UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Analytical results and sample locality map of mull samples from the Tanacross quadrangle, Alaska

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STUDIES RELATED TO AMRAP

The U.S. Geological Survey, is required by the Alaskan Native Lands Act (Public Law 96-487, 1980), to survey certain Federal lands to determine their mineral resource potential. Results from the Alaskan Mineral Resource Assessment Program (AMRAP) must be made available to the public and be submitted to the President and the Congress. This report presents analytical results of a geochemical survey of the Tanacross quadrangle, Alaska.

INTRODUCTION

During the summer of 1974, a reconnaissance geochemical survey was conducted in the Tanacross quadrangle, Alaska, in conjunction with geological, geophysical, and mineral resource studies that were being made under the Alaska Mineral Resource Assessment Program (AMRAP).

The Tanacross quadrangle covers about 6,700 mi^2 (17,400 km^2) in east-central Alaska on the Alaska-Canada border and lies about 330 miles (531 km) northeast of Anchorage (see fig. 1). Access to the quadrangle is provided on the south by the Alaska and Glenn Highways, on the west by the Alaska Highway, and on the north by the Taylor Highway. Access within the Tanacross quadrangle is provided by the Alaska Highway, which crosses the southern third of the quadrangle and is joined at Tok by the Glenn Highway from Anchorage, Alaska, and at Tetlin Junction by the Taylor Highway to Eagle, Alaska.

The Tanana River crosses the southern half of the Tanacross quadrangle and divides the unglaciated, maturely dissected mountains of the Yukon-Tanana Upland in the north from the plains and low rolling hills of the Northway-Tanacross Lowland in the south (Wahrhaftig, 1965). Rugged glaciated mountains of the Alaska Range occupy a roughly triangular area in the southwest corner of the quadrangle. Elevations range from 7,438 ft (2,267 m) in the Alaska Range and 5,541 ft (1,689 m) at Mount Fairplay in the Yukon-Tanana Upland to about 1,500 ft (457 m) in the Northway-Tanana Lowland. Most of the Yukon-Tanana part of the quadrangle has a cover of vegetation.

The Denali fault crosses the extreme southwestern corner of the Tanacross quadrangle and separates the unmetamorphosed terrane of the south from metamorphosed terrane (Foster and others, 1976, p. 4). The metamorphosed rocks have been intruded by Mesozoic and Tertiary granitic rocks and volcanic rocks (Foster and others, 1976, p. 4). Porphyry copper and molybdenum deposits within the Tanacross quadrangle are generally associated with Tertiary felsic volcanic rocks (Foster and others, 1976, p. 17). Geology of the Tanacross quadrangle is discussed in detail in U.S. Geological Survey Circular 734 (Foster and others, 1976) and on U.S. Geological Survey Map I-593 of the Tanacross quadrangle (Foster, 1970).

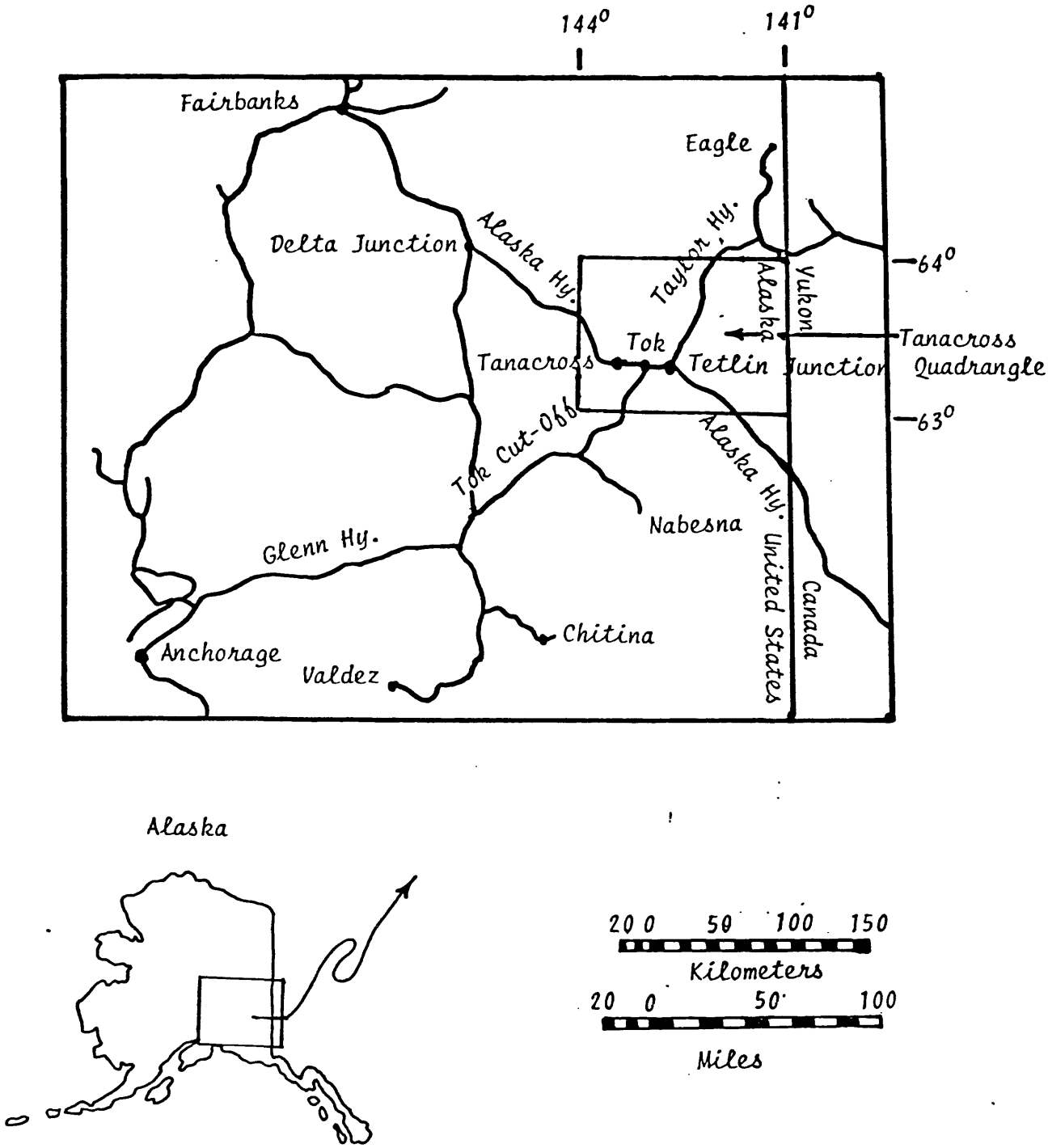

Figure 1.--Location map of the Tanacross quadrangle, east-central Alaska.

METHODS OF STUDY

Sample Medium

Mull is the partially decomposed plant debris found under trees or shrubs mixed with soil or rock fragments introduced by sheet wash, wind, and, in many areas, the activity of rodents and other animals. It generally occurs as thick, black, humus-rich pads mixed with various amounts of mineral matter. The U.S. Department of Agriculture (1951, p. 246) classifies such mull as the Ao horizon. The element content of the mull represents elements that have entered the plants through the roots in soil solution and which are deposited on the ground, and immobilized and enriched in the humus layer.

Sample Collection

Mull samples were collected at 615 sites (plate 1) at an average sampling density of one site per 11 mi^2. These sites were in proximity to streams where sediment and heavy-mineral concentrate were also sampled.

Mull samples were collected beneath black spruce trees at most sites, but occasionally samples of birch mull were obtained where spruce mull was unavailable.

A total of 647 mull samples were analyzed because duplicate samples were collected at 32 sites.

Sample Preparation

Mull samples were air dried and sieved thru a 2-mm stainless steel sieve. The minus-2-mm fraction was ashed at 450°C in a thermostatically controlled furnace for 24 hours.

Sample Analysis

The ash of the mull samples was analyzed for 35 elements using a semiquantitative, direct-current arc emission spectrographic method described by Mosier (1972) and modified by Curry and others (1975) (table 2). Spectrographic results were obtained by visual comparison of spectra derived from the sample against spectra obtained from standards made from pure oxides and carbonates. Standard concentrations are geometrically spaced over any given order of magnitude of concentration as follows: 100, 50, 20, 10, and so forth. Samples whose concentrations are estimated to fall between those values are assigned values of 70, 30, 15, and so forth. Values determined for the major elements (Fe, Mg, Na, and Ti) are given in weight percent; all others are given in parts per million (micrograms/gram). Analytical data for samples from the Tanacross quadrangle are listed in Table 2.

ROCK ANALYSIS STORAGE SYSTEM

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

DESCRIPTION OF DATA TABLES

Table 2 lists the analyses for the samples of mull. For this table, the data are arranged so that column 1 contains the USGS-assigned sample numbers (TX___H). In column 1, the letter D before a sample number indicates a duplicate sample collected at a site where both samples appear to have the same silt content. The letter A after the sample number indicates a higher silt content, and the letter B a lower silt content in two samples collected at the same site. The numbers in column 1 correspond to the numbers shown on the site location map (plate 1) except that the letters H, D, A, and B are omitted on the map. Columns in which the element headings show the letter "s" below the element symbol are emission spectrographic analyses. A letter "N" in the tables indicates that a given element was looked for but not detected at the lower limit of determination shown for that element in table 1. If an element was observed but was below the lowest reporting value, then a "less than" symbol (<) was entered in the tables in front of the lower limit of determination. If an element was observed but was above the highest reporting value, a "greater than" symbol (>) was entered in the tables in front of the upper limit of determination. Because of the formatting used in the computer program that produced table 2, some of the elements listed in these tables (Fe, Mg, Ti, Ag, and Na) carry one or more nonsignificant digits to the right of the significant digits. The analysts did not determine these elements to the accuracy suggested by the extra zeroes.

The spectrographic determinations for Au, Ge, In, and Tl in mull samples were all below the lower limits of determinations shown in table 1; consequently, the columns for these elements have been deleted from table 2. The spectrographic determinations for As, Sb, Li, and Bi were also below the lower limit of detection except in one to three samples for each of these elements and they have been deleted from table 2 and are displayed on table 3.

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TABLE 1.--Limits of determination for the spectrographic analysis of mull based on a 5-mg sample

Elements	Lower determination limit	Upper determination limit
	Percent	
Iron (Fe)	0.005	5
Magnesium (Mg)	.01	10
Titanium (Ti)	.001	1
Sodium (Na)	.005	5
	Parts per million	
Manganese (Mn)	10	10,000
Silver (Ag)	0.1	500
Arsenic (As)	200	5,000
Gold (Au)	2	500
Boron (B)	5	1,000
Barium (Ba)	20	20,000
Beryllium (Be)	1	100
Bismuth (Bi)	1	500
Cadmium (Cd)	2	500
Cobalt (Co)	10	1,000
Chromium (Cr)	5	1,000
Copper (Cu)	1	5,000
Lanthanum (La)	20	500
Molybdenum (Mo)	2	500
Niobium (Nb)	50	500
Nickel (Ni)	5	1,000
Lead (Pb)	1	5,000
Antimony (Sb)	50	5,000
Scandium (Sc)	5	100
Tin (Sn)	5	500
Strontium (Sr)	100	5,000
Vanadium (V)	10	1,000
Tungsten (W)	50	1,000
Yttrium (Y)	10	500
Zinc (Zn)	100	20,000
Zirconium (Zr)	10	1,000
Gallium (Ga)	2	100
Germanium (Ge)	2	100
Indium (In)	2	100
Lithium (Li)	200	10,000
Thallium (Tl)	2	100

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.

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

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
TX1H	63 10 30	143 37 55	5.0	2.0	.50	>10,000	.1	150	3,000	2
TX2H	63 10 35	143 37 40	5.0	3.0	.50	>10,000	.3	200	3,000	3
TX3H	63 11 20	143 30 40	>5.0	2.0	1.00	3,000	.1	150	2,000	7
TX4H	63 13 40	143 35 40	5.0	3.0	.50	>10,000	.1	100	3,000	3
TX5H	63 13 25	143 40 30	5.0	2.0	.50	5,000	.1	100	2,000	3
TX6H	63 0 25	143 33 0	>5.0	5.0	.70	2,000	.1	100	3,000	7
TX7H	63 7 20	143 36 30	>5.0	3.0	.70	5,000	.2	150	3,000	7
TX8H	63 8 10	143 40 10	5.0	3.0	.50	5,000	.1	200	2,000	5
TX9H	63 11 40	143 47 35	>5.0	3.0	.50	10,000	.1	200	2,000	2
TX10H	63 33 37	143 11 5	>5.0	2.0	1.00	2,000	.1	50	2,000	3
TX11H	63 34 2	142 58 52	>5.0	3.0	1.00	10,000	.1	70	3,000	3
TX12H	63 34 36	143 9 5	5.0	5.0	.50	>10,000	.1	200	3,000	2
TX13H	63 33 25	142 54 0	>5.0	5.0	.50	>10,000	1.0	150	3,000	3
TX14H	63 35 55	143 6 15	>5.0	5.0	.30	>10,000	.2	200	3,000	2
TX15H	63 34 35	142 48 0	>5.0	1.5	.70	7,000	.1	100	1,500	3
TX16H	63 37 30	143 3 20	>5.0	3.0	.70	7,000	.1	100	2,000	3
TX17H	63 35 5	143 1 15	>5.0	5.0	1.00	7,000	.1	100	2,000	3
TX18H	63 41 0	143 5 30	>5.0	2.0	.70	10,000	.1	100	2,000	3
TX19H	63 37 51	143 6 42	>5.0	2.0	1.00	3,000	.1	100	2,000	3
TX20H	63 41 50	143 3 10	5.0	3.0	.20	>10,000	.5	200	3,000	2
TX21H	63 39 12	143 6 25	>5.0	2.0	1.00	2,000	.1	50	1,000	5
TX22H	63 41 30	143 14 0	>5.0	3.0	.70	>10,000	.1	100	2,000	5
TX23H	63 40 43	143 1 30	>5.0	5.0	.70	>10,000	.1	150	3,000	5
TX24H	63 43 0	142 45 30	>5.0	2.0	.70	5,000	.1	100	2,000	5
DTX24H	63 43 0	142 45 30	>5.0	3.0	1.00	>10,000	.1	100	3,000	3
TX25H	63 42 20	142 57 10	>5.0	3.0	.70	>10,000	N	70	2,000	5
TX26H	63 41 50	142 47 30	>5.0	2.0	.70	5,000	N	100	2,000	3
TX27H	63 43 30	143 4 50	5.0	1.5	.50	>10,000	N	200	2,000	2
TX28H	63 44 0	142 44 0	>5.0	2.0	.70	3,000	N	100	1,500	5
TX29H	63 44 30	143 9 0	>5.0	2.0	.70	1,500	N	100	1,500	5
TX30H	63 42 40	142 38 30	>5.0	2.0	.70	10,000	N	150	3,000	3
TX31H	63 41 0	143 11 10	>5.0	3.0	.70	3,000	N	100	1,500	5
TX32H	63 39 56	142 55 15	>5.0	1.5	.70	1,500	N	70	1,000	3
TX33H	63 37 32	142 56 45	5.0	5.0	.20	>10,000	1.0	200	3,000	3
TX34H	63 35 40	142 58 10	>5.0	1.5	1.00	2,000	N	100	1,500	5
TX35H	63 37 13	142 51 54	>5.0	2.0	.70	2,000	N	100	1,500	3
TX37H	63 38 50	142 49 50	5.0	3.0	.20	>10,000	.2	150	1,500	5
TX38H	63 39 30	142 38 40	>5.0	2.0	.70	5,000	N	150	1,500	3
TX39H	63 36 0	142 46 10	>5.0	2.0	.70	2,000	N	70	1,000	3
DTX39H	63 36 0	142 46 10	>5.0	2.0	1.00	2,000	N	70	1,500	3
TX40H	63 3 5	143 42 30	5.0	2.0	.30	5,000	N	200	3,000	3
TX41H	63 40 10	142 44 20	>5.0	2.0	.50	7,000	N	70	1,500	5
TX42H	63 4 0	143 46 5	3.0	1.5	.20	5,000	N	100	2,000	2
TX43H	63 1 23	143 52 25	>5.0	3.0	.70	1,500	N	200	2,000	5
TX44H	63 3 30	143 45 0	>5.0	2.0	.50	10,000	N	200	2,000	3

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.

Sample	Ag-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s
TX1H	N	30	100	100	50	7	N	100	7	15
TX2H	N	30	70	100	50	N	N	100	7	20
TX3H	N	50	100	70	100	5	N	100	10	50
TX4H	3	30	50	100	50	N	N	100	7	15
TX5H	N	30	70	70	50	N	N	100	7	20
TX6H	N	30	100	100	70	N	N	100	20	30
TX7H	5	30	100	100	70	N	N	100	15	30
TX8H	N	30	100	100	70	N	N	100	15	20
TX9H	5	30	100	100	50	10	N	100	10	20
TX10H	N	50	150	50	70	N	N	100	10	30
TX11H	5	50	150	70	70	N	N	100	15	30
TX12H	5	30	70	100	70	N	N	100	7	15
TX13H	7	200	70	150	50	7	N	150	10	15
TX14H	5	30	100	150	50	7	N	100	10	10
TX15H	N	30	100	70	20	N	N	100	7	30
TX16H	5	50	150	150	30	5	N	100	15	30
TX17H	5	70	200	70	70	5	N	100	50	50
TX18H	N	50	150	150	50	N	N	100	50	30
TX19H	N	50	150	70	50	N	N	100	7	30
TX20H	5	50	70	100	20	N	N	100	7	10
TX21H	N	50	150	50	30	N	N	100	7	30
TX22H	10	50	150	70	30	N	N	100	10	20
TX23H	7	150	150	100	70	N	N	100	10	30
TX24H	N	30	150	50	20	N	N	70	10	20
DTX24H	5	20	100	70	20	N	N	30	7	10
TX25H	N	70	150	70	20	N	N	100	7	20
TX26H	N	30	100	50	20	N	N	70	7	20
TX27H	N	30	70	70	20	N	N	70	5	10
TX28H	N	70	150	70	30	N	N	70	10	30
TX29H	N	30	100	70	20	N	N	70	7	20
TX30H	N	30	100	70	20	N	N	70	7	15
TX31H	N	50	150	100	30	N	N	100	10	30
TX32H	N	30	100	50	20	N	N	70	5	20
TX33H	5	70	70	200	20	15	N	100	7	10
TX34H	N	30	150	70	70	N	N	70	15	30
TX35H	N	70	150	100	20	5	N	100	5	30
TX37H	5	70	50	150	20	N	N	50	15	10
TX38H	N	50	200	50	20	5	N	100	7	20
TX39H	N	30	150	50	20	N	N	50	7	20
DTX39H	N	50	200	50	20	N	N	100	7	30
TX40H	N	30	70	100	20	N	N	100	7	15
TX41H	N	70	100	50	20	N	N	70	7	20
TX42H	N	20	50	70	20	N	N	70	5	10
TX43H	N	30	150	150	30	N	N	100	7	20
TX44H	5	30	100	200	20	N	N	100	7	15

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Na-pct. s	Ga-ppm s
TX1H	N	1,000	100	N	20	1,000	300	.30	10
TX2H	N	1,000	100	N	20	1,000	500	.70	15
TX3H	5	500	200	N	70	500	1,000	.50	20
TX4H	N	1,500	100	N	20	1,500	200	.30	5
TX5H	N	700	100	N	20	700	500	.30	10
TX6H	5	300	300	N	50	700	1,000	1.00	30
TX7H	5	150	200	N	50	700	1,000	1.00	20
TX8H	5	150	100	N	70	1,500	700	.50	20
TX9H	N	150	150	N	20	1,500	300	1.00	20
TX10H	N	100	300	N	50	150	500	.70	15
TX11H	N	700	300	N	50	700	700	1.00	15
TX12H	N	2,000	100	N	50	1,500	300	.50	N
TX13H	5	2,000	200	N	70	700	200	.50	N
TX14H	N	1,000	200	N	30	2,000	200	.50	N
TX15H	N	700	200	N	30	700	500	.50	10
TX16H	<5	1,000	200	N	50	700	500	.50	10
TX17H	7	1,000	300	N	70	700	500	1.00	20
TX18H	100	1,000	200	N	30	700	300	1.00	20
TX19H	N	700	300	N	30	500	500	.50	15
TX20H	N	1,000	100	N	10	2,000	150	.30	10
TX21H	N	500	200	N	30	500	500	.50	15
TX22H	N	700	200	N	30	1,000	500	.50	15
TX23H	N	1,500	300	N	70	1,000	500	.50	15
TX24H	N	700	150	N	20	200	500	.50	20
DTX24H	N	700	100	N	10	500	500	.70	N
TX25H	N	500	200	N	30	N	300	.70	15
TX26H	N	500	200	N	20	500	300	.50	15
TX27H	N	1,000	100	N	10	700	150	.30	N
TX28H	N	500	200	N	30	100	300	.50	20
TX29H	N	700	200	N	20	100	300	.70	20
TX30H	N	700	150	N	20	500	300	.50	10
TX31H	5	700	200	N	30	300	500	.70	20
TX32H	N	500	200	N	30	100	500	.50	20
TX33H	N	1,000	150	N	50	700	100	.50	10
TX34H	N	700	200	N	50	200	500	.50	30
TX35H	N	700	200	N	50	200	500	.70	10
TX37H	N	700	100	N	50	700	100	1.00	10
TX38H	N	700	150	N	20	500	300	1.00	10
TX39H	N	500	150	N	20	N	150	1.00	20
DTX39H	N	700	200	N	30	100	500	1.00	20
TX40H	N	1,500	70	N	20	1,000	150	.50	10
TX41H	N	500	200	N	30	150	200	.70	15
TX42H	N	1,500	70	N	10	1,000	100	.30	5
TX43H	N	300	200	N	30	300	500	.70	30
TX44H	N	1,500	100	N	30	700	200	.70	10

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
TX45H	63 2 2	143 52 7	5.0	2.0	.50	1,000	N	200	1,000	3
TX46H	63 4 35	143 42 25	>5.0	7.0	.50	>10,000	N	300	2,000	2
TX47H	63 2 10	143 58 40	>5.0	2.0	>1.00	2,000	.3	700	3,000	10
TX48H	63 3 5	143 34 55	>5.0	5.0	1.00	5,000	N	300	3,000	5
TX49H	63 2 50	143 48 5	>5.0	5.0	>1.00	10,000	1.0	200	2,000	5
TX50H	63 2 25	143 36 20	5.0	5.0	.50	1,500	N	200	3,000	2
TX51H	63 5 30	143 39 50	>5.0	2.0	1.00	10,000	N	700	3,000	10
TX52H	63 37 0	142 31 40	5.0	3.0	.50	>10,000	N	300	3,000	2
TX53H	63 38 20	142 33 0	>5.0	5.0	1.00	10,000	N	150	3,000	7
TX54H	63 34 40	142 36 5	>5.0	10.0	.50	>10,000	.5	300	2,000	7
TX55H	63 36 30	142 37 35	>5.0	5.0	>1.00	>10,000	N	200	2,000	3
TX56H	63 33 35	142 40 20	>5.0	5.0	1.00	10,000	N	200	2,000	7
TX57H	63 34 7	142 34 20	>5.0	5.0	>1.00	7,000	.3	150	2,000	3
TX58H	63 30 55	142 35 20	>5.0	5.0	.70	>10,000	.7	200	3,000	5
TX59H	63 32 10	142 33 30	>5.0	5.0	>1.00	3,000	N	100	2,000	5
TX60H	63 30 10	142 42 10	>5.0	7.0	.70	>10,000	N	200	3,000	3
TX61H	63 32 5	142 43 5	>5.0	5.0	>1.00	5,000	N	150	2,000	7
TX62H	63 31 0	142 48 20	>5.0	7.0	.50	>10,000	N	300	2,000	3
TX63H	63 32 10	142 47 38	>5.0	5.0	.50	>10,000	N	200	3,000	3
DTX63H	63 32 10	142 47 38	>5.0	5.0	.70	>10,000	N	200	3,000	7
TX64H	63 31 10	143 0 40	>5.0	7.0	.70	>10,000	.5	500	3,000	7
TX65H	63 32 10	142 54 20	>5.0	7.0	.70	>10,000	.2	300	3,000	3
TX66H	63 19 45	142 50 15	>5.0	7.0	.70	10,000	N	300	3,000	3
TX67H	63 23 20	142 32 15	>5.0	7.0	1.00	10,000	N	150	2,000	3
TX68H	63 22 30	142 31 35	>5.0	5.0	1.00	10,000	1.5	150	2,000	3
TX69H	63 23 15	142 30 20	>5.0	3.0	>1.00	2,000	N	150	2,000	3
TX70H	63 33 30	143 20 20	>5.0	3.0	.70	>10,000	N	200	2,000	3
TX72H	63 35 10	143 19 40	>5.0	3.0	.70	>10,000	.1	300	1,500	2
TX73H	63 35 10	143 23 5	5.0	5.0	.50	10,000	.7	300	2,000	2
TX74H	63 39 50	143 23 0	>5.0	5.0	.50	>10,000	.1	300	2,000	7
TX75H	63 38 0	143 16 35	>5.0	5.0	1.00	10,000	N	150	3,000	3
TX76H	63 43 10	143 21 10	>5.0	5.0	1.00	5,000	N	150	1,500	5
TX77H	63 40 25	143 17 20	5.0	5.0	.50	5,000	.1	150	700	3
TX78H	63 37 30	142 48 50	>5.0	3.0	.50	>10,000	.2	200	2,000	3
DTX78H	63 37 30	142 48 50	5.0	2.0	.20	>10,000	.7	200	3,000	2
TX79H	63 40 40	143 25 25	>5.0	2.0	.70	5,000	N	150	2,000	5
TX80H	63 38 55	142 53 25	3.0	3.0	.20	10,000	.5	200	3,000	2
TX81H	63 37 30	142 44 25	>5.0	1.0	1.00	3,000	N	70	2,000	5
TX82H	63 45 45	142 56 25	>5.0	3.0	.70	10,000	.7	200	2,000	3
TX83H	63 44 25	142 56 55	>5.0	3.0	.70	>10,000	.2	100	2,000	5
TX84H	63 48 5	142 43 55	>5.0	5.0	.10	>10,000	.5	200	3,000	5
TX85H	63 45 50	142 52 15	>5.0	2.0	.70	10,000	N	70	1,500	5
TX86H	63 49 30	142 39 40	>5.0	5.0	.20	>10,000	.2	300	2,000	3
TX87H	63 46 50	142 47 20	>5.0	2.0	1.00	3,000	N	70	1,500	3
TX88H	63 51 50	142 38 35	>5.0	3.0	.50	>10,000	.3	150	2,000	5

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s
TX45H	N	30	70	150	20	N	N	70	10	15
TX46H	N	30	100	200	20	N	N	100	10	10
TX47H	5	70	200	150	30	10	N	150	7	50
TX48H	10	50	100	100	20	5	N	100	15	20
TX49H	N	50	150	100	30	5	N	100	10	20
TX50H	20	30	150	150	20	N	N	150	10	10
TX51H	N	50	500	100	70	N	N	100	20	30
TX52H	5	30	70	150	20	7	N	100	7	10
TX53H	5	30	200	100	20	N	N	100	15	30
TX54H	7	150	70	300	20	7	N	150	7	7
TX55H	N	100	200	100	20	5	N	150	15	50
TX56H	5	70	100	150	20	5	N	100	10	30
TX57H	15	70	200	150	30	5	N	150	10	50
TX58H	20	70	100	150	20	N	N	150	7	20
TX59H	N	50	200	100	30	N	N	150	10	50
TX60H	N	100	100	150	20	5	N	150	5	20
TX61H	N	50	200	100	20	N	N	100	10	30
TX62H	10	30	150	200	20	7	N	70	20	20
TX63H	50	100	70	200	20	N	N	100	7	15
DTX63H	20	70	150	150	20	5	N	150	7	30
TX64H	10	50	150	200	150	10	N	100	20	20
TX65H	3	30	150	200	20	5	N	70	20	30
TX66H	7	30	150	100	20	5	N	70	10	20
TX67H	3	70	200	100	20	5	N	100	20	30
TX68H	10	30	100	100	N	N	N	100	7	30
TX69H	2	50	150	100	N	5	N	150	7	50
TX70H	5	50	100	150	20	N	N	150	7	20
TX72H	2	30	100	100	20	N	N	70	7	15
TX73H	10	30	100	150	20	30	N	150	7	15
TX74H	5	70	70	200	30	N	N	150	10	20
TX75H	2	70	200	100	20	N	N	150	10	50
TX76H	N	70	150	70	20	N	N	150	7	50
TX77H	N	30	70	150	20	N	N	70	7	15
TX78H	20	50	100	100	20	N	N	100	7	15
DTX78H	10	30	100	100	20	N	N	70	5	10
TX79H	N	30	200	70	20	N	N	100	7	20
TX80H	5	30	50	100	N	7	N	70	5	10
TX81H	N	50	150	70	30	N	N	100	7	30
TX82H	10	70	150	100	20	N	N	100	7	20
TX83H	5	150	100	150	20	30	N	150	7	20
TX84H	10	200	70	200	30	N	N	150	5	20
TX85H	N	150	150	70	20	N	N	100	10	30
TX86H	7	200	70	150	30	N	N	100	7	15
TX87H	N	30	150	50	20	N	N	70	7	30
TX88H	10	70	70	150	20	10	N	100	7	15

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Na-pct. s	Ga-ppm s
TX45H	N	700	100	N	10	500	200	.70	20
TX46H	N	2,000	100	N	20	1,000	300	1.00	10
TX47H	N	300	700	N	70	500	700	.30	10
TX48H	N	1,000	200	N	30	1,000	500	1.50	30
TX49H	S	1,000	200	N	30	500	700	2.00	30
TX50H	N	3,000	100	N	30	700	150	2.00	5
TX51H	S	700	150	N	50	1,000	700	.70	30
TX52H	N	1,000	100	N	10	2,000	200	.70	5
TX53H	N	700	200	N	30	500	500	.70	20
TX54H	N	2,000	200	N	70	700	150	.50	N
TX55H	S	700	500	N	70	500	1,000	2.00	30
TX56H	N	1,000	200	N	70	300	500	1.00	20
TX57H	N	1,000	200	N	70	700	700	1.00	20
TX58H	N	1,000	200	N	20	2,000	300	.70	20
TX59H	N	1,500	200	N	50	300	700	1.00	20
TX60H	N	2,000	200	N	30	1,000	300	1.00	10
TX61H	N	700	300	N	50	100	1,000	1.00	30
TX62H	N	2,000	100	N	30	1,000	150	1.00	10
TX63H	N	1,500	200	N	20	2,000	200	.50	N
DTX63H	N	700	200	N	30	1,000	500	.50	10
TX64H	N	3,000	200	N	100	1,000	200	1.00	15
TX65H	N	1,000	200	N	30	2,000	500	2.00	15
TX66H	N	1,500	200	N	30	2,000	500	2.00	20
TX67H	S	1,500	300	N	50	700	500	2.00	30
TX68H	N	700	300	N	50	500	300	1.00	20
TX69H	N	1,000	300	N	50	200	500	3.00	30
TX70H	N	700	200	N	30	500	200	1.00	15
TX72H	N	1,000	150	N	30	1,500	150	.50	10
TX73H	N	1,500	70	N	30	1,500	200	.50	10
TX74H	N	1,500	100	N	100	700	100	.50	20
TX75H	N	1,000	200	N	30	500	1,000	2.00	20
TX76H	N	700	200	N	30	200	1,000	1.00	20
TX77H	N	2,000	100	N	30	N	200	.70	15
TX78H	N	1,000	150	N	30	2,000	150	.50	15
DTX78H	N	1,000	150	N	10	3,000	150	.50	N
TX79H	N	700	150	N	30	300	300	1.00	20
TX80H	S	1,500	70	N	10	1,000	100	.30	10
TX81H	N	700	200	N	30	150	500	.50	20
TX82H	N	1,000	150	N	30	1,000	300	.70	20
TX83H	N	1,000	200	N	30	150	300	.30	10
TX84H	N	1,000	150	N	70	1,000	150	.70	N
TX85H	N	500	300	N	30	150	300	.50	15
TX86H	N	700	200	N	70	1,500	100	.50	N
TX87H	N	700	200	N	30	100	700	.50	20
TX88H	N	700	200	N	30	1,000	100	.50	10

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
TX89H	63 48 25	142 32 30	5.0	7.0	.20	>10,000	.5	200	2,000	5
TX90H	63 54 10	142 35 40	5.0	3.0	.20	>10,000	.3	200	2,000	3
TX91H	63 50 40	142 31 40	>5.0	2.0	.70	3,000	N	70	1,000	3
TX92H	63 45 40	142 40 40	5.0	2.0	.20	>10,000	.1	200	2,000	2
DTX92H	63 45 40	142 40 40	5.0	3.0	.50	>10,000	.2	200	3,000	2
TX93H	63 46 20	142 37 25	>5.0	1.5	.70	2,000	.1	70	1,000	5
TX94H	63 42 45	142 28 55	5.0	2.0	.20	>10,000	N	150	2,000	3
TX95H	63 47 5	142 30 35	5.0	2.0	.20	>10,000	.3	150	2,000	2
TX96H	63 41 50	142 26 45	>5.0	1.5	.70	2,000	N	70	1,000	3
TX97H	63 45 25	142 33 55	5.0	3.0	.50	>10,000	.1	150	2,000	3
TX98H	63 46 20	143 14 50	5.0	3.0	.20	>10,000	.2	100	1,500	1
TX99H	63 42 30	142 31 40	2.0	1.5	.10	>10,000	.2	200	1,500	1
TX100H	63 47 55	143 8 0	>5.0	2.0	.70	>10,000	.3	300	3,000	N
TX101H	63 44 20	143 17 20	5.0	2.0	.70	1,500	.1	100	1,000	2
TX102H	63 46 40	143 20 10	5.0	2.0	.70	10,000	.1	150	1,000	2
TX103H	63 47 0	143 11 20	5.0	1.0	.70	1,000	.2	70	700	2
TX104H	63 48 0	143 22 40	3.0	2.0	.20	>10,000	.1	150	2,000	1
TX105H	63 48 10	143 4 20	>5.0	2.0	.70	7,000	.2	100	2,000	2
TX106H	63 48 0	143 21 0	3.0	2.0	.20	>10,000	.1	150	2,000	N
TX107H	63 50 20	143 4 15	>5.0	3.0	.70	>10,000	.1	70	2,000	3
TX108H	63 45 10	143 29 50	3.0	3.0	.20	>10,000	N	200	1,500	2
TX109H	63 45 20	143 22 0	3.0	7.0	.20	>10,000	.1	150	1,500	1
TX110H	63 52 10	143 25 30	5.0	5.0	.20	>10,000	.5	200	1,500	3
TX112H	63 51 45	143 26 10	5.0	1.5	.70	500	N	100	1,000	3
TX113H	63 43 50	143 28 10	>5.0	2.0	.70	3,000	.1	100	1,500	3
TX114H	63 55 40	143 17 0	5.0	2.0	.70	3,000	.1	150	1,500	2
TX115H	63 51 20	143 22 0	5.0	2.0	.20	10,000	.7	150	1,500	3
TX116H	63 58 5	143 23 40	>5.0	5.0	.50	>10,000	.7	150	2,000	5
TX117H	63 54 0	143 22 0	5.0	1.5	.70	1,000	.1	70	1,000	3
DTX117H	63 54 0	143 22 0	>5.0	2.0	.20	7,000	.1	200	1,500	2
TX118H	63 54 0	143 15 30	5.0	2.0	.50	2,000	.1	150	1,500	5
TX119H	63 53 20	143 16 15	>5.0	5.0	.20	>10,000	1.0	150	2,000	5
TX120H	63 56 40	143 6 50	5.0	5.0	.20	>10,000	.1	300	2,000	N
TX121H	63 58 50	143 20 30	>5.0	5.0	1.00	>10,000	.3	300	3,000	2
TX122H	63 57 50	142 59 15	>5.0	3.0	1.00	5,000	.1	70	2,000	2
TX123H	63 59 45	143 23 20	>5.0	5.0	.70	>10,000	.1	200	3,000	2
TX124H	63 57 20	143 30 15	>5.0	3.0	.70	>10,000	.3	100	3,000	2
TX125H	63 57 5	143 10 20	>5.0	3.0	.70	5,000	.3	100	2,000	5
TX126H	63 51 15	143 41 20	5.0	5.0	.50	7,000	.1	300	2,000	1
TX127H	63 56 30	143 2 40	>5.0	5.0	.50	>10,000	.3	150	3,000	5
TX128H	63 51 55	143 42 0	5.0	5.0	.20	10,000	.2	300	2,000	2
TX130H	63 50 40	143 42 40	>5.0	5.0	.20	>10,000	1.0	200	3,000	2
TX131H	63 57 10	143 24 20	>5.0	2.0	1.00	10,000	2.0	150	2,000	5
TX132H	63 50 12	143 45 10	>5.0	5.0	.70	5,000	.1	150	1,500	5
TX133H	63 53 55	143 35 40	>5.0	5.0	.50	>10,000	.7	150	3,000	2

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s
TX89H	10	70	70	200	30	5	N	150	5	10
TX90H	7	70	50	150	N	15	N	100	5	10
TX91H	N	30	100	50	20	N	N	70	3	15
TX92H	7	70	50	70	20	N	N	100	3	10
DTX92H	7	30	70	70	20	N	N	70	5	15
TX93H	N	50	100	100	50	N	N	70	5	20
TX94H	3	20	70	70	20	N	N	50	5	150
TX95H	3	30	50	70	20	N	N	50	3	150
TX96H	N	30	100	50	30	N	N	50	3	200
TX97H	7	70	100	100	30	N	N	70	7	150
TX98H	N	50	70	70	20	N	N	70	5	15
TX99H	N	30	30	70	20	N	N	70	2	5
TX100H	5	30	70	100	20	N	N	100	5	15
TX101H	N	30	100	50	30	N	N	70	7	20
TX102H	7	70	100	70	30	N	N	70	7	20
TX103H	2	30	100	70	30	N	N	70	5	30
TX104H	2	20	70	70	20	N	N	50	7	10
TX105H	2	30	150	70	20	N	N	100	7	20
TX106H	N	30	70	70	20	N	N	70	3	10
TX107H	N	100	200	70	30	N	N	100	7	30
TX108H	7	30	50	70	N	50	N	70	5	15
TX109H	30	50	70	100	N	100	N	70	5	10
TX110H	2	70	30	150	30	20	N	70	10	10
TX112H	N	30	100	50	30	N	N	50	7	20
TX113H	5	50	150	70	20	N	N	70	15	30
TX114H	2	30	70	70	20	N	N	70	5	15
TX115H	2	30	50	100	20	N	N	50	7	10
TX116H	7	100	100	150	30	10	N	100	15	20
TX117H	2	30	150	50	20	N	N	50	3	20
DTX117H	5	50	100	100	20	10	N	100	3	15
TX118H	2	20	70	70	30	N	N	20	7	15
TX119H	15	200	50	200	50	15	N	150	7	15
TX120H	10	50	70	100	20	N	N	70	3	10
TX121H	N	30	150	100	20	N	N	100	10	30
TX122H	N	70	150	70	20	N	N	100	15	30
TX123H	2	70	200	100	20	5	N	100	10	30
TX124H	5	100	100	100	30	5	N	100	15	30
TX125H	10	50	100	100	20	N	N	70	10	30
TX126H	3	30	70	100	20	10	N	100	7	15
TX127H	15	150	70	150	30	5	N	100	10	30
TX128H	7	30	70	100	20	7	N	70	7	10
TX130H	5	50	100	150	20	N	N	150	7	15
TX131H	10	70	150	70	50	N	N	100	50	30
TX132H	3	70	150	100	100	N	N	100	7	30
TX133H	15	70	150	100	20	30	N	100	7	30

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Na-pct. s	Ga-ppm s
TX89H	N	2,000	70	N	70	1,000	100	.50	N
TX90H	N	700	200	N	30	2,000	200	.50	N
TX91H	N	500	200	N	20	N	200	.30	10
TX92H	N	700	70	N	15	1,000	100	.20	N
DTX92H	N	1,000	100	N	20	1,000	200	.50	10
TX93H	N	100	200	N	30	N	200	.30	10
TX94H	N	200	100	N	30	1,000	150	.50	10
TX95H	N	200	100	N	20	700	150	.50	10
TX96H	N	100	150	N	20	100	500	.30	15
TX97H	N	200	150	N	30	700	150	.30	10
TX98H	N	700	100	N	20	700	300	.30	10
TX99H	N	700	70	N	10	1,500	100	.20	N
TX100H	N	700	150	N	10	700	200	.30	N
TX101H	N	700	150	N	20	100	500	.50	20
TX102H	N	500	150	N	30	300	300	.50	20
TX103H	N	500	150	N	30	100	500	.30	10
TX104H	N	700	70	N	10	700	150	.70	15
TX105H	N	500	150	N	30	300	200	.30	15
TX106H	N	1,500	70	N	10	500	150	.30	N
TX107H	N	500	200	N	30	300	300	.50	15
TX108H	N	1,000	70	N	30	1,000	200	.30	10
TX109H	N	2,000	70	N	30	1,500	200	.50	15
TX110H	N	700	100	N	30	500	150	.50	15
TX112H	N	500	150	N	30	100	300	.30	15
TX113H	N	500	150	N	30	700	500	.30	10
TX114H	N	700	150	N	20	500	700	.30	5
TX115H	N	700	70	N	10	500	150	.50	10
TX116H	5	1,000	150	N	70	500	200	1.00	15
TX117H	N	500	150	N	20	100	300	.50	15
DTX117H	N	2,000	100	N	30	700	150	.30	5
TX118H	N	1,000	70	N	20	500	150	.30	N
TX119H	N	1,000	150	N	70	700	150	.50	N
TX120H	N	1,000	70	N	10	2,000	100	.20	N
TX121H	5	1,000	300	N	30	700	500	.70	20
TX122H	N	1,000	300	N	30	200	500	1.00	20
TX123H	N	1,000	300	N	30	700	300	2.00	20
TX124H	N	500	300	N	50	300	700	.70	20
TX125H	N	700	200	N	30	200	500	.50	20
TX126H	N	3,000	150	N	20	1,000	200	.70	15
TX127H	N	2,000	200	N	50	1,000	200	.50	10
TX128H	N	2,000	70	N	30	1,000	200	.50	10
TX130H	N	2,000	100	N	20	1,500	200	1.00	10
TX131H	7	700	200	N	100	700	1,000	.70	20
TX132H	N	700	150	N	70	300	500	.50	20
TX133H	N	1,000	150	N	50	1,000	500	.50	20

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
TX134H	63 46 15	143 43 40	>5.0	3.0	.50	10,000	1.0	200	2,000	5
TX135H	63 54 15	143 34 30	>5.0	5.0	.30	>10,000	.3	200	3,000	2
TX136H	63 13 55	143 5 0	>5.0	5.0	.50	>10,000	.1	300	2,000	2
TX137H	63 53 10	143 37 50	>5.0	3.0	.70	3,000	.1	100	1,500	5
TX138H	63 12 45	143 5 0	3.0	5.0	.20	10,000	.1	500	3,000	2
TX139H	63 50 15	143 51 50	>5.0	7.0	.30	2,000	.1	200	1,500	2
DTX139H	63 50 15	143 51 50	5.0	3.0	.50	7,000	.2	200	2,000	3
TX140H	63 12 5	143 9 10	>5.0	5.0	.70	3,000	.1	150	1,500	3
TX141H	63 49 20	143 54 20	>5.0	7.0	.50	10,000	.3	200	2,000	3
TX142H	63 8 30	143 16 0	>5.0	7.0	1.00	3,000	.3	200	3,000	3
TX143H	63 47 30	143 54 40	3.0	7.0	.20	3,000	.1	300	1,500	2
TX144H	63 6 0	143 54 50	>5.0	5.0	.50	10,000	.1	300	3,000	5
TX145H	63 5 10	143 59 15	>5.0	5.0	>1.00	3,000	.2	200	3,000	5
TX146H	63 6 40	143 50 20	>5.0	5.0	.50	5,000	.1	500	2,000	5
TX147H	63 8 5	143 56 10	>5.0	10.0	.50	10,000	.2	500	2,000	3
TX148H	63 10 50	143 46 20	>5.0	3.0	>1.00	10,000	.1	500	3,000	5
TX149H	63 8 0	143 50 15	>5.0	1.5	1.00	2,000	.1	300	3,000	10
TX150H	63 14 45	143 47 40	>5.0	5.0	.70	10,000	.2	200	5,000	2
TX151H	63 13 40	143 46 0	>5.0	5.0	.70	7,000	.2	200	5,000	7
TX152H	63 15 40	143 48 0	>5.0	5.0	>1.00	10,000	N	300	5,000	7
TX153H	63 15 20	143 41 10	>5.0	3.0	1.00	2,000	.1	150	3,000	10
TX154H	63 14 10	143 53 40	>5.0	5.0	.70	>10,000	1.0	200	3,000	5
TX155H	63 11 40	143 59 15	>5.0	2.0	1.00	1,500	.1	200	3,000	7
TX156H	63 10 55	144 0 0	>5.0	7.0	.50	2,000	.1	500	3,000	10
TX157H	63 14 50	143 54 35	5.0	2.0	.50	3,000	.5	200	7,000	2
TX158H	63 13 40	143 58 35	>5.0	5.0	.70	7,000	.2	200	3,000	3
TX159H	63 17 20	143 47 10	>5.0	5.0	.70	>10,000	.2	150	3,000	7
TX160H	63 18 15	143 52 0	>5.0	10.0	.70	5,000	1.0	500	5,000	5
TX161H	63 18 30	143 54 15	>5.0	5.0	1.00	7,000	.1	200	3,000	5
TX162H	63 18 45	143 59 20	>5.0	5.0	.50	10,000	.1	500	3,000	3
TX163H	63 20 10	143 56 45	>5.0	5.0	.70	3,000	.2	150	3,000	5
TX164H	63 21 20	144 0 0	>5.0	5.0	1.00	7,000	.1	200	3,000	2
TX165H	63 23 30	143 52 35	>5.0	5.0	.50	3,000	N	100	1,500	7
TX166H	63 57 0	143 1 30	5.0	5.0	.20	>10,000	1.0	200	3,000	3
TX167H	63 57 40	143 35 20	>5.0	10.0	.50	>10,000	.3	300	5,000	7
TX168H	63 59 50	143 39 15	5.0	5.0	.50	>10,000	.2	150	3,000	5
TX169H	63 57 40	143 40 30	5.0	5.0	.70	>10,000	2.0	150	2,000	3
TX170H	63 58 55	143 52 0	3.0	3.0	.20	>10,000	.7	150	3,000	3
TX171H	63 55 20	143 46 25	>5.0	3.0	1.00	10,000	.1	150	3,000	7
TX172H	63 58 20	143 52 40	>5.0	5.0	.70	>10,000	.3	200	3,000	3
TX173H	63 56 5	143 46 0	>5.0	3.0	.70	5,000	.3	150	2,000	5
TX174H	63 57 30	143 54 0	5.0	5.0	.30	>10,000	2.0	200	3,000	3
TX175H	63 54 45	143 53 55	>5.0	2.0	.70	5,000	.1	150	3,000	7
DTX175H	63 54 45	143 53 55	>5.0	2.0	.70	5,000	.3	150	2,000	5
TX176H	63 52 20	143 58 30	5.0	5.0	.50	10,000	.1	300	2,000	3

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Cu-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s
TX134H	7	50	100	500	20	N	N	150	10	15
TX135H	2	30	100	150	20	70	N	100	5	10
TX136H	N	30	70	150	20	N	N	100	5	15
TX137H	N	30	150	70	50	N	N	70	7	30
TX138H	7	20	70	150	20	N	N	30	7	20
TX139H	7	30	100	100	20	5	N	70	7	15
DTX139H	5	30	70	100	20	N	N	70	7	15
TX140H	2	30	150	100	30	N	N	100	7	30
TX141H	15	70	150	150	20	7	N	150	10	20
TX142H	2	50	200	150	50	N	N	150	30	30
TX143H	2	10	70	100	20	5	N	30	7	15
TX144H	N	50	150	150	50	N	N	100	20	20
TX145H	2	70	150	150	70	N	N	100	50	50
TX146H	N	50	150	300	50	N	N	100	20	20
TX147H	7	70	150	300	30	N	N	150	50	15
TX148H	N	70	200	150	100	N	N	150	100	30
TX149H	N	50	150	100	100	N	N	100	30	30
TX150H	3	30	150	150	30	N	N	100	20	30
TX151H	3	50	200	150	150	N	N	70	50	70
TX152H	N	50	150	100	50	N	N	100	<1	70
TX153H	N	50	150	100	100	N	N	100	15	30
TX154H	5	30	100	150	50	N	N	70	15	30
TX155H	2	70	500	100	150	N	N	100	20	50
TX156H	N	30	150	150	50	N	N	70	20	30
TX157H	3	30	150	100	20	N	N	70	15	15
TX158H	5	30	100	150	30	N	N	100	30	30
TX159H	3	70	150	150	70	N	N	100	30	50
TX160H	70	50	150	700	50	10	N	150	100	30
TX161H	2	50	100	150	70	N	N	70	30	50
TX162H	N	30	100	150	20	N	N	70	10	15
TX163H	3	70	150	200	20	5	N	150	20	30
TX164H	N	70	150	100	70	N	N	100	15	50
TX165H	N	30	200	70	20	N	N	100	15	30
TX166H	5	70	100	300	20	N	N	100	5	10
TX167H	20	70	70	300	100	N	N	100	7	20
TX168H	10	30	30	150	20	N	N	70	10	15
TX169H	5	30	70	100	20	5	N	50	10	15
TX170H	10	10	50	150	70	15	N	30	7	15
TX171H	N	30	150	100	50	N	N	70	15	30
TX172H	2	50	150	150	30	N	N	70	10	20
TX173H	2	70	70	150	150	30	N	70	15	30
TX174H	10	70	70	150	50	20	N	100	10	15
TX175H	N	70	100	100	70	10	N	100	10	30
DTX175H	N	70	150	150	70	5	N	100	10	30
TX176H	5	30	70	150	70	30	N	100	7	15

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Na-pct. s	Ga-ppm s
TX134H	N	1,000	200	N	30	700	500	2.00	20
TX135H	N	2,000	100	N	30	1,500	200	.50	10
TX136H	N	700	200	N	20	2,000	200	1.00	15
TX137H	N	700	200	N	30	300	500	1.00	30
TX138H	N	700	70	N	20	1,500	300	2.00	20
TX139H	N	2,000	100	N	20	1,000	200	.50	20
DTX139H	N	1,000	100	N	10	1,500	300	.50	15
TX140H	N	700	300	N	30	700	1,000	1.00	20
TX141H	N	2,000	150	N	30	700	200	.70	15
TX142H	S	2,000	200	N	30	1,000	1,000	1.50	30
TX143H	N	1,000	70	N	20	500	500	1.00	15
TX144H	N	2,000	150	N	30	1,500	700	.50	15
TX145H	S	500	500	N	70	700	1,000	.50	30
TX146H	N	1,000	100	N	50	1,500	300	1.00	20
TX147H	N	2,000	100	N	30	3,000	300	1.00	20
TX148H	10	500	300	N	50	700	1,000	2.00	70
TX149H	7	500	200	N	70	300	1,000	.30	30
TX150H	N	700	300	N	30	2,000	300	1.00	20
TX151H	S	500	300	N	100	1,000	700	2.00	70
TX152H	N	700	500	N	50	200	>1,000	.10	5
TX153H	S	700	300	N	70	200	1,000	1.00	30
TX154H	S	700	200	N	30	2,000	500	1.00	20
TX155H	S	500	300	N	70	200	1,000	.70	30
TX156H	7	300	150	N	30	700	300	2.00	70
TX157H	N	2,000	100	N	30	2,000	500	.50	20
TX158H	N	1,000	200	N	30	2,000	500	1.00	30
TX159H	S	700	300	N	70	500	700	1.00	30
TX160H	S	500	200	N	70	5,000	700	.50	30
TX161H	S	500	200	N	70	500	1,000	1.00	50
TX162H	N	1,500	150	N	30	700	300	.70	10
TX163H	S	1,000	300	N	70	500	1,000	3.00	50
TX164H	N	1,000	300	N	70	500	1,000	1.00	20
TX165H	S	500	150	N	30	100	300	1.00	30
TX166H	N	700	100	N	30	700	200	3.00	10
TX167H	N	3,000	150	N	150	1,500	200	1.00	10
TX168H	N	1,000	150	N	30	1,500	300	.50	15
TX169H	N	700	150	100	20	500	200	1.00	30
TX170H	N	2,000	70	N	30	1,500	150	.50	10
TX171H	S	1,500	300	N	30	1,000	1,000	.70	30
TX172H	S	1,000	300	100	20	2,000	1,000	.70	10
TX173H	S	700	300	N	70	200	200	.70	20
TX174H	N	1,000	200	200	20	2,000	200	.50	10
TX175H	S	1,000	200	200	70	200	700	.70	20
DTX175H	S	1,000	200	100	50	200	500	1.00	20
TX176H	N	2,000	100	100	30	1,000	200	.50	10

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
TX177H	63 56 5	143 56 50	5.0	3.0	.50	>10,000	.3	150	2,000	7
TX178H	63 46 40	143 38 0	>5.0	5.0	>1.00	5,000	.1	150	2,000	5
TX179H	63 45 55	143 57 10	>5.0	3.0	1.00	5,000	.1	150	1,500	5
TX180H	63 49 38	143 37 40	>5.0	5.0	.70	>10,000	.2	300	3,000	2
TX181H	63 47 5	143 39 10	>5.0	5.0	1.00	7,000	.2	150	2,000	3
TX182HA	63 48 25	143 50 0	>5.0	5.0	1.00	2,000	.1	150	2,000	5
TX182HB	63 48 25	143 50 0	>5.0	5.0	1.00	10,000	.3	150	2,000	5
TX183H	63 41 2	143 44 50	>5.0	5.0	.70	7,000	.1	200	3,000	3
TX184H	63 43 50	143 48 0	3.0	10.0	.20	>10,000	.2	700	3,000	2
TX185H	63 42 40	143 46 20	>5.0	5.0	.70	10,000	.1	150	2,000	5
TX186H	63 43 30	143 54 40	2.0	7.0	.20	7,000	.1	500	2,000	N
TX187H	63 43 40	143 51 45	>5.0	7.0	>1.00	10,000	.1	200	2,000	3
TX188H	63 41 50	143 52 30	>5.0	5.0	.70	>10,000	.7	200	3,000	2
DTX186H	63 41 50	143 52 30	5.0	5.0	.70	>10,000	.7	200	3,000	2
TX189H	63 39 40	143 46 50	>5.0	5.0	1.00	10,000	N	150	2,000	2
TX190H	63 44 55	143 39 10	>5.0	7.0	1.00	5,000	N	150	2,000	5
TX191H	63 38 50	143 43 0	>5.0	5.0	1.00	3,000	N	150	1,500	3
TX192H	63 44 7	143 39 0	>5.0	2.0	1.00	5,000	.1	100	1,000	2
TX193H	63 42 45	143 32 55	>5.0	2.0	1.00	1,500	.1	100	1,500	5
TX194H	63 38 15	143 33 30	>5.0	5.0	.70	10,000	.1	200	2,000	2
TX195H	63 43 30	143 33 35	>5.0	5.0	>1.00	2,000	.1	150	2,000	5
TX196H	63 54 0	143 2 35	>5.0	7.0	.50	>10,000	.3	200	3,000	3
TX197H	63 36 15	143 33 35	5.0	5.0	.50	5,000	.1	150	3,000	3
TX198H	63 52 55	143 4 45	>5.0	5.0	.20	>10,000	.2	200	3,000	3
TX199H	63 53 7	143 1 39	>5.0	5.0	.20	10,000	.1	200	2,000	3
TX200H	63 52 14	143 0 25	5.0	5.0	.10	>10,000	.1	200	2,000	2
TX201H	63 51 15	143 1 0	>5.0	2.0	1.00	3,000	.1	100	2,000	7
TX202H	63 51 40	142 57 22	>5.0	7.0	.30	>10,000	.1	200	2,000	2
TX204H	63 52 45	142 52 10	>5.0	7.0	.70	>10,000	N	150	1,500	3
TX205H	63 52 25	142 54 45	>5.0	3.0	.50	3,000	.1	150	1,500	3
TX206H	63 54 2	143 9 43	>5.0	5.0	.20	>10,000	.2	200	3,000	3
TX207H	63 53 40	142 51 10	>5.0	5.0	>1.00	5,000	.1	100	2,000	5
TX208H	63 51 25	143 10 30	>5.0	5.0	.10	>10,000	.1	150	2,000	3
TX209H	63 51 20	143 7 0	5.0	7.0	.10	>10,000	.1	300	1,500	N
TX210H	63 49 40	143 14 30	>5.0	3.0	.70	10,000	.7	150	1,500	5
TX211H	63 50 25	143 7 45	>5.0	5.0	.50	>10,000	.7	300	3,000	5
TX212H	63 38 40	141 14 10	>5.0	5.0	.70	>10,000	.5	300	3,000	10
TX213H	63 50 5	143 10 15	>5.0	5.0	1.00	>10,000	.1	150	3,000	3
TX214H	63 48 20	142 53 35	>5.0	3.0	>1.00	2,000	N	100	2,000	3
TX215H	63 50 55	142 58 30	>5.0	5.0	1.00	3,000	N	100	2,000	5
TX216H	63 49 19	142 54 17	>5.0	5.0	1.00	7,000	.1	150	2,000	3
TX218H	63 49 30	142 50 0	>5.0	5.0	1.00	7,000	.1	100	2,000	5
TX219H	63 53 15	142 45 30	3.0	7.0	.20	>10,000	.1	200	3,000	2
TX220H	63 56 40	142 54 5	5.0	5.0	.50	>10,000	.2	200	2,000	3
TX221H	63 57 0	142 45 50	>5.0	3.0	>1.00	5,000	N	150	2,000	3

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Ca-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s
TX177H	N	70	70	150	300	30	N	70	10	30
TX178H	N	70	500	100	70	30	N	100	15	50
TX179H	N	30	100	100	50	5	N	70	7	30
TX180H	7	30	100	100	50	N	N	70	7	15
TX181H	N	30	150	100	70	N	N	70	15	30
TX182HA	N	30	150	100	70	7	N	70	15	30
TX182HB	N	50	100	100	50	N	N	70	15	30
TX183H	N	50	100	150	50	7	N	70	15	20
TX184H	10	20	50	100	20	7	N	50	7	10
TX185H	5	30	150	100	50	10	N	100	15	30
TX186H	N	20	30	100	20	N	N	30	5	10
TX187H	10	70	300	150	50	7	N	100	7	50
TX188H	10	30	200	100	30	N	N	100	7	20
DTX188H	7	30	100	100	30	N	N	100	7	20
TX189H	N	30	100	100	20	N	N	70	7	50
TX190H	N	70	200	100	30	N	N	100	10	30
TX191H	N	70	200	100	30	10	N	100	7	30
TX192H	5	50	100	100	50	N	N	70	10	30
TX193H	N	30	150	70	50	N	N	70	10	30
TX194H	N	30	100	150	30	5	N	70	7	15
TX195H	N	70	300	100	50	7	N	150	10	30
TX196H	5	30	70	200	20	20	N	100	7	15
TX197H	N	30	150	150	20	N	N	100	7	15
TX198H	10	100	70	150	20	15	N	100	7	10
TX199H	N	30	50	200	20	10	N	70	15	15
TX200H	N	30	150	500	20	10	N	70	10	10
TX201H	N	30	150	70	20	N	N	70	10	30
TX202H	N	30	150	200	20	15	N	100	10	10
TX204H	N	70	100	150	20	5	N	100	7	20
TX205H	5	30	100	150	20	N	N	70	7	15
TX206H	7	150	50	200	30	15	N	100	7	10
TX207H	N	70	500	70	30	5	N	100	7	50
TX208H	7	100	50	150	20	15	N	100	5	10
TX209H	3	20	100	150	20	70	N	70	7	10
TX210H	10	70	150	100	20	N	N	100	7	20
TX211H	7	50	150	200	20	N	N	100	7	20
TX212H	7	150	200	500	30	30	N	150	20	30
TX213H	N	100	500	100	30	5	N	150	10	50
TX214H	N	70	200	70	20	N	N	150	7	50
TX215H	N	50	150	70	70	N	N	100	10	30
TX216H	N	70	200	70	20	N	N	150	7	30
TX218H	N	70	150	70	20	N	N	100	7	30
TX219H	7	70	70	150	N	5	N	70	3	10
TX220H	5	30	70	150	20	N	N	30	10	20
TX221H	N	70	150	70	30	N	N	150	10	50

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Na-pct. s	Ga-ppm s
TX177H	N	1,000	150	100	100	200	200	.70	10
TX178H	5	1,000	300	100	70	700	1,000	2.00	20
TX179H	5	1,000	200	100	50	200	500	1.00	20
TX180H	N	1,500	150	N	30	2,000	700	1.00	N
TX181H	5	700	300	100	30	200	1,000	1.00	30
TX182HA	5	700	300	100	50	200	1,000	.70	30
TX182HB	5	700	300	N	30	700	500	.70	20
TX183H	N	1,500	150	100	30	1,000	300	.70	30
TX184H	N	3,000	70	100	20	2,000	100	.50	10
TX185H	5	700	300	200	30	700	500	.50	20
TX186H	N	2,000	50	N	10	700	100	.30	5
TX187H	5	700	300	N	50	700	1,000	2.00	20
TX188H	N	1,000	150	N	30	2,000	200	.50	10
DTX188H	N	1,000	150	100	30	1,000	200	.50	15
TX189H	N	1,000	200	N	50	100	500	.70	10
TX190H	N	1,000	200	N	50	300	700	1.00	30
TX191H	N	700	500	200	30	300	1,000	1.00	30
TX192H	N	700	200	N	70	300	700	.50	10
TX193H	N	700	300	N	30	100	700	.50	20
TX194H	N	2,000	150	100	20	1,000	300	2.00	20
TX195H	N	700	300	500	50	300	1,000	1.00	30
TX196H	N	700	150	300	20	2,000	200	.50	10
TX197H	N	1,000	100	N	20	1,000	150	.50	15
TX198H	N	1,000	100	N	20	3,000	150	.50	5
TX199H	N	1,000	70	150	20	700	200	2.00	20
TX200H	N	700	70	N	10	1,000	150	3.00	10
TX201H	N	700	200	100	30	300	500	.50	20
TX202H	N	700	200	100	10	1,000	200	1.00	5
TX204H	N	1,000	200	200	20	1,000	150	1.00	20
TX205H	N	700	150	N	20	200	300	1.00	30
TX206H	N	1,000	300	N	50	1,000	150	.50	5
TX207H	N	700	500	100	50	300	1,000	2.00	30
TX208H	N	700	150	N	20	1,000	100	.50	N
TX209H	N	700	70	N	20	1,000	150	1.00	15
TX210H	N	700	150	100	30	500	300	.50	20
TX211H	N	700	200	N	30	1,000	300	1.00	20
TX212H	N	1,000	300	N	100	700	300	1.00	15
TX213H	N	700	300	100	70	500	500	1.00	20
TX214H	N	500	300	N	50	300	700	.50	20
TX215H	N	700	200	N	30	300	700	1.00	30
TX216H	N	700	300	N	30	700	700	.70	20
TX218H	N	700	300	N	30	300	700	.70	20
TX219H	N	1,000	70	150	10	700	150	.70	5
TX220H	N	1,500	100	N	30	1,500	150	.70	20
TX221H	N	700	300	N	50	300	700	.70	20

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
TX222H	63 58 15	142 46 40	5.0	3.0	.20	>10,000	.3	300	3,000	2
TX223H	63 57 25	142 44 0	>5.0	5.0	1.00	>10,000	.2	150	2,000	3
TX224H	63 59 25	142 43 5	>5.0	5.0	.70	>10,000	.7	200	3,000	N
TX225H	63 56 0	142 41 0	>5.0	3.0	1.00	5,000	.1	100	1,500	5
TX226H	63 58 25	142 17 45	5.0	5.0	.50	>10,000	.1	200	3,000	2
TX227H	63 55 55	142 34 30	>5.0	5.0	1.00	2,000	.1	100	1,500	7
TX228H	63 57 40	142 18 10	5.0	5.0	.70	5,000	.1	300	2,000	3
TX229H	63 58 0	142 31 40	5.0	5.0	.50	10,000	.1	150	3,000	5
TX230H	63 57 40	142 11 30	>5.0	2.0	1.00	2,000	.1	100	1,500	7
TX231H	63 56 5	142 21 45	>5.0	5.0	1.00	10,000	.2	200	2,000	5
TX232H	63 59 30	142 4 0	>5.0	5.0	1.00	10,000	.3	150	2,000	5
TX233H	63 54 55	142 20 50	>5.0	3.0	.10	>10,000	.3	150	2,000	7
TX234H	63 51 35	142 1 15	>5.0	3.0	1.00	3,000	.1	100	2,000	5
TX235H	63 55 10	142 9 15	>5.0	5.0	.70	>10,000	.1	150	3,000	3
TX236H	63 53 20	142 11 0	5.0	1.0	.50	10,000	.5	300	3,000	3
TX237HA	63 56 35	142 4 10	>5.0	3.0	1.00	2,000	.1	150	1,500	5
TX237HB	63 56 35	142 4 10	5.0	5.0	.70	>10,000	1.0	300	2,000	3
TX238H	63 53 5	142 18 50	>5.0	3.0	.50	>10,000	.7	100	2,000	7
TX239H	63 52 35	142 2 15	5.0	7.0	.30	5,000	.1	300	3,000	2
TX241H	63 51 35	142 7 30	>5.0	5.0	.70	>10,000	.1	200	3,000	5
TX243H	63 50 50	142 16 50	>5.0	5.0	>1.00	5,000	.2	100	2,000	5
TX244H	63 47 15	142 26 10	5.0	5.0	.20	>10,000	.5	150	2,000	7
TX245H	63 52 50	142 29 20	>5.0	5.0	.70	>10,000	.1	200	3,000	3
TX246H	63 47 25	142 18 40	>5.0	5.0	.50	>10,000	.2	150	3,000	5
TX247H	63 49 55	142 28 10	>5.0	2.0	.70	7,000	.1	70	2,000	5
TX249H	63 48 45	142 24 10	>5.0	3.0	1.00	10,000	N	200	2,000	7
TX250H	63 48 15	142 0 40	>5.0	3.0	1.00	7,000	.1	150	2,000	5
TX251H	63 46 20	142 19 15	>5.0	5.0	.70	>10,000	.1	150	3,000	5
TX252H	63 43 40	142 0 40	>5.0	5.0	1.00	>10,000	.1	150	3,000	7
TX253H	63 45 15	142 6 45	>5.0	5.0	>1.00	7,000	.1	150	3,000	3
TX254H	63 42 45	142 5 50	5.0	10.0	.20	>10,000	.7	200	3,000	3
TX255H	63 45 40	142 3 0	>5.0	5.0	>1.00	>10,000	.1	150	2,000	5
TX256H	63 59 45	141 55 20	>5.0	5.0	.70	10,000	.3	150	2,000	5
DTX256H	63 58 25	142 16 10	5.0	2.0	.50	10,000	.1	100	2,000	3
TX257H	63 43 35	142 16 10	>5.0	7.0	.50	>10,000	1.5	200	3,000	5
DTX257H	63 58 25	142 16 10	>5.0	7.0	.50	>10,000	3.0	200	3,000	10
TX259H	64 0 0	141 47 0	2.0	1.0	.10	2,000	N	150	3,000	2
TX260H	63 54 40	141 51 10	>5.0	5.0	.70	>10,000	.2	200	5,000	3
TX261H	63 56 45	141 54 20	>5.0	5.0	.70	>10,000	.2	200	3,000	3
TX262H	63 54 25	141 58 30	>5.0	3.0	.70	10,000	.1	200	3,000	7
TX263H	63 56 0	141 54 18	>5.0	7.0	.70	>10,000	.3	200	3,000	7
TX264H	63 49 10	141 47 0	>5.0	5.0	>1.00	>10,000	.1	200	3,000	7
TX265H	63 52 15	141 52 0	>5.0	3.0	1.00	10,000	.1	70	3,000	7
TX266H	63 49 50	141 47 0	>5.0	5.0	>1.00	3,000	N	200	3,000	7
TX267H	63 51 45	141 53 25	>5.0	5.0	>1.00	3,000	.1	70	2,000	7

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Ca-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s
TX222H	7	50	100	150	20	5	N	100	5	10
TX223H	5	70	200	100	20	N	N	150	7	30
TX224H	15	70	70	150	20	N	N	150	7	10
TX225H	5	70	150	100	20	N	N	100	7	30
TX226H	20	70	100	150	20	30	N	150	7	15
TX227H	N	50	150	70	20	N	N	70	7	30
TX228H	N	50	70	150	20	5	N	100	7	15
TX229H	N	30	70	100	20	N	N	150	3	15
TX230H	N	30	100	70	20	5	N	70	7	30
TX231H	2	50	100	150	20	10	N	150	15	15
TX232H	2	100	200	100	30	N	N	150	7	30
TX233H	5	100	30	300	30	10	N	100	7	15
TX234H	N	70	200	100	20	N	N	100	7	50
TX235H	N	30	150	100	20	N	N	100	7	20
TX236H	10	20	50	70	20	2	N	30	20	20
TX237HA	N	50	200	70	20	N	N	100	7	30
TX237HB	5	50	70	150	20	10	N	150	7	15
TX238H	5	70	70	300	30	10	N	150	7	30
TX239H	N	30	70	100	20	30	N	70	5	10
TX241H	5	50	150	100	20	N	N	100	10	30
TX243H	3	100	200	100	20	N	N	150	7	30
TX244H	5	30	150	100	20	N	N	70	7	20
TX245H	2	30	100	70	50	N	N	70	7	20
TX246H	7	50	70	200	50	5	N	70	10	15
TX247H	2	30	70	150	70	N	N	70	7	20
TX249H	2	150	200	100	50	5	N	70	10	50
TX250H	2	50	150	100	50	N	N	70	10	30
TX251H	7	70	150	150	70	5	N	70	7	30
TX252H	5	100	150	150	50	N	N	70	7	30
TX253H	7	50	200	100	50	7	N	70	15	30
TX254H	20	30	70	200	30	5	N	70	20	15
TX255H	2	70	300	100	70	N	N	100	10	50
TX256H	5	50	150	100	20	N	N	70	7	20
DTX256H	2	30	70	70	20	N	N	70	5	15
TX257H	30	50	100	200	30	7	N	100	20	15
DTX257H	50	30	70	200	30	5	N	70	70	30
TX259H	N	5	70	70	20	N	N	30	3	5
TX260H	20	50	100	150	20	N	N	150	7	15
TX261H	7	30	100	150	20	N	N	100	7	15
TX262H	2	30	150	70	50	N	N	70	10	30
TX263H	5	50	70	300	50	30	N	150	7	20
TX264H	N	70	200	150	70	N	N	100	15	50
TX265H	N	70	150	150	70	N	N	70	7	20
TX266H	N	70	200	70	70	7	N	100	15	30
TX267H	N	70	300	70	50	N	N	100	10	30

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Na-pct. s	Ga-ppm s
TX222H	N	1,000	70	100	20	1,000	150	.70	N
TX223H	N	700	300	200	30	1,000	500	2.00	20
TX224H	N	1,500	100	N	10	2,000	150	.50	10
TX225H	N	700	200	100	30	200	700	.50	20
TX226H	N	2,000	150	N	30	1,000	200	.50	10
TX227H	N	1,000	300	100	30	100	1,000	1.50	30
TX228H	N	1,500	150	N	20	1,000	300	.50	10
TX229H	N	1,500	100	100	20	700	300	.50	10
TX230H	N	700	200	150	30	100	500	1.00	20
TX231H	N	1,500	300	N	30	1,000	150	2.00	30
TX232H	N	1,000	300	N	50	300	500	.70	20
TX233H	N	1,000	200	100	50	700	70	.70	10
TX234H	N	700	300	100	30	200	500	.70	20
TX235H	N	700	200	N	20	700	500	.70	10
TX236H	N	1,000	100	N	20	3,000	200	.20	10
TX237HA	N	500	200	100	30	200	500	.70	20
TX237HB	N	1,000	200	100	20	1,500	300	1.00	15
TX238H	N	1,500	200	100	70	300	200	.50	15
TX239H	N	5,000	70	200	10	1,500	150	.50	10
TX241H	N	2,000	150	100	30	1,500	300	1.00	15
TX243H	N	700	300	100	50	300	700	.50	15
TX244H	N	700	100	100	30	500	300	1.00	20
TX245H	N	1,000	150	200	30	1,000	300	1.00	30
TX246H	N	1,000	150	N	30	1,500	300	.70	30
TX247H	N	1,000	150	N	50	300	300	.70	20
TX249H	N	500	700	N	70	300	500	.70	30
TX250H	N	700	300	200	70	300	700	1.00	30
TX251H	N	1,000	300	N	70	700	300	1.00	20
TX252H	N	1,500	300	N	100	700	500	.70	20
TX253H	N	2,000	500	N	50	500	1,000	2.00	30
TX254H	N	1,500	100	N	50	3,000	200	1.00	30
TX255H	N	700	300	N	70	300	1,000	1.00	30
TX256H	N	1,000	200	N	30	300	300	1.00	30
DTX256H	N	700	100	150	30	500	150	.50	20
TX257H	N	1,000	300	200	30	2,000	300	2.00	20
DTX257H	N	2,000	200	N	70	1,500	150	2.00	30
TX259H	N	2,000	30	N	N	500	50	.70	10
TX260H	N	2,000	150	N	20	1,500	300	.50	10
TX261H	N	1,500	150	N	30	1,500	300	.70	15
TX262H	N	1,000	200	N	50	1,000	700	.50	20
TX263H	N	2,000	200	200	50	700	300	2.00	30
TX264H	7	700	300	N	70	700	1,000	1.00	30
TX265H	N	700	200	N	50	500	1,000	1.00	20
TX266H	5	700	300	200	70	300	1,000	1.00	30
TX267H	N	700	300	N	30	300	1,000	1.00	20

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
TX268H	63 49 10	141 51 0	5.0	5.0	.50	>10,000	2.0	150	3,000	5
TX269H	63 52 36	141 55 50	>5.0	5.0	>1.00	7,000	N	300	2,000	5
TX270H	63 46 5	141 58 0	>5.0	3.0	.70	10,000	.3	150	3,000	3
TX271HA	63 49 20	141 58 40	>5.0	5.0	>1.00	3,000	N	100	3,000	7
TX271HB	63 49 20	141 58 40	5.0	5.0	.70	5,000	N	300	2,000	2
TX273H	63 47 50	141 58 10	5.0	5.0	.50	10,000	.1	200	3,000	5
TX274H	63 33 35	143 45 32	>5.0	10.0	.50	>10,000	.1	150	3,000	N
TX275H	63 46 12	141 39 10	>5.0	3.0	>1.00	7,000	N	100	2,000	7
TX276H	63 33 24	143 36 5	5.0	5.0	.50	10,000	N	500	1,500	2
TX277H	63 47 5	141 39 15	3.0	5.0	.10	>10,000	.1	300	2,000	2
TX278H	63 32 5	143 41 10	>5.0	3.0	1.00	3,000	.1	150	2,000	5
TX279H	63 36 0	143 41 50	>5.0	5.0	>1.00	5,000	.1	100	2,000	5
TX280H	63 33 0	143 39 10	>5.0	10.0	.70	5,000	N	300	1,500	2
TX281H	63 34 47	143 43 0	5.0	5.0	.20	10,000	.2	300	2,000	3
TX282H	63 30 45	143 33 25	>5.0	7.0	.70	2,000	.2	200	2,000	3
TX283H	63 27 42	143 32 22	>5.0	7.0	.70	>10,000	.5	300	3,000	2
TX284H	63 29 40	143 32 10	>5.0	3.0	>1.00	1,500	N	100	1,500	3
DTX284H	63 29 40	143 32 10	>5.0	3.0	.70	5,000	N	100	1,500	3
TX286H	63 28 15	143 36 10	>5.0	3.0	1.00	3,000	.1	70	2,000	5
TX287H	63 25 58	143 44 24	>5.0	5.0	.10	>10,000	N	200	2,000	3
TX288H	63 27 50	143 38 45	>5.0	5.0	.70	>10,000	2.0	200	3,000	15
TX289H	63 58 30	141 39 50	>5.0	3.0	.70	10,000	1.0	100	3,000	3
TX290H	63 27 45	143 47 0	5.0	5.0	.20	10,000	.1	300	2,000	2
TX291H	63 56 45	141 42 40	3.0	5.0	.50	7,000	.2	300	3,000	3
TX292H	63 58 15	141 33 40	>5.0	5.0	1.00	7,000	.1	150	3,000	5
TX293H	63 51 45	141 39 10	5.0	3.0	.50	>10,000	.1	200	3,000	3
DTX293H	63 51 45	141 39 10	>5.0	3.0	.50	>10,000	.1	200	3,000	3
TX294H	63 56 5	141 39 10	>5.0	5.0	>1.00	10,000	.1	150	3,000	5
TX296H	63 55 20	141 42 30	>5.0	3.0	1.00	10,000	.1	150	3,000	5
TX297H	63 52 55	141 42 10	>5.0	5.0	>1.00	5,000	.2	100	3,000	7
TX298H	63 54 35	141 33 40	5.0	7.0	.50	>10,000	.2	200	3,000	2
TX300H	63 53 30	141 31 15	>5.0	5.0	.70	>10,000	.7	200	7,000	N
TX301H	63 45 30	141 49 5	>5.0	5.0	.70	>10,000	.7	150	2,000	5
TX302H	63 46 10	141 43 5	2.0	2.0	.20	>10,000	1.0	200	3,000	5
TX303H	63 46 10	141 51 20	5.0	2.0	.30	10,000	.1	200	2,000	7
TX304H	63 44 35	141 51 15	1.0	2.0	.10	>10,000	.1	200	2,000	2
TX305H	63 43 32	141 23 5	3.0	2.0	.10	>10,000	<.1	150	1,000	N
TX306H	63 45 0	141 20 30	3.0	2.0	.20	>10,000	1.0	200	1,000	N
DTX306H	63 45 0	141 20 30	2.0	2.0	.05	>10,000	1.0	200	2,000	2
TX307H	63 47 52	141 2 32	3.0	2.0	.50	>10,000	.7	200	5,000	N
TX308H	63 45 50	141 21 20	3.0	2.0	.10	>10,000	1.0	300	5,000	2
TX309H	63 47 10	141 3 15	5.0	2.0	.50	>10,000	2.0	150	2,000	7
TX310H	63 44 35	141 21 52	3.0	2.0	.50	>10,000	.1	200	3,000	2
TX311H	63 46 45	141 11 50	>5.0	2.0	1.00	>10,000	.7	70	3,000	N
TX312H	63 43 5	141 13 45	3.0	5.0	.20	>10,000	.7	300	5,000	2

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s
TX268H	10	50	100	200	50	N	N	100	7	20
TX269H	N	70	150	100	50	N	N	70	10	30
TX270H	7	70	150	150	20	30	N	100	7	20
TX271HA	N	70	500	100	150	7	N	150	10	50
TX271HB	N	30	150	150	30	10	N	70	10	20
TX273H	7	50	100	200	30	30	N	150	7	15
TX274H	N	300	70	200	20	30	N	150	5	15
TX275H	N	70	200	100	70	10	N	150	15	30
TX276H	N	30	70	150	30	30	N	70	10	15
TX277H	N	30	70	150	20	5	N	70	5	10
TX278H	7	70	200	150	70	5	N	150	10	30
TX279H	N	70	300	150	70	7	N	100	7	30
TX280H	N	50	150	70	20	5	N	70	3	15
TX281H	7	30	70	200	20	N	N	70	10	10
TX282H	7	50	150	150	20	30	N	70	10	20
TX283H	20	50	100	300	20	7	N	150	15	15
TX284H	N	70	500	70	100	7	N	150	7	50
DTX284H	N	50	100	70	20	N	N	100	7	30
TX286H	5	70	150	150	150	N	N	150	7	30
TX287H	N	30	50	100	30	15	N	50	7	15
TX288H	10	100	150	700	150	100	N	150	15	30
TX289H	5	50	200	100	20	N	N	100	7	15
TX290H	N	30	70	200	20	20	N	70	10	10
TX291H	7	20	30	150	20	10	N	150	5	10
TX292H	N	70	200	70	30	5	N	100	10	30
TX293H	5	30	100	100	20	7	N	100	15	15
DTX293H	N	30	150	70	30	7	N	100	7	15
TX294H	5	70	200	100	20	5	N	150	7	50
TX296H	3	70	200	100	30	10	N	100	10	50
TX297H	3	70	200	150	50	5	N	150	7	50
TX298H	20	50	100	300	20	15	N	150	7	15
TX300H	N	30	70	150	N	5	N	50	15	10
TX301H	N	50	100	100	N	5	N	100	20	30
TX302H	N	20	30	200	N	5	N	100	5	10
TX303H	10	70	50	200	50	7	N	100	10	30
TX304H	N	10	30	70	N	N	N	70	15	N
TX305H	15	70	20	200	N	N	N	70	15	10
TX306H	N	15	30	300	N	5	N	70	10	15
DTX306H	N	20	20	100	N	5	N	50	3	7
TX307H	10	100	30	300	20	10	N	70	15	7
TX308H	10	30	30	150	N	5	N	100	5	10
TX309H	20	50	70	100	20	N	N	100	10	20
TX310H	N	20	70	100	N	2	N	70	7	20
TX311H	N	100	200	150	30	7	N	200	15	30
TX312H	5	50	70	200	30	15	N	100	10	10

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Na-pct. s	Ga-ppm s
TX268H	N	1,500	150	N	30	1,000	300	3.00	30
TX269H	N	700	300	N	30	200	300	1.00	20
TX270H	N	150	200	200	30	700	300	1.00	15
TX271HA	N	150	300	150	70	300	1,000	5.00	30
TX271HB	N	150	200	150	30	1,500	300	.70	10
TX273H	N	300	150	150	50	1,000	200	1.00	10
TX274H	N	300	300	150	30	500	200	.70	N
TX275H	5	150	500	300	50	300	500	1.00	30
TX276H	N	5,000	150	200	20	1,000	200	.30	10
TX277H	N	700	100	100	20	1,000	70	.50	10
TX278H	N	1,000	300	N	50	700	300	.70	30
TX279H	N	500	500	200	30	300	500	1.00	20
TX280H	N	5,000	100	150	30	200	300	5.00	10
TX281H	N	1,500	100	300	30	1,500	100	.70	20
TX282H	N	1,500	150	150	30	1,000	300	.70	15
TX283H	N	1,000	150	N	30	2,000	300	1.00	20
TX284H	N	500	300	150	50	200	1,000	1.00	20
DTX284H	N	500	200	150	30	300	500	.50	15
TX286H	N	700	200	N	70	200	300	.50	15
TX287H	N	1,000	70	150	30	700	100	.30	10
TX288H	N	1,500	200	N	100	700	300	.70	20
TX289H	N	1,500	300	N	30	1,000	500	2.00	30
TX290H	N	2,000	70	100	20	700	150	1.00	15
TX291H	N	1,500	70	100	20	1,500	150	.30	10
TX292H	N	500	500	200	30	200	1,000	1.00	30
TX293H	N	2,000	150	N	30	2,000	300	.50	15
DTX293H	15	1,500	150	N	20	1,500	300	.70	15
TX294H	N	1,000	300	N	30	700	1,000	.70	20
TX296H	N	1,000	300	500	50	700	500	1.00	30
TX297H	N	1,500	300	200	70	200	500	2.00	30
TX298H	N	1,000	200	100	30	1,500	200	1.00	15
TX300H	N	1,500	200	N	20	2,000	70	1.00	20
TX301H	5	1,500	200	N	30	700	300	1.00	50
TX302H	N	1,500	150	N	20	1,500	150	.30	N
TX303H	N	1,500	200	N	50	700	200	.50	30
TX304H	N	1,500	70	N	N	2,000	50	.30	15
TX305H	N	500	150	N	N	3,000	70	.50	N
TX306H	N	700	150	N	20	2,000	100	.50	20
DTX306H	N	1,000	150	N	N	2,000	70	.30	N
TX307H	N	1,500	150	N	70	3,000	50	.50	N
TX308H	N	2,000	150	N	10	3,000	70	.30	20
TX309H	5	1,000	200	N	30	2,000	500	.50	30
TX310H	5	1,500	150	N	30	2,000	100	.50	30
TX311H	N	2,000	500	N	50	200	300	.50	N
TX312H	N	1,500	150	N	30	3,000	100	.30	20

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
TX314H	63 43 2	141 5 45	2.0	2.0	.10	>10,000	1.5	200	3,000	2
TX315H	63 42 20	141 10 15	3.0	2.0	.50	>10,000	.1	150	3,000	5
TX316H	63 42 10	141 5 40	3.0	3.0	.20	>10,000	.5	150	1,500	7
TX317H	63 41 30	141 6 25	5.0	1.0	.70	>10,000	.5	150	1,500	5
TX319H	63 39 30	141 0 40	3.0	2.0	.50	>10,000	.1	200	3,000	7
TX320H	63 59 10	141 0 20	5.0	5.0	.50	>10,000	1.5	200	7,000	5
TX321H	63 59 10	141 9 0	>5.0	1.0	.50	10,000	.7	200	3,000	7
TX322H	63 55 7	141 10 51	3.0	2.0	.20	>10,000	.1	200	1,000	2
TX323H	63 59 58	141 8 51	5.0	2.0	1.00	3,000	.1	150	2,000	5
TX324H	63 54 33	141 12 30	3.0	2.0	.20	>10,000	.5	500	3,000	2
TX325H	63 57 15	141 0 0	2.0	2.0	.10	7,000	.2	300	7,000	N
TX326H	63 54 22	141 6 56	5.0	1.0	.20	>10,000	.5	500	2,000	5
TX327H	63 56 20	141 8 0	5.0	10.0	.50	>10,000	.2	100	7,000	N
TX328H	63 53 58	141 3 2	2.0	2.0	.10	>10,000	.3	100	5,000	5
TX329H	63 54 35	141 1 50	3.0	1.5	.50	10,000	3.0	150	2,000	5
TX330H	63 52 0	141 8 22	3.0	2.0	.20	>10,000	.7	150	5,000	2
TX331H	63 52 45	141 6 0	>5.0	2.0	1.00	10,000	.7	100	5,000	N
DTX331H	63 52 45	141 6 0	5.0	2.0	1.00	7,000	1.5	150	3,000	2
TX332H	63 51 14	141 10 29	3.0	3.0	.20	7,000	.7	200	5,000	N
TX333H	63 51 15	141 13 10	2.0	1.0	.20	10,000	.5	500	7,000	1
TX334HB	63 50 37	141 13 12	3.0	1.0	.30	10,000	.5	300	1,500	1
TX334HA	63 50 37	141 13 12	3.0	3.0	.20	5,000	.7	200	7,000	N
TX335H	63 49 20	141 15 0	3.0	1.5	.50	3,000	.2	100	2,000	5
TX336H	63 51 40	141 21 18	3.0	1.5	.50	>10,000	.3	500	3,000	N
TX338H	63 52 32	141 21 0	>5.0	3.0	1.00	5,000	.1	150	3,000	3
TX339H	63 48 45	141 28 20	5.0	1.0	.70	7,000	.7	150	2,000	7
TX340H	63 53 18	141 24 7	2.0	2.0	.10	7,000	.5	500	7,000	N
TX341H	63 57 55	141 21 5	2.0	1.0	.20	>10,000	3.0	150	10,000	N
TX342H	63 57 16	141 32 16	3.0	2.0	.20	>10,000	.5	150	5,000	2
TX343H	63 57 12	141 21 47	>5.0	1.0	.50	7,000	.5	100	1,500	3
TX344H	63 50 55	141 25 30	3.0	2.0	.30	>10,000	.3	150	2,000	2
TX345H	63 58 55	141 29 35	5.0	1.0	.50	>10,000	.7	300	2,000	2
TX346H	63 51 21	141 27 42	2.0	2.0	.10	>10,000	.1	300	1,000	N
TX347H	63 54 10	141 30 0	2.0	1.0	.20	>10,000	2.0	100	2,000	N
TX348H	63 42 35	141 30 30	2.0	1.0	.20	>10,000	.5	300	1,500	1
TX349H	63 44 10	141 31 0	2.0	2.0	.20	>10,000	.5	500	1,500	1
TX350H	63 43 50	141 21 50	>5.0	1.0	1.00	5,000	.5	100	1,500	5
TX351H	63 45 40	141 30 10	5.0	1.0	1.00	2,000	N	100	2,000	7
TX352H	63 41 30	141 23 15	1.0	1.0	.10	10,000	.3	300	1,500	N
TX352H	63 41 30	141 23 15	3.0	1.0	.20	10,000	.5	300	1,500	1
TX353H	63 42 55	141 26 50	5.0	2.0	.50	>10,000	.5	200	3,000	3
TX354H	63 40 30	141 33 10	>5.0	1.0	.50	10,000	.5	100	1,500	5
TX355H	63 40 25	141 28 5	>5.0	1.0	.70	10,000	.5	300	1,500	5
TX356H	63 39 30	141 38 30	.5	1.0	.03	3,000	N	300	2,000	N
DTX356H	63 39 30	141 38 30	1.0	2.0	.05	10,000	N	300	5,000	N

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Ca-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s
TX314H	3	30	30	150	N	10	N	70	7	10
TX315H	20	30	70	100	30	20	N	70	10	20
TX316H	3	70	70	100	30	5	N	70	50	15
TX317H	3	70	70	100	N	7	N	100	15	30
TX319H	10	70	30	200	70	20	N	100	15	20
TX320H	20	100	70	300	50	7	N	200	20	30
TX321H	10	20	30	300	100	5	100	30	30	30
TX322H	5	15	30	100	N	15	N	70	10	10
TX323H	N	30	100	70	50	10	N	100	15	30
TX324H	10	30	50	200	20	20	N	50	20	10
TX325H	5	15	30	100	N	10	N	70	7	5
TX326H	20	70	20	200	50	30	N	30	20	10
TX327H	10	70	70	300	N	30	N	200	15	10
TX328H	N	20	20	100	N	10	N	100	100	10
TX329H	N	20	30	100	N	N	N	100	50	20
TX330H	10	100	20	100	50	5	N	100	50	10
TX331H	N	300	100	100	70	N	N	100	20	30
DTX331H	N	70	70	70	50	N	N	100	30	30
TX332H	10	20	30	100	N	7	N	100	30	10
TX333H	10	20	20	100	20	N	N	30	10	5
TX334HB	7	30	30	150	20	7	N	30	20	10
TX334HA	N	30	100	150	N	7	N	100	10	30
TX335H	N	30	50	70	70	N	N	70	30	20
TX336H	5	10	15	200	N	5	N	50	7	N
TX338H	N	50	200	150	50	N	N	100	30	30
TX339H	N	50	70	70	70	N	N	70	30	30
TX340H	10	15	30	150	N	10	N	100	5	5
TX341H	7	15	20	150	N	5	N	70	7	10
TX342H	N	70	70	150	N	N	N	100	5	10
TX343H	7	30	50	50	30	2	N	30	20	20
TX344H	N	15	30	70	N	N	N	70	5	15
TX345H	7	30	30	70	20	5	N	30	20	20
TX346H	N	10	20	150	N	5	N	70	15	5
TX347H	5	15	30	70	N	5	N	70	5	5
TX348H	7	10	20	100	20	5	N	30	10	5
TX349H	10	70	20	150	20	20	N	30	15	10
TX350H	7	30	70	70	50	5	<50	30	15	30
TX351H	15	30	100	50	70	N	N	70	15	30
TX352H	7	10	20	50	20	N	N	30	5	5
TX352H	10	20	20	100	20	10	N	30	10	10
TX353H	15	200	70	150	50	15	N	200	15	30
TX354H	7	30	20	70	100	5	<50	30	20	20
TX355H	10	30	50	100	50	5	<50	30	30	20
TX356H	N	10	10	50	N	N	N	30	2	N
DTX356H	N	15	20	100	N	N	N	70	5	N

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Na-pct. s	Ga-ppm s
TX314H	N	1,000	150	N	10	3,000	50	.30	N
TX315H	N	1,500	200	N	30	1,000	100	.50	30
TX316H	10	700	150	N	30	700	70	.70	50
TX317H	N	1,500	300	N	30	700	200	.50	30
TX319H	N	1,500	300	100	70	1,000	150	.30	20
TX320H	N	700	200	N	100	2,000	200	.30	30
TX321H	N	1,500	200	N	70	1,000	200	.10	10
TX322H	N	500	150	N	10	2,000	70	.30	15
TX323H	N	700	300	N	30	200	500	.30	30
TX324H	N	1,500	100	N	30	1,500	100	.10	10
TX325H	N	1,500	150	N	10	2,000	70	.20	15
TX326H	N	1,500	200	N	30	1,500	100	.10	10
TX327H	N	1,500	150	N	20	2,000	20	2.00	N
TX328H	N	1,500	70	N	20	1,000	20	.30	10
TX329H	N	700	200	N	20	700	150	.30	20
TX330H	N	2,000	100	100	70	2,000	100	.30	N
TX331H	N	500	1,000	N	50	500	500	.70	N
DTX331H	N	1,000	300	500	50	500	300	.50	30
TX332H	N	1,500	100	N	20	3,000	70	.30	10
TX333H	N	1,500	100	N	10	5,000	70	.10	5
TX334HB	N	1,500	200	N	20	1,000	70	.20	10
TX334HA	N	1,000	150	<50	20	700	100	.50	30
TX335H	7	1,000	300	N	50	700	100	.50	30
TX336H	N	1,000	70	N	10	1,500	30	.20	N
TX338H	N	700	300	N	50	700	500	1.00	30
TX339H	10	700	300	700	50	500	200	.30	30
TX340H	N	1,500	70	N	N	3,000	70	.30	N
TX341H	N	1,500	150	<50	N	2,000	70	.30	N
TX342H	N	1,000	150	<50	20	1,000	70	.50	10
TX343H	N	1,000	200	N	30	1,000	200	.10	20
TX344H	5	1,500	150	N	10	1,500	100	.30	10
TX345H	N	1,000	200	N	30	1,500	500	.20	15
TX346H	7	700	100	N	N	3,000	70	.50	N
TX347H	N	700	150	N	N	1,500	70	.30	N
TX348H	N	1,500	100	N	10	2,000	70	.10	5
TX349H	N	1,500	200	N	20	1,500	100	.10	5
TX350H	N	1,500	200	N	50	1,000	200	.20	20
TX351H	N	700	300	100	50	150	700	.70	30
TX352H	N	1,500	100	N	N	1,000	70	.10	3
TX352H	N	1,500	100	N	20	1,500	200	.10	7
TX353H	N	1,500	300	N	50	2,000	100	.50	10
TX354H	N	1,500	150	N	70	1,500	200	.20	10
TX355H	<5	1,500	200	N	30	1,000	150	.20	20
TX356H	N	1,500	20	N	N	3,000	70	.10	N
DTX356H	N	2,000	50	N	N	3,000	20	.20	N

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
TX357H	63 38 40	141 29 0	5.0	1.0	.50	7,000	10.0	300	3,000	5
TX358H	63 33 45	141 19 10	5.0	5.0	.70	7,000	.1	300	1,500	N
TX359H	63 36 25	141 39 20	1.0	1.0	.10	10,000	.5	300	2,000	N
TX360H	63 32 54	141 19 18	3.0	2.0	.20	>10,000	.5	200	1,500	1
TX361H	63 30 50	141 15 55	3.0	1.0	.30	1,500	N	70	1,000	5
TX362H	63 35 50	141 0 10	3.0	1.0	.50	10,000	N	100	1,500	3
TX363H	63 31 25	141 14 20	5.0	2.0	.20	>10,000	N	100	2,000	3
TX364H	63 37 35	141 5 10	3.0	1.5	.20	7,000	N	150	3,000	2
TX365H	63 32 20	141 0 20	5.0	2.0	.70	>10,000	N	70	1,500	5
TX366H	63 39 30	141 12 57	3.0	1.5	.20	>10,000	.5	150	1,500	5
TX367H	63 30 20	141 0 40	3.0	1.0	.70	1,000	N	70	1,000	5
TX368H	63 36 5	141 13 50	5.0	1.0	.70	7,000	N	150	1,500	2
TX369H	63 31 40	141 9 0	3.0	1.0	.20	1,000	N	70	700	N
DTX369H	63 31 40	141 9 0	5.0	1.5	.70	1,500	N	70	1,000	2
TX370H	63 36 25	141 17 20	5.0	1.5	.70	5,000	N	100	1,500	3
TX371H	63 32 25	141 7 30	5.0	2.0	.70	1,000	N	70	1,000	2
TX372H	63 36 40	141 19 40	>5.0	1.0	1.00	2,000	.5	100	1,500	5
TX373H	63 34 30	141 3 20	5.0	3.0	1.00	5,000	N	100	1,500	2
TX374H	63 39 40	142 1 35	2.0	3.0	.10	5,000	N	200	1,000	N
TX375H	63 34 0	141 13 25	5.0	2.0	.70	2,000	N	100	1,500	3
TX376H	63 36 25	141 33 0	5.0	2.0	.70	>10,000	.3	200	1,500	7
TX377H	63 33 30	141 16 0	5.0	1.0	.70	1,000	N	70	1,500	2
TX378H	63 32 18	141 35 55	2.0	2.0	.10	7,000	.1	200	5,000	N
TX381H	63 41 55	141 57 20	3.0	2.0	.20	>10,000	.5	500	2,000	2
TX382H	63 44 55	141 56 20	5.0	1.0	.50	7,000	N	100	1,000	5
TX385H	63 6 20	143 15 20	3.0	2.0	.20	>10,000	.3	300	5,000	1
TX386H	63 2 25	143 21 5	3.0	1.0	.50	7,000	.5	300	3,000	2
TX387H	63 34 40	141 34 30	5.0	2.0	.70	5,000	N	150	2,000	1
TX388H	63 33 45	141 38 40	3.0	5.0	.20	>10,000	3.0	200	3,000	N
TX389H	63 37 5	141 43 50	5.0	5.0	.70	10,000	N	150	2,000	5
TX390H	63 39 14	141 51 20	3.0	2.0	.20	>10,000	N	150	3,000	5
TX391H	63 36 45	141 51 15	5.0	5.0	.50	5,000	.5	200	2,000	2
TX392H	63 41 55	142 8 40	2.0	2.0	.20	>10,000	.5	300	3,000	N
TX393H	63 37 30	142 3 20	3.0	2.0	.50	>10,000	.1	300	3,000	N
TX394H	63 40 30	142 21 10	2.0	2.0	.20	>10,000	.5	200	2,000	N
TX395H	63 41 0	142 22 50	5.0	3.0	.70	>10,000	2.0	200	3,000	2
TX396H	63 1 35	143 20 30	>5.0	2.0	.70	3,000	.1	200	3,000	2
TX397H	63 0 25	143 19 40	5.0	1.0	.50	7,000	1.0	300	2,000	2
TX398H	63 36 5	141 22 50	3.0	2.0	.50	>10,000	.5	150	2,000	5
TX399H	63 29 35	141 29 15	3.0	2.0	.30	>10,000	.7	200	5,000	2
TX400H	63 34 40	141 41 50	5.0	2.0	.70	3,000	N	100	2,000	3
TX401H	63 35 50	141 44 30	>5.0	1.0	.50	>10,000	.3	300	2,000	3
TX402H	63 41 40	141 49 5	2.0	2.0	.20	>10,000	.5	200	3,000	2
TX403H	63 42 20	141 50 0	5.0	5.0	.70	>10,000	1.0	150	2,000	3
TX404H	63 41 45	142 1 25	3.0	2.0	.50	>10,000	N	150	2,000	2

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s
TX357H	100	20	20	200	50	5	N	30	200	20
TX356H	5	30	70	100	N	N	N	100	30	30
TX359H	10	20	20	150	20	5	N	30	10	N
TX360H	N	30	50	100	N	10	N	70	10	10
TX361H	N	15	50	50	30	N	N	20	20	15
TX362H	N	20	50	70	20	5	N	70	15	20
TX363H	10	100	50	100	50	5	N	100	10	20
TX364H	N	15	30	70	N	N	N	70	5	10
TX365H	N	100	70	70	50	7	N	100	30	30
TX366H	10	30	50	100	20	10	N	70	20	20
TX367H	N	20	70	30	70	<2	N	70	15	20
TX368H	N	70	70	100	20	7	N	70	15	30
TX369H	N	15	50	50	N	N	N	50	10	15
DTX369H	N	30	70	70	20	5	N	70	15	30
TX370H	N	50	70	70	20	7	N	70	15	30
TX371H	N	30	100	150	20	7	N	100	30	30
TX372H	7	30	50	50	50	5	<50	30	30	30
TX373H	N	50	100	150	30	N	N	100	10	30
TX374H	7	15	30	200	N	7	N	70	5	10
TX375H	N	30	70	100	20	7	N	70	15	30
TX376H	N	70	70	100	30	7	N	70	30	30
TX377H	N	30	70	70	20	N	N	70	15	30
TX378H	10	15	20	150	N	7	N	70	15	5
TX381H	30	30	20	150	20	7	N	30	10	10
TX382H	N	30	70	70	20	7	N	70	20	20
TX385H	10	30	30	100	20	7	N	70	15	15
TX386H	7	20	50	100	20	2	N	30	30	10
TX387H	N	30	70	70	50	N	N	70	20	30
TX388H	30	50	30	200	N	<2	N	100	30	15
TX389H	15	30	70	70	50	7	N	100	20	30
TX390H	N	30	50	70	70	10	N	70	10	15
TX391H	10	30	70	100	N	7	N	70	15	20
TX392H	20	10	30	200	N	7	N	70	15	10
TX393H	10	20	70	100	N	10	N	70	15	15
TX394H	5	30	30	150	N	70	N	70	10	10
TX395H	15	70	70	150	20	7	N	100	30	30
TX396H	N	70	100	100	20	5	N	100	50	30
TX397H	7	30	50	150	30	5	N	30	30	20
TX398H	N	50	50	100	20	7	N	70	20	20
TX399H	15	70	70	200	20	7	N	100	20	15
TX400H	N	70	70	70	20	5	N	70	15	30
TX401H	7	70	20	100	30	5	N	30	20	20
TX402H	N	20	30	70	N	7	N	70	10	15
TX403H	20	70	70	100	20	5	N	70	30	30
TX404H	10	30	70	100	20	<2	N	100	100	20

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Na-pct. s	Ga-ppm s
TX357H	N	1,500	150	N	30	1,500	200	.10	20
TX358H	N	1,000	300	N	30	700	300	1.00	30
TX359H	N	2,000	50	N	N	2,000	50	.10	5
TX360H	N	700	150	100	10	2,000	70	.30	10
TX361H	S	700	150	N	30	100	200	.50	30
TX362H	N	700	200	N	20	500	500	.30	20
TX363H	N	1,000	200	N	50	700	100	.30	10
TX364H	N	1,500	100	N	10	700	50	.30	10
TX365H	N	700	300	N	50	150	200	.50	10
TX366H	N	1,000	150	N	30	1,000	150	.30	30
TX367H	N	500	300	N	30	100	500	.50	20
TX368H	N	700	300	N	30	300	200	.30	30
TX369H	N	300	200	N	20	100	70	.30	20
DTX369H	N	700	300	50	30	100	300	.50	20
TX370H	N	700	300	N	30	300	200	.30	20
TX371H	N	700	300	N	30	100	300	.70	20
TX372H	N	1,500	200	N	30	1,000	200	.20	15
TX373H	N	1,000	300	N	50	200	200	1.00	30
TX374H	N	1,500	100	N	10	700	50	.30	10
TX375H	N	1,000	300	50	30	100	150	.50	30
TX376H	N	1,500	300	50	30	700	200	.50	30
TX377H	N	700	300	50	30	100	300	.50	30
TX378H	N	1,500	70	N	10	3,000	50	.30	10
TX381H	N	1,000	150	N	30	1,500	100	.10	5
TX382H	S	700	200	N	30	500	200	.50	30
TX385H	N	1,000	150	N	30	3,000	150	.30	30
TX386H	N	2,000	100	N	10	2,000	100	.10	20
TX387H	7	1,000	300	N	30	200	200	.50	30
TX388H	15	1,500	200	N	10	3,000	100	.70	30
TX389H	N	1,500	300	50	30	3,000	200	.50	30
TX390H	N	1,500	200	N	20	700	150	.30	30
TX391H	N	1,000	300	50	20	2,000	200	.50	30
TX392H	N	1,500	100	50	N	2,000	50	.30	10
TX393H	N	1,500	150	N	10	3,000	100	.30	20
TX394H	N	1,000	150	N	N	1,500	70	.30	10
TX395H	N	1,500	300	50	30	2,000	300	.70	50
TX396H	S	1,000	300	50	30	2,000	700	.30	30
TX397H	N	1,500	200	N	30	2,000	100	.30	15
TX398H	N	1,500	200	50	30	700	150	.50	30
TX399H	N	1,500	200	N	20	3,000	100	.30	30
TX400H	N	700	300	N	30	200	200	.50	30
TX401H	N	1,000	150	N	30	200	100	.20	20
TX402H	N	2,000	100	N	10	3,000	70	.30	20
TX403H	S	1,500	300	N	20	2,000	150	.70	30
TX404H	N	1,000	200	50	20	700	150	.30	20

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
TX405H	63 37 30	142 10 55	3.0	2.0	.20	>10,000	3.0	150	5,000	2
TX406H	63 18 5	143 34 20	3.0	2.0	.70	7,000	.2	150	2,000	7
TX407H	63 17 35	143 35 15	3.0	5.0	.50	10,000	.1	300	3,000	3
TX408H	63 21 20	143 45 55	5.0	2.0	.70	7,000	.5	150	2,000	5
TX409H	63 20 45	143 28 55	3.0	5.0	.50	7,000	3.0	150	2,000	2
TX410H	63 25 35	143 30 25	3.0	5.0	.30	10,000	N	300	1,500	2
TX411H	63 27 20	143 56 40	3.0	3.0	.20	7,000	.1	200	2,000	2
TX412H	63 26 15	143 52 55	3.0	2.0	.30	7,000	N	150	3,000	2
TX413H	63 21 55	143 42 35	3.0	2.0	.50	10,000	.1	200	5,000	2
TX414H	63 19 5	143 26 10	5.0	3.0	.50	10,000	.1	200	5,000	5
TX416H	63 20 5	143 38 55	3.0	2.0	.50	10,000	N	200	2,000	2
TX417H	63 19 55	143 37 5	3.0	2.0	.50	10,000	N	200	2,000	2
TX418H	63 20 35	143 37 25	3.0	2.0	.50	>10,000	N	200	2,000	2
TX419H	63 22 15	143 46 50	5.0	2.0	.70	10,000	.1	200	2,000	5
TX420H	63 22 0	143 32 40	3.0	3.0	.50	>10,000	2.0	200	2,000	2
TX421H	63 19 0	143 25 0	3.0	2.0	.30	7,000	N	150	3,000	2
TX422H	63 16 45	143 20 5	3.0	2.0	.30	>10,000	N	200	2,000	2
TX423H	63 26 55	143 31 0	2.0	2.0	.20	>10,000	5.0	700	2,000	1
TX424H	63 28 40	143 30 0	5.0	3.0	.20	>10,000	3.0	500	1,500	5
TX425H	63 29 40	143 27 5	5.0	2.0	.20	>10,000	2.0	300	1,500	1
TX426H	63 30 35	143 24 50	5.0	1.0	.50	>10,000	.5	500	1,500	2
TX427H	63 30 47	143 22 4	1.0	1.0	.20	5,000	.5	300	2,000	1
TX428H	63 31 0	143 14 10	2.0	1.0	.50	>10,000	.5	300	1,500	2
TX429H	63 30 10	143 21 35	1.0	1.0	.20	2,000	.5	300	1,500	N
TX430H	63 30 10	143 13 50	2.0	2.0	.20	10,000	.5	500	1,500	2
TX431H	63 29 15	143 21 40	1.0	2.0	.20	10,000	1.0	500	1,500	N
TX432H	63 28 30	143 17 10	5.0	2.0	.20	10,000	1.0	500	1,500	2
TX433H	63 26 40	143 26 20	5.0	1.0	.50	7,000	.5	70	1,500	2
TX434H	63 26 40	143 20 0	2.0	2.0	.20	>10,000	.2	200	2,000	1
TX435H	63 24 15	143 25 40	5.0	2.0	.70	7,000	.3	100	1,500	2
TX437H	63 28 15	143 8 40	2.0	1.0	.20	7,000	.2	300	1,000	1
TX438H	63 28 18	143 0 50	2.0	2.0	.30	7,000	.3	500	1,500	1
DTX438H	63 28 18	143 0 50	3.0	5.0	.20	10,000	.3	500	1,500	1
TX439H	63 30 35	143 2 50	3.0	1.0	.20	7,000	.7	500	2,000	20
TX440H	63 28 55	143 0 20	5.0	2.0	.20	10,000	.2	500	1,500	2
TX441H	63 29 30	143 3 2	5.0	1.0	.50	7,000	.2	100	1,500	2
TX442H	63 39 35	142 25 35	2.0	1.0	.20	10,000	.2	100	5,000	1
TX443H	63 41 30	142 27 35	2.0	1.0	.20	>10,000	.1	300	2,000	1
DTX443H	63 41 30	142 27 35	2.0	1.0	.20	10,000	.1	300	2,000	1
TX444H	63 38 10	142 24 30	3.0	2.0	.20	10,000	.5	300	2,000	1
TX445H	63 38 55	142 22 25	>5.0	2.0	.50	>10,000	.5	100	2,000	10
TX446H	63 34 50	142 17 20	>5.0	2.0	.50	7,000	.5	150	1,500	5
TX447H	63 37 0	142 21 25	5.0	1.0	.30	>10,000	1.0	500	1,500	5
TX448H	63 35 40	142 16 30	5.0	1.0	.50	10,000	.5	300	1,500	5
TX449H	63 34 50	142 26 5	.5	.7	.10	10,000	.5	500	2,000	N

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Cu-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s
TX405H	N	20	50	100	N	7	N	70	10	15
TX406H	N	50	50	300	300	7	N	100	50	30
TX407H	5	30	70	200	70	<2	N	70	70	20
TX408H	5	50	70	100	70	<2	N	100	70	30
TX409H	10	30	50	150	20	10	N	70	50	15
TX410H	N	20	70	150	N	20	N	70	50	15
TX411H	N	10	30	100	N	N	N	30	30	10
TX412H	N	20	70	70	50	5	N	70	20	15
TX413H	N	20	70	100	30	<2	N	70	20	15
TX414H	N	20	100	100	30	7	N	70	15	15
TX416H	N	30	70	70	50	N	N	100	15	15
TX417H	N	30	50	70	50	7	N	70	20	15
TX418H	N	30	70	100	20	N	N	100	15	15
TX419H	N	50	70	100	50	<2	N	70	30	20
TX420H	N	20	20	200	20	7	N	70	15	15
TX421H	N	20	70	100	30	N	N	70	10	15
TX422H	3	30	70	200	100	5	N	100	30	15
TX423H	30	30	20	200	20	2	N	30	30	10
TX424H	30	70	20	300	100	10	150	50	30	10
TX425H	10	70	20	150	20	5	N	30	20	10
TX426H	7	30	30	150	30	10	N	30	30	20
TX427H	5	15	20	50	20	5	N	20	50	5
TX428H	10	30	50	70	50	10	50	30	30	15
TX429H	5	10	20	100	20	10	N	30	30	7
TX430H	10	20	20	100	30	10	N	30	15	7
TX431H	5	10	20	70	20	10	N	30	7	5
TX432H	5	50	20	100	20	20	N	30	15	10
TX433H	5	30	50	70	30	2	N	30	15	20
TX434H	5	20	20	70	20	20	N	30	20	7
TX435H	5	30	50	100	30	5	N	30	15	20
TX437H	5	10	30	100	20	10	N	30	10	7
TX438H	7	20	30	100	20	20	N	30	15	7
DTX438H	5	30	30	100	20	20	N	30	20	7
TX439H	5	10	20	100	1,000	2	200	30	50	10
TX440H	5	30	30	200	20	5	N	30	10	10
TX441H	7	30	50	100	30	10	N	30	20	15
TX442H	5	15	20	100	20	2	N	20	10	10
TX443H	7	20	20	100	20	2	N	30	10	10
DTX443H	5	20	20	70	20	2	N	30	7	7
TX444H	10	30	20	70	20	2	N	30	7	10
TX445H	10	70	50	150	100	20	N	30	50	30
TX446H	7	30	50	70	50	2	N	30	20	30
TX447H	10	50	15	100	50	2	N	30	20	10
TX448H	7	30	30	70	50	10	N	30	20	15
TX449H	2	N	7	50	N	2	N	30	2	N

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Na-pct. s	Ga-ppm s
TX405H	N	2,000	150	N	10	2,000	100	.30	20
TX406H	5	1,500	150	50	150	500	150	.30	30
TX407H	5	1,500	300	N	30	700	150	2.00	30
TX408H	5	700	300	N	50	700	500	.30	30
TX409H	5	2,000	150	50	20	700	150	1.00	50
TX410H	N	2,000	150	50	10	3,000	100	.70	30
TX411H	5	700	100	N	10	700	200	.70	30
TX412H	5	1,000	150	N	10	500	100	.50	30
TX413H	N	1,500	150	N	20	1,000	150	.30	20
TX414H	N	1,500	150	N	20	700	150	1.00	30
TX416H	N	1,500	150	N	20	500	200	.30	30
TX417H	N	1,500	150	N	20	700	100	.30	30
TX418H	N	1,500	150	N	20	1,500	150	.30	30
TX419H	N	700	200	N	30	700	500	.30	30
TX420H	N	1,000	150	50	20	1,000	100	.30	20
TX421H	N	1,500	150	N	20	500	70	.30	20
TX422H	N	1,500	150	N	70	700	150	.30	20
TX423H	N	2,000	100	N	10	2,000	100	.20	10
TX424H	N	2,000	150	N	100	1,000	100	.20	5
TX425H	N	2,000	200	N	30	1,500	100	.20	7
TX426H	N	1,000	200	N	30	1,000	200	.30	2
TX427H	N	2,000	100	N	10	2,000	100	.20	7
TX428H	N	2,000	200	N	30	1,500	200	.20	10
TX429H	N	1,500	100	N	10	1,500	70	.50	7
TX430H	N	2,000	100	N	30	1,500	100	.10	7
TX431H	N	2,000	100	N	10	2,000	70	.10	5
TX432H	N	2,000	150	N	30	500	100	.20	5
TX433H	N	1,500	200	N	30	1,000	200	.20	15
TX434H	N	2,000	100	N	10	1,000	200	.20	7
TX435H	N	1,000	200	N	20	1,000	200	.30	15
TX437H	N	2,000	100	N	10	1,500	100	.20	10
TX438H	N	2,000	100	N	10	2,000	100	.20	7
DTX438H	N	2,000	100	N	20	2,000	100	.20	10
TX439H	N	2,000	100	N	200	1,500	100	.20	20
TX440H	N	2,000	200	N	20	1,000	100	.20	10
TX441H	N	2,000	200	N	30	1,000	300	.20	10
TX442H	N	1,500	100	N	20	1,500	100	.15	10
TX443H	N	1,500	100	N	20	1,500	100	.20	7
DTX443H	N	1,500	70	N	10	1,500	100	.15	7
TX444H	N	1,500	100	N	20	1,000	100	.20	7
TX445H	N	1,000	200	N	50	500	200	.20	20
TX446H	N	2,000	200	N	30	700	300	.20	20
TX447H	N	1,000	200	N	30	1,500	100	.10	5
TX448H	N	1,000	200	N	20	1,000	200	.10	7
TX449H	N	2,000	50	N	N	2,000	10	.05	2

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
TX450H	63 34 10	142 16 20	3.0	2.0	.20	>10,000	.5	300	2,000	3
TX451H	63 33 55	142 26 20	3.0	2.0	.30	>10,000	.5	500	2,000	5
TX452H	63 31 55	142 16 15	5.0	1.0	1.00	3,000	.5	100	1,500	5
TX453H	63 32 20	142 28 15	3.0	2.0	.20	>10,000	.3	500	2,000	2
TX454H	63 31 40	142 10 50	5.0	1.0	.70	7,000	.3	100	1,500	5
TX455H	63 30 10	142 20 15	5.0	1.0	.50	10,000	.3	300	1,500	5
TX456H	63 35 40	142 1 0	5.0	1.0	.50	>10,000	.3	300	2,000	10
TX457H	63 32 10	142 7 30	5.0	1.0	.70	10,000	.7	100	1,500	5
TX458H	63 33 30	142 0 15	5.0	5.0	.10	>10,000	.3	500	7,000	1
TX459H	63 32 35	141 56 40	2.0	2.0	.20	>10,000	.5	500	2,000	2
TX460H	63 33 10	141 51 20	>5.0	1.0	.70	2,000	.5	150	1,500	5
TX461H	63 29 30	142 33 10	2.0	1.0	.20	10,000	.5	300	2,000	1
TX462H	63 34 35	141 54 0	1.0	1.0	.15	>10,000	.5	300	2,000	1
TX463H	63 30 45	142 33 50	>5.0	1.0	.70	10,000	.5	150	1,500	5
TX464H	63 28 2	143 42 40	2.0	1.0	.50	7,000	.5	500	1,500	2
TX465H	63 31 45	142 28 45	1.0	1.0	.20	>10,000	.5	300	7,000	N
TX466H	63 27 38	143 44 25	5.0	1.0	.70	7,000	.2	200	1,500	3
TX467H	63 28 20	142 31 0	2.0	1.0	.50	10,000	.3	300	1,500	2
TX468H	63 25 35	142 46 0	>5.0	2.0	.50	7,000	.2	70	1,500	2
TX469H	63 23 0	143 35 40	>5.0	2.0	.50	7,000	.2	100	1,500	2
TX470H	63 24 25	142 50 30	2.0	2.0	.20	7,000	.2	300	1,500	1
TX471H	63 23 35	142 36 55	5.0	1.0	.20	10,000	.3	300	2,000	1
TX472H	63 23 35	142 50 40	5.0	1.0	.20	10,000	.3	300	1,500	1
TX473H	63 23 20	142 39 40	5.0	1.0	.50	5,000	.2	70	1,500	2
TX474H	63 26 10	142 54 5	5.0	1.0	.50	7,000	.2	200	1,500	3
TX475H	63 22 50	142 43 0	>5.0	1.0	.70	5,000	.3	70	1,500	1
TX476H	63 25 5	142 25 35	>5.0	1.0	.70	5,000	.2	70	1,500	2
TX477H	63 12 30	143 20 0	5.0	1.0	.50	7,000	.2	200	1,500	2
TX478H	63 26 45	142 24 15	5.0	1.0	.20	>10,000	.5	300	2,000	1
TX479H	63 12 5	143 17 55	5.0	1.0	.30	10,000	.2	100	1,500	2
TX480H	63 14 10	143 24 10	>5.0	1.0	.70	7,000	.3	100	1,500	2
TX481H	63 2 5	143 26 25	5.0	1.0	.30	7,000	.5	300	2,000	1
TX482H	63 14 40	143 22 40	2.0	1.0	.20	10,000	.3	300	2,000	1
TX483H	63 6 29	143 22 23	2.0	1.0	.30	10,000	.7	300	1,500	1
TX484H	63 10 40	143 13 50	1.0	1.0	.20	7,000	.5	300	1,500	N
TX485H	63 5 0	143 8 40	5.0	2.0	.30	7,000	2.0	300	1,500	2
TX486H	63 4 30	143 28 50	2.0	1.0	.20	7,000	.2	300	1,500	3
TX487H	63 4 40	143 9 15	5.0	1.0	.50	2,000	.3	70	1,500	5
TX488H	63 2 15	143 10 0	>5.0	1.0	.50	10,000	.3	300	3,000	3
TX489H	63 9 10	143 5 40	3.0	1.0	.50	7,000	.3	300	1,500	1
TX490H	63 6 5	143 11 35	3.0	1.0	.30	7,000	.2	300	3,000	2
DTX490H	63 6 5	143 11 35	5.0	2.0	.50	10,000	.7	300	2,000	3
TX491H	63 27 5	142 22 0	5.0	2.0	.20	>10,000	.7	300	2,000	3
TX492H	63 10 50	143 0 25	3.0	1.0	.20	>10,000	.7	300	1,500	1
TX493H	63 27 40	142 19 40	5.0	1.0	.70	10,000	.7	300	1,500	3

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s
TX450H	20	100	10	100	20	15	N	30	10	15
TX451H	10	50	20	100	20	2	N	50	10	15
TX452H	5	30	20	50	50	5	N	30	20	30
TX453H	20	100	20	100	50	7	N	50	20	10
TX454H	7	50	20	70	50	5	N	30	20	20
TX455H	7	50	30	70	50	5	N	30	10	20
TX456H	7	50	20	100	50	5	N	30	20	20
TX457H	20	50	20	100	50	5	N	30	20	20
TX458H	10	200	10	200	50	50	N	100	10	5
TX459H	7	20	10	100	20	10	N	30	10	5
TX460H	7	30	50	70	50	5	N	30	20	20
TX461H	7	20	30	100	20	10	N	30	10	10
TX462H	7	20	20	50	20	2	N	30	5	5
TX463H	7	50	50	50	20	5	N	30	10	30
TX464H	7	10	20	70	20	7	N	30	10	5
TX465H	5	10	7	50	N	2	N	30	2	5
TX466H	7	20	70	70	20	2	N	30	10	20
TX467H	5	10	20	70	20	2	N	30	5	10
TX468H	7	30	70	70	20	5	N	30	10	20
TX469H	7	30	70	70	20	5	N	30	10	20
TX470H	7	20	30	100	N	5	N	30	10	10
TX471H	10	20	30	50	20	5	N	30	10	10
TX472H	50	30	50	70	20	5	N	30	10	10
TX473H	7	30	50	50	20	5	N	30	10	15
TX474H	7	30	70	70	50	5	N	30	20	15
TX475H	7	30	50	50	20	5	N	30	10	20
TX476H	7	30	70	50	50	2	N	30	10	20
TX477H	7	30	50	70	50	2	N	30	20	15
TX478H	7	20	50	70	20	5	N	30	10	10
TX479H	7	30	30	70	50	2	N	30	20	10
TX480H	7	30	50	70	100	5	N	30	50	20
TX481H	10	30	50	50	20	2	N	30	20	10
TX482H	7	20	70	30	20	2	N	30	20	10
TX483H	10	20	20	70	20	2	N	30	10	10
TX484H	5	15	20	50	20	N	N	30	10	5
TX485H	10	30	30	100	50	5	N	30	10	10
TX486H	10	30	50	100	30	2	N	30	30	10
TX487H	7	30	50	50	50	2	N	30	20	20
TX488H	7	50	20	1,500	50	5	N	30	7	20
TX489H	7	30	20	100	20	2	N	30	15	10
TX490H	15	20	50	100	20	2	N	30	20	20
DTX490H	10	30	50	100	50	5	N	30	20	15
TX491H	10	70	20	150	20	10	N	30	20	7
TX492H	7	20	30	70	20	N	N	30	20	7
TX493H	10	50	50	150	70	5	N	30	20	20

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Na-pct. s	Ga-ppm s
TX450H	N	1,000	200	N	20	2,000	100	.10	5
TX451H	N	1,000	200	N	20	2,000	200	.10	7
TX452H	N	1,000	200	N	30	500	200	.20	20
TX453H	N	1,000	200	N	20	2,000	100	.10	5
TX454H	N	1,500	200	N	30	500	300	.20	10
TX455H	N	1,000	200	N	30	1,000	200	.10	10
TX456H	N	1,500	200	N	30	1,500	100	.10	10
TX457H	N	1,000	300	N	30	1,000	200	.20	10
TX458H	N	2,000	200	N	20	1,500	70	.10	3
TX459H	N	1,500	100	N	20	2,000	100	.10	5
TX460H	N	1,000	200	N	30	500	200	.20	10
TX461H	N	2,000	100	N	20	1,000	100	.10	5
TX462H	N	2,000	70	N	N	2,000	70	.07	3
TX463H	N	1,000	200	N	30	500	200	.20	10
TX464H	N	1,500	100	N	10	1,500	100	.10	5
TX465H	N	1,500	50	N	N	1,500	20	.05	2
TX466H	N	1,500	200	N	30	1,500	200	.20	10
TX467H	N	1,500	100	N	10	1,500	100	.10	7
TX468H	N	1,000	200	N	30	1,500	200	.30	20
TX469H	N	1,000	150	N	30	1,500	200	.30	20
TX470H	N	2,000	100	N	20	1,500	100	.20	10
TX471H	N	1,500	100	N	20	1,500	100	.15	10
TX472H	N	1,500	100	N	20	1,500	100	.20	10
TX473H	N	1,500	200	N	20	1,500	100	.20	10
TX474H	N	1,500	200	N	30	1,000	150	.20	15
TX475H	N	1,500	200	N	30	1,000	200	.50	10
TX476H	N	1,500	200	N	30	500	200	.50	10
TX477H	N	1,500	150	N	30	500	200	.30	15
TX478H	N	1,500	150	N	20	1,000	100	.20	7
TX479H	N	1,500	100	N	20	1,000	100	.30	15
TX480H	N	1,000	150	N	30	1,000	300	.20	20
TX481H	N	1,500	150	N	20	1,000	150	.20	10
TX482H	N	1,500	70	N	20	1,000	150	.10	7
TX483H	N	1,500	100	N	15	2,000	100	.20	10
TX484H	N	1,500	100	N	15	1,000	70	.10	7
TX485H	N	1,500	150	N	30	1,000	150	.30	10
TX486H	N	1,500	100	N	20	1,500	100	.20	15
TX487H	N	200	200	N	30	1,000	200	.20	15
TX488H	N	1,000	200	N	30	1,000	100	.20	15
TX489H	N	1,000	100	N	20	1,000	100	.20	10
TX490H	N	1,000	100	N	20	1,000	150	.20	10
DTX490H	N	1,500	200	N	30	2,000	200	.20	20
TX491H	N	1,500	200	N	30	2,000	100	.10	7
TX492H	N	1,500	100	N	10	1,500	100	.10	7
TX493H	N	1,500	300	N	30	1,500	300	.20	10

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
TX494H	63 28 30	142 21 40	2.0	1.0	.10	>10,000	.7	300	2,000	1
TX495H	63 30 13	143 52 20	5.0	1.0	.50	5,000	.5	100	1,500	2
TX496H	63 29 5	142 14 0	5.0	1.0	.50	10,000	.5	200	2,000	2
TX497H	63 30 45	141 52 37	5.0	2.0	.10	>10,000	.5	300	5,000	2
TX498H	63 31 16	141 56 17	2.0	2.0	.20	>10,000	1.0	300	3,000	1
TX499H	63 25 55	142 6 25	2.0	1.0	.20	10,000	.5	300	2,000	1
TX500H	63 30 2	141 58 5	2.0	2.0	.20	>10,000	.2	300	2,000	1
TX501H	63 26 30	142 5 30	3.0	1.0	.50	10,000	.5	150	2,000	2
TX502H	63 27 32	142 6 30	3.0	2.0	.30	>10,000	.5	300	1,500	1
TX503H	63 28 50	142 6 0	2.0	2.0	.20	>10,000	.5	300	1,500	1
TX504H	63 29 30	142 7 50	5.0	2.0	.30	>10,000	.5	300	1,500	1
TX505H	63 20 50	142 27 20	5.0	1.0	.70	7,000	.5	100	1,500	2
TX506H	63 21 5	142 24 0	5.0	2.0	.30	>10,000	.7	300	1,500	2
TX507H	63 18 8	142 19 39	>5.0	1.0	.70	7,000	.5	200	1,500	2
TX508H	63 20 40	142 19 25	3.0	1.0	.20	10,000	1.0	300	2,000	1
TX509H	63 16 15	142 17 40	3.0	1.0	.20	7,000	.5	500	1,000	1
TX510H	63 18 58	142 17 35	3.0	1.0	.20	>10,000	.2	500	2,000	1
TX511H	63 16 51	142 15 28	5.0	1.0	.50	>10,000	.2	300	1,500	2
TX512H	63 15 38	142 14 43	5.0	1.0	.30	>10,000	.2	300	1,500	1
TX514H	63 16 23	142 13 5	>5.0	2.0	.50	10,000	.3	100	1,500	1
TX515H	63 21 50	142 11 25	5.0	1.0	.50	7,000	.3	200	1,500	2
TX516H	63 15 15	142 2 35	3.0	2.0	.20	>10,000	.7	500	1,500	1
TX517H	63 21 30	142 12 15	>5.0	2.0	.50	>10,000	.5	300	1,500	2
TX518H	63 15 50	142 3 55	>5.0	2.0	.50	>10,000	.3	300	1,500	2
TX519H	63 18 0	142 3 40	>5.0	1.0	.30	>10,000	.3	300	1,500	2
TX520H	63 21 35	142 2 0	1.0	1.0	.10	>10,000	.3	500	1,500	1
TX521H	63 18 55	142 2 50	>5.0	1.0	.50	>10,000	.3	500	1,500	1
DTX521H	63 18 55	142 2 50	5.0	2.0	.50	10,000	.7	200	1,500	2
TX522H	63 23 15	142 0 45	5.0	1.0	.50	>10,000	.7	200	1,500	2
TX523H	63 14 12	142 0 50	>5.0	2.0	1.00	3,000	.2	70	1,500	N
TX524H	63 21 5	141 58 45	3.0	1.0	.20	10,000	.5	500	1,500	1
TX525H	63 14 30	142 0 20	5.0	2.0	.50	5,000	.5	70	1,500	1
TX526H	63 15 25	141 59 0	5.0	2.0	.50	10,000	.5	300	1,500	2
TX527H	63 23 10	141 55 0	3.0	1.0	.20	10,000	.5	100	2,000	1
TX528H	63 24 15	141 58 0	2.0	2.0	.10	>10,000	1.0	500	2,000	2
TX529H	63 24 10	141 52 45	2.0	1.0	.20	10,000	.5	500	1,500	2
TX530H	63 25 0	141 56 5	5.0	1.0	.50	>10,000	.5	500	1,500	1
TX531H	63 29 4	141 43 51	2.0	1.0	.20	>10,000	1.0	500	1,500	N
TX532H	63 26 0	141 50 15	2.0	1.0	.20	>10,000	1.0	500	3,000	1
TX533H	63 28 43	141 43 30	5.0	1.0	.50	5,000	.7	300	1,500	2
TX534H	63 27 20	141 45 40	2.0	5.0	.20	>10,000	1.0	500	3,000	N
DTX534H	63 27 20	141 45 40	2.0	2.0	.20	>10,000	2.0	500	3,000	N
TX535H	63 10 45	142 0 25	2.0	1.0	.10	10,000	2.0	500	2,000	N
TX536H	63 9 45	142 0 50	5.0	1.0	.20	10,000	.5	500	1,500	1
TX537H	63 11 18	142 1 58	5.0	1.0	.50	10,000	.5	100	1,500	2

Table 2.--Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s
TX494H	10	20	15	50	20	2	N	30	7	5
TX495H	7	30	30	100	20	5	N	30	15	15
TX496H	7	30	100	50	20	2	N	30	15	15
TX497H	10	70	20	100	20	20	N	30	15	5
TX498H	10	20	20	70	20	5	N	30	15	5
TX499H	10	20	20	70	20	2	N	30	10	5
TX500H	10	30	20	150	20	10	N	30	15	5
TX501H	10	30	50	70	20	2	N	30	15	15
TX502H	7	20	70	70	20	2	N	30	15	10
TX503H	7	20	20	100	20	2	N	30	10	7
TX504H	7	50	50	100	20	5	N	30	15	10
TX505H	7	30	50	70	20	2	N	30	15	20
TX506H	7	30	50	70	20	5	N	30	15	10
TX507H	7	30	70	100	20	5	N	30	15	20
TX508H	7	30	20	150	20	5	N	30	15	5
TX509H	7	20	30	100	20	10	N	30	15	5
TX510H	7	20	30	100	20	5	N	30	15	7
TX511H	7	30	20	100	20	5	N	30	15	10
TX512H	7	30	30	150	20	5	N	30	20	10
TX514H	7	30	70	50	20	2	N	50	10	20
TX515H	5	30	70	70	50	7	N	30	30	20
TX516H	10	70	30	150	50	10	N	50	50	7
TX517H	10	30	30	70	20	2	N	30	50	15
TX518H	7	70	50	150	50	5	N	30	50	15
TX519H	7	30	30	100	50	2	N	30	30	15
TX520H	5	20	20	50	20	2	N	30	50	7
TX521H	7	30	50	150	30	5	N	30	50	15
DTX521H	7	30	50	100	50	5	N	30	20	20
TX522H	7	30	50	70	50	2	N	30	20	20
TX523H	7	50	150	70	20	2	70	50	10	50
TX524H	7	20	50	50	20	2	N	30	20	10
TX525H	7	20	70	50	20	2	N	30	10	20
TX526H	7	30	70	70	20	5	N	30	20	20
TX527H	7	30	30	70	20	5	N	30	20	10
TX528H	50	30	30	150	20	7	N	30	20	7
TX529H	7	20	20	150	20	10	N	30	10	10
TX530H	7	30	30	100	20	5	N	30	20	15
TX531H	7	15	30	70	20	2	N	30	10	5
TX532H	30	20	20	100	20	5	N	30	20	7
TX533H	7	30	30	70	20	5	N	30	20	20
TX534H	10	50	30	150	20	10	N	30	30	10
DTX534H	10	50	20	200	20	10	N	30	30	10
TX535H	7	10	20	70	20	2	N	30	5	7
TX536H	30	20	30	100	20	5	N	30	10	10
TX537H	5	30	50	50	50	3	N	30	10	20

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Na-pct. s	Ga-ppm s
TX494H	N	2,000	100	N	10	2,000	100	.07	2
TX495H	N	1,500	200	N	20	1,000	200	.30	20
TX496H	N	1,500	200	N	20	1,500	500	.20	10
TX497H	N	2,000	100	N	30	2,000	100	.10	5
TX498H	N	1,500	100	N	10	2,000	100	.15	5
TX499H	N	1,500	100	N	10	2,000	100	.15	7
TX500H	N	1,500	150	N	10	2,000	70	.15	5
TX501H	N	1,500	150	N	30	1,500	150	.20	20
TX502H	N	1,500	150	N	10	1,500	200	.20	10
TX503H	N	1,500	100	N	10	1,500	70	.15	10
TX504H	N	1,500	200	N	20	1,500	100	.15	10
TX505H	N	1,500	200	N	30	1,000	200	.20	10
TX506H	N	1,500	200	N	20	1,500	200	.20	10
TX507H	N	1,500	200	N	30	1,000	200	.20	15
TX508H	N	2,000	100	N	15	1,500	70	.10	5
TX509H	N	1,500	100	N	10	1,500	70	.20	5
TX510H	N	1,500	100	N	10	2,000	100	.15	5
TX511H	N	1,500	150	N	15	1,000	100	.10	10
TX512H	N	1,500	150	N	20	1,000	100	.15	5
TX514H	N	1,500	200	N	20	1,500	200	.30	10
TX515H	N	1,500	200	N	20	1,500	300	.30	15
TX516H	N	1,500	200	N	20	1,500	100	.10	5
TX517H	N	1,500	200	N	20	1,500	150	.20	10
TX518H	N	1,500	300	N	30	1,500	150	.20	10
TX519H	N	1,500	150	N	30	1,500	150	.30	10
TX520H	N	1,500	100	N	10	1,500	50	.10	7
TX521H	N	1,500	150	N	30	1,500	150	.20	10
DTX521H	N	1,500	200	N	30	2,000	200	.20	15
TX522H	N	1,500	200	N	30	2,000	200	.30	20
TX523H	N	1,500	500	N	70	1,000	1,000	.70	20
TX524H	N	1,500	100	N	20	2,000	100	.15	15
TX525H	N	1,500	200	N	30	1,000	150	.20	15
TX526H	N	1,500	200	N	30	2,000	200	.20	15
TX527H	N	1,500	150	N	20	2,000	100	.20	15
TX528H	N	1,500	100	N	30	3,000	50	.20	7
TX529H	N	1,500	100	N	30	2,000	100	.20	10
TX530H	N	1,500	200	N	20	2,000	100	.20	10
TX531H	N	1,500	100	N	N	2,000	70	.20	7
TX532H	N	1,500	150	N	20	5,000	100	.20	7
TX533H	N	1,500	200	N	30	1,000	150	.20	15
TX534H	N	1,500	150	N	20	2,000	100	.10	7
DTX534H	N	1,500	150	N	20	2,000	100	.10	7
TX535H	N	1,500	100	N	10	2,000	50	.10	5
TX536H	N	1,500	100	N	20	2,000	70	.15	10
TX537H	N	1,500	200	N	30	1,000	200	.20	20

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
TX538H	63 8 11	142 3 34	5.0	1.0	.50	5,000	.5	200	1,500	1
TX539H	63 26 25	141 10 25	2.0	1.0	.20	>10,000	.7	500	1,500	1
TX540H	63 25 55	141 3 38	5.0	1.0	.20	7,000	.3	500	2,000	3
TX541H	63 26 38	141 11 8	2.0	1.0	.20	>10,000	1.0	500	1,500	N
TX542H	63 25 15	141 3 0	2.0	1.0	.10	>10,000	1.0	500	3,000	1
TX543H	63 25 35	141 10 30	5.0	1.0	.50	>10,000	2.0	200	1,500	2
TX544H	63 24 5	141 0 10	5.0	1.0	.50	>10,000	.7	200	2,000	2
TX545H	63 23 45	141 10 45	5.0	1.0	.70	10,000	.5	200	2,000	5
TX546H	63 24 30	141 9 50	2.0	1.0	.50	10,000	.5	70	1,500	5
TX547H	63 19 55	141 1 10	2.0	2.0	.20	>10,000	.5	300	1,500	2
TX548H	63 21 30	141 12 5	5.0	1.0	.50	5,000	2.0	100	1,500	2
TX549H	63 20 45	141 0 40	5.0	1.0	.70	10,000	1.0	100	1,500	2
TX550H	63 19 35	141 10 10	1.0	1.0	.10	>10,000	.5	500	2,000	N
TX551H	63 16 50	141 3 55	2.0	1.0	.20	10,000	.5	500	2,000	1
TX552H	63 15 20	141 9 10	3.0	1.0	.20	>10,000	.5	300	2,000	2
TX553H	63 18 55	141 21 45	5.0	1.0	.70	10,000	.5	200	1,500	5
TX554H	63 16 0	141 10 10	5.0	1.0	.50	10,000	.5	300	1,500	3
TX555H	63 23 20	141 18 50	5.0	1.0	.50	10,000	.5	300	2,000	3
TX556H	63 20 10	141 14 40	1.0	1.0	.20	>10,000	.5	300	2,000	1
TX557H	63 25 45	141 19 50	5.0	1.0	.50	5,000	.2	300	1,500	2
TX558H	63 22 40	141 16 50	2.0	1.0	.50	>10,000	1.0	300	3,000	2
TX559H	63 28 5	141 26 25	5.0	1.0	.50	>10,000	2.0	500	2,000	2
TX560H	63 23 55	141 18 50	2.0	1.0	.20	>10,000	.5	300	2,000	2
TX561H	63 26 30	141 27 15	2.0	1.0	.20	>10,000	.5	300	2,000	2
TX562H	63 29 5	141 27 20	5.0	1.0	.70	7,000	.2	100	1,500	5
TX563H	63 25 42	141 33 10	2.0	1.0	.10	>10,000	.5	200	5,000	1
TX564H	63 24 20	141 27 30	2.0	1.0	.20	>10,000	.5	500	2,000	1
TX565H	63 30 11	141 39 18	3.0	2.0	.20	>10,000	.5	300	1,500	2
TX566H	63 25 10	141 34 40	2.0	2.0	.20	10,000	1.0	500	2,000	1
TX567H	63 25 0	141 41 5	5.0	1.0	.50	>10,000	.5	200	1,500	2
TX568H	63 24 0	141 33 40	2.0	2.0	.20	>10,000	.5	300	1,500	1
TX569H	63 25 45	141 43 50	5.0	1.0	.30	10,000	1.0	200	1,500	3
DTX569H	63 25 45	141 43 50	5.0	1.0	.30	10,000	3.0	200	1,500	3
TX570H	63 24 0	141 40 40	>5.0	1.0	.70	10,000	.2	100	1,500	3
TX571H	63 25 22	141 48 55	2.0	1.0	.20	>10,000	.2	500	1,000	1
TX572H	63 25 5	141 44 20	5.0	2.0	.50	>10,000	.2	300	1,500	2
TX573H	63 21 11	141 38 25	5.0	1.0	.50	10,000	.5	300	1,500	3
TX574H	63 22 5	141 35 56	5.0	1.0	.50	10,000	.2	200	1,500	3
DTX574H	63 22 5	141 35 56	5.0	1.0	.50	>10,000	.2	300	1,500	2
TX575H	63 18 35	141 36 25	3.0	1.0	.50	10,000	.5	300	1,500	1
TX576H	63 20 15	141 36 23	5.0	2.0	.30	10,000	.5	300	1,500	1
TX577H	63 16 21	141 29 31	5.0	2.0	.50	10,000	.2	300	1,500	2
TX578H	63 19 53	141 41 0	2.0	1.0	.50	10,000	.5	300	1,500	1
TX579H	63 16 0	141 29 41	5.0	2.0	.50	>10,000	1.0	300	1,500	2
TX580H	63 18 3	141 39 35	2.0	1.0	.20	10,000	.2	500	2,000	1

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s
TX538H	5	30	50	50	20	3	N	30	10	20
TX539H	10	20	20	150	20	20	N	30	10	7
TX540H	10	20	30	50	50	2	N	30	50	10
TX541H	10	20	10	100	20	5	N	30	10	5
TX542H	30	30	15	100	20	3	N	30	10	7
TX543H	10	20	30	70	20	5	N	30	20	15
TX544H	50	50	50	70	50	5	N	50	20	20
TX545H	7	50	50	50	50	5	N	30	30	20
TX546H	7	20	50	50	20	N	N	30	20	15
TX547H	10	20	30	100	20	5	N	30	10	10
TX548H	7	20	30	70	20	7	N	30	20	20
TX549H	7	30	50	100	50	5	N	30	20	20
TX550H	7	10	10	50	20	5	N	30	5	5
TX551H	7	10	20	50	20	15	N	30	20	10
TX552H	10	20	20	50	20	2	N	30	7	10
TX553H	7	30	30	50	70	5	N	30	20	20
TX554H	20	30	30	70	20	2	N	30	20	15
TX555H	10	30	30	50	20	2	N	30	20	15
TX556H	10	10	20	50	20	N	N	30	10	10
TX557H	20	20	50	100	20	10	N	30	10	15
TX558H	50	30	50	70	20	5	N	30	10	10
TX559H	50	50	70	100	20	5	N	30	20	15
TX560H	5	20	20	50	20	3	N	30	10	10
TX561H	30	20	20	70	20	2	N	30	10	10
TX562H	7	20	30	50	50	2	N	30	20	15
TX563H	7	20	20	50	20	2	N	30	10	5
TX564H	7	20	30	70	50	2	N	30	10	5
TX565H	50	30	30	200	20	7	N	30	30	10
TX566H	10	20	10	100	20	10	N	30	20	5
TX567H	10	20	20	70	20	5	N	30	10	10
TX568H	7	70	10	70	20	5	N	30	3	5
TX569H	7	30	20	200	50	10	<50	50	10	10
DTX569H	10	30	20	200	50	7	<50	50	10	10
TX570H	7	50	50	50	20	5	N	30	20	20
TX571H	10	10	10	100	N	5	N	30	10	5
TX572H	7	50	30	100	20	5	N	30	15	10
TX573H	20	20	20	100	20	3	N	30	20	10
TX574H	7	30	50	100	30	2	N	30	20	15
DTX574H	20	50	50	100	20	5	N	50	7	10
TX575H	20	30	50	70	20	5	N	30	10	10
TX576H	7	20	50	70	20	2	N	30	10	7
TX577H	15	30	50	100	50	5	N	30	20	10
TX578H	10	20	20	50	20	2	N	30	5	7
TX579H	30	30	30	100	20	5	N	30	20	10
TX580H	7	15	20	70	20	2	N	30	10	5

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Na-pct. s	Ga-ppm s
TX538H	N	1,500	200	N	30	1,000	100	.30	20
TX539H	N	1,500	100	N	20	2,000	100	.10	10
TX540H	N	2,000	100	N	50	2,000	100	.20	15
TX541H	N	1,500	100	N	N	2,000	70	.10	5
TX542H	N	1,500	100	N	20	2,000	50	.10	5
TX543H	10	1,500	200	N	20	1,500	150	.20	15
TX544H	N	1,500	200	N	20	1,500	150	.20	15
TX545H	N	1,500	200	N	30	1,000	200	.20	20
TX546H	N	1,500	150	N	20	1,000	100	.20	10
TX547H	N	1,500	150	N	10	2,000	70	.20	10
TX548H	N	1,500	200	N	20	1,000	200	.30	15
TX549H	N	1,500	200	N	30	1,500	200	.30	10
TX550H	N	1,500	100	N	10	2,000	50	.10	3
TX551H	N	1,500	100	N	10	2,000	100	.10	5
TX552H	N	1,500	150	N	20	2,000	100	.10	7
TX553H	N	1,500	200	N	30	1,000	300	.20	15
TX554H	N	1,500	200	N	20	1,500	200	.20	10
TX555H	N	1,500	200	N	30	1,500	200	.20	10
TX556H	N	1,500	100	N	10	2,000	100	.20	7
TX557H	N	1,500	150	N	20	1,000	150	.20	15
TX558H	N	1,500	150	N	10	2,000	100	.20	7
TX559H	N	1,000	200	N	30	1,500	100	.20	15
TX560H	N	1,500	100	N	10	1,500	100	.20	15
TX561H	N	1,500	100	N	15	2,000	100	.10	5
TX562H	N	1,500	200	N	30	1,000	200	.20	20
TX563H	N	2,000	70	N	N	1,000	70	.10	5
TX564H	N	2,000	100	N	20	1,000	100	.10	5
TX565H	N	1,500	100	N	20	1,000	100	.20	10
TX566H	N	1,500	100	N	10	2,000	70	.10	5
TX567H	N	1,500	150	N	20	1,000	150	.20	10
TX568H	N	1,500	100	N	<10	1,000	50	.10	5
TX569H	N	1,500	200	N	30	300	100	.20	10
DTX569H	N	1,500	100	N	30	200	100	.10	10
TX570H	N	1,500	200	N	30	300	200	.20	15
TX571H	N	1,000	100	N	N	1,500	70	.10	7
TX572H	N	1,500	150	N	30	1,500	150	.10	10
TX573H	N	1,500	150	N	30	300	200	.20	10
TX574H	N	700	100	N	30	1,000	200	.20	10
DTX574H	N	1,000	100	N	30	1,500	200	.20	10
TX575H	N	1,500	100	N	20	1,000	100	.20	7
TX576H	N	1,500	100	N	20	1,000	70	.20	7
TX577H	N	1,500	100	N	30	1,000	100	.20	10
TX578H	N	1,500	100	N	20	500	100	.10	7
TX579H	N	700	200	N	20	1,500	100	.20	7
TX580H	N	1,500	70	N	10	2,000	50	.10	3

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
TX581H	63 15 11	141 38 10	2.0	2.0	.20	>10,000	1.0	500	2,000	1
TX582H	63 16 21	141 32 40	5.0	2.0	.50	>10,000	.2	200	1,500	2
TX583H	63 16 55	141 48 15	5.0	1.0	.30	10,000	.5	300	1,500	3
TX584H	63 15 28	141 32 5	2.0	1.0	.10	10,000	.2	300	1,500	1
TX585H	63 13 57	141 43 28	2.0	1.0	.10	7,000	.2	300	1,500	1
TX586H	63 15 52	141 43 42	2.0	1.0	.20	10,000	.2	300	1,500	1
TX587H	63 14 8	141 47 15	5.0	1.0	.50	10,000	1.0	100	1,500	2
TX588H	63 17 0	141 50 20	5.0	1.0	.50	7,000	.5	100	1,500	3
TX589H	63 12 55	141 50 57	5.0	.7	.50	10,000	.5	300	1,500	2
TX590H	63 16 28	141 49 41	5.0	1.0	.50	5,000	.2	70	1,000	3
TX591H	63 9 47	141 47 50	2.0	1.0	.20	10,000	.5	300	1,500	1
TX592H	63 11 23	141 46 35	5.0	1.0	.70	7,000	.2	70	1,000	2
TX594H	63 17 57	141 14 15	2.0	2.0	.20	>10,000	1.0	300	3,000	3
TX595H	63 17 13	141 16 58	2.0	1.0	.20	10,000	.2	300	2,000	1
TX596H	63 14 38	141 12 35	2.0	1.0	.50	10,000	.5	150	1,500	3
TX597H	63 15 35	141 15 0	2.0	1.0	.20	10,000	.5	300	2,000	1
TX598H	63 11 47	141 7 25	5.0	1.0	.50	7,000	.5	300	1,500	2
TX599H	63 14 28	141 4 5	2.0	1.0	.20	10,000	1.0	500	2,000	1
TX600H	63 10 31	141 6 39	2.0	1.0	.20	10,000	1.0	300	3,000	2
TX601H	63 12 38	141 9 24	2.0	1.0	.20	10,000	1.0	300	2,000	1
TX602H	63 9 0	141 6 21	5.0	1.0	.30	10,000	1.5	500	2,000	2
TX603H	63 11 8	141 11 10	5.0	1.0	.50	7,000	.2	100	1,500	3
TX604H	63 8 11	141 6 49	5.0	1.0	.70	10,000	.5	200	1,500	2
TX605H	63 9 47	141 8 2	3.0	1.0	.20	>10,000	.5	500	2,000	1
DTX605H	63 9 47	141 8 2	2.0	1.0	.20	>10,000	.5	500	3,000	1
TX606H	63 6 59	141 7 38	5.0	1.0	.70	7,000	1.0	300	1,500	2
TX607H	63 7 45	141 9 18	2.0	1.0	.20	>10,000	1.0	300	2,000	1
TX608H	63 4 5	141 8 35	5.0	1.0	.20	10,000	1.0	300	3,000	2
TX610H	63 1 47	141 4 50	5.0	1.0	.70	7,000	.3	300	2,000	3
TX611H	63 4 41	141 6 30	3.0	3.0	.10	>10,000	1.0	500	1,500	1
TX612H	63 1 28	141 6 1	5.0	2.0	.70	5,000	.2	70	1,500	3
TX613H	63 2 11	141 7 50	5.0	2.0	.50	5,000	.2	200	1,500	3
TX614H	63 11 53	141 37 28	3.0	2.0	.20	>10,000	.5	500	1,500	1
TX615H	63 0 45	141 14 55	5.0	2.0	.20	>10,000	.2	500	1,500	1
TX616H	63 11 47	141 34 59	3.0	2.0	.20	7,000	.2	300	1,500	1
TX617H	63 12 22	141 37 6	5.0	2.0	.20	10,000	.2	300	1,500	1
TX618H	63 11 38	141 29 58	5.0	2.0	.50	7,000	.2	300	1,500	2
TX619H	63 11 10	141 30 0	3.0	5.0	.20	>10,000	.5	300	1,500	1
TX620H	63 8 28	141 40 16	3.0	1.0	.50	10,000	.2	100	1,500	2
TX621H	63 10 51	141 28 45	3.0	1.0	.70	3,000	.2	50	1,500	2
TX623H	63 8 32	141 36 46	5.0	1.0	.30	>10,000	2.0	300	1,500	5
TX624HB	63 7 45	141 21 31	3.0	2.0	.30	>10,000	.2	300	1,500	2
TX624HA	63 7 45	141 21 31	5.0	1.0	1.00	2,000	.2	70	1,500	2
TX625H	63 6 37	141 33 20	2.0	2.0	.20	7,000	.2	300	1,500	1
TX626H	63 7 23	141 25 15	2.0	1.0	.30	10,000	.2	200	1,500	2

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s
TX581H	10	70	10	100	20	5	N	30	5	5
TX582H	7	20	50	50	20	2	N	30	10	15
TX583H	10	30	20	200	100	5	50	30	50	15
TX584H	7	10	10	50	20	2	N	30	3	5
TX585H	7	70	50	100	20	N	N	30	5	5
TX586H	7	10	20	100	20	5	N	30	3	5
TX587H	20	30	50	100	20	5	N	30	10	15
TX588H	7	20	50	50	50	2	N	30	10	15
TX589H	10	30	30	70	50	5	N	30	10	15
TX590H	5	20	50	50	50	2	N	30	10	20
TX591H	5	10	20	50	20	2	N	30	5	7
TX592H	5	30	50	50	50	2	N	30	10	20
TX594H	10	100	30	200	70	10	N	50	30	10
TX595H	7	20	30	50	20	2	N	30	7	7
TX596H	7	20	30	50	20	N	N	30	10	15
TX597H	7	15	30	30	20	N	N	30	10	5
TX598H	20	30	50	70	30	2	N	30	20	15
TX599H	10	30	50	70	20	2	N	30	5	10
TX600H	10	30	30	70	20	2	N	30	20	10
TX601H	10	30	50	70	20	2	N	30	10	7
TX602H	7	20	30	50	20	2	N	30	10	10
TX603H	7	20	50	50	20	2	N	30	20	15
TX604H	7	30	50	50	20	2	N	30	20	20
TX605H	7	10	30	50	20	3	N	30	10	10
DTX605H	7	10	20	70	20	3	N	30	7	5
TX606H	10	10	50	50	20	3	N	30	20	20
TX607H	7	10	20	100	20	5	N	30	10	7
TX608H	10	20	50	100	20	3	N	30	10	10
TX610H	20	20	50	70	20	3	N	30	10	15
TX611H	20	20	20	100	70	5	N	30	15	5
TX612H	7	30	70	50	20	2	N	30	10	30
TX613H	7	30	50	70	30	2	N	30	20	20
TX614H	30	30	50	70	20	10	N	30	20	10
TX615H	30	30	50	70	30	5	N	30	20	10
TX616H	7	15	50	50	20	2	N	30	10	10
TX617H	10	30	30	200	20	5	N	50	20	10
TX618H	7	20	50	70	30	2	N	30	20	15
TX619H	10	200	20	100	50	10	N	30	10	10
TX620H	7	20	50	70	20	2	N	30	20	20
TX621H	7	30	50	30	20	2	N	30	20	30
TX623H	20	70	30	200	150	7	N	30	50	20
TX624HB	7	70	50	100	30	5	N	30	10	15
TX624HA	7	20	50	50	20	2	N	30	10	30
TX625H	7	20	30	70	20	2	N	30	20	10
TX626H	5	20	50	50	20	N	N	30	10	10

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Na-pct. s	Ga-ppm s
TX581H	N	1,000	100	N	30	1,500	70	.10	3
TX582H	N	1,000	200	N	20	1,000	100	.30	10
TX583H	N	1,000	100	N	50	1,000	100	.20	7
TX584H	N	1,500	70	N	N	1,500	50	.10	3
TX585H	N	1,500	70	N	N	1,500	50	.10	5
TX586H	N	1,500	70	N	10	1,500	100	.10	2
TX587H	N	1,500	200	N	30	1,500	200	.20	10
TX588H	N	1,500	200	N	30	1,500	200	.20	15
TX589H	N	1,500	200	N	30	1,500	200	.10	10
TX590H	N	1,000	200	N	30	1,000	200	.20	15
TX591H	N	1,000	100	N	10	1,000	100	.20	7
TX592H	N	1,000	200	N	30	1,000	200	.20	15
TX594H	N	1,500	200	N	50	1,500	70	.20	7
TX595H	N	1,500	100	N	10	1,500	70	.15	7
TX596H	N	1,000	150	N	20	1,000	150	.20	20
TX597H	N	1,500	100	N	20	1,500	100	.10	5
TX598H	N	1,000	200	N	20	1,500	100	.20	15
TX599H	N	1,000	100	N	20	2,000	70	.20	7
TX600H	N	1,000	100	N	20	2,000	70	.20	7
TX601H	N	1,500	100	N	10	1,500	100	.20	7
TX602H	N	1,500	100	N	30	1,500	100	.20	10
TX603H	N	1,500	150	N	30	1,500	100	.20	15
TX604H	N	1,000	150	N	30	1,500	200	.20	15
TX605H	N	1,000	100	N	10	1,500	100	.20	7
DTX605H	N	1,500	100	N	10	2,000	70	.10	3
TX606H	N	1,000	100	N	30	1,000	200	.30	10
TX607H	N	1,500	100	N	10	1,500	100	.15	5
TX608H	N	1,500	100	N	30	1,500	70	.20	10
TX610H	N	1,500	200	N	20	1,500	100	.20	10
TX611H	N	1,000	100	N	10	2,000	70	.10	5
TX612H	N	1,000	200	N	20	500	300	.30	15
TX613H	N	1,000	200	N	30	500	200	.30	20
TX614H	N	1,000	100	N	20	2,000	100	.10	5
TX615H	N	1,000	200	N	15	1,500	70	.10	5
TX616H	N	1,000	150	N	15	2,000	100	.20	7
TX617H	N	1,500	100	N	20	1,500	100	.20	7
TX618H	N	1,000	200	N	20	1,000	150	.20	10
TX619H	N	1,000	200	N	30	1,500	100	.20	10
TX620H	N	1,000	200	N	30	1,000	200	.20	20
TX621H	N	1,000	200	N	30	500	200	.20	20
TX623H	<5	1,000	200	N	50	1,000	200	.20	20
TX624HB	N	1,000	200	N	20	1,000	100	.20	10
TX624HA	N	1,000	200	N	30	1,000	200	.20	20
TX625H	N	1,500	100	N	10	2,000	100	.20	10
TX626H	N	1,000	200	N	10	1,000	100	.20	10

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
TX628H	63 4 45	141 25 3	2.0	3.0	.20	3,000	.5	100	700	1
DTX628H	63 4 45	141 25 3	5.0	1.0	.70	10,000	.3	100	1,500	2
TX629H	63 4 56	141 33 10	3.0	1.0	.70	2,000	.2	70	1,000	1
TX630H	63 1 20	141 28 30	1.0	2.0	.20	>10,000	.2	500	1,500	N
TX631H	63 3 28	141 22 11	2.0	2.0	.20	>10,000	.3	500	1,000	1
TX632H	63 1 30	141 34 10	3.0	2.0	.50	>10,000	.2	100	1,500	2
TX633H	63 2 9	141 20 46	2.0	1.0	.50	5,000	.2	300	1,000	2
TX634H	63 0 9	141 39 25	2.0	1.0	.30	10,000	.3	300	1,500	1
TX635H	63 2 10	141 30 38	2.0	2.0	.20	>10,000	.3	500	1,500	2
TX636H	63 0 50	141 41 50	5.0	1.0	.70	>10,000	.3	200	1,500	2
TX637H	63 3 25	141 39 15	>5.0	1.0	.30	10,000	.3	70	1,500	3
TX638H	63 2 27	141 48 22	3.0	1.0	.30	7,000	.5	300	1,500	1
TX639H	63 4 47	141 49 15	2.0	1.0	.30	10,000	.3	200	1,500	1
TX640H	63 5 25	141 58 0	2.0	1.0	.50	5,000	.3	300	1,500	1
TX641HA	63 5 20	141 50 10	3.0	1.0	.20	>10,000	.5	300	1,500	1
TX641HB	63 4 50	141 49 45	5.0	1.0	.50	5,000	.2	300	1,500	3
TX642H	63 16 18	141 15 2	2.0	1.0	.20	7,000	.5	300	2,000	1

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s
TX628H	N	30	20	70	N	5	N	30	10	15
DTX628H	7	30	50	70	20	5	N	30	20	20
TX629H	5	20	50	50	50	2	N	30	10	20
TX630H	20	30	30	70	20	10	N	30	10	5
TX631H	10	30	20	100	20	10	N	30	10	5
TX632H	10	30	50	100	20	5	N	30	10	20
TX633H	10	20	20	100	20	10	N	30	20	10
TX634H	10	20	20	100	20	10	N	30	20	10
TX635H	10	50	20	200	20	10	N	50	30	10
TX636H	20	30	30	100	20	5	N	30	10	20
TX637H	7	70	30	70	20	10	N	30	10	20
TX638H	20	30	50	70	20	2	N	30	20	15
TX639H	7	20	50	50	20	N	N	30	30	10
TX640H	7	20	30	70	20	5	N	30	10	10
TX641HA	10	30	30	100	20	5	N	30	10	10
TX641HB	7	20	50	70	20	5	N	30	20	20
TX642H	7	20	20	70	20	N	N	30	10	10

Table 2 -- Spectrographic Analyses of Mull Samples Collected in the Tanacross Quadrangle, Alaska.--continued

Sample	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Na-pct. s	Ga-ppm s
TX628H	N	1,500	150	N	10	1,000	20	.30	15
DTX628H	N	1,000	200	N	30	1,000	500	.30	20
TX629H	N	1,000	200	N	30	200	200	.30	20
TX630H	N	1,500	100	N	10	2,000	100	.10	5
TX631H	N	1,500	150	N	10	2,000	100	.10	10
TX632H	N	1,000	200	N	20	2,000	200	.20	10
TX633H	N	1,000	150	N	15	1,000	100	.20	7
TX634H	N	1,500	150	N	10	1,500	100	.20	10
TX635H	N	1,500	200	N	30	1,000	100	.20	5
TX636H	N	1,000	200	N	30	1,500	200	.20	10
TX637H	N	1,000	300	N	30	500	200	.20	10
TX638H	N	1,000	200	N	20	1,000	100	.20	10
TX639H	N	1,000	200	N	20	1,500	100	.20	10
TX640H	N	1,000	200	N	20	1,000	100	.20	7
TX641HA	N	1,500	200	N	30	1,000	70	.20	7
TX641HB	N	1,000	100	N	20	1,000	100	.20	10
TX642H	N	1,500	100	N	20	2,000	200	.10	7

TABLE 3.--Spectrographic analyses of elements found in one to three mull samples

The following elements were not detected except in the samples listed:

As	TX 108H (200 ppm)
	TX 109H (700 ppm)
Sb	TX160H (100 ppm)
Li	TX 043H (200 ppm)
	TX 423H (700 ppm)
	TX 425H (200 ppm)
Bi	TX 334H (7 ppm)