<1.0	N	N	N	N	20	200	15	50	N
79CH035B	30	20	N	15	300	1.0	N	N	N	N	20	300	20	150	N
79CH035C	<10	10	N	20	300	N	N	N	N	N	10	200	10	10	N
79CH036A	1,500	1,500	N	<10	N	N	N	N	N	N	10	<100	N	<10	N
79CH036B	5,000	1,500	N	50	N	<1.0	N	N	N	N	15	<100	N	<10	N
79CH036C	1,000	500	N	10	300	N	N	N	N	N	30	300	10	50	N
79CH037A	<10	<5	N	N	N	N	N	N	N	N	<5	200	10	<10	N
79CH037B	300	1,000	N	10	70	<1.0	N	N	N	N	50	300	20	30	N
79CH037C	200	150	N	15	150	<1.0	N	N	N	N	50	500	20	70	N
79CH038A	150	30	N	15	50	1.0	N	N	N	N	30	700	30	100	N
79CH038B	200	150	N	10	70	<1.0	N	N	N	N	50	300	50	150	N
79CH039A	50	100	N	<10	50	<1.0	N	N	N	N	70	100	50	100	N
79CH040A	50	150	N	10	100	1.0	N	N	N	N	10	500	20	70	N
79CH040A	<10	300	N	<10	N	<1.0	N	N	N	N	N	100	15	N	N
79CH040B	<10	5	N	50	1,000	1.0	N	N	N	N	10	1,500	<10	70	N
79CH041A	200	100	N	<10	300	<1.0	N	N	N	N	50	500	20	50	N
79CH041B	10	50	N	N	1,500	1.0	N	N	N	N	15	100	<10	50	N
79CH042A	150	200	N	<10	N	<1.0	N	N	N	N	100	700	30	150	N
79CH042B	100	150	N	<10	50	<1.0	N	N	N	N	50	150	30	150	N
79CH043A	150	150	N	<10	30	<1.0	N	N	N	N	50	200	20	70	N
79CH044A	100	150	N	<10	<20	<1.0	N	N	N	N	70	300	30	70	N
79CH045A	150	150	N	<10	N	<1.0	N	N	N	N	50	200	20	70	N
79CH046A	70	100	N	10	N	<1.0	N	N	N	N	20	100	20	30	N
79CH048A	10	30	N	20	1,000	1.0	N	N	N	N	10	1,500	15	100	N
79CH048B	150	70	N	10	200	<1.0	N	N	N	N	70	300	20	50	N
79CH049A	500	200	N	10	70	<1.0	N	N	N	N	50	200	15	10	N
79CH049B	150	150	N	<10	70	<1.0	N	N	N	N	50	100	10	10	N
79CH050A	20	30	N	N	300	<1.0	N	N	N	N	N	N	N	30	N
79CH051A	1,000	1,500	N	<10	30	<1.0	N	N	N	N	50	<100	10	20	N
79CH052A	500	200	N	10	200	<1.0	N	N	N	N	70	200	20	30	N
79CH052B	<10	7	N	N	700	1.0	N	N	N	N	5	1,000	N	20	N
79CH053A	300	150	N	<10	70	N	N	N	N	N	50	200	10	<10	N
79CH054A	200	200	N	<10	N	<1.0	N	N	N	N	30	300	20	100	N
79CH058A	150	150	N	<10	70	<1.0	N	N	N	N	30	100	20	70	N
79CH059A	100	300	N	<10	70	N	N	N	N	N	50	300	20	50	N
79CH060A	300	150	N	<10	50	<1.0	N	N	N	N	30	150	10	15	N
79CH061A	20	10	N	N	1,000	1.0	N	N	N	N	10	<100	30	150	N
79CH061B	10	5	N	N	500	<1.0	N	N	N	N	15	<100	20	70	N
79CH063A	20	10	N	15	20	N	N	N	N	N	20	200	10	30	N
79CH065A	30	10	N	<10	200	N	N	N	N	N	50	300	15	30	N
79CH066A	<10	5	N	N	200	<1.0	N	N	N	N	15	<100	15	50	N
79CH066D	20	15	N	<10	1,000	<1.0	N	N	N	N	30	100	20	70	N
79CH067A	<10	5	N	N	700	<1.0	N	N	N	N	N	<100	10	70	N
79CH068A	<10	5	N	N	1,000	<1.0	N	N	N	N	15	100	20	50	N

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
79CH068B	63 6 0	144 44 24	Metadiabase	1	15.00	5.00	.70	1.000	1,000
79CH069A	63 5 46	144 44 46	Metaandesite porphyry	1	10.00	3.00	.50	.700	1,500
79CH069B	63 5 46	144 44 46	Metadacite tuff	1	2.00	.30	.10	.500	700
79CH071A	63 5 15	144 46 0	Leucogabbro	1	5.00	2.00	1.50	.500	700
79CH072A	63 4 6	144 43 0	Metadacite porphyry	1	3.00	2.00	.15	.300	700
79CH073A	63 4 6	144 43 30	Metadacite porphyry	1	3.00	1.50	.20	.300	500
79CH074A	63 4 15	144 44 30	Metaquartz diorite	1	10.00	3.00	5.00	.500	1,000
79CH075A	63 4 24	144 44 46	Chill zone in metaquartz diorite	1	7.00	3.00	1.50	.500	1,000
79CH077A	63 26 0	146 58 50	Schistose quartz gabbro	3	2.00	1.50	2.00	.700	500
79CH080A	63 25 0	146 59 12	Calc-silicate schist	3	2.00	5.00	20.00	.300	1,000
79CH088A	63 22 28	146 43 53	Amphibolite	3	7.00	2.00	1.00	.500	1,500
79CH089B	63 22 40	146 45 0	Metaquartz gabbro	3	5.00	5.00	5.00	1.000	1,000
79HZ001A	63 19 18	145 51 12	Serpentinized metabasalt	1	10.00	10.00	5.00	.500	1,500
79HZ001B	63 19 18	145 51 12	Metavolcanic breccia	1	5.00	7.00	5.00	.500	700
79HZ001C	63 19 18	145 51 12	Metaandesite	1	5.00	5.00	5.00	.300	700
79HZ002A	63 19 21	145 50 36	Metaandesite	1	5.00	1.50	5.00	.300	2,000
79HZ002B	63 19 21	145 50 36	Metaandesite porphyry	1	5.00	5.00	1.00	.300	1,500
79HZ003A	63 19 18	145 49 40	Serpentinized olivine cumulate	1	5.00	>10.00	.07	.010	1,000
79HZ004A	63 18 56	145 50 0	Serpentinized metabasalt	1	5.00	10.00	5.00	.500	1,000
79HZ004B	63 18 56	145 50 0	Tuffaceous metaandesite	1	3.00	2.00	1.00	.500	500
79HZ005A	63 18 45	145 49 46	Serpentinized olivine cumulate	1	7.00	>10.00	.50	.100	1,000
79HZ005B	63 18 45	145 49 46	Metadiabase	1	5.00	7.00	7.00	.500	2,000
79HZ006A	63 18 26	145 49 42	Serpentinized olivine cumulate	1	7.00	>10.00	.10	.010	1,000
79HZ007A	63 18 13	145 50 4	Pyroxene-plagioclase cumulate	1	10.00	10.00	5.00	.150	1,000
79HZ008A	63 20 19	145 50 3	Metadacite porphyry	1	3.00	1.00	5.00	.200	1,000
79HZ009A	63 20 30	145 50 0	Greenschist	1	5.00	5.00	.70	.500	2,000
79HZ009B	63 20 30	145 50 0	Quartz vein	1	5.00	5.00	.30	.700	1,000
79HZ009C	63 20 30	145 50 0	Metaandesite porphyry	1	3.00	.50	2.00	.200	700
79HZ010A	63 20 43	145 49 24	Metaandesite	1	7.00	1.00	5.00	.500	1,000
79HZ011A	63 20 55	145 49 13	Cu-stained metagabbro	1	10.00	2.00	5.00	.300	1,000
79HZ012A	63 21 9	145 49 6	Metadiorite	1	5.00	2.00	3.00	.500	2,000
79HZ013A	63 21 27	145 49 40	Phyllite	3	3.00	1.50	3.00	.500	1,000
79HZ016A	63 5 44	144 41 53	Metagabbro	1	10.00	5.00	5.00	.500	1,000
79HZ017A	63 5 51	144 42 14	Fossiliferous metaandesite tuff	1	.30	1.00	20.00	.030	2,000
79HZ017B	63 5 51	144 42 14	Metaandesite porphyry	1	5.00	2.00	1.50	.200	1,000
79HZ018A	63 5 56	144 43 14	Metadacite porphyry	1	5.00	3.00	1.00	.300	1,000
79HZ020A	63 6 31	144 43 58	Metaandesite porphyry	1	2.00	1.00	.20	.300	1,000
79HZ020C	63 6 31	144 43 58	Metaandesite	1	5.00	2.00	.70	.200	1,000
79HZ021A	63 6 46	144 44 21	Metaandesite porphyry	1	5.00	5.00	1.00	.300	2,000
79HZ022B	63 6 47	144 45 0	Metadacite porphyry	1	2.00	.15	.05	.150	70
79HZ024A	63 7 2	144 45 30	Metaandesite tuff	1	3.00	1.50	.50	.300	500
79HZ026A	63 7 48	144 47 6	Metaandesite porphyry	1	5.00	2.00	.50	.500	2,000
79HZ026B	63 7 48	144 47 6	Hydrothermal quartz vein	1	7.00	.07	<.05	.050	30
79HZ043A	63 22 12	146 51 36	Metaquartz monzonite	3	10.00	2.00	3.00	.700	2,000
79HZ043B	63 22 12	146 51 36	Schistose granodiorite	3	7.00	3.00	5.00	.700	1,000

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Bn	S-Sb	S-Co	S-V
79CH068B	95	150	70	<10	25	<200	N	N	N	N	N	N	70.0	700
79CH069A	40	50	15	15	90	N	N	N	N	N	N	N	15.0	200
79CH069B	<5	<5	5	10	40	N	N	N	N	N	N	N	5.0	20
79CH071A	50	30	45	20	260	300	N	N	N	N	N	N	10.0	200
79CH072A	55	50	15	<10	40	N	N	N	N	N	N	N	5.0	30
79CH073A	<5	<5	10	<10	25	N	N	N	N	N	N	N	5.0	70
79CH074A	10	15	15	10	15	<200	N	N	N	N	N	N	30.0	700
79CH075A	80	200	15	10	75	N	N	N	N	N	N	N	7.0	200
79CH077A	5	<5	(30)	30	120	<200	N	N	N	N	N	N	10.0	150
79CH080A	90	<5	15	<10	110	N	N	N	N	N	10	N	10.0	200
79CH088A	110	100	(20)	20	140	<200	<.5	N	N	N	N	N	7.0	500
79CH089B	55	70	20	20	<5	<200	N	N	N	N	N	N	30.0	200
79HZ001A	10	20	10	<10	25	<200	N	N	N	N	N	N	100.0	500
79HZ001B	40	50	<5	<10	5	N	N	N	N	N	N	N	70.0	300
79HZ001C	95	70	<5	10	5	N	.5	N	N	N	N	N	70.0	200
79HZ002A	15	15	5	10	40	<200	N	N	N	N	N	N	30.0	200
79HZ002B	101	100	5	10	60	N	.5	N	N	N	N	N	50.0	500
79HZ003A	220	500	15	<10	30	N	<.5	N	N	N	N	N	100.0	20
79HZ004A	15	10	<5	<10	15	N	N	N	N	N	N	N	70.0	300
79HZ004B	95	70	5	10	70	<200	.5	N	5	N	N	N	30.0	300
79HZ005A	10	10	20	<10	30	N	N	N	N	N	N	N	100.0	70
79HZ005B	120	150	5	<10	65	<200	<.5	N	N	N	N	N	50.0	300
79HZ006A	15	30	15	<10	25	N	N	N	N	N	N	N	150.0	30
79HZ007A	15	15	15	<10	40	<200	N	N	N	N	N	N	100.0	300
79HZ008A	15	15	5	10	25	N	N	N	N	N	N	N	10.0	150
79HZ009A	60	50	5	<10	65	200	N	N	N	N	N	N	7.0	100
79HZ009B	30	30	10	<10	25	<200	N	N	N	N	N	N	5.0	500
79HZ009C	55	50	5	N	10	N	N	N	N	N	N	N	15.0	30
79HZ010A	25	20	5	<10	15	N	N	N	N	N	N	N	10.0	500
79HZ011A	1,200	2,000	5	10	40	N	.7	N	N	N	N	N	50.0	300
79HZ012A	30	30	10	10	55	<200	N	N	N	N	N	N	15.0	300
79HZ013A	10	10	10	10	20	N	<.5	N	N	N	N	N	20.0	300
79HZ016A	100	100	10	<10	30	N	<.5	N	N	N	N	N	70.0	500
79HZ017A	30	20	25	<10	10	N	<.5	N	N	N	N	N	<5.0	15
79HZ017B	35	30	10	<10	70	N	.5	N	N	N	N	N	20.0	200
79HZ018A	5	5	10	<10	210	200	N	N	N	N	N	N	20.0	200
79HZ020A	100	100	5	<10	55	N	<.5	N	N	N	N	N	7.0	70
79HZ020C	6,400	10,000	15	<10	90	N	15.0	N	N	N	N	N	15.0	100
79HZ021A	<5	<5	15	10	95	<200	N	N	N	N	N	N	50.0	200
79HZ022B	15	10	10	20	60	<200	<.5	N	N	N	N	N	<5.0	20
79HZ024A	35	70	<5	<10	50	N	.5	N	N	N	N	N	10.0	100
79HZ026A	30	20	5	10	130	<200	N	N	N	N	N	N	10.0	200
79HZ026B	1,100	1,000	25	10	45	N	1.5	N	20	N	N	N	50.0	30
79HZ043A	35	70	5	10	20	N	N	N	N	N	N	N	20.0	300
79HZ043B	35	50	5	<10	10	N	N	N	N	N	N	N	15.0	300

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	S-Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
79CH068B	500	300	N	<10	70	<1.0	N	N	N	N	50	150	20	20	N
79CH069A	20	10	N	15	700	<1.0	N	N	N	N	20	100	20	100	N
79CH069B	<10	5	N	N	300	<1.0	N	N	N	N	10	<100	20	200	N
79CH071A	<10	5	N	N	300	<1.0	N	N	N	N	20	300	15	50	N
79CH072A	10	5	N	N	1,000	1.0	N	N	N	N	10	100	15	100	N
79CH073A	<10	7	N	N	1,000	<1.0	N	N	N	N	10	<100	15	70	N
79CH074A	20	20	N	<10	500	<1.0	N	N	N	N	30	1,500	15	20	N
79CH075A	15	5	N	N	200	<1.0	N	N	N	N	20	300	15	70	N
79CH077A	15	7	N	70	2,000	1.5	N	N	20	N	5	1,000	10	70	N
79CH080A	200	50	N	N	500	1.0	N	N	30	<20	10	1,000	50	150	N
79CH088A	20	5	N	10	700	2.0	N	N	<20	<20	15	700	15	70	N
79CH089B	200	70	N	10	1,500	2.0	N	N	30	<20	15	1,000	15	70	N
79HZ001A	5,000	1,000	N	20	30	<1.0	N	N	<20	N	50	100	20	70	N
79HZ001B	2,000	500	N	10	200	<1.0	N	N	20	N	30	700	30	100	N
79HZ001C	700	500	N	10	150	1.0	N	N	20	N	20	500	20	70	N
79HZ002A	10	15	N	10	<20	1.0	N	N	20	N	20	500	30	50	N
79HZ002B	100	20	N	10	700	<1.0	N	N	<20	N	30	300	20	50	N
79HZ003A	5,000	2,000	N	10	N	N	N	N	N	N	5	N	N	N	N
79HZ004A	3,000	1,000	N	10	50	<1.0	N	N	<20	N	30	<100	20	50	N
79HZ004B	200	150	N	15	500	2.0	N	N	20	N	20	300	20	100	N
79HZ005A	>5,000	2,000	N	300	<20	<1.0	N	N	N	N	10	N	N	N	N
79HZ005B	200	100	N	10	150	<1.0	N	N	<20	N	30	150	30	20	N
79HZ006A	>5,000	3,000	N	<10	N	N	N	N	N	N	5	N	N	N	N
79HZ007A	5,000	1,000	N	<10	20	N	N	N	<20	N	30	150	10	10	N
79HZ008A	20	10	N	50	1,000	1.0	N	N	30	N	10	1,000	15	50	N
79HZ009A	10	5	N	20	1,500	1.5	N	N	20	N	20	100	50	100	N
79HZ009B	50	7	N	10	1,000	<1.0	N	N	<20	N	30	<100	15	70	N
79HZ009C	<10	<5	N	20	1,000	1.5	N	N	20	N	15	200	50	100	N
79HZ010A	<10	5	N	10	200	<1.0	N	N	<20	N	30	300	30	50	N
79HZ011A	10	7	N	20	100	<1.0	N	N	20	N	20	300	30	70	N
79HZ012A	30	10	N	70	5,000	1.5	N	N	50	N	20	1,000	30	70	N
79HZ013A	150	30	N	100	700	<1.0	N	N	20	N	20	500	30	100	N
79HZ016A	500	150	N	15	70	<1.0	N	N	<20	N	30	300	20	50	N
79HZ017A	<10	5	N	N	30	N	N	N	<20	N	<5	200	15	<10	N
79HZ017B	30	10	N	10	700	<1.0	N	N	20	N	20	200	30	70	N
79HZ018A	20	7	N	20	700	<1.0	N	N	20	N	30	100	30	70	N
79HZ020A	<10	<5	N	10	5,000	1.0	N	N	30	N	20	150	50	200	N
79HZ020C	<10	70	N	N	5,000	<1.0	15	N	70	N	15	200	50	200	N
79HZ021A	70	20	N	<10	300	<1.0	N	N	<20	N	30	<1.0	20	50	N
79HZ022B	<10	<5	N	15	300	<1.0	N	N	<20	N	7	N	10	70	N
79HZ024A	<10	5	N	30	2,000	1.0	N	N	20	N	20	150	30	100	N
79HZ026A	10	5	N	20	<1,000	<1.0	N	N	<20	N	20	<1 0	20	<1.0	N
79HZ026B	<10	5	N	20	300	<1.0	N	N	20	N	5	N	<10	15	N
79HZ043A	10	5	N	<10	2,000	1.0	N	N	20	<20	15	1,000	20	<10	N
79HZ043B	150	20	N	<10	100	1.0	N	N	20	N	20	700	20	100	N

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
79HZ045A	63 21 36	146 50 24	Schistose granodiorite	3	2.00	1.00	2.00	.500	1,500
79HZ047A	63 20 42	146 50 0	Schistose quartz monzonite	3	.20	<.02	1.00	.070	700
79HZ047B	63 20 42	146 50 0	Schistose quartz monzonite	3	2.00	.20	1.50	.100	500
79HZ048A	63 22 15	146 54 30	Schistose quartz gabbro	3	5.00	3.00	2.00	.500	1,000
79HZ050A	63 13 48	145 20 18	Metagranodiorite	1	3.00	2.00	5.00	.300	1,000
79HZ051B	63 13 30	145 20 6	Metarhyolite tuff	1	1.50	.15	.50	.150	300
79HZ052A	63 13 0	145 20 55	Metadacite tuff	1	3.00	1.50	2.00	.500	500
79HZ054A	63 24 37	146 55 33	Metaquartz diorite	3	5.00	5.00	5.00	.300	1,000
79HZ057A	63 11 52	146 55 36	Quartz-carbonate schist	4	3.00	2.00	10.00	.150	2,000
79HZ057D	63 11 52	146 55 36	Metabasalt	4	10.00	7.00	5.00	.200	2,000
79HZ059A	63 11 20	146 54 48	Stained greenstone	4	5.00	3.00	7.00	.150	1,000
79HZ059B	63 11 20	146 54 48	Pillowed metabasalt	4	10.00	7.00	5.00	.500	1,500
79HZ059C	63 11 20	146 54 48	Metaquartz monzonite	4	5.00	2.00	1.50	.150	700
79HZ060A	63 11 12	146 54 18	Basaltic metatuff	2	7.00	1.00	7.00	.500	700
79HZ061A	63 11 6	146 54 6	Amygdaloidal metaandesite	2	15.00	5.00	3.00	>1.000	1,000
79HZ067H	63 1 54	144 21 26	Ultramafic clast in andesite	1	10.00	7.00	10.00	.500	1,000
79HZ070Q	63 1 23	144 21 41	Calcareous metadacite	1	7.00	7.00	7.00	.500	1,500
79HZ088A	63 6 42	144 50 27	Metarhyolite porphyry	1	3.00	1.50	.10	.200	1,000
79HZ089B	63 6 48	144 50 51	Metaandesite breccia	1	10.00	5.00	2.00	.700	2,000
79HZ090A	63 6 58	144 51 22	Metagranite	1	1.00	.10	.20	.150	300
79HZ090B	63 6 58	144 51 22	Metaandesite porphyry	1	10.00	2.00	2.00	.300	3,000
79HZ091C	63 6 54	144 52 0	Metagranite	1	1.50	.10	.15	.100	300
79HZ092A	63 7 17	144 53 15	Metadacite	1	1.00	.50	.50	.100	1,500
79HZ093A	63 7 45	144 59 9	Metadiabase porphyry	1	7.00	5.00	5.00	.700	2,000
79HZ094A	63 12 37	145 19 26	Metaandesite porphyry	1	.30	.03	.05	.030	30
79HZ104B	63 15 20	145 28 12	Metadacite porphyry	1	5.00	5.00	1.00	.300	1,000
79HZ105A	63 14 44	145 28 53	Cu-stained fossiliferous marble	1	.50	1.00	20.00	.020	2,000
79HZ106A	63 14 30	145 28 46	Metaandesite porphyry	1	2.00	.70	.50	.150	1,000
79HZ107A	63 15 25	145 19 43	Metadiorite	1	7.00	5.00	7.00	.500	1,500
79HZ108A	63 15 6	145 20 24	Metaquartz monzonite	1	5.00	5.00	5.00	.500	1,500
79HZ110A	63 14 18	145 16 49	Metavolcanic hornfels	1	5.00	1.00	1.00	.300	300
79IL001A	63 17 34	145 57 18	Fine-grained sandstone	1	15.00	3.00	2.00	1.000	200
79IL001B	63 17 34	145 57 18	Sheared metagabbro	1	20.00	10.00	7.00	>1.000	1,000
79IL001C	63 17 34	145 57 18	Altered gabbro	1	10.00	7.00	15.00	1.000	1,500
79IL002A	63 20 12	146 5 52	Altered metaandesite porphyry	1	15.00	2.00	2.00	.700	2,000
79IL003A	63 20 34	146 4 34	Silicified volcanic rock	1	5.00	.70	20.00	.300	300
79IL005A	63 17 58	146 0 25	Epidote-rich volcaniclastic rock	1	10.00	3.00	10.00	1.000	1,500
79IL005B	63 17 58	146 0 25	Volcaniclastic metaandesite	1	15.00	7.00	7.00	>1.000	1,500
79IL007A	63 21 24	145 42 0	Gabbro	5	15.00	10.00	10.00	>1.000	1,000
79IL007B	63 21 24	145 42 0	Serpentinized dunite	5	15.00	>10.00	.30	.150	1,000
79IL007C	63 21 24	145 42 0	Serpentinized ultramafic rock	5	10.00	>10.00	.05	.030	1,000
79IL008A	63 21 21	145 42 0	Serpentinized ultramafic rock	5	15.00	>10.00	1.00	.300	1,000
79IL008B	63 21 21	145 42 0	Serpentinite	5	15.00	>10.00	<.05	.050	700
79IL008C	63 21 21	145 42 0	Serpentinite	5	15.00	>10.00	<.05	.070	700
79IL008D	63 21 21	145 42 0	Gabbro	5	15.00	10.00	10.00	>1.000	1,000

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
79HZ045A	560	500	5	30	30	N	<.5	N	N	N	N	N	10.0	200
79HZ047A	5	<5	<5	30	10	N	N	N	N	N	N	N	N	N
79HZ047B	<5	<5	5	30	15	N	N	N	N	N	N	N	N	30
79HZ048A	15	30	5	10	25	<200	N	N	N	N	N	N	20.0	200
79HZ050A	20	150	15	<10	15	N	N	N	N	N	N	N	15.0	150
79HZ051B	15	15	15	30	35	N	N	N	N	N	N	N	5.0	30
79HZ052A	20	30	15	20	70	N	N	N	N	N	N	N	10.0	70
79HZ054A	30	50	15	20	35	N	<.5	N	N	N	N	N	50.0	200
79HZ057A	20	20	(40)	50	35	N	1.0	N	N	N	N	N	10.0	50
79HZ057D	65	70	20	10	70	<200	N	N	N	N	N	N	50.0	200
79HZ059A	120	100	(25)	10	85	N	N	N	N	N	N	N	20.0	200
79HZ059B	140	150	25	<10	90	<200	N	N	N	N	N	N	50.0	500
79HZ059C	80	150	10	10	60	N	N	N	N	N	N	N	20.0	150
79HZ060A	35	50	15	10	35	N	<.5	N	15	N	N	N	7.0	300
79HZ061A	120	200	20	<10	90	<200	N	N	N	N	N	N	70.0	1,000
79HZ067H	340	300	10	<10	20	N	N	N	N	N	N	N	100.0	1,000
79HZ070G	120	150	(25)	10	55	N	N	N	N	N	N	N	50.0	500
79HZ088A	30	20	10	<10	110	<200	N	N	N	N	N	N	N	30
79HZ089B	320	50	15	<10	75	N	N	N	N	N	N	N	50.0	300
79HZ090A	20	10	25	50	75	N	<.5	N	N	N	N	N	N	<10
79HZ090B	240	300	15	10	60	N	N	N	N	N	N	N	30.0	300
79HZ091C	25	20	30	70	40	N	<.5	N	N	N	N	N	N	15
79HZ092A	5	5	35	100	65	N	N	N	N	N	N	N	<5.0	30
79HZ093A	170	200	10	<10	25	N	<.5	N	N	N	N	N	70.0	300
79HZ094A	25	10	5	N	20	N	<.5	N	N	N	N	N	N	30
79HZ104B	25	30	20	50	100	<200	.5	N	N	N	N	N	10.0	500
79HZ105A	4,240	7,000	30	10	25	N	70.0	N	N	N	N	N	<5.0	20
79HZ106A	150	20	5	N	65	N	N	N	N	N	N	N	7.0	100
79HZ107A	180	200	20	15	80	N	N	N	N	N	N	N	50.0	300
79HZ108A	65	50	10	10	35	N	N	N	N	N	N	N	50.0	300
79HZ110A	35	30	5	<10	30	N	<.5	1,000	N	N	N	N	10.0	100
79IL001A	45	150	15	10	80	N	<.5	N	N	N	N	N	7.0	500
79IL001B	200	300	15	<10	55	N	N	N	N	N	N	N	70.0	1,500
79IL001C	80	150	15	10	20	N	N	N	N	N	N	N	7.0	500
79IL002A	120	200	10	10	75	N	1.0	N	N	N	N	N	10.0	500
79IL003A	<5	7	20	N	55	N	N	N	N	N	N	N	5.0	150
79IL005A	110	300	10	<10	30	N	N	N	N	N	N	N	10.0	500
79IL005B	75	150	15	<10	90	200	<.5	N	N	N	N	N	20.0	500
79IL007A	120	200	10	N	20	N	N	N	N	N	N	N	50.0	700
79IL007B	40	100	35	N	30	<200	N	N	N	N	N	N	150.0	200
79IL007C	<5	5	30	N	20	N	N	N	N	N	N	N	150.0	50
79IL008A	150	300	30	N	35	N	N	N	N	N	N	N	200.0	150
79IL008B	60	150	35	N	25	N	N	N	N	N	N	N	150.0	70
79IL008C	200	300	30	N	20	N	N	N	N	N	N	N	200.0	70
79IL008D	180	500	15	N	35	N	<.5	N	N	N	N	N	70.0	700

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	S-Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-V	S-Zr	S-Th
79HZ045A	10	<5	N	N	700	3.0	N	N	30	30	7	1,000	30	200	N
79HZ047A	<10	<5	N	N	200	2.0	N	N	N	N	<5	200	N	50	N
79HZ047B	<10	<5	N	N	2,000	1.5	N	N	N	N	<5	1,000	N	100	N
79HZ048A	100	15	N	10	1,500	1.0	N	N	30	N	15	1,000	15	70	N
79HZ050A	30	20	N	N	1,500	1.0	N	N	30	N	15	1,000	20	30	N
79HZ051B	15	5	N	150	1,500	2.0	N	N	30	N	5	150	10	100	N
79HZ052A	20	10	N	70	1,500	2.0	N	N	20	N	10	300	15	200	N
79HZ054A	700	150	N	20	1,000	2.0	N	N	30	N	20	500	20	70	N
79HZ057A	<10	7	N	10	700	<1.0	N	N	30	N	10	100	30	200	N
79HZ057D	700	150	N	10	30	<1.0	N	N	N	N	20	150	10	15	N
79HZ059A	100	50	N	50	<20	<1.0	N	N	N	N	20	200	15	30	N
79HZ059B	200	100	N	20	500	<1.0	N	N	<20	N	30	100	20	20	N
79HZ059C	15	7	N	15	300	<1.0	N	N	20	N	20	150	30	50	N
79HZ060A	70	7	N	10	1,000	<1.0	N	N	20	N	20	500	30	150	N
79HZ061A	300	100	N	15	20	<1.0	N	N	20	<20	30	300	30	200	N
79HZ067H	700	150	N	<10	300	<1.0	N	N	N	N	100	200	10	<10	N
79HZ070G	100	30	N	10	700	<1.0	N	N	<20	N	30	700	15	15	N
79HZ088A	<10	<5	N	10	1,000	1.0	N	N	30	N	10	N	10	100	N
79HZ089B	15	7	N	10	1,000	<1.0	N	N	50	<20	20	150	30	100	N
79HZ090A	<10	<5	N	50	3,000	1.5	N	N	30	N	7	100	30	100	N
79HZ090B	30	7	N	20	1,000	<1.0	N	N	30	N	30	300	30	50	N
79HZ091C	<10	<5	N	30	3,000	1.5	N	N	30	N	7	<100	20	150	N
79HZ092A	<10	<5	N	50	5,000	1.0	N	N	100	N	7	150	30	200	N
79HZ093A	200	150	N	30	200	<1.0	N	N	20	N	30	200	20	70	N
79HZ094A	15	5	N	100	300	<1.0	N	N	N	N	<5	<100	N	30	N
79HZ104B	30	15	N	20	2,000	<1.0	N	N	30	N	30	200	15	70	N
79HZ105A	<10	<5	N	N	<20	<1.0	N	N	N	N	<5	150	10	<10	N
79HZ106A	<10	<5	N	30	150	1.0	N	N	30	N	10	<100	20	100	N
79HZ107A	200	70	N	30	500	<1.0	N	N	30	N	20	1,000	30	20	N
79HZ108A	150	50	N	50	1,000	<1.0	N	N	30	N	20	1,000	20	70	N
79HZ110A	50	10	N	70	700	<1.0	N	N	30	N	15	300	20	70	N
79IL001A	200	30	N	N	300	<1.0	N	N	20	N	30	300	20	70	N
79IL001B	1,000	300	N	<10	200	N	N	N	N	N	70	200	20	20	N
79IL001C	100	30	N	<10	N	1.0	N	N	N	N	50	<100	20	20	N
79IL002A	20	7	N	50	70	<1.0	N	N	N	N	30	100	20	15	N
79IL003A	50	70	N	50	200	N	N	N	N	N	7	150	10	30	N
79IL005A	100	100	N	20	300	<1.0	N	N	<20	N	15	300	30	50	N
79IL005B	1,000	300	N	15	200	<1.0	N	N	N	N	20	500	30	50	N
79IL007A	2,000	1,000	N	<10	100	N	N	N	N	N	50	300	20	20	N
79IL007B	>5,000	5,000	N	30	N	N	N	N	N	N	15	N	N	N	N
79IL007C	>5,000	3,000	N	50	N	N	N	N	N	N	<5	N	N	N	N
79IL008A	>5,000	5,000	N	150	N	<1.0	N	N	N	N	10	N	N	N	N
79IL008B	>5,000	>5,000	N	200	N	N	N	N	N	N	<5	N	N	N	N
79IL008C	>5,000	3,000	N	20	N	N	N	N	N	N	5	N	N	N	N
79IL008D	1,500	1,500	N	<10	10	N	N	N	N	N	50	150	30	20	N

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
79ILO09A	63 21 0	145 42 12	Diabase	1	15.00	7.00	7.00	>1.000	1,500
79ILO09B	63 21 0	145 42 12	Altered dacite intrusive rock	1	15.00	5.00	.50	.500	2,000
79ILO09C	63 21 0	145 42 12	Altered andesite porphyry	1	15.00	3.00	.10	.700	700
79ILO09D	63 21 0	145 42 12	Diabase	1	20.00	10.00	10.00	1.000	1,500
79ILO09E	63 21 0	145 42 12	Andesite porphyry	1	15.00	3.00	.30	.700	1,000
79ILO10A	63 20 57	145 42 12	Andesite porphyry	1	15.00	7.00	.30	.700	2,000
79ILO10B	63 20 57	145 42 12	Dacite	1	10.00	5.00	.05	1.000	1,000
79ILO10C	63 20 57	145 42 12	Diabase	1	20.00	7.00	7.00	>1.000	1,500
79ILO10D	63 20 57	145 42 12	Altered andesite porphyry	1	10.00	7.00	.70	.700	3,000
79ILO11A	63 20 57	146 4 41	Silicified volcaniclastic rock	1	15.00	5.00	20.00	>1.000	150
79ILO11B	63 20 57	146 4 41	Altered quartzite	1	15.00	5.00	>20.00	.700	1,500
79ILO11C	63 20 57	146 4 41	Altered quartzite	1	10.00	3.00	7.00	.700	100
79ILO11D	63 20 57	146 4 41	Altered quartzite	1	7.00	3.00	10.00	.700	700
79ILO11E	63 20 57	146 4 41	Metasandstone	1	7.00	3.00	7.00	.700	200
79ILO11F	63 20 57	146 4 41	Quartzite	1	5.00	3.00	15.00	.700	300
79ILO11G	63 20 57	146 4 41	Quartzite	1	10.00	10.00	>20.00	.500	300
79ILO12A	63 18 52	145 59 5	Diorite	1	7.00	5.00	10.00	>1.000	300
79ILO12B	63 18 52	145 59 5	Diorite	1	15.00	7.00	7.00	>1.000	700
79ILO12C	63 18 52	145 59 5	Diorite	1	10.00	5.00	10.00	>1.000	300
79ILO12D	63 18 52	145 59 5	Diorite	1	10.00	7.00	10.00	>1.000	300
79ILO13A	63 18 33	145 59 9	Diabase	1	20.00	10.00	15.00	>1.000	2,000
79ILO14A	63 18 13	145 58 44	Altered andesite	1	15.00	>10.00	10.00	1.000	200
79ILO14B	63 18 13	145 58 44	Silicified gabbro	1	15.00	>10.00	7.00	>1.000	300
79ILO14C	63 18 13	145 58 44	Silicified gabbro	1	15.00	>10.00	7.00	>1.000	500
79ILO16A	63 19 5	145 59 26	Metatuff	1	10.00	10.00	10.00	1.000	1,000
79ILO16B	63 19 5	145 59 26	Metatuff	1	10.00	10.00	10.00	1.000	1,500
79ILO16C	63 19 5	145 59 26	Altered gabbro	1	15.00	>10.00	10.00	>1.000	1,000
79ILO17A	63 19 9	145 59 27	Sulfide-bearing metatuff	1	20.00	7.00	20.00	.300	2,000
79ILO17B	63 19 9	145 59 27	Basaltic metatuff	1	15.00	>10.00	7.00	>1.000	1,000
79ILO18A	63 19 15	145 57 54	Garnet-sulfide skarn	1	>20.00	.15	7.00	.050	500
79ILO19A	63 19 13	145 57 48	Massive sulfide	1	>20.00	.30	7.00	.070	500
79ILO19B	63 19 13	145 57 48	Massive sulfide	1	>20.00	.10	10.00	.070	700
79ILO19C	63 19 13	145 57 48	Sulfide-bearing skarn	1	20.00	3.00	>20.00	.700	2,000
79ILO19D	63 19 13	145 57 48	Diabase skarn	1	10.00	5.00	15.00	1.000	700
79ILO19E	63 19 13	145 57 48	Massive sulfide in skarn	1	>20.00	.30	10.00	.020	500
79ILO20B	63 18 21	146 4 36	Diabase	1	15.00	7.00	7.00	>1.000	1,500
79ILO20C	63 18 21	146 4 36	Diabase	1	20.00	>10.00	20.00	>1.000	1,500
79ILO21A	63 18 8	146 4 29	Metatuff	1	15.00	7.00	7.00	>1.000	700
79ILO22A	63 18 5	146 4 39	Dacite	1	15.00	>10.00	20.00	>1.000	500
79ILO22B	63 18 5	146 4 39	Dacite	1	.20	1.00	>20.00	.015	200
79ILO22C	63 18 5	146 4 39	Porphyritic diabase dike	1	15.00	>10.00	7.00	.700	500
79ILO23A	63 5 30	145 37 52	Metabasalt porphyry	2	15.00	5.00	7.00	>1.000	1,000
79ILO23B	63 5 30	145 37 52	Metabasalt porphyry	2	15.00	5.00	5.00	>1.000	1,000
79ILO23C	63 5 30	145 37 52	Metabasalt porphyry	2	15.00	3.00	10.00	>1.000	500
79ILO24A	63 20 52	145 42 24	Quartz vein	1	1.50	.02	.30	.010	30

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
79IL009A	40	70	25	10	100	<200	N	N	N	N	N	N	70.0	700
79IL009B	25	20	35	50	180	<200	.5	N	N	N	N	N	50.0	500
79IL009C	65	150	25	50	120	<200	1.0	N	10	N	N	N	15.0	500
79IL009D	180	300	20	15	60	N	N	N	15	N	N	N	100.0	1,000
79IL009E	25	50	25	30	65	<200	.5	N	5	N	N	N	50.0	500
79IL010A	20	20	20	10	160	<200	N	N	<5	N	N	N	10.0	500
79IL010B	10	10	20	20	120	<200	N	N	7	N	N	N	7.0	700
79IL010C	100	200	20	15	120	<200	N	N	N	N	N	N	100.0	1,000
79IL010D	60	70	60	100	280	300	N	N	N	N	N	N	10.0	700
79IL011A	75	300	15	N	5	N	N	N	N	N	N	N	20.0	700
79IL011B	10	7	25	<10	20	N	N	N	N	N	N	N	10.0	500
79IL011C	100	300	5	N	25	N	N	N	N	N	N	N	15.0	500
79IL011D	5	5	10	N	15	N	N	N	N	N	N	N	5.0	300
79IL011E	70	150	5	N	35	N	N	N	N	N	N	N	10.0	300
79IL011F	20	20	15	N	25	N	N	N	N	N	N	N	7.0	150
79IL011G	65	150	10	N	30	N	N	N	N	N	N	N	5.0	300
79IL012A	8,000	10,000	10	<10	40	N	1.0	N	N	N	N	N	100.0	1,000
79IL012B	2,800	3,000	15	<10	20	N	.5	N	N	N	N	N	50.0	1,000
79IL012C	26,000	>20,000	10	N	30	N	1.5	N	N	N	N	N	100.0	2,000
79IL012D	9,200	10,000	10	<10	25	N	1.0	N	N	N	<10	N	70.0	3,000
79IL013A	160	300	15	N	50	N	N	N	N	N	N	N	100.0	1,500
79IL014A	45	100	15	N	5	N	N	N	N	N	N	N	15.0	500
79IL014B	280	300	15	N	10	N	N	N	N	N	N	N	50.0	500
79IL014C	90	200	10	N	5	N	N	N	N	N	N	N	100.0	700
79IL016A	1,400	2,000	15	<10	25	N	1.5	N	N	N	N	N	70.0	500
79IL016B	480	500	15	10	35	N	.7	N	N	N	N	N	50.0	300
79IL016C	25	30	15	<10	25	N	N	N	N	N	N	N	100.0	500
79IL017A	22,000	20,000	120	150	5	N	50.0	N	N	N	N	N	100.0	150
79IL017B	70	200	5	N	5	N	N	N	N	N	N	N	70.0	500
79IL018A	2,200	2,000	35	10	60	N	3.0	N	N	N	N	N	1,500.0	30
79IL019A	2,400	5,000	40	15	70	N	5.0	N	N	N	N	N	>2,000.0	20
79IL019B	6,000	7,000	30	10	25	N	7.0	N	N	N	N	N	1,000.0	50
79IL019C	3,200	700	30	N	20	N	.7	N	N	N	N	N	5.0	150
79IL019D	50	150	35	30	160	<200	N	N	N	N	N	N	15.0	1,000
79IL019E	2,800	700	35	10	85	N	5.0	N	N	N	N	N	2,000.0	20
79IL020B	260	500	15	<10	50	N	N	N	N	N	N	N	30.0	1,000
79IL020C	7,200	10,000	10	N	75	N	7.0	N	N	N	N	N	50.0	3,000
79IL021A	180	300	15	10	60	<200	N	N	N	N	N	N	20.0	1,500
79IL022A	4,000	5,000	10	<10	95	N	5.0	N	N	N	10	N	20.0	700
79IL022B	35	7	(60)	N	5	N	N	N	N	N	N	N	N	20
79IL022C	300	700	15	N	30	N	N	N	N	N	N	N	70.0	300
79IL023A	55	150	15	N	40	N	N	N	N	N	N	N	70.0	700
79IL023B	160	200	10	N	15	N	N	N	N	N	N	N	50.0	700
79IL023C	15,000	10,000	10	<10	10	N	7.0	N	N	N	N	N	30.0	1,500
79IL024A	80	150	60	15	15	N	.7	N	N	N	N	N	N	15

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	S-Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
79IL009A	70	150	N	<10	150	<1.0	N	N	N	N	30	700	30	30	N
79IL009B	30	30	N	10	1,000	N	N	N	N	N	30	<100	20	30	N
79IL009C	20	15	N	10	5,000	<1.0	N	N	N	N	20	N	10	30	N
79IL009D	200	300	N	<10	500	N	N	N	N	N	50	500	20	20	N
79IL009E	30	20	N	15	1,000	N	10	N	N	N	30	<100	20	30	N
79IL010A	30	20	N	10	1,000	N	N	N	N	N	30	100	15	50	N
79IL010B	20	10	N	N	3,000	N	N	N	N	N	20	<100	10	20	N
79IL010C	300	150	N	<10	300	N	N	N	N	N	50	200	20	30	N
79IL010D	50	20	N	15	2,000	<1.0	N	N	N	N	30	150	20	20	N
79IL011A	300	300	N	N	100	<1.0	N	N	N	N	30	150	10	50	N
79IL011B	500	20	N	N	70	<1.0	N	N	N	N	20	700	10	20	N
79IL011C	200	100	N	N	700	<1.0	N	N	N	N	20	1,500	15	70	N
79IL011D	300	50	N	N	100	N	N	N	N	N	10	500	<10	20	N
79IL011E	150	100	N	N	200	<1.0	N	N	<20	N	15	1,000	20	100	N
79IL011F	100	70	N	100	100	<1.0	N	N	N	N	10	500	20	20	N
79IL011G	200	30	N	N	1,000	<1.0	N	N	N	N	20	2,000	10	30	N
79IL012A	<10	700	N	N	150	<1.0	N	N	20	N	30	500	30	100	N
79IL012B	700	300	N	N	100	<1.0	N	N	N	N	30	500	20	20	N
79IL012C	20	300	N	N	200	<1.0	N	N	20	N	30	300	30	70	N
79IL012D	10	200	N	N	200	<1.0	N	N	50	N	50	500	70	100	N
79IL013A	1,000	300	N	N	50	N	N	N	N	N	50	100	20	50	N
79IL014A	5,000	500	N	N	N	<1.0	N	N	N	N	20	N	<10	15	N
79IL014B	>5,000	1,000	N	N	N	N	N	N	N	N	20	<100	10	20	N
79IL014C	5,000	1,500	N	N	N	N	N	N	N	N	20	<100	10	30	N
79IL016A	1,500	300	N	N	N	<1.0	N	N	N	N	20	200	15	20	N
79IL016B	1,500	300	N	N	20	<1.0	N	N	N	N	20	500	10	30	N
79IL016C	5,000	2,000	N	N	70	N	N	N	N	N	20	150	10	15	N
79IL017A	200	500	N	N	N	N	N	N	N	N	10	1,500	20	10	N
79IL017B	2,000	1,500	N	N	100	<1.0	N	N	N	N	30	500	20	30	N
79IL018A	20	3,000	N	<10	100	N	N	N	N	N	N	N	<10	N	N
79IL019A	20	5,000	N	<10	N	N	N	N	N	N	N	N	N	N	N
79IL019B	20	1,000	N	<10	N	N	N	N	N	N	N	N	10	<10	N
79IL019C	100	10	N	<10	100	<1.0	N	N	N	N	10	<100	10	15	N
79IL019D	200	50	N	N	<20	<1.0	N	N	<20	N	50	150	30	30	N
79IL019E	10	>5,000	N	<10	N	N	N	N	N	N	N	N	N	N	N
79IL020B	200	150	N	<10	<20	<1.0	N	N	N	N	50	1,000	30	70	N
79IL020C	1,000	300	N	N	<20	<1.0	N	N	N	N	70	700	30	50	N
79IL021A	1,500	200	N	N	300	<1.0	N	N	N	N	50	500	30	50	N
79IL022A	5,000	300	N	N	N	<1.0	N	N	N	N	30	300	15	20	N
79IL022B	N	<5	N	N	N	N	N	N	N	N	N	200	<10	N	N
79IL022C	5,000	1,500	N	N	N	N	N	N	N	N	20	N	10	10	N
79IL023A	700	200	N	15	N	<1.0	N	N	N	N	70	<100	30	100	N
79IL023B	200	150	N	10	<20	<1.0	N	N	N	N	50	100	30	70	N
79IL023C	500	150	N	50	N	<1.0	N	N	N	N	30	1,000	20	50	N
79IL024A	<10	5	N	N	2,000	<1.0	N	N	N	N	N	<100	N	N	N

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
79IL024B	63 20 52	145 42 24	Andesite	1	15.00	1.50	.07	.100	1,000
79IL024C	63 20 52	145 42 24	Pyritized volcanic rock	1	15.00	1.50	<.05	.150	1,000
79IL025A	63 20 46	145 42 20	Fine-grained felsic intrusive rock	1	.20	.30	.20	.070	50
79IL025B	63 20 46	145 42 20	Fine-grained felsic intrusive rock	1	1.00	.70	.07	.200	100
79IL025C	63 20 46	145 42 20	Fine-grained felsic intrusive rock	1	.70	1.00	.10	.200	50
79IL026A	63 20 42	145 42 23	Crystal metatuff	1	10.00	2.00	.20	.500	1,000
79IL026B	63 20 42	145 41 23	Pyritized volcaniclastic rock	1	3.00	.50	.15	.500	70
79IL027A	63 19 24	146 3 36	Calcareous andesite	1	3.00	7.00	.30	.015	700
79IL027B	63 19 24	146 3 36	Volcaniclastic rock	1	10.00	2.00	.07	.700	1,000
79IL027C	63 19 24	146 3 36	Volcaniclastic sandstone	1	10.00	3.00	2.00	.500	1,000
79IL027D	63 19 24	146 3 36	Serpentinized ultramafic rock	1	10.00	>10.00	<.05	.020	1,000
79IL027E	63 19 24	146 3 36	Silicified volcaniclastic rock	1	10.00	1.50	.30	.500	500
79IL029A	63 20 42	146 5 0	Massive sulfide	1	>20.00	.70	1.00	.020	500
79IL029B	63 20 42	146 5 0	Quartzite	1	3.00	.70	2.00	.100	100
79IL030A	63 21 0	146 2 40	Massive sulfide	1	>20.00	3.00	3.00	.050	150
79IL030B	63 21 0	146 2 40	Massive sulfide in tuff	1	20.00	5.00	3.00	.300	500
79IL030C	63 21 0	146 2 40	Massive sulfide	1	>20.00	2.00	3.00	.070	150
79IL030D	63 21 0	146 2 40	Dunite	1	15.00	>10.00	2.00	.700	1,000
79IL030E	63 21 0	146 2 40	Massive sulfide	1	>20.00	2.00	3.00	.150	200
79IL031A	63 12 54	146 49 9	Quartz vein	2	3.00	.70	2.00	.500	300
79IL031B	63 12 54	146 49 9	Basalt porphyry	2	15.00	5.00	5.00	>1.000	1,000
79IL032A	63 14 28	146 50 0	Shallow diorite porphyry	3	15.00	3.00	3.00	>1.000	1,000
79IL032B	63 14 28	146 50 0	Shallow diorite porphyry	3	10.00	1.00	.07	1.000	700
79IL032D	63 14 28	146 50 0	Shallow diorite porphyry	3	15.00	5.00	3.00	>1.000	1,500
79IL033A	63 15 13	146 49 58	Volcaniclastic sedimentary rock	3	5.00	3.00	3.00	.300	700
79IL034A	63 15 11	146 49 47	Quartz diorite porphyry	3	5.00	1.00	1.00	.500	300
79IL036A	63 17 3	146 33 36	Vesicular metabasalt	2	15.00	3.00	10.00	>1.000	1,000
79IL037A	63 17 0	146 33 4	Metabasalt	2	15.00	5.00	3.00	>1.000	1,000
79IL037B	63 17 0	146 33 4	Metabasalt	2	15.00	5.00	2.00	>1.000	1,500
79IL037C	63 17 0	146 33 4	Quartz vein	2	5.00	.10	1.50	.100	1,000
79IL037D	63 17 0	146 33 4	Greenstone	2	15.00	5.00	3.00	>1.000	1,000
79IL037E	63 17 0	146 33 4	Greenstone	2	15.00	5.00	1.00	>1.000	1,000
79IL037F	63 17 0	146 33 4	Brecciated quartz vein	2	3.00	.20	.05	.150	700
79IL037G	63 17 0	146 33 4	Greenstone	2	15.00	5.00	2.00	>1.000	1,500
79IL037H	63 17 0	146 33 4	Greenstone	2	15.00	3.00	.50	>1.000	1,000
79IL038A	63 16 56	146 33 6	Brecciated quartz vein	2	2.00	.05	3.00	.020	500
79IL038B	63 16 56	146 33 6	Metaandesite porphyry	2	10.00	3.00	2.00	1.000	1,000
79IL038C	63 16 56	146 33 6	Quartz vein	2	20.00	.02	.15	.030	200
79IL038D	63 16 56	146 33 6	Massive sulfide	2	>20.00	<.02	.20	<.002	100
79IL038E	63 16 56	146 33 6	Quartz vein	2	.30	.03	.50	.020	150
79IL038F	63 16 56	146 33 6	Altered metaandesite porphyry	2	10.00	5.00	3.00	1.000	1,000
79IL038G	63 16 56	146 33 6	Altered metaandesite porphyry	2	15.00	5.00	10.00	>1.000	1,500
79IL039A	63 16 55	146 32 58	Metaandesite porphyry	2	15.00	5.00	7.00	>1.000	1,500
79IL042A	63 14 30	146 32 17	Metabasalt porphyry	2	15.00	7.00	5.00	>1.000	1,500
79IL042B	63 14 30	146 32 17	Metabasalt	2	15.00	5.00	5.00	>1.000	1,000

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
79IL024B	360	700	400	500	400	700	30.0	300	100	N	N	100	70.0	100
79IL024C	140	200	80	30	320	300	3.0	<200	15	N	N	N	70.0	100
79IL025A	15	5	10	N	15	N	N	<200	N	N	N	<100	<5.0	<10
79IL025B	10	5	15	N	20	N	N	N	N	N	N	<100	N	30
79IL025C	5	<5	10	N	10	N	N	N	N	N	N	<100	N	50
79IL026A	110	150	20	10	160	<200	N	N	N	N	N	N	20.0	500
79IL026B	50	50	15	<10	<5	N	N	N	N	N	N	N	15.0	300
79IL027A	<5	<5	25	N	40	N	N	N	N	N	N	N	100.0	10
79IL027B	90	150	20	10	90	N	N	N	N	N	N	N	10.0	300
79IL027C	15	10	15	15	95	<200	N	N	N	N	N	N	20.0	300
79IL027D	20	15	30	N	40	N	N	N	N	N	N	N	150.0	30
79IL027E	80	100	15	10	30	N	150.0	N	30	N	N	N	<5.0	200
79IL029A	280	500	25	10	120	N	<.5	N	N	N	N	N	500.0	30
79IL029B	1,400	1,500	10	10	55	N	.5	N	10	N	N	N	100.0	150
79IL030A	20,000	15,000	25	10	80	N	1.5	N	N	N	N	N	700.0	30
79IL030B	12,000	10,000	30	15	120	N	.5	N	N	N	N	N	500.0	100
79IL030C	13,000	15,000	30	10	65	N	3.0	N	N	N	N	N	1,000.0	50
79IL030D	120	300	20	<10	50	N	N	N	N	N	N	N	200.0	200
79IL030E	5,000	3,000	25	10	100	N	2.0	N	N	N	N	N	1,000.0	70
79IL031A	24,000	>20,000	5	<10	30	N	15.0	N	N	N	N	N	10.0	100
79IL031B	120	150	10	<10	70	<200	N	N	N	N	N	N	50.0	500
79IL032A	65	150	20	20	100	<200	1.0	N	N	N	N	N	50.0	700
79IL032B	24,000	15,000	15	<10	100	<200	5.0	N	<5	N	N	N	20.0	500
79IL032D	8,000	7,000	20	10	300	300	1.0	N	N	N	N	N	70.0	500
79IL033A	180	300	20	15	90	N	<.5	N	N	N	N	N	10.0	150
79IL034A	220	300	20	10	70	N	.5	N	N	N	N	N	10.0	100
79IL036A	200	200	5	<10	5	N	N	N	N	N	N	N	10.0	1,500
79IL037A	45	30	15	N	70	N	N	N	N	N	N	N	50.0	700
79IL037B	85	150	20	<10	110	<200	N	N	N	N	N	N	50.0	700
79IL037C	130,000	>20,000	65	30	140	<200	150.0	300	N	N	N	700	10.0	30
79IL037D	120	200	15	<10	60	N	N	N	N	N	N	N	70.0	700
79IL037E	310	500	20	N	110	<200	N	N	N	N	N	N	70.0	700
79IL037F	28,000	>20,000	5	N	25	N	70.0	N	N	N	N	N	7.0	70
79IL037G	1,000	700	20	N	110	N	.5	N	N	N	N	N	50.0	700
79IL037H	3,200	2,000	25	<10	85	<200	1.0	N	<5	N	N	N	50.0	300
79IL038A	90,000	>20,000	10	N	15	N	50.0	N	N	N	N	N	7.0	20
79IL038B	180	100	20	N	90	N	N	N	N	N	N	N	50.0	500
79IL038C	34,000	>20,000	35	20	10	N	300.0	N	N	N	N	N	7.0	N
79IL038D	110,000	>20,000	30	15	15	N	50.0	N	N	N	N	N	10.0	N
79IL038E	11,000	10,000	<5	N	<5	N	.5	N	N	N	N	N	N	N
79IL038F	440	500	15	<10	70	N	<.5	N	N	N	N	N	50.0	500
79IL038G	60	300	10	<10	25	N	N	N	N	N	N	N	30.0	700
79IL039A	100	200	10	N	45	<200	N	N	N	N	N	N	100.0	1,500
79IL042A	17,000	15,000	25	N	120	N	5.0	N	N	N	N	N	100.0	300
79IL042B	1,500	1,500	20	<10	75	N	.5	N	N	N	N	N	100.0	700

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	S-Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
79IL024B	30	5	N	<10	300	<1.0	15	N	N	N	7	N	N	N	N
79IL024C	30	5	N	<10	300	<1.0	N	N	N	N	10	N	N	<10	N
79IL025A	<10	5	N	N	5,000	<1.0	N	N	N	N	N	100	N	50	N
79IL025B	<10	5	N	N	700	<1.0	N	N	N	N	<5	N	<10	100	N
79IL025C	<10	5	N	N	2,000	<1.0	N	N	20	N	<5	N	15	100	N
79IL026A	20	10	N	10	700	<1.0	N	N	N	N	30	N	N	10	N
79IL026B	15	10	N	N	300	<1.0	N	N	N	N	30	<100	15	30	N
79IL027A	1,500	1,500	N	100	N	<1.0	N	N	N	N	N	N	N	N	N
79IL027B	20	20	N	10	300	<1.0	N	N	N	N	20	100	20	70	N
79IL027C	30	50	N	10	700	<1.0	N	N	N	N	15	150	20	70	N
79IL027D	3,000	2,000	N	100	N	N	N	N	N	N	<5	N	N	N	N
79IL027E	20	15	N	10	1,000	<1.0	N	N	N	N	15	<100	20	50	N
79IL029A	20	300	N	<10	N	<1.0	N	N	N	N	N	<100	N	N	N
79IL029B	100	200	N	N	500	<1.0	N	N	N	N	7	<100	30	50	N
79IL030A	15	1,500	N	<10	N	<1.0	N	N	N	N	N	<100	<10	<10	N
79IL030B	1,500	1,000	N	<10	N	<1.0	N	N	N	N	7	N	N	<10	N
79IL030C	30	1,000	N	<10	N	<1.0	N	N	N	N	N	N	N	<10	N
79IL030D	3,000	1,500	N	100	<20	<1.0	N	N	N	N	15	<100	N	<10	N
79IL030E	50	2,000	N	<10	N	N	N	N	N	N	<5	<100	N	<10	N
79IL031A	50	30	N	N	N	<1.0	N	N	N	N	15	200	10	15	N
79IL031B	200	150	N	<10	70	<1.0	N	N	N	N	30	200	20	50	N
79IL032A	300	150	N	10	300	1.0	N	N	N	N	50	100	50	100	N
79IL032B	150	100	N	10	N	<1.0	N	N	N	N	20	N	20	70	N
79IL032D	100	150	N	<10	20	<1.0	N	N	N	N	30	<100	30	100	N
79IL033A	30	30	N	20	200	<1.0	N	N	N	N	15	500	10	70	N
79IL034A	20	10	N	50	700	1.5	<10	N	50	N	5	1,000	15	150	N
79IL036A	100	30	N	10	N	<1.0	N	N	N	N	20	1,000	30	70	N
79IL037A	200	150	N	N	20	<1.0	N	N	N	N	50	<100	20	70	N
79IL037B	100	150	N	<10	20	<1.0	N	N	N	N	30	<100	30	100	N
79IL037C	10	10	N	<10	<20	<1.0	<10	N	N	N	5	N	10	<10	N
79IL037D	150	150	N	<10	<20	<1.0	N	N	N	N	30	200	30	100	N
79IL037E	100	150	N	<10	50	<1.0	N	N	N	N	50	100	50	100	N
79IL037F	10	20	N	10	20	N	10	N	N	N	<5	N	N	<10	N
79IL037G	150	150	N	<10	70	<1.0	N	N	N	N	50	100	20	100	N
79IL037H	100	100	N	<10	200	<1.0	N	N	N	N	30	<100	15	70	N
79IL038A	<10	7	N	N	N	N	N	N	N	N	<5	N	N	N	N
79IL038B	150	100	N	<10	<20	<1.0	N	N	N	N	30	<100	20	70	N
79IL038C	<10	<5	N	<10	N	N	10	N	N	N	N	N	N	N	N
79IL038D	<10	<5	N	<10	N	N	N	N	N	N	N	N	N	N	N
79IL038E	<10	10	N	N	N	N	N	N	N	N	<5	N	N	N	N
79IL038F	150	100	N	<10	N	<1.0	N	N	N	N	30	150	30	100	N
79IL038G	100	100	N	<10	N	<1.0	N	N	N	N	30	700	20	70	N
79IL039A	200	150	N	10	100	<1.0	N	N	N	N	50	150	30	70	N
79IL042A	300	200	N	<10	20	<1.0	N	N	N	N	50	<100	30	70	N
79IL042B	500	200	N	10	N	<1.0	N	N	N	N	70	<100	30	70	N

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
79IL043A	63 18 50	146 13 15	Andesite porphyry	1	5.00	1.50	2.00	.500	700
79IL044A	63 18 43	146 13 18	Metaandesite porphyry	1	5.00	1.00	3.00	.500	1,500
79IL045A	63 18 35	146 12 15	Dacite porphyry	1	3.00	.70	<.05	.300	200
79IL046A	63 18 56	146 11 43	Metadacite porphyry	1	2.00	.30	.50	.070	300
79IL046B	63 18 56	146 11 43	Calcareous volcanic rock	1	2.00	2.00	20.00	.200	2,000
79IL047A	63 18 56	146 11 32	Metaandesite porphyry	1	5.00	1.00	1.50	.700	500
79IL047B	63 18 56	146 11 32	Metaandesite porphyry	1	3.00	.20	1.50	.300	150
79IL049A	63 19 0	146 10 10	Gossan	3	20.00	.70	.07	.500	100
79IL049B	63 19 0	146 10 10	Gossan in metaandesite porphyry	3	10.00	.30	.05	.300	100
79IL050A	63 19 14	146 10 11	Limonitic fault breccia	3	20.00	.70	<.05	.500	1,500
79IL050B	63 19 14	146 10 11	Altered phyllite	3	7.00	1.00	.05	.500	>5,000
79IL050C	63 19 14	146 10 11	Mineralized quartzite	3	15.00	.70	<.05	.300	500
79IL051A	63 19 8	146 10 6	Bog iron	3	>20.00	.30	.10	.300	200
79IL052A	63 15 0	146 50 5	Pyrite-bearing metaconglomerate	3	10.00	3.00	2.00	.700	700
79IL052B	63 15 0	146 50 5	Fine-grained volcaniclastic rock	3	10.00	3.00	5.00	1.000	1,000
79IL052C	63 15 0	146 50 5	Metatuff	3	10.00	5.00	7.00	>1.000	1,000
79IL052D	63 15 0	146 50 5	Tuffaceous metasedimentary rock	3	10.00	5.00	5.00	>1.000	700
79IL052E	63 15 0	146 50 5	Tuffaceous metasedimentary rock	3	7.00	3.00	5.00	1.000	1,000
79IL053A	63 14 58	146 49 16	Quartz monzonite	3	3.00	.70	1.50	.300	300
79IL053B	63 14 58	146 49 16	Metatuff	3	10.00	3.00	3.00	>1.000	1,000
79IL053C	63 14 58	146 49 16	Metatuff	3	7.00	3.00	2.00	1.000	700
79IL054A	63 18 3	146 29 6	Skarn	2	>20.00	5.00	15.00	.050	>5,000
79IL054B	63 18 3	146 29 6	Gabbro	2	15.00	1.50	20.00	.500	1,500
79IL054C	63 18 3	146 29 6	Gabbro	2	15.00	7.00	7.00	1.000	3,000
79IL055A	63 19 11	146 15 30	Calcareous ultramafic rock	1	3.00	10.00	.30	.010	500
79IL056A	63 20 48	145 42 0	Volcanic breccia	1	10.00	5.00	.70	.300	3,000
79IL056B	63 20 48	145 42 0	Dacite	1	15.00	5.00	.30	.500	2,000
79IL056D	63 20 48	145 42 0	Dacite	1	10.00	5.00	1.00	.700	3,000
79IL057A	63 20 40	145 42 0	Ash flow tuff	1	3.00	1.00	.07	.150	1,000
79IL058A	63 20 30	145 42 38	Dacite	1	10.00	5.00	.70	.700	3,000
79IL058B	63 20 30	145 42 38	Lithic tuff	1	15.00	3.00	1.00	.700	2,000
79IL058C	63 20 30	145 42 38	Tuff	1	3.00	.70	.10	.700	100
79IL059A	63 2 14	145 33 44	Calcareous greenstone	2	15.00	2.00	2.00	1.000	300
79IL059B	63 2 14	145 33 44	Metagabbro	2	15.00	5.00	3.00	1.000	1,000
79IL060A	63 4 29	144 15 58	Dunite	5	15.00	>10.00	.20	.015	1,000
79IL060B	63 4 29	144 15 58	Dunite	5	15.00	10.00	.30	.020	1,500
79IL061A	63 4 46	144 17 26	Dunite	5	15.00	>10.00	.20	.010	700
79IL061B	63 4 46	144 17 26	Metatuff	5	10.00	3.00	10.00	1.000	1,000
79IL062A	63 4 52	144 17 34	Hornblende-plagioclase schist	5	10.00	3.00	2.00	.700	700
79IL063A	63 4 50	144 21 48	Metabasalt	1	10.00	3.00	7.00	.300	1,000
79IL063D	63 4 50	144 21 48	Diorite	1	10.00	2.00	3.00	.500	700
79IL063E	63 4 50	144 21 48	Massive sulfide	1	>20.00	.02	<.05	N	<10
79IL063F	63 4 50	144 21 48	Diorite porphyry	1	7.00	3.00	3.00	.500	700
79IL064A	63 10 24	144 57 24	Dacite porphyry	1	3.00	2.00	1.00	.300	2,000
79IL065A	63 10 26	144 57 12	Magnetite in andesite	1	>20.00	.15	.15	.070	500

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
79IL043A	70	100	10	10	55	N	N	N	N	N	N	N	10.0	300
79IL044A	260	500	10	10	50	N	<.5	N	N	N	N	N	7 0	150
79IL045A	25	70	10	<10	20	N	N	N	N	N	N	N	<5.0	100
79IL046A	25	30	10	10	15	N	N	N	N	N	N	N	<5.0	10
79IL046B	25	30	40	<10	30	N	N	N	N	N	N	N	5.0	70
79IL047A	15,000	10,000	20	20	75	N	10.0	N	N	N	N	N	5.0	150
79IL047B	38,000	>20,000	10	10	5	N	50.0	N	N	N	N	N	10.0	150
79IL049A	230	300	15	<10	1,200	700	.5	N	10	N	N	N	N	300
79IL049B	90	100	15	<10	400	300	N	N	<5	N	N	N	N	150
79IL050A	15	20	15	<10	1,800	2,000	N	N	7	N	N	N	50.0	300
79IL050B	50	70	15	<10	1,100	1,500	N	N	10	N	N	N	500.0	500
79IL050C	55	50	15	<10	1,600	1,500	.5	N	5	N	N	N	30.0	300
79IL051A	200	300	20	<10	1,500	1,500	N	N	N	N	N	N	5.0	100
79IL052A	80	150	25	15	140	<200	.5	N	N	N	N	N	15.0	200
79IL052B	260	300	10	<10	25	<200	.5	N	300	50	N	N	15.0	700
79IL052C	140	200	10	10	25	<200	N	N	10	N	N	N	20.0	700
79IL052D	180	300	15	10	60	<200	.5	N	5	N	N	N	50.0	500
79IL052E	140	200	10	<10	10	N	N	N	N	N	N	N	15.0	500
79IL053A	140	300	15	20	40	N	N	N	200	N	N	N	10.0	150
79IL053B	140	150	10	10	40	<200	1.0	N	7	N	N	N	15.0	500
79IL053C	120	100	110	<10	160	N	N	N	5	N	N	N	20.0	300
79IL054A	45	70	20	<10	560	700	N	N	N	N	N	N	30.0	20
79IL054B	25,000	20,000	50	20	55,000	>10,000	30.0	N	N	N	N	N	150.0	200
79IL054C	340	700	25	10	400	700	.7	N	N	N	N	N	70.0	500
79IL055A	30	200	20	<10	40	N	N	N	N	N	N	N	70.0	15
79IL056A	260	300	35	15	360	300	N	N	N	N	N	N	20.0	500
79IL056B	600	1,000	35	20	200	<200	.5	N	N	N	N	N	15.0	200
79IL056D	340	300	30	10	190	<200	N	N	N	N	N	N	15.0	500
79IL057A	2,400	2,000	20	10	120	<200	1.0	N	N	N	N	N	10.0	70
79IL058A	380	500	30	20	1,000	700	.7	N	N	N	N	N	7.0	300
79IL058B	260	300	20	10	200	<200	.7	N	N	N	N	N	20.0	200
79IL058C	60	100	10	<10	<5	<200	N	N	N	N	N	N	20.0	500
79IL059A	44,000	>20,000	(25)	<10	55	N	20.0	N	N	N	N	N	50.0	700
79IL059B	100	300	20	<10	75	<200	.5	N	N	N	N	N	70.0	500
79IL060A	<5	<5	40	N	25	<200	N	N	N	N	N	N	300.0	20
79IL060B	<5	5	40	N	50	<200	N	N	N	N	N	N	200.0	30
79IL061A	<5	<5	45	N	35	N	N	N	N	N	N	N	200.0	15
79IL061B	340	300	(25)	<10	25	<200	N	N	10	N	N	N	10.0	1,000
79IL062A	110	150	15	10	50	<200	N	N	N	N	N	N	15.0	500
79IL063A	10	5	(20)	<10	45	<200	N	N	N	N	N	N	50.0	300
79IL063D	140	200	10	<10	15	N	N	N	7	N	N	N	20.0	300
79IL063E	2,600	2,000	25	<10	10	N	.5	N	N	N	N	N	500.0	N
79IL063F	170	200	15	<10	25	<200	N	N	N	N	N	N	10.0	200
79IL064A	10	5	10	<10	85	N	N	N	N	N	N	N	<5.0	100
79IL065A	20	20	10	10	30	N	N	N	N	50	N	N	10.0	150

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	S-Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
79IL043A	20	30	N	N	300	<1.0	N	N	N	N	15	300	15	20	N
79IL044A	10	5	N	N	70	<1.0	N	N	N	N	10	700	10	20	N
79IL045A	<10	5	N	20	700	<1.0	N	N	N	N	5	N	10	70	N
79IL046A	<10	5	N	N	1,000	<1.0	N	N	20	N	N	<100	10	100	N
79IL046B	<10	5	N	N	70	N	N	N	N	N	5	150	20	15	N
79IL047A	<10	5	N	N	150	<1.0	N	N	N	N	15	150	30	30	N
79IL047B	<10	5	N	N	500	N	N	N	N	N	15	300	20	20	N
79IL049A	50	100	N	15	500	<1.0	N	N	20	N	10	100	50	70	N
79IL049B	20	30	N	20	700	<1.0	N	N	N	N	7	<100	10	50	N
79IL050A	30	150	N	15	700	1.0	N	N	100	N	10	<100	700	50	N
79IL050B	70	500	N	50	1,000	<1.0	N	N	N	N	10	<100	20	100	N
79IL050C	50	200	N	20	1,000	1.0	N	N	30	N	10	<100	150	70	N
79IL051A	50	150	N	<10	500	<1.0	N	N	N	N	5	100	200	20	N
79IL052A	50	50	N	50	500	1.0	N	N	30	N	15	500	15	70	N
79IL052B	100	70	N	15	300	<1.0	N	N	<20	N	20	300	20	100	N
79IL052C	150	100	N	<10	150	<1.0	N	N	<20	N	30	300	30	100	N
79IL052D	100	150	N	<10	500	1.0	<10	N	N	N	20	300	30	150	N
79IL052E	70	100	N	N	150	<1.0	N	N	N	N	15	300	20	70	N
79IL053A	15	15	N	70	1,000	1.5	N	N	70	N	10	1,000	20	150	N
79IL053B	100	50	N	<10	300	<1.0	N	N	N	N	30	300	30	100	N
79IL053C	100	100	N	<10	300	1.0	N	N	N	N	20	200	30	100	N
79IL054A	20	500	N	20	N	N	N	N	N	N	10	700	N	N	N
79IL054B	20	500	N	10	N	<1.0	N	300	100	N	15	<100	100	70	N
79IL054C	50	300	N	20	300	<1.0	N	N	N	N	30	500	15	20	N
79IL055A	1,500	1,000	N	50	N	N	N	N	N	N	<5	<100	N	N	N
79IL056A	20	10	N	<10	1,000	<1.0	N	N	N	N	30	100	10	20	N
79IL056B	20	7	N	<10	500	N	N	N	N	N	20	<100	10	20	N
79IL056D	15	5	N	<10	1,000	N	N	N	N	N	30	100	15	20	N
79IL057A	10	5	N	N	700	<1.0	N	N	N	N	7	<100	10	100	N
79IL058A	20	7	N	N	1,500	<1.0	N	N	N	N	15	100	10	30	N
79IL058B	30	10	N	<10	200	<1.0	N	N	N	N	30	150	15	50	N
79IL058C	15	15	N	70	300	<1.0	N	N	N	N	30	N	15	50	N
79IL059A	150	150	N	<10	N	<1.0	N	N	N	N	30	100	30	100	N
79IL059B	150	150	N	<10	20	<1.0	N	N	N	N	50	100	30	100	N
79IL060A	3,000	1,500	N	<10	N	N	N	N	N	N	5	N	N	N	N
79IL060B	1,500	1,500	N	<10	N	N	N	N	N	N	7	N	N	N	N
79IL061A	3,000	2,000	N	<10	N	N	N	N	N	N	5	N	N	N	N
79IL061B	70	70	N	N	70	<1.0	N	N	N	N	20	150	30	100	N
79IL062A	100	100	N	N	200	<1.0	N	N	N	N	20	700	20	100	N
79IL063A	150	50	N	15	<20	<1.0	N	N	N	N	50	200	10	10	N
79IL063D	30	15	N	<10	700	<1.0	N	N	N	N	20	1,000	20	50	N
79IL063E	<10	150	N	N	N	N	N	N	N	N	N	<100	N	N	N
79IL063F	10	5	N	<10	200	<1.0	N	N	N	N	15	1,000	15	20	N
79IL064A	10	5	N	N	100	1.0	N	N	N	N	10	200	20	100	N
79IL065A	<10	15	N	<10	<20	<1.0	N	N	N	N	N	<100	N	10	N

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
79IL065B	63 10 26	144 57 12	Magnetite	1	>20.00	.50	.05	.100	500
79IL065C	63 10 26	144 57 12	Magnetite with quartz	1	>20.00	1.00	.07	.100	1,000
79IL066A	63 12 58	144 53 24	Metagabbro	1	15.00	5.00	10.00	1.000	1,000
79IL066B	63 12 58	144 53 24	Metagabbro	1	15.00	5.00	5.00	1.000	1,000
79IL066C	63 12 58	144 53 24	Quartz gabbro	1	15.00	7.00	5.00	1.000	1,500
79IL066D	63 12 58	144 53 24	Diorite porphyry	1	10.00	3.00	3.00	1.000	700
79IL067A	63 12 57	144 52 52	Metabasalt	1	15.00	5.00	5.00	1.000	1,000
79IL067B	63 12 57	144 52 52	Metabasalt	1	15.00	5.00	5.00	.700	1,000
79IL067C	63 12 57	144 52 52	Metabasalt	1	15.00	5.00	5.00	1.000	1,500
79IL067D	63 12 57	144 52 52	Metabasalt	1	15.00	3.00	3.00	.700	1,000
79IL067E	63 12 57	144 52 52	Tuffaceous metasedimentary rock	1	15.00	5.00	2.00	1.000	1,500
79IL068A	63 12 30	144 54 58	Impure quartzite	1	2.00	.70	.20	.300	150
79IL068B	63 12 30	144 54 58	Impure quartzite	1	2.00	.50	.20	.500	100
79IL068C	63 12 30	144 54 58	Impure quartzite	1	2.00	.70	<.05	.500	20
79IL069A	63 11 1	144 58 24	Massive sulfide	1	>20.00	.70	.30	.200	1,000
79IL069B	63 11 1	144 58 24	Metaandesite	1	>20.00	.15	2.00	.150	700
79IL070A	63 9 16	144 51 27	Metadacite porphyry	1	2.00	.70	.30	.200	200
79IL071A	63 9 19	144 51 22	Metavolcaniclastic rock	1	7.00	3.00	1.50	1.000	2,000
79IL071C	63 9 19	144 51 22	Metavolcaniclastic rock	1	10.00	3.00	3.00	.500	2,000
79IL071D	63 9 19	144 51 22	Metaandesite porphyry	1	20.00	3.00	1.00	.700	3,000
79IL071E	63 9 19	144 51 22	Metadacite porphyry	1	15.00	3.00	2.00	.700	2,000
79IL071F	63 9 19	144 51 22	Metadacite porphyry	1	20.00	3.00	.70	.300	3,000
79IL072A	63 8 51	144 53 59	Metavolcanic rock	1	1.50	.02	.05	.500	<10
79IL072C	63 8 51	144 53 59	Quartz porphyry	1	.50	.05	<.05	.500	<10
79IL072D	63 8 51	144 53 59	Dacite porphyry	1	10.00	1.00	.50	.300	2,000
79IL072E	63 8 51	144 53 59	Volcanic agglomerate	1	15.00	2.00	.70	.300	3,000
79IL072F	63 8 51	144 53 59	Volcanic agglomerate	1	10.00	2.00	1.00	.500	3,000
79IL073B	63 8 21	144 48 44	Hematite in volcanic conglomerate	1	>20.00	7.00	1.50	.700	2,000
79IL073C	63 8 21	144 48 44	Massive hematite	1	>20.00	3.00	5.00	.700	2,000
79IL073F	63 8 21	144 48 44	Ash flow tuff	1	3.00	.70	.50	.200	500
79IL073H	63 8 21	144 48 44	Massive hematite	1	>20.00	1.00	5.00	.100	3,000
79IL073I	63 8 21	144 48 44	Massive sulfide in dacite porphyry	1	20.00	3.00	7.00	.050	>5,000
79IL073J	63 8 21	144 48 44	Hematite	1	20.00	2.00	10.00	.300	>5,000
79IL074A	63 9 30	144 51 3	Dacite porphyry	1	3.00	2.00	.20	.500	500
79IL074B	63 9 30	144 51 3	Altered dacite	1	15.00	1.00	<.05	.700	300
79IL075A	63 17 18	145 33 54	Dacite	1	10.00	1.00	1.50	.500	700
79IL075B	63 17 18	145 33 54	Altered andesite porphyry	1	15.00	5.00	3.00	1.000	1,500
79IL075C	63 17 18	145 33 54	Quartz diorite	6	3.00	.70	1.00	.200	700
79IL075E	63 17 18	145 33 54	Greenstone	1	15.00	3.00	3.00	.500	700
79IL075F	63 17 18	145 33 54	Altered andesite	1	15.00	.70	10.00	.500	2,000
79IL075G	63 17 18	145 33 54	Andesite porphyry	1	15.00	2.00	7.00	.700	3,000
79IL076A	63 17 14	145 33 59	Altered andesite porphyry	1	10.00	3.00	1.00	.700	1,500
79IL076B	63 17 14	145 33 59	Andesite porphyry	1	15.00	3.00	3.00	1.000	3,000
79IL076C	63 17 14	145 33 59	Dacite porphyry	1	10.00	5.00	.70	.500	3,000
79IL076D	63 17 14	145 33 59	Fragment 1 dacite	1	7.00	3.00	.50	500	700

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
79IL065B	<5	5	15	<10	80	<200	N	N	N	<50	N	N	10.0	200
79IL065C	<5	5	20	10	110	<200	N	N	N	<50	N	N	10.0	300
79IL066A	280	300	15	<10	20	<200	N	N	N	N	N	N	70.0	700
79IL066B	140	200	15	<10	25	<200	N	N	N	N	N	N	100.0	1,000
79IL066C	320	500	25	10	90	<200	.5	N	N	N	N	N	100.0	1,000
79IL066D	110	200	15	15	50	N	<.5	N	N	N	N	N	20.0	200
79IL067A	160	200	15	<10	20	<200	N	N	N	N	N	N	70.0	500
79IL067B	110	150	10	N	10	<200	N	N	N	N	N	N	100.0	700
79IL067C	360	300	10	10	25	N	N	N	10	N	N	N	70.0	500
79IL067D	400	500	15	10	30	<200	N	N	N	N	N	N	70.0	300
79IL067E	90	150	5	<10	10	<200	N	N	N	N	N	N	70.0	700
79IL068A	60	70	10	N	110	N	<.5	N	5	100	N	N	5.0	150
79IL068B	60	70	20	10	95	<200	1.0	N	5	N	N	N	7.0	200
79IL068C	85	100	15	<10	90	N	.5	N	N	N	N	N	7.0	150
79IL069A	20,000	15,000	250	150	300	200	30.0	N	20	N	N	N	70.0	100
79IL069B	1,100	1,500	85	70	110	N	7.0	200	20	N	N	N	700.0	70
79IL070A	20	10	5	N	10	N	N	N	N	N	N	N	5.0	50
79IL071A	15	10	25	<10	150	<200	N	N	N	N	N	N	10.0	200
79IL071C	20	10	20	<10	70	N	N	N	N	N	N	N	10.0	300
79IL071D	400	7,000	35	10	200	<200	7.0	N	<5	<50	N	N	20.0	150
79IL071E	20	15	20	15	70	N	N	N	N	N	N	N	15.0	500
79IL071F	14,000	15,000	35	10	220	<200	15.0	N	<5	<50	N	N	70.0	150
79IL072A	20	20	10	<10	N	N	<.5	N	N	N	N	N	N	300
79IL072C	30	30	40	20	N	N	<.5	N	N	N	N	N	N	300
79IL072D	35	30	70	50	130	<200	<.5	N	N	N	N	N	7.0	150
79IL072E	95	200	35	20	120	<200	N	N	N	N	N	N	20.0	200
79IL072F	20	20	30	20	450	700	N	N	N	N	N	N	15.0	200
79IL073B	6,400	3,000	30	<10	160	N	N	N	N	50	N	N	50.0	150
79IL073C	15,000	10,000	20	10	100	N	7.0	N	7	100	N	N	15.0	300
79IL073F	110	70	10	N	30	<200	<.5	N	N	N	N	N	5.0	20
79IL073H	180	300	(15)	<10	140	200	N	N	<5	50	N	N	10.0	50
79IL073I	4,800	10,000	(15)	<10	95	<200	7.0	N	<5	50	N	N	20.0	30
79IL073J	440	500	5	10	110	<200	N	N	N	N	N	N	30.0	70
79IL074A	40	30	10	N	50	N	N	N	N	N	N	N	N	70
79IL074B	300	300	20	<10	65	<200	N	N	N	N	N	N	10.0	200
79IL075A	440	700	25	10	90	<200	.7	N	N	N	N	N	20.0	300
79IL075B	30	30	25	<10	70	<200	N	N	N	N	N	N	50.0	1,000
79IL075C	15	5	10	<10	35	N	N	N	N	N	N	N	7.0	70
79IL075E	80	70	25	<10	75	<200	N	N	N	N	N	N	50.0	200
79IL075F	1,500	700	15	15	25	<200	3.0	N	N	N	N	N	5.0	300
79IL075G	1,500	1,500	20	10	85	<200	N	N	N	N	N	<100	10.0	200
79IL076A	30	50	20	10	120	<200	<.5	N	N	N	N	N	20.0	300
79IL076B	30	30	20	10	120	<200	N	N	N	N	N	N	7.0	200
79IL076C	160	200	30	10	220	<200	N	N	N	N	N	N	20.0	300
79IL076D	30	15	20	<10	60	N	N	N	5	N	N	N	10.0	300

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	S-Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
79IL065B	20	15	N	<10	20	1.0	N	N	N	N	10	<100	N	20	N
79IL065C	<10	20	N	<10	30	<1.0	N	N	N	N	<5	<100	<10	20	N
79IL066A	100	150	N	10	50	<1.0	N	N	N	N	50	<100	20	30	N
79IL066B	70	100	N	<10	20	<1.0	N	N	N	N	50	<100	30	30	N
79IL066C	100	150	N	10	20	<1.0	N	N	N	N	70	<100	30	20	N
79IL066D	70	20	N	N	30	1.0	N	N	20	N	15	700	20	100	N
79IL067A	100	100	N	<10	70	<1.0	N	N	N	N	50	100	30	50	N
79IL067B	150	150	N	<10	50	<1.0	N	N	N	N	70	<100	30	30	N
79IL067C	1,000	100	N	<10	30	<1.0	N	N	N	N	50	100	30	30	N
79IL067D	1,000	70	N	<10	100	<1.0	N	N	N	N	30	100	20	50	N
79IL067E	50	70	N	<10	N	<1.0	N	N	N	N	50	<100	30	50	N
79IL068A	30	20	N	70	700	<1.0	N	N	N	N	15	N	10	50	N
79IL068B	50	50	N	100	2,000	1.0	N	N	N	N	15	<100	20	100	N
79IL068C	30	20	N	70	700	1.0	N	N	N	N	15	N	15	70	N
79IL069A	30	30	N	<10	70	2.0	N	N	20	N	5	150	20	100	N
79IL069B	15	70	N	<10	<20	1.5	N	N	N	N	<5	700	15	50	N
79IL070A	<10	5	N	N	500	<1.0	N	N	N	N	10	<100	10	100	N
79IL071A	10	5	N	N	150	<1.0	N	N	N	N	20	200	30	150	N
79IL071C	20	7	N	<10	N	<1.0	N	N	N	N	30	300	<10	30	N
79IL071D	15	5	N	<10	N	N	N	N	N	N	20	<100	<10	<10	N
79IL071E	30	15	N	<10	200	<1.0	N	N	N	N	50	300	20	30	N
79IL071F	20	7	N	<10	N	N	N	N	N	N	20	<100	10	10	N
79IL072A	<10	5	N	N	150	<1.0	N	N	<20	N	20	100	N	70	N
79IL072C	10	5	N	N	<20	<1.0	<10	N	N	N	15	<100	N	100	N
79IL072D	15	5	N	20	500	<1.0	N	N	N	N	20	<100	10	70	N
79IL072E	20	15	N	20	500	<1.0	N	N	N	N	30	100	20	50	N
79IL072F	20	7	N	15	1,000	<1.0	N	N	N	N	30	100	10	50	N
79IL073B	20	<5	N	<10	N	<1.0	N	N	N	N	15	100	10	N	N
79IL073C	15	5	N	<10	N	1.0	N	N	N	N	15	200	15	<10	N
79IL073F	<10	5	N	N	500	1.0	N	N	N	N	10	<100	20	100	N
79IL073H	20	<5	N	<10	N	<1.0	N	N	N	N	<5	100	<10	<10	N
79IL073I	30	5	N	<10	50	2.0	N	N	N	N	<5	100	15	N	N
79IL073J	20	5	N	<10	20	1.5	N	N	N	N	15	150	20	N	N
79IL074A	<10	5	N	N	300	<1.0	N	N	N	N	10	100	10	100	N
79IL074B	20	5	N	<10	700	<1.0	N	N	20	N	30	<100	10	20	N
79IL075A	15	10	N	<10	300	<1.0	N	N	N	N	20	300	N	<10	N
79IL075B	30	20	N	10	200	<1.0	N	N	N	N	50	500	10	20	N
79IL075C	10	5	N	N	300	<1.0	N	N	N	N	15	150	20	150	N
79IL075E	30	20	N	<10	50	<1.0	N	N	N	N	30	300	N	<10	N
79IL075F	15	<5	N	<10	>5,000	<1.0	N	N	N	N	30	1,500	10	<10	N
79IL075G	15	5	N	<10	70	<1.0	N	N	N	N	30	1,000	15	15	N
79IL076A	15	10	N	<10	100	<1.0	N	N	N	N	50	150	15	20	N
79IL076B	20	10	N	<10	50	<1.0	N	N	N	N	20	500	15	70	N
79IL076C	50	30	N	20	1,000	<1.0	N	N	N	N	50	100	10	20	N
79IL076D	15	5	N	20	500	N	N	N	N	N	30	100	20	20	N

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
79IL076E	63 17 14	145 33 59	Andesitic ashflow tuff	1	15.00	3.00	.30	.500	1,500
79IL077A	63 17 6	145 34 48	Andesite breccia	1	10.00	5.00	2.00	.700	2,000
79IL077B	63 17 6	145 34 48	Quartz vein	1	3.00	1.00	2.00	.700	700
79IL077C	63 17 6	145 34 48	Diabase porphyry	1	15.00	5.00	5.00	>1.000	2,000
79IL077D	63 17 6	145 34 48	Quartz vein	1	10.00	2.00	2.00	.700	1,000
79IL077E	63 17 6	145 34 48	Quartz vein	2	10.00	3.00	7.00	>1.000	2,000
79IL078A	63 17 2	145 33 50	Altered andesite porphyry	1	15.00	3.00	20.00	.700	2,000
79IL078B	63 17 2	145 33 50	Quartz vein	1	.50	.03	.70	.015	70
79IL078C	63 17 2	145 33 50	Altered andesite porphyry	1	5.00	3.00	1.00	.500	1,500
79IL078D	63 17 2	145 33 50	Altered andesite porphyry	1	15.00	5.00	5.00	1.000	2,000
79IL078E	63 17 2	145 33 50	Altered volcanic rock	1	15.00	5.00	.50	1.000	2,000
79IL079A	63 19 26	145 39 39	Volcaniclastic sedimentary rock	1	10.00	2.00	1.50	.500	700
79IL079B	63 19 26	145 39 39	Dacite porphyry	1	5.00	.30	1.50	.500	70
79IL079C	63 19 26	145 39 39	Dacite porphyry	1	5.00	.70	1.00	.500	100
79IL079D	63 19 26	145 39 39	Dacite porphyry	1	2.00	1.00	2.00	.500	200
79IL079E	63 19 26	145 39 39	Dacite porphyry	1	10.00	1.00	1.50	1.000	70
79IL080A	63 21 12	145 39 35	Altered quartz diorite	6	15.00	5.00	7.00	.500	2,000
79IL080B	63 21 12	145 39 35	Altered quartz diorite	6	15.00	5.00	7.00	1.000	2,000
79IL081A	63 21 7	145 39 29	Diorite	6	>20.00	5.00	7.00	.300	700
79IL081B	63 21 7	145 39 29	Altered diorite	6	15.00	5.00	7.00	.700	1,500
79IL081C	63 21 7	145 39 29	Serpentinized dike	5	15.00	>10.00	.50	.200	1,000
79IL083A	63 19 44	145 35 40	Quartz diorite	6	10.00	1.00	10.00	.300	1,000
79IL083C	63 19 44	145 35 40	Actinolite schist	5	15.00	10.00	10.00	1.000	2,000
79IL083D	63 19 44	145 35 40	Quartz diorite	6	3.00	.30	3.00	.300	300
79IL083E	63 19 44	145 35 40	Quartz diorite	6	3.00	1.50	3.00	.300	700
79IL084A	63 19 42	145 34 33	Quartz monzonite	6	3.00	.70	1.50	.200	300
79IL084B	63 19 42	145 34 33	Altered diabase	6	10.00	7.00	5.00	.300	1,000
79IL084C	63 19 42	145 34 33	Altered quartz diorite porphyry	6	7.00	1.50	2.00	.300	1,500
79IL085B	63 19 43	145 40 38	Andesite	1	10.00	1.50	1.50	.500	500
79IL085C	63 19 43	145 40 38	Altered feldspar porphyry	1	7.00	1.00	2.00	.300	1,000
79IL085D	63 19 43	145 40 38	Fine-grained volcaniclastic rock	1	10.00	3.00	.70	.500	1,000
79IL085E	63 19 43	145 40 38	Andesite	1	10.00	1.50	5.00	.700	1,500
79IL085F	63 19 43	145 40 38	Andesite porphyry	1	10.00	3.00	1.00	.500	1,000
79IL086A	63 19 0	145 40 12	Quartz-carbonate vein	1	10.00	5.00	7.00	.070	3,000
79IL086B	63 19 0	145 40 12	Altered dacite porphyry	1	7.00	.70	.70	.500	1,000
79IL086C	63 19 0	145 40 12	Dacite porphyry	1	10.00	2.00	1.00	.500	700
79IL086D	63 19 0	145 40 12	Quartz vein	1	.20	.05	.30	.020	50
79IL091A	63 20 24	145 46 34	Diabase	1	10.00	5.00	3.00	.500	2,000
79IL091B	63 20 24	145 46 34	Massive sulfide in skarn	1	>20.00	3.00	5.00	.150	3,000
79IL091C	63 20 24	145 46 34	Diabase	1	15.00	5.00	5.00	.700	2,000
79IL091D	63 20 24	145 46 34	Altered ashflow	1	7.00	3.00	1.00	.300	1,000
79IL091E	63 20 24	145 46 34	Altered volcanic rock	1	5.00	1.00	3.00	.300	3,000
79IL092A	63 20 25	145 46 43	Peridotite	1	15.00	10.00	1.50	.100	1,500
79IL092B	63 20 25	145 46 43	Calcareous ultramafic rock	1	7.00	7.00	10.00	.500	1,500
79IL092C	63 20 25	145 46 43	Peridotite	1	10.00	10.00	3.00	.200	1,500

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
79IL076E	25	100	40	30	180	<200	.7	N	10	N	N	N	70.0	500
79IL077A	50	70	25	N	160	<200	N	N	N	N	N	N	5.0	500
79IL077B	260	300	15	N	60	N	N	N	N	N	N	N	7.0	150
79IL077C	200	300	25	<10	95	<200	N	N	N	N	N	N	70.0	1,000
79IL077D	60	100	15	<10	55	<200	N	N	N	N	N	N	7.0	300
79IL077E	480	2,000	15	<10	85	N	2.0	N	N	N	N	N	20.0	300
79IL078A	20	15	15	10	40	N	N	N	N	N	N	N	10.0	1,500
79IL078B	10	<5	5	<10	<5	N	N	N	N	N	N	N	N	15
79IL078C	25	7	20	N	95	<200	N	N	N	N	N	N	15.0	300
79IL078D	30	100	20	<10	90	<200	<.5	N	N	N	N	N	30.0	300
79IL078E	20	30	25	<10	120	<200	<.5	N	N	N	N	N	20.0	300
79IL079A	15	20	10	<10	60	<200	N	N	N	N	N	N	15.0	300
79IL079B	30	50	25	20	20	N	.5	N	15	N	N	N	10.0	100
79IL079C	40	150	15	15	15	N	<.5	N	N	N	N	N	15.0	500
79IL079D	190	200	10	10	35	N	<.5	N	N	N	N	N	5.0	500
79IL079E	30	50	15	15	20	N	<.5	N	5	N	N	N	20.0	1,000
79IL080A	120	300	20	<10	75	<200	N	N	N	N	N	N	50.0	700
79IL080B	90	150	20	<10	75	<200	N	N	N	N	N	N	30.0	700
79IL081A	16,000	20,000	30	10	30	<200	5.0	N	N	N	N	N	700.0	500
79IL081B	15	70	20	<10	30	N	<.5	N	N	N	N	N	30.0	150
79IL081C	160	300	40	10	40	N	N	N	N	N	N	N	300.0	100
79IL083A	12,000	20,000	10	10	140	N	30.0	N	N	N	N	N	50.0	50
79IL083C	130	300	10	<10	15	N	N	N	N	N	N	N	100.0	500
79IL083D	140	100	5	N	<5	N	N	N	N	N	N	N	<5.0	50
79IL083E	15	7	10	<10	25	N	N	N	N	N	N	N	N	70
79IL084A	130	200	10	<10	15	N	<.5	N	N	N	N	N	5.0	50
79IL084B	90	300	15	<10	15	<200	N	N	N	N	N	N	100.0	200
79IL084C	190	300	15	10	65	N	<.5	N	N	N	N	N	5.0	100
79IL085B	100	150	30	20	45	N	N	N	N	N	N	N	50.0	200
79IL085C	100	150	15	10	45	N	N	N	N	N	N	N	10.0	150
79IL085D	80	150	25	15	75	<200	N	N	N	N	N	N	15.0	300
79IL085E	60	150	15	10	40	N	N	N	N	N	N	N	10.0	150
79IL085F	70	100	25	10	95	<200	N	N	N	N	N	N	15.0	200
79IL086A	20	5	(40)	50	280	200	N	N	N	N	N	N	20.0	70
79IL086B	220	300	(15)	15	110	<200	<.5	N	N	N	N	N	10.0	150
79IL086C	10	5	20	20	95	<200	N	N	N	N	N	N	20.0	200
79IL086D	85	30	5	N	5	<200	N	N	N	N	N	N	N	N
79IL091A	340	500	20	10	95	<200	N	N	N	N	N	N	70.0	700
79IL091B	1,800	2,000	35	30	110	<200	5.0	N	N	N	N	N	300.0	300
79IL091C	140	1,500	20	<10	85	<200	N	N	N	N	N	N	70.0	700
79IL091D	65	70	15	<10	70	<200	N	N	N	N	N	N	30.0	300
79IL091E	85	100	(30)	20	85	<200	<.5	N	N	N	N	N	20 0	200
79IL092A	680	700	30	<10	65	<200	.5	N	N	N	N	N	150.0	200
79IL092B	360	500	15	<10	15	<200	.5	N	N	N	N	N	70.0	700
79IL092C	480	700	25	10	45	<200	.5	N	N	N	N	N	150.0	300

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	S-Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
79IL076E	20	7	N	10	500	<1.0	<10	N	20	N	50	100	20	30	N
79IL077A	15	7	N	<10	200	<1.0	N	N	N	N	30	200	10	20	N
79IL077B	30	30	N	N	<20	<1.0	N	N	N	N	20	150	10	30	N
79IL077C	150	150	N	<10	100	<1.0	N	N	N	N	50	200	20	100	N
79IL077D	10	7	N	<10	50	<1.0	N	N	N	N	30	300	15	50	N
79IL077E	100	100	N	<10	N	<1.0	N	N	N	N	20	700	15	70	N
79IL078A	15	10	N	<10	<20	<1.0	N	N	N	N	50	1,000	20	20	N
79IL078B	<10	10	N	N	N	N	N	N	N	N	<5	<100	N	N	N
79IL078C	10	10	N	10	500	<1.0	N	N	N	N	30	100	10	15	N
79IL078D	30	5	N	<10	700	<1.0	N	N	N	N	50	300	20	50	N
79IL078E	15	5	N	<10	200	<1.0	N	N	N	N	50	<100	15	30	N
79IL079A	20	10	N	10	700	<1.0	N	N	N	N	20	150	20	70	N
79IL079B	20	10	N	N	300	<1.0	N	N	N	N	20	200	<10	70	N
79IL079C	20	15	N	N	700	<1.0	N	N	N	N	30	150	<10	70	N
79IL079D	10	5	N	N	700	<1.0	N	N	N	N	15	300	10	100	N
79IL079E	30	15	N	N	1,000	<1.0	N	N	N	N	50	300	10	100	N
79IL080A	30	20	N	10	300	<1.0	N	N	N	N	50	700	20	<10	N
79IL080B	30	30	N	10	200	<1.0	N	N	N	N	70	700	20	<10	N
79IL081A	300	>5,000	N	<10	700	N	N	N	N	N	15	500	N	<10	N
79IL081B	20	200	N	<10	300	N	N	N	N	N	30	700	10	10	N
79IL081C	5,000	2,000	N	30	N	N	N	N	N	N	10	<100	N	N	N
79IL083A	10	30	N	<10	20	N	N	N	N	N	5	1,000	10	70	N
79IL083C	500	200	N	30	1,500	<1.0	N	N	N	N	50	300	20	20	N
79IL083D	<10	15	N	50	700	<1.0	N	N	N	N	N	200	10	100	N
79IL083E	<10	5	N	N	3,000	1.0	N	N	N	N	10	300	10	70	N
79IL084A	<10	5	N	N	700	<1.0	N	N	N	N	7	300	10	150	N
79IL084B	1,500	700	N	10	500	N	N	N	N	N	20	150	10	20	N
79IL084C	10	5	N	20	2,000	1.0	N	N	N	N	15	300	10	70	N
79IL085B	20	10	N	15	1,000	1.0	N	N	N	N	20	300	15	50	N
79IL085C	<10	5	N	10	100	<1.0	N	N	N	N	15	100	15	30	N
79IL085D	20	10	N	20	700	<1.0	N	N	N	N	30	200	30	100	N
79IL085E	10	5	N	<10	70	<1.0	N	N	N	N	15	150	20	70	N
79IL085F	10	7	N	10	700	<1.0	N	N	N	N	15	200	20	50	N
79IL086A	<10	7	N	10	>5,000	<1.0	N	N	N	N	7	700	20	10	N
79IL086B	<10	5	N	N	300	<1.0	N	N	N	N	20	100	10	50	N
79IL086C	15	10	N	10	500	<1.0	N	N	N	N	20	100	20	50	N
79IL086D	<10	7	N	N	100	<1.0	N	N	N	N	<5	<100	N	10	N
79IL091A	70	100	N	<10	300	<1.0	N	N	N	N	100	300	50	50	N
79IL091B	50	15	N	<10	200	<1.0	N	N	<20	N	30	700	50	150	N
79IL091C	300	150	N	<10	150	<1.0	N	N	N	<20	100	300	50	70	N
79IL091D	10	15	N	10	1,000	1.0	N	N	20	N	50	200	50	150	N
79IL091E	10	20	N	10	1,500	1.0	N	N	N	N	20	200	30	100	N
79IL092A	3,000	1,500	N	15	50	N	N	N	N	N	30	<100	<10	<10	N
79IL092B	3,000	700	N	<10	20	N	N	N	N	N	100	500	30	70	N
79IL092C	>5,000	2,000	N	<10	200	<1.0	N	N	N	N	50	150	10	20	N

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
79ILO92D	63 20 25	145 46 43	Peridotite	1	15.00	10.00	1.00	.100	2,000
79ILO92E	63 20 25	145 46 43	Gabbro	1	20.00	10.00	2.00	.200	2,000
79NK001A	63 8 53	145 54 45	Metabasalt	2	15.00	5.00	7.00	>1.000	1,500
79NK001C	63 8 53	145 54 45	Metadacite dike	2	10.00	3.00	7.00	.700	1,000
79NK002A	63 12 6	146 11 6	Metabasalt	2	20.00	7.00	7.00	>1.000	1,000
79NK002B	63 12 6	146 11 6	Metabasalt	2	20.00	5.00	10.00	>1.000	1,000
79NK003A	63 21 24	146 2 22	Biotite-white mica schist	3	15.00	3.00	1.50	1.000	1,000
79NK003B	63 21 24	146 2 22	Calcareous schist	3	10.00	7.00	5.00	.700	700
79NK003C	63 21 24	146 2 22	Quartz vein	3	.50	.30	.07	.050	20
79NK004A	63 21 24	146 2 45	Calcareous schist	3	15.00	2.00	3.00	1.000	700
79NK006B	63 21 5	146 3 38	Calcareous quartz granofels	1	10.00	10.00	5.00	.150	1,000
79NK007A	63 20 55	146 3 50	Metabasalt	1	15.00	10.00	15.00	>1.000	1,500
79NK007D	63 20 55	146 3 50	Metaandesite-dacite porphyry	1	5.00	>10.00	<.05	.020	200
79NK008A	63 20 52	146 4 7	Metagabbro	1	15.00	3.00	5.00	.150	1,000
79NK008B	63 20 52	146 4 7	Metabasalt	1	20.00	10.00	5.00	>1.000	1,000
79NK009A	63 20 40	146 5 9	Serpentinized olivine cumulate	1	15.00	>10.00	<.05	.020	700
79NK011A	63 20 20	146 5 10	Metaandesite-dacite porphyry	1	10.00	1.50	1.00	.700	1,000
79NK012A	63 20 26	146 5 32	Metadacite	1	15.00	.20	.20	.500	1,000
79NK014A	63 19 43	146 7 26	Metaandesite-dacite porphyry	1	10.00	10.00	.20	.020	700
79NK015A	63 18 52	145 59 7	Altered diorite	1	15.00	5.00	10.00	>1.000	300
79NK015B	63 18 52	145 59 7	Metagabbro	1	20.00	5.00	7.00	>1.000	1,500
79NK017A	63 19 9	145 59 27	Metabasalt	1	10.00	5.00	15.00	.500	700
79NK019A	63 19 30	145 59 25	Altered dacite	1	10.00	2.00	3.00	.700	300
79NK020A	63 19 37	145 59 38	Altered basalt	1	7.00	1.50	.30	.700	30
79NK021A	63 19 28	145 53 57	Serpentinized olivine cumulate	1	>20.00	>10.00	.05	.015	1,000
79NK022A	63 19 45	145 53 50	Serpentinized olivine cumulate	1	5.00	10.00	<.05	.010	500
79NK023A	63 19 24	145 54 29	Olivine cumulate	1	20.00	>10.00	.05	.015	1,000
79NK025A	63 20 51	145 53 55	Andesite	1	20.00	7.00	5.00	>1.000	1,000
79NK026A	63 21 40	145 56 14	Quartz-biotite schist	3	10.00	3.00	1.50	>1.000	700
79NK026B	63 21 40	145 56 14	Quartz-biotite schist	3	15.00	3.00	2.00	>1.000	700
79NK027A	63 17 50	145 59 19	Cumulate gabbro	1	20.00	>10.00	1.50	.300	1,000
79NK027B	63 17 50	145 59 19	Andesite	1	10.00	3.00	3.00	.700	200
79NK029A	63 19 35	146 14 35	Quartz-plag-white mica phyllite	3	5.00	1.00	20.00	.300	2,000
79NK030A	63 19 21	146 14 29	Semischist	3	15.00	3.00	5.00	.700	1,000
79NK030B	63 19 21	146 14 29	Quartz vein	3	1.50	.70	20.00	.100	500
79NK031B	63 19 0	146 13 57	Quartz vein	3	10.00	2.00	1.00	.500	1,000
79NK032A	63 18 57	146 14 0	Serpentinized olivine cumulate	1	15.00	>10.00	.05	.200	1,500
79NK032B	63 18 57	146 14 0	Fault breccia	1	20.00	.50	<.05	.500	200
79NK033A	63 18 49	146 13 36	Metabasalt	1	15.00	>10.00	10.00	>1.000	1,000
79NK034A	63 18 40	146 13 26	Metaandesite-dacite porphyry	1	10.00	3.00	5.00	.500	2,000
79NK034B	63 18 40	146 13 26	Metaandesite-dacite porphyry	1	10.00	3.00	3.00	.700	1,000
79NK035A	63 18 20	146 13 8	Metaandesite-dacite porphyry	1	>20.00	.70	5 00	.150	500
79NK036A	63 18 11	146 12 35	Metaandesite-dacite porphyry	1	15.00	5.00	.15	.700	700
79NK037A	63 18 11	146 11 37	Metadacite	1	15.00	7 00	.07	1.000	1,000
79NK038A	63 7 5	145 48 50	Tuff	2	3.00	1.50	2.00	1.000	700

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
79IL092D	160	300	30	10	60	<200	<.5	N	N	N	N	N	200.0	200
79IL092E	880	1,000	30	10	65	<200	1.0	N	N	N	N	N	200.0	300
79NK001A	180	300	10	N	35	N	N	N	N	N	N	N	50.0	1,500
79NK001C	5	5	(15)	10	10	N	N	N	N	N	N	N	7.0	300
79NK002A	40	50	5	<10	30	N	N	N	N	N	N	N	70.0	2,000
79NK002B	30	30	5	N	30	N	N	N	N	N	N	N	70.0	1,500
79NK003A	75	200	15	15	85	<200	<.5	N	N	N	N	N	20.0	500
79NK003B	60	150	25	15	65	N	N	N	N	N	N	N	20.0	300
79NK003C	25	10	5	N	5	N	N	N	N	N	N	N	N	30
79NK004A	60	100	15	15	80	N	<.5	N	N	N	N	N	10.0	300
79NK006B	30	30	25	N	15	N	N	N	N	N	N	N	100.0	70
79NK007A	10	7	5	<10	15	<200	N	N	N	N	N	N	70.0	700
79NK007D	10	10	30	N	30	N	N	N	N	N	N	N	100.0	50
79NK008A	1,800	1,500	10	10	10	N	3.0	N	N	N	N	N	100.0	150
79NK008B	55	70	5	N	15	N	N	N	N	N	N	N	100.0	1,000
79NK009A	<5	<5	30	N	45	N	N	N	N	N	N	N	150.0	50
79NK011A	60	70	10	<10	90	N	<.5	N	N	N	N	N	10.0	300
79NK012A	100	100	10	10	80	N	1.0	N	N	N	N	N	10.0	500
79NK014A	30	50	25	<10	30	N	N	N	N	N	N	N	150.0	50
79NK015A	60,000	>20,000	10	<10	40	N	2.0	N	N	N	N	N	100.0	700
79NK015B	240	500	5	N	45	N	N	N	N	N	N	N	100.0	1,000
79NK017A	65	150	(5)	N	<5	N	N	N	N	N	N	N	30.0	200
79NK019A	45	50	(10)	10	70	N	N	N	N	N	N	N	15.0	300
79NK020A	50	100	10	20	80	<200	.7	N	7	N	N	N	7.0	300
79NK021A	50	100	35	N	40	N	N	N	N	N	N	N	500.0	50
79NK022A	30	7	30	N	30	N	N	N	N	N	N	N	70.0	10
79NK023A	20	10	30	N	40	N	N	N	N	N	N	N	200.0	50
79NK025A	160	300	10	10	80	N	N	N	N	N	N	N	30.0	1,000
79NK026A	35	15	10	20	70	<200	N	N	N	N	N	N	10.0	300
79NK026B	80	70	10	20	65	<200	N	N	N	N	N	N	10.0	700
79NK027A	55	150	25	N	55	N	N	N	N	N	N	N	300.0	300
79NK027B	70	100	10	<10	55	N	N	N	N	N	N	N	10.0	500
79NK029A	25	10	(20)	<10	50	N	N	N	N	N	N	N	7.0	150
79NK030A	55	50	(15)	10	70	N	N	N	N	N	N	N	15.0	500
79NK030B	5	5	(10)	<10	15	N	N	N	N	N	N	N	5.0	50
79NK031B	45	100	5	N	110	<200	N	N	N	<50	N	N	15.0	500
79NK032A	20	20	30	<10	30	N	N	N	N	N	N	N	200.0	150
79NK032B	200	300	15	15	550	500	.7	N	10	N	N	N	20.0	500
79NK033A	180	300	10	N	30	N	N	N	N	N	N	N	150.0	700
79NK034A	100	150	10	10	65	N	<.5	N	N	N	N	N	10.0	300
79NK034B	120	150	10	15	85	N	<.5	N	N	N	N	N	20.0	500
79NK035A	15	10	15	10	30	<N	N	N	15	N	N	N	30.0	100
79NK036A	35	70	75	200	300	300	5	N	5	N	N	N	7.0	500
79NK037A	75	100	45	50	180	<200	.5	N	N	N	N	N	<5.0	500
79NK038A	60	30	<5	N	35	N	<.5	N	N	N	N	N	5.0	300

TABLE 6 ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	S-Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
79IL092D	>5,000	2,000	N	<10	70	N	N	N	N	N	30	100	<10	20	N
79IL092E	>5,000	3,000	N	10	50	N	N	N	N	N	50	100	10	10	N
79NK001A	500	150	N	N	50	<1.0	N	N	N	N	30	200	20	50	N
79NK001C	10	5	N	N	50	<1 0	N	N	N	N	15	200	20	30	N
79NK002A	700	300	N	N	150	<1.0	N	N	N	N	50	100	30	50	N
79NK002B	500	200	N	N	70	<1 0	N	N	N	N	50	200	20	50	N
79NK003A	200	150	N	70	500	1.0	N	N	N	N	20	200	20	100	N
79NK003B	1,000	150	N	50	1,500	<1 0	N	N	N	N	15	500	10	15	N
79NK003C	10	20	N	N	50	N	N	N	N	N	N	N	N	<10	N
79NK004A	150	50	N	50	200	<1.0	N	N	N	N	15	300	20	70	N
79NK006B	3,000	2,000	N	<10	20	N	N	N	N	N	5	<100	N	N	N
79NK007A	1,500	1,000	N	N	200	<1 0	N	N	N	N	30	200	20	50	N
79NK007D	5,000	3,000	N	70	N	N	N	N	N	N	<5	N	N	N	N
79NK008A	70	300	N	<10	30	<1 0	N	N	N	N	N	700	10	20	N
79NK008B	3,000	1,500	N	N	100	<1.0	N	N	N	N	20	150	15	30	N
79NK009A	>5,000	5,000	N	10	N	N	N	N	N	N	<5	N	N	N	N
79NK011A	10	30	N	N	500	<1.0	N	N	N	N	15	100	15	50	N
79NK012A	20	15	N	20	200	<1.0	N	N	N	N	20	100	15	30	N
79NK014A	3,000	2,000	N	100	N	N	N	N	N	N	5	N	N	N	N
79NK015A	30	300	N	N	100	<1.0	N	N	N	N	30	300	30	70	N
79NK015B	300	150	N	N	100	<1 0	N	N	N	N	70	200	30	70	N
79NK017A	700	300	N	N	N	<1.0	N	N	N	N	20	300	15	10	N
79NK019A	100	100	N	N	200	<1.0	N	N	N	N	20	500	10	70	N
79NK020A	150	70	N	100	500	<1.0	N	N	<20	N	30	100	20	70	N
79NK021A	>5,000	5,000	N	<10	N	N	N	N	N	N	<5	N	N	N	N
79NK022A	1,500	1,500	N	20	N	N	N	N	N	N	N	N	N	N	N
79NK023A	>5,000	3,000	N	N	N	N	N	N	N	N	<5	N	N	N	N
79NK025A	20	20	N	N	500	N	N	N	N	N	50	200	20	10	N
79NK026A	100	100	N	N	150	<1.0	N	N	N	N	15	200	20	50	N
79NK026B	150	50	N	70	500	<1.0	N	N	N	N	15	700	30	70	N
79NK027A	>5,000	5,000	N	<10	N	N	N	N	N	N	10	<100	N	<10	N
79NK027B	150	70	N	N	300	<1.0	N	N	N	N	15	500	20	70	N
79NK029A	20	15	N	N	100	N	N	N	N	N	7	300	10	15	N
79NK030A	100	70	N	20	300	<1.0	N	N	N	N	15	100	15	30	N
79NK030B	10	10	N	N	30	N	N	N	N	N	N	150	N	N	N
79NK031B	70	50	N	N	300	<1 0	N	N	N	N	15	150	10	50	N
79NK032A	3,000	2,000	N	N	N	N	N	N	N	N	10	N	N	N	N
79NK032B	100	150	N	20	1,000	<1 0	N	N	<20	N	15	100	20	70	N
79NK033A	5,000	2,000	N	N	70	N	N	N	N	N	30	200	15	30	N
79NK034A	15	15	N	N	500	<1 0	N	N	N	N	15	300	20	30	N
79NK034B	20	20	N	N	300	<1.0	N	N	N	N	30	300	20	20	N
79NK035A	70	10	N	<10	300	<1.0	N	N	N	N	7	300	20	30	N
79NK036A	50	20	N	N	700	<1.0	N	N	N	N	30	N	20	30	N
79NK037A	50	15	N	N	500	N	N	N	N	N	30	N	<10	20	N
79NK038A	70	150	N	N	3,000	<1 0	N	N	<20	N	15	700	20	100	N

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
79NK038B	63 7 5	145 48 50	Fine-grained gabbro	2	20.00	7.00	10.00	>1.000	1,500
79NK038C	63 7 5	145 48 50	Coarse-grained gabbro	2	20.00	5.00	10.00	>1.000	1,000
79NK039A	63 6 54	145 48 24	Gabbro	2	15.00	1.50	2.00	>1.000	1,000
79NK044A	63 21 0	146 22 44	Biotite-white mica schist	3	10.00	2.00	1.00	1.000	500
79NK045A	63 18 33	146 23 48	Metagabbro	1	15.00	5.00	5.00	.700	1,000
79NK045B	63 18 33	146 23 48	Metagranodiorite	6	10.00	2.00	2.00	.500	500
79NK045C	63 18 33	146 23 48	Metagranodiorite	6	10.00	1.50	1.00	.700	500
79NK047A	63 18 50	146 23 30	Metagabbro	1	15.00	5.00	5.00	.700	1,000
79NK048A	63 18 12	146 24 0	Pillowed metabasalt	2	15.00	5.00	3.00	>1.000	700
79NK051A	63 19 24	146 22 54	Metagranodiorite	6	7.00	1.50	2.00	.700	300
79NK051B	63 19 24	146 22 54	Metabasalt	1	15.00	10.00	5.00	1.000	1,500
79NK051C	63 19 24	146 22 54	Metagabbro	1	15.00	5.00	7.00	>1.000	1,500
79NK051D	63 19 24	146 22 54	Serpentinized ultramafic rock	1	15.00	>10.00	1.00	.200	700
79NK051E	63 19 24	146 22 54	Semischist	1	10.00	>10.00	20.00	>1.000	1,000
79NK052A	63 18 46	146 26 8	Metagranodiorite	6	15.00	3.00	5.00	.700	700
79NK052B	63 18 46	146 26 8	Metagabbro	1	15.00	7.00	7.00	1.000	2,000
79NK053A	63 18 42	146 25 47	Quartz-carbonate vein	1	10.00	7.00	15.00	.700	1,500
79NK054A	63 18 20	146 25 40	Sheared diorite	1	15.00	10.00	7.00	>1.000	1,000
79NK055B	63 18 12	146 25 42	Diabase	2	15.00	10.00	7.00	.500	1,000
79NK055D	63 18 12	146 25 42	Silicic diabase	2	10.00	2.00	1.50	.300	500
79NK056A	63 20 35	146 29 20	Quartz-white mica schist	3	5.00	1.50	.05	.500	70
79NK056B	63 20 35	146 29 20	Quartz vein	3	.20	.05	.05	.007	<10
79NK056C	63 20 35	146 29 20	Quartz-white mica schist	3	10.00	3.00	2.00	1.000	700
79NK057A	63 16 38	146 28 47	Metabasalt	2	20.00	5.00	5.00	>1.000	1,500
79NK058A	63 17 48	146 28 50	Biotite-white mica-garnet schist	3	15.00	7.00	7.00	>1.000	1,000
79NK060A	63 17 39	146 28 29	Greenstone	2	20.00	10.00	10.00	>1.000	1,000
79NK061A	63 6 46	145 46 58	Metabasalt	2	15.00	5.00	7.00	>1.000	1,000
79NK062A	63 6 47	145 46 48	Metadiabase	2	15.00	5.00	7.00	>1.000	700
79NK063A	63 6 45	145 46 29	Metagabbro	2	10.00	10.00	10.00	.300	1,000
79NK065A	63 19 47	145 49 29	Metadacite	1	2.00	1.00	3.00	.200	500
79NK065B	63 19 47	145 49 29	Metatuff	1	5.00	5.00	15.00	.300	3,000
79NK066A	63 19 44	145 48 20	Metaandesite	1	2.00	.70	.30	.150	200
79NK067A	63 19 42	145 47 45	Metaandesite	1	15.00	5.00	2.00	.700	1,000
79NK071A	63 11 3	146 29 47	Metabasalt	2	15.00	5.00	7.00	>1.000	1,500
79NK072A	63 11 7	146 48 58	Metabasalt	2	10.00	3.00	7.00	>1.000	1,500
79NK073A	63 26 44	146 45 24	Garnet schist	2	10.00	2.00	.50	.700	1,000
79NK074A	63 27 25	146 46 34	Migmatitic schist	2	7.00	2.00	.70	.500	700
79NK074C	63 27 25	146 46 34	Migmatitic schist	2	3.00	.70	.70	.300	500
79NK075A	63 11 48	146 46 57	Metabasalt	2	15.00	7.00	10.00	>1.000	1,500
79NK075B	63 11 48	146 46 57	Epidote vein	2	10.00	5.00	7.00	>1.000	1,500
79NK076A	63 11 35	146 46 25	Metabasalt	2	15.00	5.00	5.00	>1.000	1,500
79NK076B	63 11 35	146 46 25	Metabasalt	2	15.00	7.00	7.00	>1.000	1,000
79NK077A	63 12 48	146 41 26	Metabasalt	2	20.00	7.00	5.00	>1.000	1,500
79NK078A	63 13 17	146 38 43	Metabasalt	2	15.00	3.00	5.00	>1.000	1,500
79NK079A	63 10 37	146 56 23	Mudstone	4	.70	.70	>20.00	.070	300

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
79NK038B	160	300	5	N	35	N	N	N	N	N	N	N	100.0	2,000
79NK038C	140	200	10	N	45	<200	N	N	N	N	N	N	70.0	2,000
79NK039A	280	300	5	N	30	<200	<.5	N	N	N	N	N	20.0	70
79NK044A	50	70	10	20	100	N	N	N	N	N	N	N	15.0	300
79NK045A	100	150	10	10	50	N	N	N	N	N	N	N	100.0	700
79NK045B	20	15	<5	10	20	N	N	N	N	N	N	N	10.0	200
79NK045C	15	15	<5	<10	40	N	N	N	N	N	N	N	7.0	70
79NK047A	5	<5	5	15	55	<200	N	N	N	N	N	N	20.0	500
79NK048A	95	150	10	<10	50	<200	N	N	N	N	N	N	50.0	700
79NK051A	15	10	5	<10	50	N	N	N	N	N	N	N	7.0	70
79NK051B	30	20	10	N	85	<200	N	N	N	N	N	N	70.0	1,000
79NK051C	90	150	10	10	60	<200	N	N	N	N	N	N	30.0	200
79NK051D	70	100	25	N	40	N	N	N	N	N	N	N	150.0	100
79NK051E	45	70	20	10	75	N	N	N	N	N	N	N	10.0	300
79NK052A	55	50	5	10	35	N	N	N	N	N	N	N	20.0	500
79NK052B	140	150	5	<10	65	<200	N	N	N	N	N	N	70.0	1,000
79NK053A	95	150	30	20	120	<200	N	N	N	N	N	N	30.0	300
79NK054A	160	200	10	15	60	<200	N	N	N	N	N	N	100.0	700
79NK055B	100	150	10	N	30	N	N	N	N	N	N	N	50.0	700
79NK055D	360	500	5	<10	15	N	N	N	N	N	N	N	15.0	300
79NK056A	45	30	5	10	100	<200	<.5	N	N	N	N	N	5.0	700
79NK056B	<5	<5	<5	<10	5	N	N	N	N	N	N	N	N	<10
79NK056C	35	20	10	20	65	<200	N	N	N	N	N	N	10.0	300
79NK057A	95	200	5	<10	45	<200	N	N	N	N	N	N	50.0	1,500
79NK058A	180	150	<5	N	10	N	N	N	N	N	N	N	50.0	1,000
79NK060A	120	300	5	<10	10	N	<.5	N	N	N	N	N	100.0	2,000
79NK061A	170	300	10	<10	25	N	N	N	N	N	N	N	70.0	700
79NK062A	25	20	10	<10	5	N	N	N	N	N	N	N	70.0	1,000
79NK063A	25	20	20	<10	25	N	N	N	N	N	N	N	70.0	300
79NK065A	45	20	25	N	65	N	N	N	N	N	N	N	5.0	200
79NK065B	45	30	(65)	50	120	N	N	N	50	N	N	N	<5.0	70
79NK066A	5	<5	10	10	25	N	N	N	N	N	N	N	<5.0	10
79NK067A	130	200	30	<10	80	N	N	N	N	N	N	N	50.0	500
79NK071A	380	500	20	<10	70	N	.5	N	N	N	N	N	100.0	1,000
79NK072A	70	200	15	N	40	N	<.5	N	N	N	N	N	50.0	200
79NK073A	20	15	15	20	100	<200	N	N	N	N	N	N	10.0	300
79NK074A	60	50	20	15	90	<200	N	N	N	N	N	N	15.0	300
79NK074C	30	20	10	20	55	N	N	N	N	N	N	N	7.0	70
79NK075A	100	300	20	N	55	<200	N	N	N	N	N	N	70.0	700
79NK075B	380	500	20	N	85	N	N	N	N	N	N	N	100.0	200
79NK076A	160	300	15	N	45	<200	N	N	N	N	N	N	70.0	300
79NK076B	5	30	25	N	85	<200	N	N	N	N	N	N	100.0	500
79NK077A	170	300	20	10	25	<200	<.5	N	N	N	N	N	150.0	1,000
79NK078A	80	150	20	<10	75	<200	<.5	N	N	N	N	N	70.0	500
79NK079A	10	5	(55)	N	20	N	N	700	N	N	N	N	N	100

TABLE 6 ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	S-Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
79NK038B	500	200	N	<10	100	<1.0	N	N	N	N	50	200	30	70	N
79NK038C	300	200	N	<10	50	N	N	N	N	N	50	200	30	20	N
79NK039A	15	7	N	<10	200	<1.0	N	N	N	N	20	<100	100	150	N
79NK044A	150	100	N	50	300	<1.0	N	N	<20	N	15	300	30	100	N
79NK045A	500	200	N	N	500	N	N	N	N	N	30	150	10	20	N
79NK045B	20	15	N	N	1,000	<1.0	N	N	20	N	15	200	15	70	N
79NK045C	10	7	N	N	50	<1.0	N	N	30	N	15	100	30	150	N
79NK047A	70	20	N	N	500	N	N	N	N	N	20	500	15	<10	N
79NK048A	500	200	N	N	30	N	N	N	N	N	30	100	30	50	N
79NK051A	<10	5	N	N	1,000	<1.0	N	N	N	N	N	500	N	30	N
79NK051B	1,500	300	N	N	700	<1.0	N	N	N	N	50	150	15	20	N
79NK051C	20	10	N	<10	150	<1.0	N	N	N	N	15	1,000	30	10	N
79NK051D	>5,000	3,000	N	100	N	N	N	N	N	N	10	<100	N	N	N
79NK051E	<10	15	N	10	200	N	N	N	N	N	15	700	10	10	N
79NK052A	100	30	N	N	500	<1.0	N	N	N	N	30	300	20	10	N
79NK052B	150	200	N	N	150	N	N	N	N	N	50	200	20	20	N
79NK053A	500	150	N	20	100	<1.0	N	N	N	N	30	100	20	<10	N
79NK054A	1,000	300	N	15	150	<1.0	N	N	N	N	50	500	20	20	N
79NK055B	1,500	150	N	20	300	N	N	N	N	N	50	300	10	<10	N
79NK055D	20	10	N	70	500	<1.0	N	N	N	N	15	700	10	50	N
79NK056A	50	30	N	N	700	<1.0	N	N	N	N	10	<100	15	100	N
79NK056B	<10	10	N	N	<20	N	N	N	N	N	N	N	N	N	N
79NK056C	100	30	N	10	200	<1.0	N	N	N	N	20	500	20	70	N
79NK057A	300	150	N	<10	100	<1.0	N	N	N	N	30	200	30	70	N
79NK058A	1,000	300	N	<10	300	N	N	N	N	N	50	100	20	20	N
79NK060A	1,500	500	N	10	50	N	N	N	N	N	70	200	20	<10	N
79NK061A	100	150	N	<10	50	<1.0	N	N	N	N	50	200	30	70	N
79NK062A	150	100	N	10	200	<1.0	N	N	N	N	70	500	30	100	N
79NK063A	1,500	500	N	<10	20	N	N	N	N	N	30	200	N	N	N
79NK065A	<10	5	N	N	200	N	N	N	N	N	10	150	N	<10	N
79NK065B	20	15	N	50	300	<1.0	N	N	N	N	7	500	20	30	N
79NK066A	<10	5	N	N	1,000	1.0	N	N	N	N	N	<100	10	70	N
79NK067A	150	70	N	<10	300	<1.0	N	N	N	N	30	200	10	20	N
79NK071A	200	150	N	10	300	<1.0	N	N	N	N	30	150	20	70	N
79NK072A	150	150	N	<10	<20	<1.0	N	N	N	N	20	<100	15	50	N
79NK073A	150	70	N	70	500	1.0	N	N	N	<20	20	200	10	150	N
79NK074A	100	70	N	20	700	1.0	N	N	N	N	15	300	50	100	N
79NK074C	30	30	N	100	300	1.5	N	N	N	N	5	300	10	30	N
79NK075A	500	150	N	<10	50	<1.0	N	N	N	N	50	200	20	70	N
79NK075B	300	200	N	<10	N	<1.0	N	N	N	N	50	500	20	70	N
79NK076A	300	150	N	<10	50	<1.0	N	N	N	N	50	200	20	70	N
79NK076B	500	200	N	10	<20	<1.0	N	N	N	N	50	300	30	100	N
79NK077A	100	150	N	<10	70	<1.0	N	N	N	N	70	150	30	100	N
79NK078A	100	100	N	10	70	<1.0	N	N	N	N	50	300	20	100	N
79NK079A	20	10	N	N	50	N	N	N	N	N	5	1,000	20	10	N

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
79NK080A	63 12 46	146 48 40	Metabasalt	2	15.00	7.00	7.00	>1.000	2,000
79NK080B	63 12 46	146 48 40	Metabasalt	2	15.00	5.00	5.00	>1.000	2,000
79NK082A	63 13 1	146 51 36	Schistose diorite	4	3.00	70	.15	.300	700
79NK084B	63 12 56	146 41 36	Diabase	2	15.00	5.00	7.00	.500	700
79NK085A	63 13 19	146 41 36	Diorite	2	5.00	2.00	3.00	.300	700
79NK086A	63 13 57	146 56 37	Mica schist	3	15.00	3.00	3.00	1.000	1,000
79NK086B	63 13 57	146 56 37	Amphibolite	3	10.00	2.00	.50	1.000	1,000
79NK086C	63 13 57	146 56 37	White mica-garnet schist	3	10.00	1.50	1.00	.700	5,000
79NK087A	63 14 10	146 57 41	Metaquartz diorite	3	5.00	1.50	3.00	.500	500
79NK088A	63 18 7	146 51 15	Garnet amphibolite	3	5.00	2.00	2.00	.500	500
79NK089A	63 18 22	146 51 10	Schistose granodiorite	3	10.00	3.00	3.00	1.000	700
79NK090A	63 12 53	146 8 42	Gabbro	1	15.00	5.00	5.00	>1.000	1,000
79NK090E	63 12 53	146 8 42	Metabasalt	1	15.00	3.00	3.00	>1.000	1,000
79NK090H	63 12 53	146 8 42	Gabbro	1	15.00	5.00	5.00	>1.000	1,500
79NK092A	63 9 16	144 51 42	Andesite porphyry	1	10.00	5.00	3.00	.500	2,000
79NK093B	63 8 36	144 42 41	Tertiary conglomerate	1	20.00	3.00	1.50	1.000	700
79NK094A	63 8 21	144 43 21	Andesite porphyry	1	15.00	3.00	7.00	1.000	1,500
79NK094B	63 8 21	144 43 21	Fe-stained sedimentary rock	1	10.00	2.00	5.00	>1.000	1,000
79NK095A	63 25 42	146 27 48	Schistose quartz monzonite	3	1.50	.30	1.50	.200	300
79NK096A	63 24 12	146 18 28	Schistose quartz monzonite	3	3.00	.70	1.50	.500	300
79NK096B	63 24 12	146 18 28	Schistose quartz monzonite	3	.70	.20	1.00	.100	200
79NK096D	63 24 12	146 18 28	Biotite-white mica schist	3	10.00	2.00	1.50	.700	1,500
79NK097A	63 26 42	146 24 36	Schistose quartz monzonite	3	2.00	.50	1.50	.300	700
79NK098A	63 27 33	146 16 36	Schistose quartz monzonite	3	2.00	.50	1.00	.300	300
79NK099B	63 26 6	146 14 12	Schistose quartz monzonite	3	3.00	.70	1.50	.500	500
79NK099C	63 26 6	146 14 12	Schistose quartz monzonite	3	.30	.10	.30	.030	100
79NK100A	63 22 42	145 48 40	Quartz monzonite	3	2.00	70	1.50	.200	500
79NK100B	63 22 42	145 48 40	Gabbro	3	15.00	10.00	3.00	.500	1,000
79NK102A	63 23 30	145 48 36	Schistose granodiorite	3	7.00	2.00	2.00	.700	700
79NK103A	63 22 0	145 48 6	Hornblende-biotite-quartz schist	3	5.00	1.50	.50	.500	500
79NK103B	63 22 0	145 48 6	Quartz monzonite	3	2.00	.30	.70	.200	300
79NK116A	63 16 45	146 50 10	White mica phyllite	3	10.00	3.00	1.50	.700	700
79NK116B	63 16 45	146 50 10	White mica phyllite	3	10.00	3.00	3.00	1.000	1,000
79NK119A	63 19 36	146 45 26	White mica phyllite	3	3.00	.50	.07	.500	150
79NK123A	63 20 58	146 40 45	Quartz monzonite	3	3.00	.50	1.00	.200	300
79NK125A	63 13 21	145 26 19	Andesite	1	2.00	.50	1.00	.200	300
79NK125B	63 13 21	145 26 19	Altered andesite	1	3.00	.70	2.00	.500	500
79NK126A	63 13 32	145 26 12	Tufa	1	1.50	3.00	.70	.015	100
79NK128A	63 13 41	145 26 2	Rhyodacite	1	1.00	.20	2.00	.200	700
79NK129A	63 29 58	146 56 6	Schistose granodiorite	3	3.00	1.00	1.50	500	1,000
79NK130A	63 29 40	146 49 30	Quartz monzonite	3	1.50	.30	1.00	.150	500
79NK136A	63 28 14	146 56 36	Rhyodacite	3	2.00	1.50	1.00	.300	500
79NK136B	63 28 14	146 56 36	Metaquartz diorite	3	5.00	1.50	.70	.700	1,500
79NK155C	63 20 36	146 39 12	Schistose quartz monzonite	3	2.00	1.00	1.50	500	500
79NK155D	63 20 36	146 39 12	Quartz veins	3	5.00	1.00	7.00	.300	2,000

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
79NK080A	30	70	20	<10	70	<200	N	N	N	N	N	N	100.0	700
79NK080B	80	150	25	N	100	<200	N	N	N	N	N	N	50.0	700
79NK082A	15	15	10	30	20	N	N	N	70	N	N	N	7.0	100
79NK084B	170	300	15	<10	10	N	N	N	N	N	N	N	70.0	700
79NK085A	15	20	10	10	20	N	N	N	N	N	N	N	10.0	200
79NK086A	110	200	35	10	100	<200	N	N	N	N	N	N	20.0	500
79NK086B	70	70	25	15	200	200	N	N	N	N	N	N	10.0	300
79NK086C	100	300	35	30	1,000	700	N	N	N	N	N	N	5.0	300
79NK087A	10	<5	15	10	100	N	N	N	N	N	N	N	7.0	150
79NK088A	10	5	15	10	55	N	N	N	N	N	N	N	10.0	200
79NK089A	20	10	15	10	80	<200	N	N	N	N	N	N	10.0	300
79NK090A	160	300	25	<10	75	<200	N	N	N	N	N	N	70.0	1,000
79NK090E	45	70	15	<10	85	<200	.5	N	N	N	20	N	50.0	700
79NK090H	240	200	10	N	30	<200	<.5	N	N	N	N	N	50.0	500
79NK092A	<5	N	20	10	120	<200	N	N	N	N	N	N	20.0	300
79NK093B	190	300	45	20	70	<200	N	N	N	N	N	N	15.0	300
79NK094A	220	300	20	N	70	<200	N	N	N	N	N	N	50.0	500
79NK094B	20	15	25	20	220	200	N	N	N	N	N	N	50.0	500
79NK095A	10	7	<5	20	55	N	N	N	N	N	N	N	5.0	70
79NK096A	<5	<5	10	20	60	N	N	N	N	N	N	N	5.0	70
79NK096B	<5	N	5	50	30	N	N	N	N	N	N	N	N	10
79NK096D	90	100	20	20	110	<200	<.5	N	10	N	N	N	10.0	300
79NK097A	<5	7	10	15	55	N	N	N	N	N	N	N	<5.0	50
79NK098A	<5	<5	5	10	30	N	N	N	N	N	N	N	<5.0	50
79NK099B	5	<5	10	15	50	N	.5	N	N	N	N	N	7.0	100
79NK099C	<5	N	5	20	5	N	N	N	N	N	N	N	N	<10
79NK100A	75	70	10	30	80	N	N	N	N	N	N	N	30.0	70
79NK100B	30	20	15	10	25	<200	N	N	N	N	N	N	70.0	200
79NK102A	10	5	15	15	85	<200	N	N	N	N	N	N	7.0	150
79NK103A	15	5	20	10	75	<200	N	N	N	N	N	N	10.0	200
79NK103B	<5	N	10	30	55	N	N	N	N	N	N	N	<5.0	50
79NK116A	<5	<5	15	10	50	<200	N	N	N	N	N	N	10.0	200
79NK116B	130	200	30	10	80	<200	N	N	N	N	N	N	20.0	300
79NK119A	55	50	10	<10	65	<200	<.5	N	7	N	N	N	5.0	300
79NK123A	5	<5	15	30	45	N	<.5	N	N	N	N	N	5.0	30
79NK125A	20	15	<5	30	60	N	<.5	N	N	N	N	N	10.0	70
79NK125B	30	20	<5	20	70	N	N	N	N	N	N	N	30.0	150
79NK126A	10	7	15	30	20	N	N	N	N	N	N	N	5.0	30
79NK128A	10	7	10	20	25	N	N	N	N	N	N	N	5.0	30
79NK129A	10	10	<5	30	95	<200	N	N	5	N	N	N	15.0	100
79NK130A	<5	<5	<5	30	30	N	N	N	N	N	N	N	5.0	50
79NK136A	10	7	5	15	80	N	N	N	N	N	N	N	10.0	70
79NK136B	60	70	5	15	85	<200	<.5	N	N	N	N	N	20.0	200
79NK155C	10	5	10	30	60	N	N	N	N	N	N	N	10.0	100
79NK155D	85	50	5	<10	110	300	.5	N	N	N	N	N	20.0	150

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	S-Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
79NK080A	300	150	N	10	100	<1.0	N	N	N	N	70	300	30	100	N
79NK080B	100	150	N	<10	<20	<1.0	N	N	N	N	50	100	20	70	N
79NK082A	15	15	N	N	300	1.5	N	N	100	<20	5	150	30	150	N
79NK084B	500	200	N	<10	100	N	N	N	N	N	50	200	20	20	N
79NK085A	10	5	N	N	500	<1.0	N	N	N	N	10	1,000	15	50	N
79NK086A	150	100	N	50	500	<1.0	N	N	<20	N	20	300	20	70	N
79NK086B	100	50	N	200	300	1.0	N	N	N	N	20	150	20	70	N
79NK086C	15	5	N	N	300	1.5	N	N	20	<20	7	200	20	100	N
79NK087A	10	5	N	N	500	1.0	N	N	20	N	7	1,500	10	150	N
79NK088A	30	30	N	N	300	1.0	N	N	N	N	15	1,000	15	70	N
79NK089A	50	20	N	N	300	1.0	N	N	20	N	15	1,000	20	70	N
79NK090A	150	150	N	<10	150	<1.0	N	N	N	N	30	200	20	50	N
79NK090E	20	20	N	10	700	1.0	N	N	20	<20	20	700	30	200	N
79NK090H	100	150	N	30	300	<1.0	N	N	N	N	50	300	30	50	N
79NK092A	50	15	N	<10	30	<1.0	N	N	N	N	30	300	10	15	N
79NK093B	200	70	N	15	500	<1.0	N	N	N	N	20	150	10	50	N
79NK094A	30	100	N	10	200	<1.0	N	N	N	N	30	200	20	30	N
79NK094B	20	10	N	10	500	1.0	N	N	20	N	30	300	30	150	N
79NK095A	<10	<5	N	30	1,000	1.5	N	N	50	N	5	500	20	150	N
79NK096A	10	5	N	N	300	1.5	N	N	N	N	5	500	<10	100	N
79NK096B	<10	5	N	N	1,000	1.0	N	N	N	N	N	300	20	70	N
79NK096D	150	50	N	N	500	1.0	N	N	50	N	15	300	50	150	N
79NK097A	<10	5	N	N	300	1.0	N	N	N	N	5	700	15	150	N
79NK098A	<10	5	N	N	1,000	<1.0	N	N	N	N	5	500	<10	150	N
79NK099B	<10	5	N	N	300	1.0	N	N	N	N	5	500	10	50	N
79NK099C	<10	5	N	N	500	N	N	N	N	N	N	150	<10	20	N
79NK100A	20	150	N	30	1,000	1.5	N	N	50	<20	5	700	15	300	N
79NK100B	1,500	500	N	<10	500	N	N	N	N	N	15	1,000	10	20	N
79NK102A	20	7	N	N	1,000	<1.0	N	N	20	N	10	1,500	<10	50	N
79NK103A	70	50	N	N	500	1.0	N	N	N	N	10	100	10	70	N
79NK103B	<10	5	N	N	700	1.0	N	N	N	N	<5	200	<10	50	N
79NK116A	100	50	N	20	300	<1.0	N	N	N	N	15	300	15	50	N
79NK116B	100	70	N	20	200	<1.0	N	N	N	N	20	500	30	100	N
79NK119A	30	7	N	30	1,000	1.0	N	N	N	N	15	<100	<10	70	N
79NK123A	10	5	N	N	500	1.0	N	N	N	N	5	500	10	150	N
79NK125A	50	10	N	70	1,000	2.0	N	N	30	N	10	200	20	200	N
79NK125B	50	15	N	70	1,000	1.5	N	N	30	N	20	300	20	100	N
79NK126A	<10	5	N	200	1,000	2.0	N	N	50	N	7	500	30	100	N
79NK128A	10	7	N	150	1,500	1.0	N	N	30	N	7	300	15	70	N
79NK129A	10	5	N	15	2,000	2.0	<10	N	50	30	10	1,000	30	300	N
79NK130A	<10	5	N	20	1,000	2.0	N	N	50	<20	5	300	50	100	N
79NK136A	10	20	N	30	1,500	2.0	N	N	30	N	10	700	15	100	N
79NK136B	200	100	N	20	1,000	1.5	<10	N	30	<20	20	200	70	200	N
79NK155C	70	30	N	100	1,000	2.0	N	N	20	N	7	700	10	50	N
79NK155D	150	50	N	50	1,000	1.0	<10	N	20	N	20	300	50	100	N

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
79NK156B	63 19 21	146 35 19	Garnet amphibolite	3	.70	.70	.30	.020	150
79NK157A	63 19 12	146 39 23	Argillite	3	5.00	2.00	5.00	.500	1,000
79NK157B	63 19 12	146 39 23	Quartz monzonite	3	3.00	1.00	1.50	.500	700
79NK179A	63 18 18	146 35 48	Diorite porphyry	6	2.00	.50	1.50	.200	2,000
79NK179B	63 18 18	146 35 48	Stained quartz monzonite	6	2.00	.20	3.00	.200	300
79NK182A	63 17 10	146 42 37	Metabasalt	1	5.00	5.00	5.00	.300	1,500
79NK185A	63 14 59	146 50 24	Aplite dike	3	1 50	.10	.50	.070	500
79NK200A	63 8 47	144 44 44	Metaandesite	1	5.00	5.00	.10	.300	1,000
79NK222A	63 10 43	144 49 35	Gabbro	1	10.00	7.00	5.00	.500	2,000
79NK225C	63 20 6	146 0 13	Massive sulfide	1	20.00	1.00	10.00	.050	3,000
79NK225D	63 20 6	146 0 13	Marble skarn	1	10.00	2.00	15.00	.150	3,000
79NK225E	63 20 6	146 0 13	Marble skarn	1	15.00	3.00	>20.00	.500	>5,000
79NK236A	63 26 31	146 3 53	Schistose quartz monzonite	3	5.00	1.00	5.00	.500	1,000
79NK237A	63 26 23	146 6 24	Schistose quartz monzonite	3	1.50	.50	3.00	.100	700
79NK238A	63 26 48	146 8 57	Schistose quartz monzonite	3	2.00	1.00	5.00	.300	700
79NK242A	63 19 1	146 25 27	Metagabbro	1	5.00	2.00	5.00	.500	1,000
79NK242B	63 19 1	146 25 27	Metagabbro	1	10.00	>10.00	7.00	.300	1,500
79NK244B	63 18 47	146 28 10	Quartz vein	1	10.00	2.00	15.00	.200	1,500
79NK246B	63 21 36	146 31 18	Aplite dike	3	1.50	.20	1.50	.020	700
79NW066A	63 13 48	146 40 30	Stained metabasalt	2	10.00	5.00	5.00	.700	1,000
79NW067A	63 13 36	146 41 12	Metabasalt	2	5.00	7.00	5.00	>1.000	1,500
79NW069A	63 13 0	146 41 48	Plagioclase crystal tuff	2	7.00	5.00	10.00	1.000	2,000
79NW069C	63 13 0	146 41 48	Metatuff	2	10.00	2.00	15.00	>1.000	5,000
79NW069D	63 13 0	146 41 48	Garnet skarn	2	3.00	2.00	>20.00	.200	700
79NW076A	63 12 50	144 52 35	Greenstone	1	10.00	10.00	5.00	.500	2,000
79NW077A	63 12 30	144 52 40	Black argillite	1	7.00	5.00	2.00	.300	1,500
79NW077B	63 12 30	144 52 40	Black argillite	1	2.00	1.00	.70	.300	500
79NW080A	63 11 42	144 54 48	Quartz monzonite	1	10.00	2.00	7.00	.700	2,000
79NW080F	63 11 42	144 54 48	Pegmatite	1	.50	.03	.50	.015	700
79NW082A	63 11 0	144 56 36	Dacite	1	5.00	1.00	1.00	.300	2,000
79NW085A	63 12 48	145 2 20	Amphibolite	5	7.00	7.00	10.00	.500	2,000
79NW087A	63 11 52	145 1 50	Dacite breccia	1	2.00	.50	.15	.500	500
79NW089A	63 7 6	145 59 48	Limey argillite	2	5.00	3.00	.20	.200	500
79NW095A	63 12 41	145 4 3	Ultramafic rock	5	10.00	10.00	15.00	.500	1,500
79NW096A	63 12 30	145 4 16	Rhyodacite porphyry	5	10.00	5.00	15.00	.500	2,000
79NW101A	63 15 30	145 23 0	Granodiorite	1	5.00	1.00	10.00	.200	1,000
79NW102A	63 15 10	145 23 20	Altered granodiorite	1	5.00	1.50	7.00	.300	1,500
79NW111A	63 15 0	145 8 0	Hornblende phyllite	1	7.00	5.00	5.00	.700	1,000
79NW115B	63 6 54	146 6 24	Gabbro	2	10.00	5.00	5.00	.500	1,500
79NW129A	63 12 42	146 8 46	Diabase	2	10.00	7.00	7.00	.300	1,500
79NW129B	63 12 42	146 8 46	Limey argillite	2	1.50	1.00	15.00	.100	700
79NW130B	63 12 52	146 8 36	Dark argillite	2	1.50	1.00	2.00	.300	200
79NW130C	63 12 52	146 8 36	Tuffaceous argillite	2	10.00	5.00	5.00	1.000	1,500
79NW133A	63 13 37	146 17 12	Metabasalt	2	15 00	7.00	7.00	>1.000	2,000
79RM003A	63 20 17	146 5 35	Muscovite-quartz schist	1	15 00	5.00	7.00	.500	700

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
79NK156B	5	5	15	30	45	N	<.5	N	N	N	N	N	<5.0	<10
79NK157A	240	500	15	<10	80	N	.7	500	N	<50	N	N	50.0	300
79NK157B	80	70	10	10	120	N	.5	N	7	50	N	N	20.0	150
79NK179A	65	50	5	10	25	N	5.0	N	50	N	N	N	10.0	100
79NK179B	25	20	<5	10	20	N	<.5	N	N	N	N	N	7.0	100
79NK182A	160	200	5	<10	25	N	N	N	N	N	N	N	100.0	500
79NK185A	15	10	15	10	20	N	<.5	N	N	N	N	N	<5.0	<10
79NK200A	25	30	10	<10	60	N	<.5	N	5	N	N	N	10.0	150
79NK222A	40	70	5	10	20	N	<.5	N	N	N	N	N	50.0	1,000
79NK225C	56,000	>20,000	<5	100	720	1,500	300.0	N	N	N	N	N	200.0	15
79NK225D	85	70	10	<10	10	N	N	N	N	N	N	N	30.0	70
79NK225E	30	20	10	<10	40	N	N	N	N	N	N	N	30.0	200
79NK236A	5	10	10	30	35	N	.5	N	N	N	N	N	10.0	200
79NK237A	<5	<5	5	50	25	N	<.5	N	N	N	N	N	<5.0	70
79NK238A	<5	<5	10	20	45	N	<.5	N	N	N	N	N	10.0	150
79NK242A	<5	7	<5	10	35	N	<.5	N	N	N	N	N	15.0	100
79NK242B	95	100	10	<10	25	N	N	N	N	N	N	N	100.0	200
79NK244B	490	700	5	10	45	N	N	N	N	N	N	N	15.0	500
79NK246B	10	10	<5	100	15	N	.5	N	N	N	N	N	<5.0	<10
79NW066A	190	300	5	10	10	N	.7	N	N	N	N	N	100.0	500
79NW067A	140	150	10	<10	5	N	<.5	N	N	N	N	N	70.0	500
79NW069A	2,000	3,000	10	10	85	N	3.0	N	N	N	N	N	150.0	500
79NW069C	130	150	15	10	25	N	<.5	N	30	N	N	N	70.0	700
79NW069D	1,100	1,000	15	<10	75	N	1.0	N	70	N	N	N	15.0	1,000
79NW076A	80	100	10	<10	30	N	N	N	N	N	N	N	70.0	300
79NW077A	100	100	5	<10	65	N	.7	N	N	N	N	N	20.0	300
79NW077B	30	30	15	15	20	N	1.0	N	10	N	N	N	5.0	300
79NW080A	100	150	10	20	55	N	N	N	N	N	N	N	70.0	500
79NW080F	2,200	2,000	5	30	5	N	N	N	N	N	N	N	<5.0	10
79NW082A	35	50	60	150	70	N	5.0	N	5	N	N	N	7.0	150
79NW085A	170	300	10	10	15	N	<.5	N	N	N	N	N	50.0	500
79NW087A	5	10	25	50	20	N	.7	N	N	N	N	N	<5.0	100
79NW089A	50	100	30	50	110	200	10.0	N	10	N	N	N	20.0	300
79NW095A	15	15	15	<10	15	N	<.5	N	N	N	N	N	100.0	500
79NW096A	65	70	35	30	65	N	.7	N	N	N	N	N	100.0	500
79NW101A	580	500	130	150	65	N	5.0	N	7	N	N	N	20.0	300
79NW102A	20	20	10	10	50	N	N	N	N	N	N	N	20.0	200
79NW111A	80	70	10	15	65	N	<.5	N	N	N	N	N	70.0	500
79NW115B	180	150	10	10	90	<200	.5	N	N	N	N	N	50.0	500
79NW129A	150	150	<5	<10	25	N	<.5	N	N	N	N	N	70.0	500
79NW129B	20	20	20	<10	810	1,000	1.5	N	N	N	N	N	7.0	1,000
79NW130B	45	50	5	10	60	N	5.0	N	7	N	N	N	7.0	200
79NW130C	260	300	<5	<10	25	N	1.0	N	N	N	N	N	70.0	500
79NW133A	100	100	5	<10	35	N	N	N	N	N	N	N	70.0	500
79RM003A	40	30	5	<10	15	<200	N	N	N	N	N	N	100.0	300

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	S-Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
79NK156B	<10	5	N	70	1,500	2.0	N	N	20	<20	<5	500	N	50	N
79NK157A	200	100	N	100	1,500	<1.0	<10	N	20	N	30	200	30	70	N
79NK157B	100	30	N	70	1,000	2.0	N	N	20	N	15	700	10	100	N
79NK179A	150	70	N	50	1,000	1.5	N	N	N	N	7	1,000	<10	50	N
79NK179B	<10	5	N	100	1,500	1.0	N	N	20	N	7	1,500	10	100	N
79NK182A	700	150	N	20	150	<1.0	N	N	20	N	50	150	15	10	N
79NK185A	<10	5	N	150	1,000	1.5	N	N	30	N	<5	200	<10	100	N
79NK200A	15	5	N	20	1,000	<1.0	N	N	20	N	20	<100	20	100	N
79NK222A	70	30	N	20	1,000	<1.0	N	N	30	N	50	1,000	20	70	N
79NK225C	<10	15	N	10	150	<1.0	10	N	30	N	5	150	20	50	N
79NK225D	10	20	N	10	<20	<1.0	<10	N	20	N	7	150	20	50	N
79NK225E	30	15	N	10	<20	<1.0	N	N	30	N	20	150	30	30	N
79NK236A	20	7	N	20	1,500	1.0	N	N	50	N	10	700	20	100	N
79NK237A	<10	5	N	30	2,000	1.0	N	N	50	N	5	500	10	50	N
79NK238A	20	5	N	50	3,000	1.0	N	N	50	N	10	700	15	200	N
79NK242A	20	<5	N	30	2,000	1.0	N	N	30	N	10	500	30	500	N
79NK242B	>5,000	3,000	N	30	50	<1.0	N	N	20	N	20	<100	10	20	N
79NK244B	30	50	N	15	100	<1.0	N	N	20	N	15	700	10	50	N
79NK246B	20	15	N	100	>5,000	2.0	N	N	30	N	<5	500	<10	70	N
79NW066A	300	100	N	20	100	<1.0	N	N	20	N	50	150	30	70	N
79NW067A	500	150	N	20	200	<1.0	N	N	30	<20	30	500	50	100	N
79NW069A	700	150	N	20	150	<1.0	N	N	20	N	30	500	30	70	N
79NW069C	700	150	N	20	1,000	<1.0	N	N	<20	<20	30	500	50	70	N
79NW069D	100	100	N	70	70	N	N	N	20	N	20	1,500	30	50	N
79NW076A	200	100	N	30	30	<1.0	N	N	<20	N	50	100	30	30	N
79NW077A	300	15	N	10	70	<1.0	N	N	20	N	30	300	20	70	N
79NW077B	100	7	N	100	2,000	1.0	N	N	20	N	15	150	20	100	N
79NW080A	70	20	N	70	700	1.0	N	N	30	N	30	1,000	30	200	N
79NW080F	<10	<5	N	100	300	3.0	N	N	N	N	<5	150	50	300	N
79NW082A	10	5	N	30	5,000	1.0	N	N	30	N	15	150	20	300	N
79NW085A	500	70	N	20	700	<1.0	N	N	20	N	30	700	50	50	N
79NW087A	<10	<5	N	70	2,000	1.0	N	N	30	N	20	<100	20	150	N
79NW089A	500	70	N	50	>5,000	<1.0	N	N	20	N	30	<100	20	70	N
79NW095A	150	150	N	10	200	<1.0	N	N	<20	N	100	200	10	<10	N
79NW096A	700	100	N	30	1,000	<1.0	N	N	20	N	100	300	10	N	N
79NW101A	20	10	N	100	>5,000	1.0	N	N	20	N	20	200	50	100	N
79NW102A	50	30	N	70	700	1.0	N	N	20	N	20	200	30	30	N
79NW111A	200	150	N	50	1,000	1.0	N	N	30	<20	30	300	50	100	N
79NW115B	100	70	N	20	1,000	<1.0	N	N	20	N	50	150	30	70	N
79NW129A	300	150	N	15	200	<1.0	N	N	20	N	50	300	20	15	N
79NW129B	300	150	N	<10	700	<1.0	N	100	20	N	10	300	50	70	N
79NW130B	150	50	N	70	2,000	1.0	N	N	20	N	15	300	15	100	N
79NW130C	200	70	N	20	1,000	<1.0	N	N	20	<20	50	300	30	100	N
79NW133A	500	150	N	20	300	<1.0	N	N	30	<20	30	200	50	100	N
79RM003A	1,500	300	N	<10	100	<1.0	N	N	N	N	50	200	15	70	N

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
79RM003B	63 20 17	146 5 35	Serpentinized olivine cumulate	1	15.00	>10.00	<.05	.015	700
79RM005A	63 20 17	146 12 0	Quartz-white mica schist	3	5.00	1.50	.50	.500	700
79RM006A	63 20 6	146 11 30	Metadacite porphyry	3	10.00	2.00	2.00	.700	1,000
79RM007A	63 19 45	146 11 0	Plagioclase-white mica phyllite	3	10.00	2.00	1.50	.700	700
79RM007B	63 19 45	146 11 0	Quartzose marble	3	10.00	2.00	2.00	.500	700
79RM008A	63 19 33	146 10 48	Calcareous phyllite	3	3.00	1.00	15.00	.300	5,000
79RM009A	63 18 40	146 17 48	Rhyodacite tuff	1	3.00	.70	.15	.300	500
79RM009C	63 18 40	146 17 48	Metaandesite porphyry	1	15.00	3.00	3.00	.700	1,500
79RM010A	63 18 48	146 18 0	Metagranodiorite	6	3.00	.70	2.00	.200	700
79RM010B	63 18 48	146 18 0	Dacite porphyry	1	2.00	.70	.10	.500	200
79RM010C	63 18 48	146 18 0	Olivine cumulate	1	15.00	10.00	.05	.030	1,000
79RM011A	63 18 30	146 17 24	Metaquartz diorite	1	15.00	5.00	3.00	1.000	1,500
79RM011B	63 18 30	146 17 24	Metagabbro	1	15.00	7.00	5.00	.700	2,000
79RM012A	63 18 16	146 16 58	Ultramafic conglomerate	1	15.00	10.00	.50	.500	1,000
79RM013A	63 19 20	146 18 20	Carbonate-plagioclase phyllite	3	3.00	5.00	1.00	.020	700
79RM013B	63 19 20	146 18 20	Metagranodiorite	3	3.00	1.00	1.00	.500	700
79RM013C	63 19 20	146 18 20	Serpentinized olivine cumulate	1	15.00	5.00	3.00	1.000	1,000
79RM017A	63 18 36	146 18 48	Metaandesite-dacite porphyry	1	5.00	2.00	1.50	.700	1,500
79RM017B	63 18 36	146 18 48	Dacite porphyry	1	3.00	1.50	1.00	.500	700
79RM018A	63 18 15	146 19 10	Granite	1	1.00	.15	.30	.300	50
79RM019A	63 8 2	144 45 23	Dacite porphyry	1	3.00	1.50	1.00	.300	500
79RM020A	63 7 56	144 45 0	Diabase	1	15.00	5.00	5.00	>1.000	1,500
79RM021A	63 7 47	144 44 46	Dacite porphyry	1	5.00	1.50	.70	.500	700
79RM022A	63 7 40	144 44 15	Dacite porphyry	1	5.00	2.00	<.05	.500	300
79RM023A	63 7 35	144 44 6	Dacite porphyry	1	10.00	3.00	.30	.300	1,500
79RM024A	63 7 26	144 43 54	Dacite porphyry	1	2.00	.20	<.05	.200	100
79RM025A	63 7 17	144 43 38	Andesite breccia	1	5.00	2.00	.70	.500	1,000
79RM026A	63 7 14	144 42 58	Diabase	1	5.00	5.00	7.00	.300	1,500
79RM027B	63 7 18	144 42 36	Metatuff	1	2.00	1.50	.70	.150	200
79RM028C	63 14 45	146 29 9	Greenstone	2	10.00	5.00	5.00	1.000	1,000
79RM034A	63 7 23	144 54 10	Dacite porphyry skarn	1	10.00	2.00	7.00	.200	2,000
79RM034B	63 7 23	144 54 10	Magnetite skarn	1	20.00	3.00	10.00	.070	20,000
79RM037B	63 9 13	144 51 35	Andesite breccia skarn	1	7.00	3.00	7.00	.500	2,000
79RM038B	63 8 45	144 48 0	Massive sulfide	1	15.00	.30	.05	.100	700
79ZN001A	63 8 52	145 54 50	Metaandesite dike	2	10.00	2.00	5.00	.500	1,000
79ZN003A	63 12 30	145 54 5	Olivine-clinopyroxene cumulate	2	15.00	10.00	7.00	.300	1,500
79ZN003B	63 12 30	145 54 5	Olivine-clinopyroxene cumulate	2	15.00	5.00	5.00	.700	1,500
79ZN006A	63 12 32	145 53 58	Olivine-clinopyroxene cumulate	2	10.00	10.00	2.00	.300	1,500
79ZN009A	63 13 4	145 55 41	Olivine cumulate	2	15.00	>10.00	.07	.050	1,000
79ZN010A	63 13 9	145 56 3	Metadiabase	2	15.00	5.00	5.00	1.000	1,500
79ZN012A	63 12 58	145 56 22	Olivine cumulate	2	15.00	>10.00	.30	.050	1,500
79ZN013A	63 19 38	146 2 53	Metaandesite-dacite porphyry	1	3.00	1.50	.70	.500	1,000
79ZN013B	63 19 38	146 2 53	Metaandesite-dacite porphyry	1	10.00	.70	.50	.700	1,500
79ZN014A	63 19 38	146 2 24	Metaandesite-dacite porphyry	1	10 00	3.00	3.00	1.000	1,500
79ZN016A	63 19 28	146 1 58	Diabase	1	15.00	5.00	7.00	>1.000	2,000

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co	S-V
79RM003B	10	<5	40	<10	35	N	N	N	N	N	N	N	200.0	20
79RM005A	45	20	20	10	70	<200	N	N	N	N	N	N	10.0	150
79RM006A	40	30	15	<10	75	N	N	N	N	N	N	N	10.0	300
79RM007A	60	50	15	<10	70	<200	N	N	N	N	N	N	15.0	200
79RM007B	130	100	20	<10	75	<200	<.5	N	N	N	N	N	10.0	500
79RM008A	55	50	(35)	<10	50	N	N	N	N	N	N	N	10.0	150
79RM009A	5	<5	5	N	20	<200	N	N	N	N	N	N	5.0	20
79RM009C	45	70	10	15	70	<200	N	N	N	N	N	N	20.0	500
79RM010A	5	<5	5	<10	40	N	N	N	N	N	N	N	5.0	50
79RM010B	10	7	25	20	15	N	.5	N	N	N	N	N	<5.0	70
79RM010C	70	100	45	N	40	<200	N	N	N	N	N	N	150.0	50
79RM011A	55	100	20	10	65	<200	N	N	N	N	N	N	70.0	500
79RM011B	100	150	15	10	40	<200	N	N	N	N	N	N	100.0	700
79RM012A	90	150	35	N	45	<200	N	N	N	N	N	N	150.0	100
79RM013A	10	7	(35)	<10	20	<200	N	N	N	N	N	N	70.0	15
79RM013B	<5	<5	10	<10	35	N	N	N	N	N	N	N	5.0	30
79RM013C	90	150	25	<10	55	<200	N	N	N	N	N	N	50.0	500
79RM017A	20	20	20	15	80	N	N	N	N	N	N	N	10.0	300
79RM017B	<5	10	10	<10	35	N	N	N	N	N	N	N	7.0	70
79RM018A	20	20	5	15	5	N	N	N	N	N	N	N	N	20
79RM019A	35	20	15	<10	60	<200	N	N	N	N	N	N	5.0	70
79RM020A	200	300	15	<10	45	<200	N	N	N	N	N	N	50.0	1,000
79RM021A	5	5	15	<10	65	N	N	N	N	N	N	N	7.0	70
79RM022A	60	50	20	<10	85	N	N	N	N	N	N	N	N	50
79RM023A	25	20	25	10	60	N	N	N	N	N	N	N	10.0	200
79RM024A	<5	<5	5	20	<5	N	5.0	N	N	N	N	<100	<5.0	30
79RM025A	180	150	10	<10	110	<200	<.5	N	N	N	N	N	10.0	200
79RM026A	150	100	10	<10	45	N	N	N	N	N	N	N	70.0	300
79RM027B	<5	7	5	10	25	N	N	N	N	N	N	N	5.0	30
79RM028C	15,000	20,000	20	<10	110	<200	N	N	5	N	N	N	70.0	500
79RM034A	11,400	>20,000	15	20	20	N	50.0	N	7	N	N	N	150.0	100
79RM034B	30	50	25	10	15	N	N	N	N	N	N	N	50.0	70
79RM037B	2,000	3,000	15	10	90	<200	.5	N	N	N	N	N	20.0	100
79RM038B	20,000	20,000	70	100	530	1,000	70.0	1,500	7	N	30	N	15.0	50
79ZN001A	10	7	15	10	15	N	N	N	N	N	N	N	15.0	300
79ZN003A	500	700	20	<10	35	N	.5	N	N	N	N	N	200.0	700
79ZN003B	200	300	15	10	70	<200	N	N	N	N	N	N	70.0	1,000
79ZN006A	1,600	2,000	20	<10	55	N	1.0	N	N	N	N	N	100.0	200
79ZN009A	150	300	35	<10	25	N	N	N	N	N	N	N	200.0	70
79ZN010A	210	300	10	N	15	N	N	N	N	N	N	N	50.0	700
79ZN012A	100	200	35	<10	40	N	N	N	N	N	N	N	200.0	70
79ZN013A	15	15	10	<10	65	N	N	N	N	N	N	N	7.0	100
79ZN013B	90	200	15	10	60	N	<.5	N	N	N	N	N	10.0	100
79ZN014A	140	150	20	10	70	N	N	N	N	N	N	N	20.0	500
79ZN016A	190	300	15	<10	40	N	N	N	N	N	N	N	70.0	1,000

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-Cr	S-Ni	S-Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
79RM003B	3,000	2,000	N	<10	N	N	N	N	N	N	5	<100	N	N	N
79RM005A	30	20	N	30	300	1.0	N	N	N	N	10	200	10	70	N
79RM006A	70	30	N	10	200	<1.0	N	N	N	N	15	700	10	50	N
79RM007A	200	50	N	20	150	1.0	N	N	N	N	20	500	20	100	N
79RM007B	50	20	N	30	500	<1.0	N	N	N	N	15	100	15	70	N
79RM008A	70	30	N	N	100	1.0	N	N	N	N	15	500	10	20	N
79RM009A	<10	5	N	N	700	1.0	N	N	<20	N	5	100	15	200	N
79RM009C	150	50	N	<10	700	1.0	N	N	N	N	30	1,000	20	70	N
79RM010A	<10	10	N	N	30	1.0	N	N	<20	N	5	300	15	100	N
79RM010B	<10	15	N	N	1,000	<1.0	N	N	N	N	10	<100	10	100	N
79RM010C	5,000	2,000	N	<10	N	N	N	N	N	N	5	N	N	N	N
79RM011A	100	70	N	15	700	<1.0	N	N	N	N	30	200	20	50	N
79RM011B	300	200	N	20	300	<1.0	N	N	N	N	70	150	20	20	N
79RM012A	2,000	2,000	N	<10	<20	<1.0	N	N	N	N	15	<100	<10	<10	N
79RM013A	1,500	1,500	N	N	N	N	N	N	N	N	N	<100	N	N	N
79RM013B	10	10	N	N	1,000	1.0	N	N	N	N	5	100	20	100	N
79RM013C	50	500	N	<10	300	<1.0	N	N	N	N	20	700	20	30	N
79RM017A	30	20	N	N	700	1.0	N	N	N	N	10	1,000	10	50	N
79RM017B	<10	10	N	N	1,000	1.0	N	N	20	N	7	150	20	150	N
79RM018A	<10	5	N	N	150	2.0	N	N	N	N	<5	<100	<10	200	N
79RM019A	<10	5	N	N	700	1.0	N	N	<20	N	15	100	30	100	N
79RM020A	200	150	N	<10	100	<1.0	N	N	N	N	30	150	20	70	N
79RM021A	10	5	N	N	300	<1.0	N	N	N	N	15	<100	30	100	N
79RM022A	10	5	N	N	3,000	<1.0	N	N	N	N	15	100	15	100	N
79RM023A	15	5	N	N	500	<1.0	N	N	N	N	15	100	20	100	N
79RM024A	<10	5	N	N	2,000	<1.0	N	N	N	N	5	N	<10	100	N
79RM025A	10	7	N	20	300	<1.0	N	N	20	N	30	150	20	50	N
79RM026A	500	150	N	10	70	<1.0	N	N	20	N	50	100	20	20	N
79RM027B	10	5	N	50	1,000	1.0	N	N	30	N	7	<100	30	200	N
79RM028C	300	150	N	10	<20	<1.0	N	N	20	N	30	<100	30	70	N
79RM034A	20	20	N	30	<20	1.0	N	N	20	N	20	500	15	50	N
79RM034B	15	70	N	15	30	1.0	N	N	30	N	10	150	30	30	N
79RM037B	15	7	N	<10	200	<1.0	N	N	20	N	20	500	20	10	N
79RM038B	10	5	N	<10	200	<1.0	100	N	N	N	10	N	N	10	N
79ZN001A	15	5	N	<10	500	<1.0	N	N	N	N	15	700	20	50	N
79ZN003A	5,000	2,000	N	<10	30	N	N	N	N	N	30	200	<10	N	N
79ZN003B	15	50	N	10	300	<1.0	N	N	N	N	70	300	20	50	N
79ZN006A	2,000	2,000	N	20	<20	<1.0	N	N	N	N	15	<100	<10	20	N
79ZN009A	>5,000	2,000	N	<10	N	<1.0	N	N	N	N	5	N	N	N	N
79ZN010A	70	70	N	<10	30	<1.0	N	N	N	N	30	150	20	50	N
79ZN012A	>5,000	2,000	N	<10	N	N	N	N	N	N	<5	N	N	N	N
79ZN013A	30	50	N	N	300	<1.0	N	N	N	N	10	200	20	100	N
79ZN013B	15	10	N	N	700	<1.0	N	N	N	N	10	100	20	100	N
79ZN014A	20	10	N	<10	700	<1.0	N	N	N	N	30	300	20	20	N
79ZN016A	100	100	N	<10	50	N	N	N	N	N	50	150	20	70	N

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
79ZN016B	63 19 28	146 1 58	Diabase skarn	1	15.00	3.00	10.00	1.000	1,000
79ZN017A	63 19 17	146 1 53	Metabasalt	1	15.00	7.00	5.00	1.000	1,500
79ZN018A	63 19 14	146 1 49	Metabasalt	1	15.00	10.00	1.50	.500	500
79ZN018E	63 19 14	146 1 49	Serpentinized olivine cumulate	1	15.00	10.00	<.05	.030	150
79ZN019A	63 19 10	146 1 47	Serpentinized olivine cumulate	1	20.00	>10.00	.05	.050	300
79ZN019C	63 19 10	146 1 47	Serpentinized olivine cumulate	1	15.00	10.00	<.05	.015	300
79ZN022A	63 13 12	145 56 53	Olivine cumulate	2	15.00	>10.00	.20	.050	1,500
79ZN023C	63 13 27	146 2 7	Garnet-biotite schist in moraine	3	10.00	1.50	.70	.700	1,000
79ZN024B	63 13 48	146 1 57	Serpentinized olivine cumulate	2	15.00	>10.00	.30	.050	1,500
79ZN025B	63 14 6	146 2 0	Serpentinized olivine cumulate	2	15.00	>10.00	.50	.050	1,000
79ZN026A	63 14 3	146 3 15	Serpentinized olivine cumulate	2	20.00	>10.00	.15	.070	1,500
79ZN028A	63 14 36	146 4 12	Serpentinite schist	2	10.00	10.00	3.00	.200	1,000
79ZN029A	63 14 17	146 3 44	Greenstone	2	10.00	7.00	10.00	.300	700
79ZN029B	63 14 17	146 3 44	Serpentinized olivine cumulate	2	20.00	>10.00	.70	.100	1,000
79ZN030A	63 13 47	146 3 37	Serpentinized olivine cumulate	2	15.00	>10.00	1.00	.070	1,000
79ZN031A	63 15 19	146 12 55	Olivine cumulate	2	15.00	>10.00	.30	.050	1,000
79ZN032A	63 15 7	146 13 5	Pyroxene-plagioclase cumulate	2	7.00	10.00	10.00	.200	700
79ZN032B	63 15 7	146 13 5	Serpentinized olivine cumulate	2	20.00	10.00	.20	.100	1,500
79ZN035A	63 4 28	144 45 13	Metadiorite	1	10.00	3.00	1.00	.500	1,500
79ZN035C	63 4 28	144 45 13	Massive sulfide	1	10.00	2.00	.70	.500	1,000
79ZN035D	63 4 28	144 45 13	Andesite porphyry	1	15.00	5.00	5.00	.500	1,500
79ZN036A	63 4 24	144 45 26	Metadiorite	1	5.00	1.50	1.00	.300	500
79ZN041A	63 19 6	146 46 53	White mica phyllite	3	5.00	.70	3.00	.300	1,500
79ZN046A	63 17 24	146 42 10	Metaandesite	1	3.00	7.00	5.00	.200	1,500
79ZN047C	63 17 36	146 42 42	Greenstone	1	7.00	3.00	3.00	1.000	1,500
79ZN053B	63 19 37	146 41 0	Mylonite	3	3.00	1.00	7.00	.200	1,500
79ZN056A	63 16 0	146 41 20	Metagabbro	2	7.00	5.00	5.00	.200	1,000
79ZN056B	63 16 0	146 41 20	Metabasalt	2	7.00	3.00	3.00	.700	1,500
79ZN057B	63 15 49	146 40 25	Metabasalt	2	10.00	5.00	5.00	1.000	1,500
79ZN057C	63 15 49	146 40 25	Fe-stained carbonate vein	2	5.00	5.00	10.00	.700	1,500
79ZN061A	63 13 42	146 56 34	White mica-garnet phyllite	3	5.00	1.00	2.00	1.000	2,000
79ZN061B	63 13 42	146 56 34	Quartz vein	3	.70	.50	.70	.100	300
79ZN062A	63 13 42	146 57 1	White mica-garnet phyllite	3	5.00	2.00	1.00	1.000	500
79ZN062C	63 13 42	146 57 1	Amphibolite	3	7.00	3.00	2.00	>1.000	1,500
79ZN062G	63 13 42	146 57 1	Mica schist	3	5.00	2.00	2.00	.700	1,000
79ZN062H	63 13 42	146 57 1	Quartz vein	3	.30	.15	.50	.020	70
79ZN063A	63 13 31	146 57 23	Biotite-chlorite phyllite	3	5.00	3.00	1.50	.500	1,000
79ZN063C	63 13 31	146 57 23	Argillite	3	7.00	3.00	1.50	.500	1,000
79ZN063E	63 13 31	146 57 23	Quartz vein	3	<.05	<.02	.05	.002	50
79ZN065A	63 12 47	146 57 5	Argillite	3	5.00	3.00	1.00	.500	1,000
79ZN069A	63 16 51	146 18 29	Serpentinized olivine cumulate	2	10.00	>10.00	.10	.050	1,000
79ZN070A	63 16 39	146 16 50	Olivine-pyroxene cumulate	2	10.00	>10.00	.50	.030	1,000
82IL002A	63 18 58	146 28 37	Metarhyolite breccia with m.s.	1	1.00	2.00	5.00	.030	500
82IL005A	63 18 16	146 27 38	Quartz-sericite phyllite	2	.50	.10	.05	.030	15
82IL005B	63 18 16	146 27 38	Calcite vein	2	5.00	3.00	5.00	.200	500

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co
79ZN016B	200	300	10	<10	20	N	N	N	N	N	N	N	30.0
79ZN017A	30	20	5	10	30	<200	N	N	N	N	N	N	100.0
79ZN018A	45	30	10	N	20	N	N	N	N	N	N	N	150.0
79ZN018E	25	15	5	N	5	<200	N	N	N	N	N	N	200.0
79ZN019A	10	<5	30	<10	45	<200	N	N	N	N	N	N	200.0
79ZN019C	5	N	35	N	40	<200	N	N	N	N	N	N	150.0
79ZN022A	25	30	35	N	35	<200	N	N	N	N	N	N	200.0
79ZN023C	30	20	15	15	95	<200	N	N	N	N	N	N	10.0
79ZN024B	10	5	35	<10	35	<200	N	N	N	N	N	N	200.0
79ZN025B	220	300	30	N	30	N	N	N	N	N	N	N	200.0
79ZN026A	70	150	30	N	20	N	N	N	N	N	N	N	300.0
79ZN028A	340	300	15	N	35	N	N	N	N	N	N	N	100.0
79ZN029A	90	70	15	<10	15	N	N	N	N	N	N	N	50.0
79ZN029B	180	300	15	<10	35	N	N	N	N	N	N	N	200.0
79ZN030A	200	300	30	N	45	N	N	N	N	N	N	N	150.0
79ZN031A	60	70	30	N	30	N	N	N	N	N	N	N	200.0
79ZN032A	240	300	15	<10	20	N	N	N	N	N	N	N	70.0
79ZN032B	45	70	30	<10	40	N	N	N	N	N	N	N	300.0
79ZN035A	280	300	30	30	120	N	N	N	N	N	N	N	20.0
79ZN035C	75	100	10	<10	55	N	N	N	N	N	N	N	7.0
79ZN035D	150	150	25	10	55	N	N	N	N	N	N	N	70.0
79ZN036A	50	15	10	<10	45	N	N	N	N	N	N	N	5.0
79ZN041A	110	70	35	30	140	200	7.0	N	50	N	N	N	7.0
79ZN046A	65	50	15	<10	30	N	N	N	N	N	N	N	50.0
79ZN047C	80	70	10	<10	30	<200	N	N	N	N	N	N	50.0
79ZN053B	45	70	20	10	110	200	.7	N	N	N	N	N	10.0
79ZN056A	160	100	15	<10	75	<200	<.5	N	N	N	N	N	30.0
79ZN056B	440	200	15	<10	55	<200	N	N	N	N	N	N	30.0
79ZN057B	1,000	10,000	15	10	200	300	5.0	N	5	N	N	N	70.0
79ZN057C	35	70	30	10	60	N	N	N	N	N	N	N	20.0
79ZN061A	95	100	15	15	80	N	N	N	N	N	N	N	20.0
79ZN061B	15	20	5	N	10	N	N	N	N	N	N	N	5.0
79ZN062A	120	100	20	20	100	<200	<.5	N	N	N	N	N	30.0
79ZN062C	95	100	15	10	70	<200	<.5	N	N	N	N	N	30.0
79ZN062G	40	50	15	20	50	N	N	N	<5	N	N	N	20.0
79ZN062H	<5	15	<5	N	5	N	N	N	N	N	N	N	<5.0
79ZN063A	90	70	10	15	55	<200	15.0	N	N	N	N	N	10.0
79ZN063C	85	70	25	15	100	<200	<.5	N	N	N	N	N	30.0
79ZN063E	<5	N	<5	N	5	N	N	N	N	N	N	N	N
79ZN065A	85	70	25	15	110	<200	N	N	N	N	N	N	20.0
79ZN069A	140	100	20	<10	60	N	<.5	N	N	N	N	N	150.0
79ZN070A	270	150	20	<10	35	N	N	N	N	N	N	N	200.0
82IL002A	15	10	35	200	440	500	N	700	N	N	N	N	10.0
82IL005A	10	5	10	<10	10	N	.5	500	5	N	N	100	N
82IL005B	50	30	30	10	85	N	N	N	N	N	N	N	30.0

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-V	S-Cr	S-Ni	S-Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
79ZN016B	1,000	150	70	N	<10	N	N	N	N	N	N	50	700	20	50	N
79ZN017A	700	1,500	700	N	<10	150	N	N	N	N	N	30	200	20	70	N
79ZN018A	150	3,000	1,500	N	<10	N	<1.0	N	N	N	N	15	<100	<10	10	N
79ZN018E	50	5,000	1,500	N	<10	N	<1.0	N	N	N	N	<5	N	N	N	N
79ZN019A	50	5,000	2,000	N	30	N	<1.0	N	N	N	N	5	N	N	N	N
79ZN019C	30	5,000	1,500	N	20	N	<1.0	N	N	N	N	<5	N	N	N	N
79ZN022A	70	5,000	1,500	N	10	N	1.0	N	N	N	N	7	N	N	N	N
79ZN023C	200	100	30	N	N	500	N	N	N	N	N	15	300	20	100	N
79ZN024B	150	>5,000	2,000	N	<10	N	N	N	N	N	N	10	<100	N	N	N
79ZN025B	50	2,000	2,000	N	<10	N	<1.0	N	N	N	N	5	<100	N	N	N
79ZN026A	150	>5,000	2,000	N	<10	N	N	N	N	N	N	5	<100	N	N	N
79ZN028A	150	1,500	500	N	15	N	N	N	N	N	N	30	<100	<10	N	N
79ZN029A	200	200	150	N	20	100	<1.0	N	N	N	N	50	700	N	N	N
79ZN029B	150	3,000	2,000	N	10	N	N	N	N	N	N	10	N	N	N	N
79ZN030A	100	5,000	2,000	N	<10	N	N	N	N	N	N	15	N	N	N	N
79ZN031A	70	>5,000	3,000	N	<10	N	N	N	N	N	N	7	N	N	N	N
79ZN032A	300	3,000	500	N	20	100	N	N	N	N	N	30	200	N	N	N
79ZN032B	100	2,000	1,500	N	10	N	N	N	N	N	N	7	<100	N	N	N
79ZN035A	500	20	7	N	<10	500	<1.0	N	N	N	N	20	150	10	30	N
79ZN035C	300	20	5	N	10	300	<1.0	N	N	N	N	20	100	<10	30	N
79ZN035D	700	150	100	N	<10	500	<1.0	N	N	N	N	70	700	10	<10	N
79ZN036A	200	10	5	N	<10	1,500	<1.0	N	N	N	N	15	300	<10	30	N
79ZN041A	500	50	20	N	70	2,000	1.5	N	N	20	N	15	150	50	70	N
79ZN046A	300	700	200	N	15	30	<1.0	N	N	N	N	50	100	15	10	N
79ZN047C	500	100	70	N	10	70	<1.0	N	N	N	N	50	150	30	50	N
79ZN053B	150	30	15	N	30	1,000	<1.0	N	N	<20	N	10	300	30	50	N
79ZN056A	300	300	100	N	10	150	<1.0	N	N	N	N	50	150	10	15	N
79ZN056B	300	150	70	N	10	70	<1.0	N	N	N	N	30	150	20	30	N
79ZN057B	500	150	100	N	20	200	<1.0	N	N	20	<20	30	150	30	50	N
79ZN057C	200	50	50	N	70	30	<1.0	N	N	N	N	20	100	15	30	N
79ZN061A	200	70	50	N	10	700	1.0	N	N	30	<20	20	300	30	100	N
79ZN061B	50	20	15	N	N	200	<1.0	N	N	N	N	5	<100	N	15	N
79ZN062A	300	200	70	N	100	700	1.0	N	N	30	<20	30	300	30	100	N
79ZN062C	300	10	20	N	<10	300	1.0	N	N	50	20	15	700	30	100	N
79ZN062G	200	100	70	N	70	300	1.0	N	N	20	N	15	500	20	70	N
79ZN062H	N	<10	7	N	N	<20	<1.0	N	N	N	N	<5	N	N	<10	N
79ZN063A	200	100	20	N	<10	1,000	1.0	N	N	30	N	15	300	20	70	N
79ZN063C	300	200	70	N	50	500	<1.0	N	N	20	<20	20	200	20	70	N
79ZN063E	N	<10	<5	N	N	20	<1.0	N	N	N	N	N	N	N	N	N
79ZN065A	200	150	70	N	100	1,000	1.0	N	N	20	N	20	200	20	70	N
79ZN069A	50	5,000	2,000	N	30	<20	<1.0	N	N	N	N	10	N	N	<10	N
79ZN070A	50	>5,000	3,000	N	<10	N	N	N	N	N	N	10	N	N	N	N
82IL002A	20	N	10	N	<10	200	N	N	N	N	N	7	500	10	20	N
82IL005A	30	30	5	N	50	150	N	N	N	30	N	N	700	10	20	N
82IL005B	70	50	30	N	10	100	N	N	N	N	N	15	200	20	30	N

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	LATITUDE	LONGITUDE	ROCK TYPE	TERRANE	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn
82IL005C	63 18 16	146 27 38	Metarhyolite breccia	2	.70	.07	.15	.100	100
82IL008A	63 18 3	146 29 19	Calcite-grossularite skarn	2	.70	1.50	20.00	.070	1,500
82IL008B	63 18 3	146 29 19	Grossularite-vesuvianite skarn	2	7.00	1.00	15.00	.100	700
82IL008C	63 18 3	146 29 19	Andradite-sulfide skarn	2	5.00	3.00	10.00	.200	1,000
82IL009A	63 18 12	146 29 11	Clinopyroxene-wollastonite skarn	2	5.00	.70	20.00	.005	300
82IL009B	63 18 12	146 29 11	Clinopyroxene-magnetite skarn	2	7.00	5.00	10.00	.015	300
82IL009C	63 18 12	146 29 11	Olivine marble	2	1.00	2.00	20.00	.200	1,000
82IL011B	63 13 8	146 51 50	Actinolite-epidote greenstone	4	1.50	3.00	5.00	.200	700
82IL012A	63 13 16	146 51 55	Quartz-sericite-albite schist	4	1.50	1.00	.50	.150	100
82NK011A	63 12 38	146 51 19	Calcite-quartz schist	4	2.00	2.00	3.00	.070	1,000
82NK011B	63 12 38	146 51 19	Chlorite-calcite-graphite schist	4	3.00	1.50	1.50	.200	1,000
82NK012A	63 12 58	146 51 2	Calcite-quartz schist	4	1.50	1.50	2.00	.150	1,000
82NK013A	63 12 46	146 51 10	Chlorite-calcite-quartz schist	4	3.00	2.00	1.50	.200	1,000
82NK014A	63 12 49	146 51 36	Chlorite-calcite-quartz schist	4	2.00	3.00	2.00	.070	1,000
82NK015A	63 12 35	146 51 49	Brecciated, pyritized metaandesite	4	2.00	2.00	3.00	.200	1,500
82NK017B	63 12 30	146 53 25	Calcite-quartz schist with sulfide	4	1.50	1.50	.70	.150	1,000
82NK017C	63 12 30	146 53 25	Calcite-quartz schist with sulfide	4	2.00	1.50	2.00	.070	2,000
82NK019A	63 23 22	146 48 5	Metaquartz diorite	3	5.00	1.50	2.00	.200	1,000
82NK021A	63 11 17	146 53 25	Pyritized calcite-quartz schist	2	2.00	2.00	5.00	.100	1,000
82NK023A	63 11 36	146 53 0	Pyritized metaandesite	4	3.00	1.00	1.50	.500	1,000
82NK027A	63 12 5	146 54 34	Muscovite-quartz-epidote schist	4	2.00	1.50	.70	.200	1,000
82NK029A	63 12 2	146 54 29	Quartz-muscovite-epidote schist	4	1.00	.30	.70	.100	500
82NK097B	63 12 54	146 41 48	Mineralized skarn	2	1.50	.20	2.00	.003	1,500
82NK097C	63 12 54	146 41 48	Mineralized skarn	2	1.00	1.50	2.00	.070	500
82NK097D	63 12 54	146 41 48	Mineralized skarn	2	1.00	.70	1.00	.050	300
82NK097E	63 12 54	146 41 48	Mineralized skarn	2	1.50	.70	1.00	.050	200
82NK097F	63 12 54	146 41 48	Diorite dike	2	1.00	.70	1.00	.050	500
82SB017B	63 7 8	146 6 56	Actinolite-chlorite greenstone	2	5.00	2.00	3.00	.200	1,000
82SB018B	63 7 6	146 6 45	Clinopyroxene greenstone	2	5.00	2.00	2.00	.200	1,000
82SB022A	63 11 58	146 55 45	Metagabbro	4	3.00	2.00	2.00	.200	1,000
82SB023B	63 11 50	146 55 38	Muscovite-chlorite-albite phyllite	4	7.00	2.00	.70	.300	2,000
82SB023C	63 11 50	146 55 38	Carbonate-altered metarhyodacite	4	1.50	1.00	1.00	.150	1,000
82SB024A	63 11 46	146 55 32	Calcite-quartz vein	4	1.50	3.00	5.00	.050	1,000
82SB024B	63 11 46	146 55 32	Quartz vein	4	1.00	2.00	2.00	.050	700

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	AA-Cu-P	S-Cu	AA-Pb-P	S-Pb	AA-Zn-P	S-Zn	S-Ag	S-As	S-Mo	S-W	S-Sn	S-Sb	S-Co
82IL005C	10	5	10	15	15	N	N	<200	N	N	N	N	<5.0
82IL008A	30	15	30	N	200	<200	<.5	N	N	N	N	N	10.0
82IL008B	40	20	20	N	150	<200	N	N	N	N	20	N	10.0
82IL008C	700	500	15	N	140	200	3.0	300	N	N	N	N	500.0
82IL009A	85	50	40	N	710	500	.5	N	N	N	N	N	50.0
82IL009B	730	500	15	N	190	200	1.5	N	N	N	N	N	70.0
82IL009C	5	<5	30	N	210	<200	N	N	N	N	N	N	30.0
82IL011B	140	70	10	15	50	N	N	N	N	N	N	N	20.0
82IL012A	45	30	5	<10	5	N	<.5	N	15	50	15	N	<5.0
82NK011A	40	20	20	<10	45	N	N	N	N	N	N	N	20.0
82NK011B	390	300	20	N	90	N	N	N	N	N	N	N	20.0
82NK012A	60	50	15	N	55	N	N	200	N	N	N	N	10.0
82NK013A	150	100	15	N	100	N	1.0	N	N	N	N	N	30.0
82NK014A	40	30	25	N	40	N	N	N	N	N	N	N	30.0
82NK015A	110	70	25	<10	90	N	N	N	N	N	N	N	15.0
82NK017B	20	15	15	10	90	200	N	N	N	N	N	N	5.0
82NK017C	2,700	2,000	94,000	>20,000	7,900	5,000	50.0	1,000	15	N	10	100	20.0
82NK019A	25	30	40	150	60	<200	<.5	N	N	N	N	N	10.0
82NK021A	40	30	30	15	50	N	N	N	N	N	N	N	20.0
82NK023A	120	70	25	10	95	N	N	N	N	N	N	N	20.0
82NK027A	15	20	20	30	55	N	N	N	N	N	N	N	5.0
82NK029A	5	5	10	<10	65	N	<.5	N	N	N	N	N	<5.0
82NK097B	66,000	20,000	10	10	20	N	30.0	N	7	N	N	N	N
82NK097C	140	150	5	N	5	N	.5	N	5	N	N	N	10.0
82NK097D	110	70	5	<10	10	N	N	N	10	N	N	N	5.0
82NK097E	170	70	10	<10	10	N	N	N	7	N	N	N	7.0
82NK097F	40	30	5	N	15	N	N	N	5	N	N	N	5.0
82SB017B	160	100	15	<10	70	N	N	N	N	N	N	N	30.0
82SB018B	120	100	15	N	65	N	N	N	N	N	N	N	30.0
82SB022A	170	70	10	<10	40	N	N	N	N	N	N	N	20.0
82SB023B	2,300	200	20	10	140	200	.7	N	N	N	N	N	50.0
82SB023C	35	20	110	70	210	300	<.5	500	N	N	N	N	7.0
82SB024A	30	20	30	<10	30	N	N	N	N	N	N	N	20.0
82SB024B	30	7	30	N	25	N	N	N	N	N	N	N	N

TABLE 6. ANALYSES OF ROCK, MINERAL OCCURRENCE, PROSPECT, AND DEPOSIT SAMPLES, SOUTHERN MOUNT HAYES QUADRANGLE

SAMPLE	S-V	S-Cr	S-Ni	S-Au	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-La	S-Nb	S-Sc	S-Sr	S-Y	S-Zr	S-Th
82IL005C	20	<10	7	N	70	700	<1.0	N	N	70	N	5	300	10	50	N
82IL008A	20	50	30	N	20	50	N	N	N	N	N	7	<100	20	30	N
82IL008B	30	50	15	N	30	N	N	N	N	N	N	10	<100	30	50	N
82IL008C	15	150	100	N	50	N	N	50	N	N	N	10	<100	10	20	N
82IL009A	<10	10	20	N	N	<20	N	N	N	N	N	<5	200	N	N	N
82IL009B	15	70	150	N	10	<20	N	N	N	N	N	15	100	N	N	N
82IL009C	10	50	100	N	20	<20	<1.0	N	N	50	N	10	300	30	70	N
82IL011B	50	150	30	N	<10	300	N	N	N	N	N	20	500	15	20	N
82IL012A	50	10	5	N	10	700	<1.0	N	N	70	N	7	200	<10	50	N
82NK011A	100	500	150	N	20	20	1.0	N	N	N	N	20	200	10	15	N
82NK011B	150	30	30	N	10	200	1.0	N	N	N	N	20	300	20	30	N
82NK012A	150	50	20	N	50	150	<1.0	N	N	N	N	20	<100	10	20	N
82NK013A	150	50	30	N	30	100	<1.0	N	N	N	N	30	150	20	30	N
82NK014A	100	300	100	N	15	150	<1.0	N	N	N	N	20	200	10	20	N
82NK015A	150	50	50	N	<10	70	<1.0	N	N	N	N	15	150	30	30	N
82NK017B	70	10	5	N	15	200	1.0	N	N	N	N	10	100	10	30	N
82NK017C	100	10	<5	N	10	300	N	N	300	N	N	15	300	<10	20	N
82NK019A	100	N	N	N	<10	200	<1.0	N	N	N	N	10	700	10	50	N
82NK021A	100	50	50	N	20	<20	N	N	N	N	N	20	200	10	10	N
82NK023A	150	70	30	N	20	50	<1.0	N	N	N	N	20	300	20	50	N
82NK027A	100	15	7	N	20	500	<1.0	N	N	N	N	15	200	15	30	N
82NK029A	30	N	<5	N	30	700	1.0	N	N	N	N	7	<100	20	50	N
82NK097B	30	N	30	N	30	20	<1.0	100	N	N	N	N	N	N	<10	N
82NK097C	100	50	7	N	20	1,000	<1.0	N	N	N	N	15	1,000	<10	20	N
82NK097D	70	15	5	N	10	1,000	1.0	N	N	N	N	7	1,000	<10	30	N
82NK097E	100	15	7	N	10	1,000	1.0	N	N	N	N	7	1,000	N	30	N
82NK097F	70	15	5	N	10	1,000	<1.0	N	N	N	N	7	1,000	N	30	N
82SB017B	150	300	50	N	10	70	N	N	N	N	N	30	150	20	30	N
82SB018B	200	300	70	N	<10	50	N	N	N	N	N	20	100	20	20	N
82SB022A	150	300	50	N	10	300	<1.0	N	N	N	N	20	300	20	30	N
82SB023B	200	30	30	N	<10	1,000	1.0	N	N	N	N	30	200	30	50	N
82SB023C	100	15	7	N	50	1,000	1.5	N	<20	N	N	10	150	15	50	N
82SB024A	150	300	100	N	15	70	N	N	N	N	N	10	300	10	N	N
82SB024B	150	200	30	N	10	50	N	N	N	N	N	5	100	N	10	N