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Analysis of 721 soil samples from the Panoche Fan area of the San Joaquin Valley, California

by

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INTRODUCTION

In 1982 the U.S. Fish and Wildlife Service noticed that mosquito fish and nesting birds in the Kesterson National Wildlife Refuge (KNWR), located in the north-central San Joaquin Valley of Merced County, California, were suffering high mortality from excessive selenium in their food source. It was suggested that selenium was being deposited in the refuge from agricultural return flow waters being channeled into the refuge and in 1985, the Department of Interior announced plans to stop all water from entering the Kesterson Ponds, (Coppock, 1985). A selected group of soil samples was collected from the irrigation district where the return-flow waters originated. Figure 1 displays the area which is located in the San Luis Unit of the Central Valley Project in western Fresno County. The samples were collected in order to examine and evaluate the potential long term effects of selenium and other environmentally sensitive elements in the valley soils. The sampling area is located on coalescing alluvial fans of Panoche and Cantua Creeks that spread northeastward from the Coast Range toward the valley trough. A variety of trace and major element techniques were utilized on these samples, including inductively coupled plasma emission spectroscopy (ICP) for major and trace elements; hydride generation atomic absorption spectroscopy (Hg-AAS) for arsenic and selenium; cold vapor atomic absorption spectroscopy (CV-AAS) for mercury; and combustion infrared absorption spectroscopy (CIRAS) for carbon and sulfur. The precision and detection limits of these methods provided investigators with the opportunity to develop a detailed understanding of the geochemical distribution of elements in the soils of the irrigation district.

FIELD SAMPLING

A total of 721 sites (figure 2) were located using land survey section lines on a 1 mile x 1 mile grid. Some samples were wet when collected due to recent irrigation. Field numbers reflect the location of the sample sites: the first pair of digits is the section number, the second pair of digits is the township (south), the third pair is the range (west), and the final digit is the position within the section--1, northeast corner, 2, northwest corner, 3, southwest corner, and 4, southeast corner.

At each sample site, the soil was sampled using a 3-inch barrel auger and composited over the depth interval of 66-72 inches. All of the sites, barring a few along the western mountain front, represented soils that are currently in agricultural production and are periodically subject to irrigation, usually by overhead sprinklers. Samples (approx. 1 kg) were placed in paper sample bags and sent directly to the Geologic Division Laboratories.

SAMPLE PREPARATION

Upon arrival at the laboratory, all samples were promptly dried using forced air at ambient temperature and then crushed and sieved through a 2 mm stainless steel screen. The material larger than 2 mm was thoroughly mixed

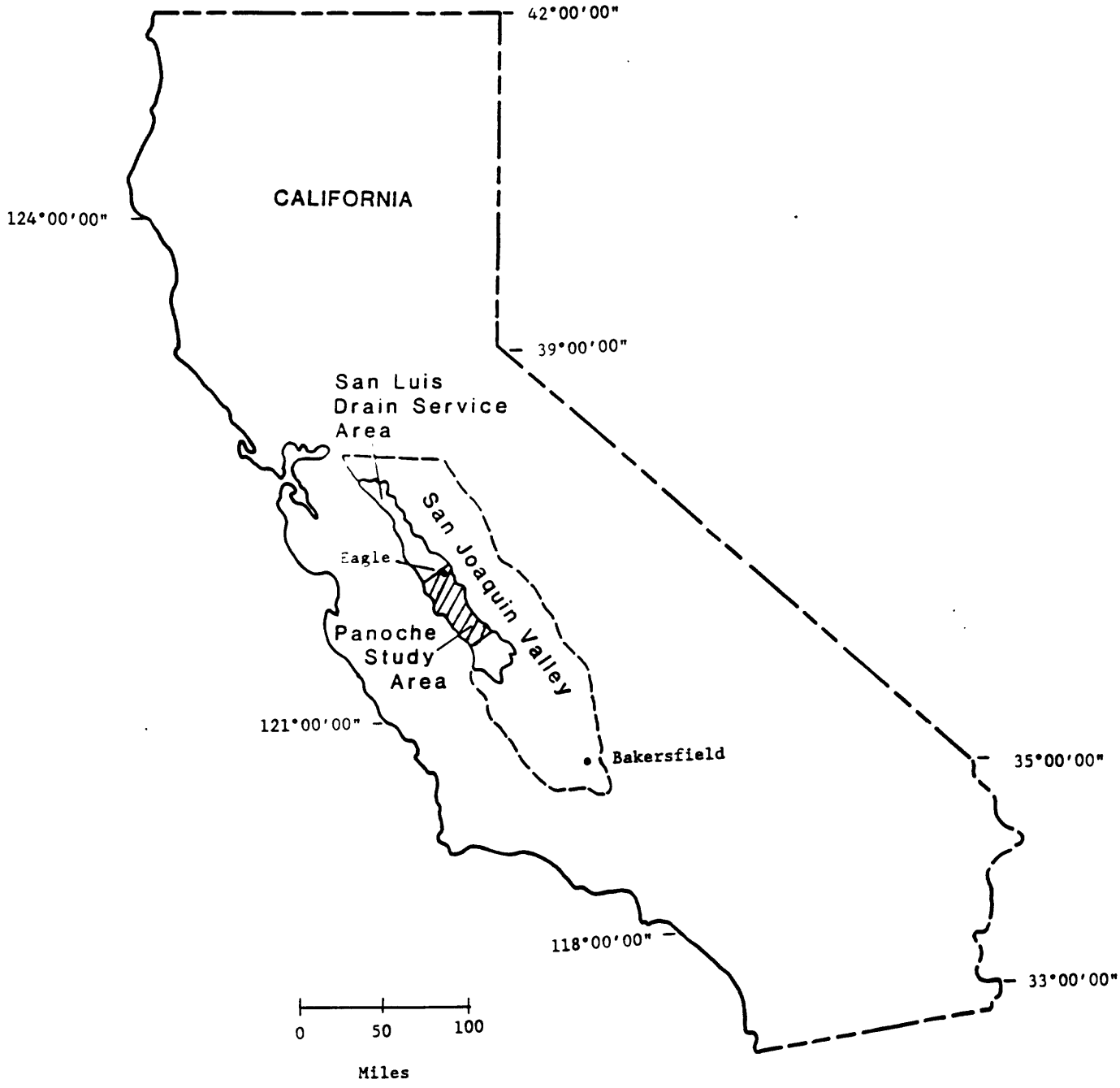

Figure 1. Map showing the general location of the Panoche Fan study area.

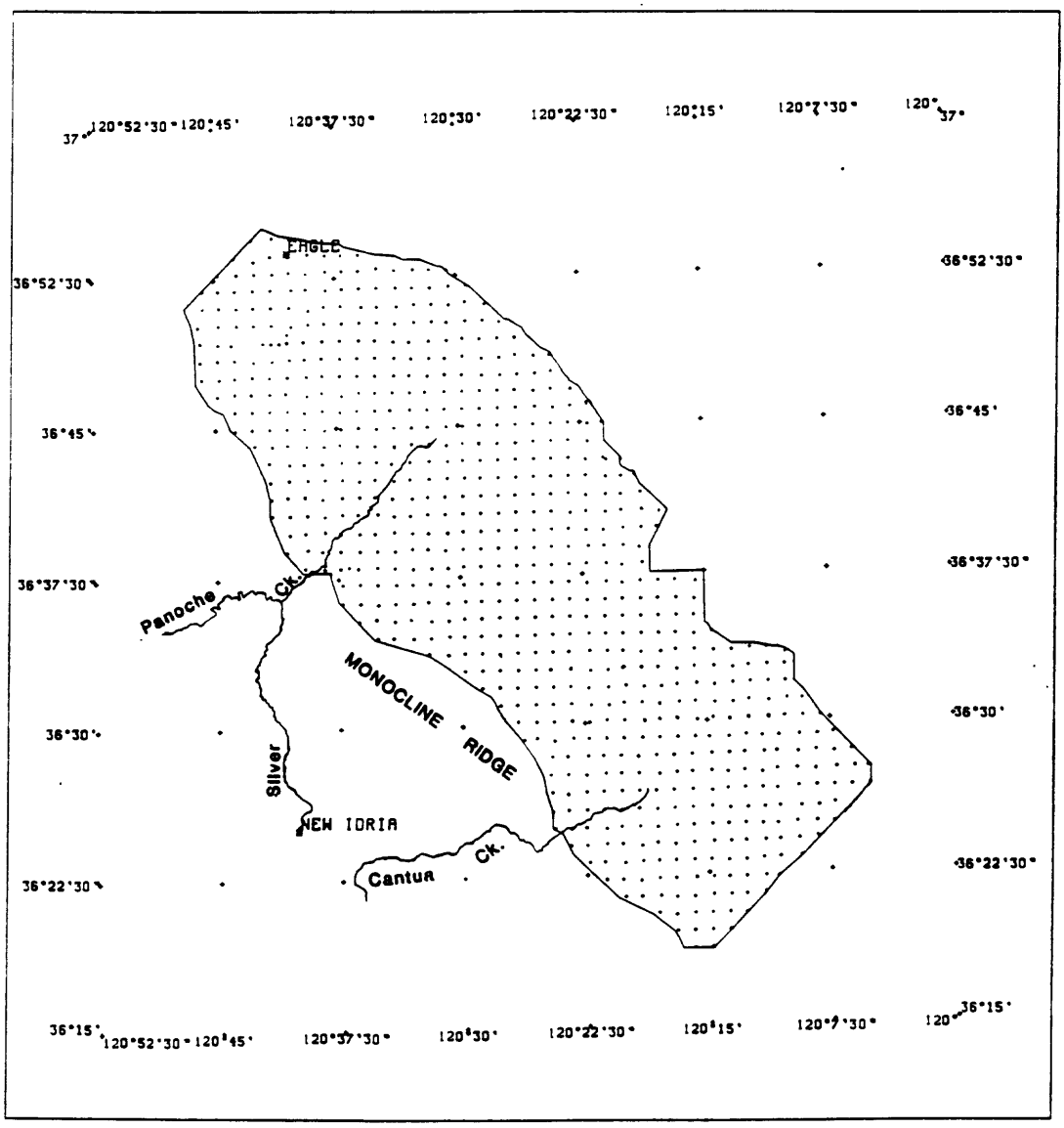

Figure 2. Map showing the sample collection sites in the Panoche Fan area. Each dot represents a sample location.

and split using a Jones splitter. A subsample was ground in a ceramic shatter box to minus 100 mesh and submitted for chemical analysis.

ANALYTICAL TECHNIQUES

The following discussion of analytical techniques provides an overview of the methods used in this study. In addition to the references cited under each method, details for all methods are given in U.S. Geological Survey Bulletin 1770, (Baedecker, 1987).

Inductively-Coupled Plasma Emission Spectroscopy

Samples were analyzed simultaneously for 32 elements (table 1) using ICP. The following elements (their lower limit of determination in parts per million) were analyzed for by ICP but not detected: As (10), Au (8), Be (1), B (10), Eu (2), Ho (4), Nb (4), Sn(10), Ta (40), U (100), and Yb (1). Each sample (0.200g) was dissolved, using a low-temperature multi-acid digestion with concentrated hydrochloric, hydrofluoric, nitric, and perchloric acids (Crock et al., 1983). Lutetium was added to the digestion to serve as an internal standard (5 ppm final solution). The sample solution was taken to a final dryness and the residue dissolved with 1 ml of aqua regia and diluted to 10 ml with 1% nitric acid. Reagent blanks, reference materials, and sample replicates were all digested and analyzed simultaneously with the samples. Lower limits of determination are shown in table 1. The relative standard deviation (RSD) for replicate determinations of most elements is about 5 percent.

Cold Vapor Atomic Absorption Spectroscopy

Cold vapor atomic absorption spectroscopy method was used to determine mercury (Kennedy and Crock, 1987). A 0.1g sample was digested with nitric acid and a 25% (W/V) sodium dichromate solution in a 30 ml teflon bomb for 3 hours at 110 degrees C. The sample was allowed to cool (overnight) and the contents quantitatively transferred to a 16mm x 100mm disposable glass test tube. The mass of the final solution was adjusted to 12.00g with deionized water. An aliquot of the sample was removed and combined with a solution of hydroxylamine hydrochloride followed by a 10% stannous chloride solution in a continuous flow system to produce a vapor of elemental mercury. The mercury vapor was separated from the aqueous phase using a specially designed glass phase separator and swept into the absorption cell, which is situated in the light path of the spectrometer. Quantification of mercury was performed using a series of aqueous standards and the appropriate linear regression procedures. The lower limit of determination is given in table 1. The RSD for the method is about 10 percent.

Continuous-Flow Hydride Generation Atomic Absorption Spectroscopy

Arsenic and selenium were determined by HG-AAS (Briggs and Crock, 1986; Crock and Lichte, 1982). One gram of sample was digested with nitric, perchloric, sulfuric and hydrofluoric acids. After digestion, the sample was diluted to 100 ml with 10% hydrochloric acid and allowed to sit overnight, to ensure the conversion of Se-VI to Se-IV. The sample was reacted with sodium borohydride in a continuous flow system to generate the appropriate gaseous hydride compound. The hydride gas was separated from the aqueous phase using a specially designed phase separator, and the gas swept into a quartz atomization cell (Hatfield, D.B., 1987) positioned in the light path of the atomic absorption spectrometer. Arsenic was quantified using a series of standards and the appropriate liner regression procedure. Selenium was quantified using the method of standard additions. The lower limits of determination for arsenic and selenium are shown in table 1. The RSD for the determination of both elements is about 10 percent.

Combustion Infrared Absorption Spectroscopy

Total carbon and total sulfur were determined by CIRAS (Baedecker, ed. 1987). Total carbon determination was performed using a Leco model CR12 total carbon analyzer. Samples (0.5 - 1.0g) were combusted at 1370° C in an oxygen atmosphere. Total sulfur was performed using a Leco model SC132 total sulfur analyzer. These samples (0.25g) were mixed with vanadium pentoxide (1g) and then combusted at 1400 to 1600° C in an oxygen atmosphere. The carbon dioxide and sulfur dioxide gases generated during the heating process were swept into infrared detectors. Both instrument calibrations were accomplished using standards closely approximating the analyte concentration and sample matrix. The RSD for the determination of total carbon is 10% and for total sulfur is 5-10%.

PRESENTATION OF RESULTS

The analytical methods used and the lower limits of determination for each method and each element are presented in table 1. Table 2 lists the minimum and maximum values and the number of qualified samples for each element in the study area. Elements rarely found in detectable amounts are shown in table 3. Table 4 gives the location and analytical results for the samples.

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Hatfield, D.B., 1987, Electrically heated quartz atomization cell for hydride generation-atomic absorption spectrophotometry: Analytical Chemistry v. 59, p. 1887-1888.

Kennedy, K.R., and Crock, J.G., 1987, Determination of mercury in geologic samples by continuous flow cold-vapor atomic absorption spectrometry: Analytical Letters, v. 20, p. 899-908.

Table 1.--Limits of determination for analytical methods used

[Parts per million unless otherwise noted.]

Elements & Methods*	Lower limit
Aluminum (Al-I), %	.05
Arsenic (As-H)	.1
Barium (Ba-I)	1
Beryllium (Be-I)	1
Cadmium (Cd-I)	1
Calcium (Ca-I), %	.05
Carbon (C-IR), %	.01
Cerium (Ce-I)	4
Cobalt (Co-I)	1
Chromium (Cr-I)	1
Copper (Cu-I)	1
Gallium (Ga-I)	4
Iron (Fe-I), %	.05
Lanthanum (La-I)	2
Lead (Pb-I)	4
Lithium (Li-I)	2
Magnesium (Mg-I), %	.005
Manganese (Mn-I)	4
Mercury (Hg-C)	.02
Molybdenum (Mo-I)	2
Neodymium (Nd-I)	4
Nickel (Ni-I)	2
Phosphorus (P-I), %	.005
Potassium (K-I), %	.05
Scandium (Sc-I)	2
Selenium (Se-H)	.1
Silver (Ag-I)	2
Sodium (Na-I), %	.005
Strontium (Sr-I)	2
Sulfur (S-IR)	.01
Thorium (Th-I)	4
Titanium (Ti-I), %	.005
Vanadium (V-I)	2
Ytterbium (Yb-I)	1
Yttrium (Y-I)	2
Zinc (Zn-I)	2

* C, cold-vapor atomic absorption; H, hydride-generation atomic absorption; I, inductively coupled plasma emission spectroscopy; IR, combustion infrared absorption spectrophotometry.

Table 2.--Number of samples with qualifying codes and minimum and Maximum unqualified values in 721 soil samples from the Panoche Fan study area, Fresno County, California.

[Qualified, less than lower limit of determination; values in parts per million unless otherwise noted.]

Element	Qualified	Unqualified	Minimum unqualified value	Maximum unqualified value
Ag	719	2	4	9
Al %	0	721	3.2	17
As	0	721	3.4	21
Ba	0	721	54	2300
Be	52	669	1	3
C %	2	719	.02	4.0
Ca %	0	721	1.00	7.70
Cd	719	2	8	58
Ce	0	721	17	88
Co	0	721	5	34
Cr	0	721	11	410
Cu	0	721	2	86
Fe %	0	721	1.50	8.50
Ga	0	721	6	39
Hg	142	579	.02	2.5
K %	0	721	.83	4.6
La	0	721	9	5
Li	0	721	15	170
Mg	0	721	.39	4.6
Mn	0	721	250	1400
Mo	633	88	2	9
Na %	0	721	.75	2.8
Nd	0	721	8	45
Ni	0	721	6	380
P %	0	721	.03	.17
Pb	0	721	7	96
S %	42	679	.01	3.9
Sc	0	721	3	30
Se	8	713	.1	4.5
Sr	0	721	140	990
Th	5	716	4	26
Ti %	0	721	.08	.68
V	0	721	30	260
Y	0	721	7	31
Yb	8	713	1	4
Zn	0	721	27	230

Table 3.--Chemical analyses for silver and cadmium

[ppm, parts per million; I,inductively coupled plasma emission spectroscopy.]

SAMPLE	Latitude	Longitude	Ag ppm-I
0216164	36 33 38	120 11 16	9
2316144	36 31 00	120 24 27	4

SAMPLE	Latitude	Longitude	Cd ppm-I
0517154	36 28 23	120 21 25	8
3317153	36 24 02	120 21 15	58

Table 4.--Total chemical analyses and locations of soil samples 66-77 inches in depth from the Panoche Fan study area, Fresno County, California. [L, detected but below the limit of determination shown; C, cold-vapor atomic absorption; H, hydride-generation atomic absorption; I, inductively-coupled-plasma atomic emission spectroscopy; IR, infrared absorption spectrophotometry.]

SAMPLE	LATITUDE	LONGITUDE	Al %-I	As ppm-H	Ba ppm-I	Be ppm-I	C %-IR	Ca %-I	Ce ppm-I	Co ppm-I
0113132	36 50 10	120 30 36	8.50	10.00	850	1	.50	1.70	43	19
0113134	36 49 21	120 29 38	7.80	11.00	800	1	.63	2.50	42	16
0114122	36 44 56	120 37 12	8.00	9.30	990	1	.67	2.30	41	16
0114134	36 44 5	120 29 44	7.70	8.10	1100	1	.57	2.00	40	14
0114144	36 44 7	120 23 15	7.60	6.10	990	1	.39	1.50	40	14
0115132	36 39 41	120 30 44	5.90	7.40	1100	1 L	.39	1.70	32	13
0115134	36 38 52	120 29 47	7.50	9.10	1000	1	.55	2.10	46	14
0115144	36 38 51	120 23 18	6.70	6.80	910	1	.17	1.30	30	13
0116134	36 33 39	120 29 48	7.10	9.20	950	1	.58	2.20	36	12
0116144	36 33 38	120 23 27	6.40	6.60	920	1	.31	2.40	31	9
0116154	36 33 37	120 16 51	7.40	9.70	810	1	.21	1.10	41	26
0117142	36 29 10	120 24 25	5.70	5.80	1100	1 L	.30	3.40	34	9
0117143	36 28 23	120 24 34	6.60	11.00	1000	1	.48	2.20	36	10
0117144	36 28 23	120 23 36	7.10	7.00	820	1	.49	2.20	40	11
0117154	36 28 22	120 17 5	7.60	10.00	860	1	.44	1.70	41	20
0117163	36 28 25	120 11 31	7.90	10.00	410	1	.40	1.20	41	24
0117164	36 28 26	120 10 46	7.80	7.40	840	1	.15	1.50	39	17
0118151	36 23 57	120 17 4	7.60	8.40	930	1	.29	1.50	42	13
0118154	36 23 9	120 17 3	6.30	5.40	950	1	.24	1.80	34	13
0213124	36 49 22	120 37 13	8.80	8.00	760	1	.67	2.10	46	18
0214111	36 44 55	120 43 46	7.30	11.00	600	1	.33	3.70	35	12
0214122	36 44 54	120 38 13	5.60	5.20	1200	1 L	.26	1.50	28	8
0214124	36 44 8	120 37 19	7.60	12.00	960	1	.66	2.00	45	14
0214133	36 44 7	120 31 47	7.10	10.00	1000	1	.55	2.00	40	14
0214144	36 44 7	120 24 19	7.10	9.00	1000	1	.39	1.70	41	13
0215121	36 39 43	120 37 18	7.00	8.30	1000	1	.46	2.00	40	13
0215144	36 38 53	120 24 23	8.50	9.20	830	1	.53	2.20	45	17
0216132	36 34 27	120 31 51	7.00	7.90	860	1	.36	2.10	32	13
0216144	36 33 38	120 24 25	7.20	7.60	1100	1	.39	2.30	40	11
0216163	36 33 38	120 12 18	7.50	6.20	520	1	.18	5.20	36	23
0216164	36 33 38	120 11 16	7.80	7.20	590	1	.38	3.00	40	21
0217154	36 28 21	120 18 10	7.50	11.00	860	1	.37	1.30	41	20
0217161	36 29 12	120 11 38	7.10	9.90	800	1	.29	1.90	36	18
0218152	36 23 53	120 19 6	7.80	9.60	1000	1	.30	1.70	44	15
0218153	36 23 9	120 19 5	7.90	8.80	880	1	.30	1.50	45	16
0218154	36 23 9	120 18 6	7.00	7.40	930	1	.25	2.00	40	15
0218164	36 23 11	120 11 38	8.00	8.80	680	1 L	.27	2.10	35	22
0313124	36 49 22	120 38 17	7.60	11.00	730	1	.56	2.10	40	15
0314133	36 44 6	120 32 51	7.90	7.70	890	1	.40	1.10	43	14
0314144	36 44 7	120 25 24	5.90	7.10	1200	1	.33	1.80	31	13

Table 4.--Continued

SAMPLE	Cr ppm-I	Cu ppm-I	Fe %-I	Ga ppm-I	Hg ppm-C	K %-I	La ppm-I	Li ppm-I	Mg ppm-I	Mn ppm-I
0113132	180	45	4.20	18	.20	2.10	24	66	2.00	580
0113134	150	43	4.10	18	.10	1.80	23	68	1.80	580
0114122	120	36	3.50	16	.13	1.80	22	55	1.30	610
0114134	130	37	3.40	16	.29	1.90	21	55	1.30	530
0114144	140	30	3.60	17	.10	2.40	23	52	1.40	580
0115132	150	23	2.60	11	.29	2.00	18	33	1.40	470
0115134	130	35	3.70	16	.21	2.10	25	59	1.30	550
0115144	150	22	2.50	12	.16	2.20	17	33	1.40	400
0116134	150	27	2.90	16	.02L	1.70	19	33	1.10	380
0116144	91	19	2.40	14	.03	2.20	19	37	.85	380
0116154	350	40	4.30	17	.07	2.20	22	62	3.50	700
0117142	77	18	2.30	13	.02L	1.90	19	32	.77	370
0117143	110	27	3.00	16	.02L	1.90	21	38	.98	380
0117144	100	28	3.30	15	.02L	1.90	23	50	1.10	410
0117154	180	37	4.00	17	.04	1.50	22	64	2.40	550
0117163	220	44	4.60	18	.02L	1.60	23	71	3.00	630
0117164	140	38	3.80	16	.03	2.10	23	46	1.70	530
0118151	150	27	3.40	16	.02	2.30	24	56	1.50	470
0118154	160	20	2.60	13	.02L	2.40	19	35	1.40	430
0213124	170	57	4.50	18	.10	1.60	24	76	1.70	600
0214111	94	28	2.90	14	.02L	1.60	20	45	.82	430
0214122	57	14	1.90	10	.24	2.90	17	24	.59	390
0214124	94	39	3.80	17	.09	1.50	28	62	1.30	550
0214133	130	31	3.30	15	.17	2.20	22	50	1.30	560
0214144	140	30	3.30	16	.30	2.30	22	49	1.30	540
0215121	110	26	3.00	15	.13	2.30	21	46	1.10	520
0215144	120	42	3.90	17	.15	1.30	24	70	1.60	590
0216132	140	23	2.80	15	.02L	1.80	20	32	1.10	440
0216144	130	27	3.40	17	.02	2.00	24	48	1.20	430
0216163	230	44	4.10	18	.02	1.50	18	64	2.70	700
0216164	170	46	4.80	19	.03	1.50	22	66	2.10	620
0217154	210	40	4.00	17	.06	1.90	23	67	2.50	570
0217161	150	29	3.40	16	.07	1.80	19	46	2.10	530
0218152	140	31	3.30	17	.02L	1.70	23	56	1.50	470
0218153	170	32	3.60	16	.02L	1.30	24	59	1.80	470
0218154	130	22	2.70	13	.02L	2.20	22	41	1.50	420
0218164	170	38	3.90	16	.06	1.70	18	42	2.00	560
0313124	130	37	3.80	19	.06	1.80	23	63	1.60	550
0314133	120	40	3.90	18	.06	2.00	24	60	1.40	580
0314144	200	19	2.50	11	.49	2.40	17	31	1.60	470

Table 4.--Continued

SAMPLE	Mo ppm-I	Na %-I	Nd ppm-I	Ni ppm-I	P %-I	Pb ppm-I	S %-IR	Sc ppm-I	Se ppm-H	Sr ppm-I
0113132	2	1.10	23	110	.06	20	.03	16	.90	230
0113134	2 L	1.10	20	100	.07	18	.59	14	.80	230
0114122	2 L	1.50	19	73	.06	17	.03	13	1.10	270
0114134	2 L	1.20	16	73	.06	18	.05	12	1.00	260
0114144	2 L	1.30	20	85	.07	20	.03	12	.90	230
0115132	2 L	1.30	13	100	.05	15	.03	8	.80	240
0115134	2 L	1.30	21	73	.06	18	.04	12	1.00	240
0115144	2 L	1.50	12	94	.04	15	.05	8	.60	250
0116134	2	1.40	16	62	.11	14	.22	11	4.50	330
0116144	2 L	1.20	15	42	.05	20	.59	7	.90	300
0116154	2 L	1.50	20	310	.09	17	.26	14	1.50	170
0117142	2 L	1.10	16	44	.06	17	1.43	7	.80	260
0117143	2	1.10	17	49	.08	16	.45	9	1.70	270
0117144	2 L	1.00	19	51	.05	14	.55	10	1.70	250
0117154	2 L	1.20	18	160	.06	20	.05	13	.70	200
0117163	2 L	1.60	19	210	.07	16	.60	16	.70	190
0117164	2 L	1.80	22	110	.06	16	.01L	13	.40	250
0118151	2 L	1.30	20	97	.06	16	.03	10	.70	210
0118154	2 L	1.40	17	110	.06	16	.04	8	.70	240
0213124	2 L	1.00	18	92	.06	18	.33	17	1.00	230
0214111	2 L	1.20	14	47	.06	16	1.71	10	1.00	250
0214122	2 L	1.60	13	37	.04	14	.02	5	.50	240
0214124	2 L	1.30	23	67	.06	18	.03	12	1.40	230
0214133	2 L	1.50	19	76	.06	16	.02	10	.90	250
0214144	2 L	1.50	20	80	.05	18	.03	10	.80	240
0215121	2 L	1.60	18	72	.05	16	.03	9	1.00	260
0215144	2 L	1.10	19	87	.06	29	.05	14	.90	260
0216132	2	1.40	18	58	.10	14	.23	11	1.80	320
0216144	2 L	1.20	21	60	.07	18	.40	11	1.60	290
0216163	3	1.50	17	190	.05	33	3.57	17	.30	500
0216164	3	1.70	21	150	.05	30	1.86	19	.10	190
0217154	2 L	1.20	19	210	.05	18	.04	13	.90	190
0217161	2 L	1.70	18	130	.06	13	.05	11	.40	260
0218152	2 L	1.30	18	90	.06	20	.08	12	.90	250
0218153	2 L	1.20	19	110	.07	20	.06	13	1.10	230
0218154	2 L	1.40	18	120	.07	22	.25	9	.70	250
0218164	2 L	1.90	18	120	.07	15	.05	15	.30	320
0313124	2 L	1.30	19	88	.05	17	.37	13	.60	220
0314133	2 L	1.20	21	77	.04	17	.04	13	.80	200
0314144	2 L	1.50	14	130	.04	13	.02	7	.50	250

Table 4.--Continued

SAMPLE	Th ppm-I	Ti %-I	V ppm-I	Y ppm-I	Yb ppm-I	Zn ppm-I
0113132	10	.31	140	16	2	120
0113134	14	.34	130	15	2	110
0114122	12	.33	110	14	2	96
0114134	8	.31	110	14	2	99
0114144	12	.32	110	14	2	96
0115132	8	.21	62	10	1	59
0115134	13	.33	110	15	2	100
0115144	7	.23	71	11	1	62
0116134	7	.29	130	14	1	96
0116144	8	.23	81	10	1	66
0116154	11	.33	120	16	2	100
0117142	8	.24	78	10	1	61
0117143	9	.29	120	13	1	97
0117144	12	.32	120	14	1	100
0117154	10	.32	110	16	2	100
0117163	13	.35	140	17	2	120
0117164	8	.32	110	15	2	83
0118151	12	.29	94	14	2	87
0118154	9	.24	75	12	1	68
0213124	13	.39	150	17	2	120
0214111	10	.30	87	13	1	86
0214122	5	.18	46	9	1	47
0214124	13	.35	110	17	2	110
0214133	9	.29	92	14	2	90
0214144	10	.29	95	14	2	89
0215121	10	.28	82	13	2	84
0215144	11	.33	130	15	2	110
0216132	8	.30	120	14	2	86
0216144	11	.33	130	14	2	100
0216163	8	.30	130	14	2	100
0216164	11	.35	140	17	2	110
0217154	12	.32	120	15	2	100
0217161	8	.30	97	14	2	75
0218152	11	.32	110	15	2	100
0218153	10	.33	120	15	2	110
0218154	9	.25	86	13	2	77
0218164	6	.31	110	14	2	80
0313124	11	.33	120	14	2	99
0314133	13	.34	120	15	2	100
0314144	7	.23	63	10	1	55

Table 4.--Continued

SAMPLE	LATITUDE	LONGITUDE	Al %-I	As ppm-H	Ba ppm-I	Be ppm-I	C %-IR	Ca %-I	Ce ppm-I	Co ppm-I
0315123	36 38 58	120 39 21	7.20	12.00	220	1	.27	2.10	38	11
0315131	36 39 42	120 31 55	7.20	8.20	1000	1	.36	1.70	39	12
0315132	36 39 42	120 32 53	7.40	9.20	870	1	.36	2.10	43	12
0315133	36 38 56	120 32 54	7.20	11.00	170	1	.38	3.00	35	10
0315134	36 38 54	120 31 57	6.80	6.00	940	1	.42	2.10	35	10
0315144	36 38 51	120 25 27	7.00	8.70	1000	1	.51	2.10	38	13
0315153	36 38 51	120 19 54	7.00	14.00	1000	1	.56	2.50	34	11
0316132	36 34 27	120 32 56	6.50	6.80	160	1	.40	3.50	32	10
0316134	36 33 39	120 31 59	5.70	12.00	1200	1	.48	2.90	34	9
0316144	36 33 38	120 25 30	6.60	8.20	890	1	.36	1.80	34	11
0317141	36 29 15	120 26 15	5.40	5.30	1100	1 L	.90	4.90	28	9
0317162	36 29 12	120 13 40	7.70	13.00	830	1	.41	1.20	42	23
0317163	36 28 24	120 13 40	7.00	9.70	940	1	.31	1.30	40	20
0317164	36 28 25	120 12 43	7.30	9.00	760	1	.23	2.60	40	18
0317174	36 28 25	120 6 15	7.90	8.90	590	1	.23	1.70	37	22
0413111	36 50 8	120 45 60	8.10	9.10	920	1	.20	1.70	47	12
0413114	36 49 20	120 45 52	7.20	10.00	1200	1	.19	1.70	41	13
0413122	36 50 8	120 40 13	7.90	9.00	780	1	.42	2.30	41	20
0413124	36 49 20	120 39 27	7.90	11.00	800	1	.62	1.80	42	16
0413132	36 50 9	120 33 46	8.80	10.00	760	1	.50	1.80	45	16
0413142	36 50 8	120 27 21	6.80	7.90	1000	1	.45	2.30	35	13
0413144	36 49 20	120 26 24	7.80	8.70	970	1	.54	2.10	43	15
0414144	36 44 6	120 26 30	6.40	9.70	1100	1	.39	1.80	33	12
0415122	36 39 44	120 40 27	6.90	8.60	710	1	.49	1.10	35	9
0415144	36 38 53	120 26 32	7.70	7.80	1000	1	.53	2.20	43	15
0416144	36 33 38	120 26 34	6.80	9.20	810	1	.21	1.50	39	11
0416153	36 33 37	120 21 2	6.90	7.50	800	1	.54	2.40	39	17
0416154	36 33 36	120 20 4	7.70	10.00	210	1	.37	2.80	39	24
0417154	36 28 22	120 20 19	8.00	11.00	870	1	.45	1.40	45	19
0417163	36 28 24	120 14 45	7.70	10.00	860	1	.35	1.30	42	21
0417172	36 29 14	120 8 17	8.00	10.00	590	1	.23	1.50	39	24
0512123	36 54 34	120 41 19	6.80	7.00	600	1 L	.13	1.70	31	15
0513124	36 49 20	120 40 29	7.80	7.70	710	1	.38	2.10	45	14
051312X	36 49 43	120 40 28	8.00	8.50	730	1	.54	2.30	41	18
0513144	36 49 19	120 27 29	8.10	10.00	190	1	.60	2.60	42	19
0514124	36 44 10	120 40 32	8.10	9.80	810	1	.23	1.50	44	13
0514132	36 44 55	120 35 1	7.00	9.70	1100	1	.48	1.90	40	12
0514144	36 44 7	120 27 34	6.80	9.90	1100	1	.50	1.80	37	12
0514152	36 44 55	120 22 0	6.10	6.90	83	1	.10	2.60	30	12
0515144	36 38 52	120 27 38	6.80	7.50	1000	1	.53	2.20	37	13

Table 4.--Continued

SAMPLE	Cr ppm-I	Cu ppm-I	Fe %-I	Ga ppm-I	Hg ppm-C	K %-I	La ppm-I	Li ppm-I	Mg ppm-I	Mn ppm-I
0315123	110	27	3.40	16	.02L	1.70	24	62	.96	340
0315131	120	28	3.20	15	.09	2.20	22	49	1.20	510
0315132	75	28	3.20	16	.04	2.40	24	59	1.10	480
0315133	98	26	3.00	15	.02	1.90	19	46	.96	430
0315134	86	21	2.70	14	.02L	2.10	19	47	.78	370
0315144	140	31	3.30	16	.26	2.20	21	50	1.30	530
0315153	110	24	2.80	14	.11	2.20	20	42	1.20	360
0316132	120	25	2.60	13	.02L	1.60	18	28	.78	360
0316134	120	29	2.80	13	.02L	1.50	22	29	.82	320
0316144	97	23	2.80	14	.02L	1.70	19	37	1.20	390
0317141	72	17	2.00	11	.03	1.80	16	26	.95	330
0317162	230	44	4.40	17	.10	1.80	24	77	2.80	640
0317163	280	32	3.70	16	.05	2.00	22	56	2.50	560
0317164	220	32	3.70	17	.06	1.80	21	61	2.40	570
0317174	170	49	4.90	18	.07	1.60	20	58	2.50	590
0413111	110	33	3.70	18	.02L	2.00	27	63	1.30	540
0413114	91	27	3.10	15	.02L	1.90	23	49	1.20	520
0413122	140	43	4.20	17	.06	1.70	22	55	1.70	720
0413124	120	42	4.10	18	.09	1.50	23	64	1.60	580
0413132	180	43	4.60	20	.13	1.80	25	79	1.90	580
0413142	150	22	2.90	12	.17	2.00	19	41	1.80	530
0413144	140	37	3.70	15	.13	1.60	23	53	1.40	570
0414144	90	21	2.70	12	.14	1.80	18	35	1.10	470
0415122	110	30	2.90	15	.02	1.60	20	40	.85	310
0415144	140	33	3.70	17	.08	2.20	23	60	1.50	560
0416144	130	33	3.30	16	.02	1.80	23	40	1.20	380
0416153	280	29	3.60	17	.06	1.80	21	51	2.10	540
0416154	330	39	4.30	17	.08	1.80	23	68	3.20	650
0417154	200	43	4.20	18	.07	2.00	25	74	2.20	560
0417163	180	40	4.10	17	.04	1.70	26	68	2.60	590
0417172	210	60	5.20	20	.05	1.70	21	63	2.50	650
0512123	120	29	2.80	13	.08	1.50	17	32	1.30	610
0513124	100	36	3.80	18	.02	1.80	25	59	1.30	560
051312X	130	45	4.30	18	.06	1.70	22	63	1.70	680
0513144	160	43	4.40	18	.11	1.50	24	71	2.10	590
0514124	94	30	3.30	16	.02L	2.30	24	57	1.20	510
0514132	91	30	3.10	16	.16	2.20	22	46	1.10	520
0514144	100	29	3.10	15	.88	2.10	22	47	1.10	500
0514152	140	22	2.50	11	.25	2.10	16	34	1.70	450
0515144	120	30	3.40	16	.18	1.90	21	51	1.30	510

Table 4.--Continued

SAMPLE	Mo ppm-I	Na %-I	Nd ppm-I	Ni ppm-I	P %-I	Pb ppm-I	S %-IR	Sc ppm-I	Se ppm-H	Sr ppm-I
0315123	2	1.20	19	48	.05	23	1.35	10	.10	220
0315131	2 L	1.50	17	74	.06	19	.03	9	.90	250
0315132	2 L	1.50	19	45	.05	19	.42	10	.90	250
0315133	2 L	1.30	16	41	.05	11	1.03	10	1.00	290
0315134	2 L	1.10	16	33	.04	21	.58	9	1.20	240
0315144	2 L	1.40	18	78	.06	18	.21	11	.90	250
0315153	2 L	1.80	15	63	.05	16	.06	8	.30	280
0316132	3	1.50	15	46	.12	10	1.14	9	2.30	350
0316134	5	1.10	17	54	.12	10	1.25	8	3.80	300
0316144	2 L	1.30	16	56	.07	14	.14	9	1.20	280
0317141	2 L	1.30	16	48	.07	15	1.10	6	.40	350
0317162	2 L	1.20	19	230	.06	19	.04	15	.50	170
0317163	2 L	1.30	20	210	.07	18	.04	12	.70	200
0317164	2	1.50	20	180	.05	48	1.36	13	.70	290
0317174	2 L	1.80	19	150	.07	12	.92	19	.30	210
0413111	2 L	1.50	23	52	.07	19	.02	12	.40	250
0413114	2 L	1.60	21	55	.05	14	.01L	11	.40	230
0413122	2 L	1.80	21	98	.06	14	.01L	16	.20	230
0413124	2 L	1.20	18	80	.06	16	.11	14	.80	220
0413132	2 L	1.50	22	100	.07	20	.48	15	.90	220
0413142	2 L	1.70	17	110	.06	16	.01	8	.40	250
0413144	2 L	1.20	19	87	.07	17	.04	12	.80	230
0414144	2 L	1.40	15	68	.05	15	.03	8	.60	250
0415122	2 L	1.10	17	43	.06	18	.48	10	3.50	210
0415144	2 L	1.40	21	88	.06	20	.01	12	.80	270
0416144	4	1.10	21	65	.08	11	.34	11	.80	260
0416153	2 L	1.10	18	170	.07	18	.22	11	.80	230
0416154	2 L	1.10	20	290	.06	14	1.01	14	1.10	240
0417154	2 L	1.20	20	150	.06	17	.06	15	1.10	200
0417163	2 L	1.20	23	200	.07	17	.07	14	.90	190
0417172	2 L	1.60	23	150	.07	15	.76	21	.40	160
0512123	2 L	2.20	16	65	.06	10	.06	11	.20	190
0513124	2 L	1.60	22	61	.06	23	.07	14	.40	240
051312X	2 L	1.50	20	86	.07	15	.01	16	.20	240
0513144	2 L	1.10	19	110	.07	15	.67	16	.90	220
0514124	2 L	1.40	18	47	.05	21	.11	12	.90	250
0514132	2 L	1.60	21	61	.05	16	.04	10	.80	250
0514144	2 L	1.30	17	68	.05	17	.04	10	.60	230
0514152	2 L	1.60	14	99	.06	10	1.23	8	.50	330
0515144	2 L	1.20	19	78	.06	15	.27	11	1.10	230

Table 4.--Continued

SAMPLE	Th ppm-I	Ti %-I	V ppm-I	Y ppm-I	Yb ppm-I	Zn ppm-I
0315123	15	.31	110	14	2	98
0315131	8	.27	86	14	2	86
0315132	11	.31	96	14	2	92
0315133	10	.29	100	11	1	85
0315134	11	.28	89	11	1	77
0315144	9	.29	98	13	2	89
0315153	9	.25	92	12	2	72
0316132	7	.27	120	13	1	83
0316134	6	.24	140	14	1	110
0316144	10	.27	100	13	1	82
0317141	5	.22	65	10	1	46
0317162	12	.34	130	16	2	110
0317163	11	.29	100	14	2	92
0317164	9	.34	110	15	2	95
0317174	8	.36	140	17	2	98
0413111	13	.34	97	17	2	90
0413114	9	.32	92	15	2	79
0413122	7	.35	120	17	2	85
0413124	12	.35	120	17	2	110
0413132	13	.36	140	16	2	120
0413142	8	.27	72	13	2	65
0413144	10	.34	110	14	2	94
0414144	8	.23	72	12	1	69
0415122	12	.29	100	13	2	98
0415144	11	.33	110	14	2	100
0416144	11	.31	150	15	2	110
0416153	11	.30	110	13	2	89
0416154	11	.32	120	15	2	110
0417154	14	.36	130	16	2	110
0417163	15	.32	120	16	2	110
0417172	10	.38	150	17	2	100
0512123	6	.25	86	14	2	58
0513124	11	.35	110	16	2	94
051312X	9	.36	120	17	2	92
0513144	13	.36	140	17	2	110
0514124	13	.33	100	16	2	98
0514132	10	.29	89	14	2	85
0514144	9	.29	91	12	2	81
0514152	7	.24	64	10	1	57
0515144	10	.29	97	14	1	90

Table 4.--Continued

SAMPLE	LATITUDE	LONGITUDE	Al %-I	As ppm-H	Ba ppm-I	Be ppm-I	C %-IR	Ca %-I	Ce ppm-I	Co ppm-I
0515151	36 39 39	120 21 7	7.10	8.30	870	1	.11	1.60	38	16
0515153	36 38 52	120 22 4	6.10	6.30	920	1 L	.09	1.20	29	11
0515154	36 38 52	120 21 7	7.10	6.90	800	1	.18	2.50	39	16
0516131	36 34 29	120 34 8	6.00	7.00	970	1 L	.51	3.10	28	12
0516132	36 34 29	120 35 7	5.60	5.50	1300	1 L	.20	2.50	27	11
0516153	36 33 38	120 22 7	6.80	7.00	800	1	.36	2.60	33	11
0517153	36 28 22	120 22 21	6.90	7.90	760	1	.54	2.40	39	11
0517154	36 28 23	120 21 25	6.40	8.40	1200	1	.42	1.70	38	18
0517161	36 29 13	120 14 53	6.50	9.50	1000	1	.35	1.40	37	21
0517172	36 29 15	120 9 21	7.80	11.00	670	1	.21	1.70	37	20
0517174	36 28 27	120 8 22	8.00	9.80	610	1	.25	1.50	36	24
0518153	36 23 8	120 22 19	6.30	5.90	1600	1	.53	2.70	34	17
0518154	36 23 8	120 21 25	7.00	7.10	1000	1	.45	1.80	39	14
0518164	36 23 10	120 14 52	8.00	8.30	630	1	.30	2.70	47	14
0518173	36 23 15	120 9 20	7.80	12.00	660	1	.33	1.50	39	21
061312X	36 49 18	120 41 57	8.40	9.40	720	1	.51	2.20	41	19
0613133	36 49 21	120 36 1	8.30	8.20	850	1	.48	2.60	41	17
0613134	36 49 21	120 35 3	9.00	9.20	830	1	.67	2.50	49	18
0613144	36 49 18	120 28 35	7.70	8.30	920	1	.45	2.30	41	15
0614123	36 44 10	120 42 34	6.50	7.60	1100	1	.68	3.20	36	10
0614144	36 44 6	120 28 41	4.40	6.60	1200	1 L	.30	1.40	24	9
0615131	36 39 43	120 35 10	6.30	8.50	1000	1	.27	1.60	34	12
0615132	36 39 43	120 36 7	6.00	8.30	1100	1	.35	1.90	31	11
0615144	36 38 52	120 28 42	7.10	7.70	920	1	.58	1.90	41	13
0615151	36 39 39	120 22 12	6.80	8.20	950	1	.44	1.50	37	13
0616144	36 33 39	120 28 44	6.70	9.40	730	1	.45	3.10	33	11
0616161	36 34 23	120 15 41	7.00	8.80	820	1	.14	1.70	38	23
0616164	36 33 37	120 15 42	8.00	10.00	92	1	.28	2.20	40	24
0617164	36 28 22	120 15 58	7.80	12.00	890	1	.46	1.40	41	21
0617172	36 29 13	120 10 37	8.40	8.80	690	1	.23	2.00	43	22
0618164	36 23 10	120 15 55	7.60	8.90	850	1	.35	2.50	43	16
0618173	36 23 13	120 10 37	7.30	8.50	690	1 L	.18	1.80	34	18
0713134	36 48 29	120 35 4	8.60	9.00	820	1	.64	2.50	44	15
0714124	36 43 18	120 41 39	7.00	10.00	930	1	.15	1.60	43	10
0714131	36 44 3	120 35 8	8.40	9.00	970	1	.69	2.10	45	16
0714133	36 43 17	120 36 6	6.30	9.30	1200	1	.37	1.80	34	11
0714144	36 43 14	120 28 39	8.30	11.00	940	1	.64	1.80	48	16
0715132	36 38 51	120 36 8	6.80	8.40	1200	1	.53	1.90	35	13
0715144	36 38 0	120 28 43	7.10	11.00	750	1	.23	2.20	38	24
0715154	36 38 1	120 22 13	6.30	7.90	670	1	.28	2.20	33	13

Table 4.--Continued

SAMPLE	Cr ppm-I	Cu ppm-I	Fe %-I	Ga ppm-I	Hg ppm-C	K %-I	La ppm-I	Li ppm-I	Mg ppm-I	Mn ppm-I
0515151	130	33	3.50	15	.42	2.10	22	51	1.90	560
0515153	120	18	2.40	11	.10	1.70	17	30	1.60	370
0515154	150	35	3.70	16	.14	1.80	22	54	2.40	560
0516131	72	19	2.60	12	.02L	1.90	19	28	.95	470
0516132	66	14	2.20	12	.02L	1.80	15	21	.73	440
0516153	100	26	2.80	13	.05	1.90	19	40	.98	430
0517153	100	24	3.20	16	.02	1.80	22	50	1.10	410
0517154	260	25	3.20	14	.08	2.30	20	42	2.40	570
0517161	260	28	3.50	13	.08	2.10	20	46	2.70	570
0517172	160	44	4.60	19	.05	1.60	20	57	2.20	570
0517174	170	51	5.00	18	.10	1.80	20	59	2.60	600
0518153	170	20	3.00	14	.02	2.00	19	33	1.60	690
0518154	170	22	3.10	14	.03	2.10	21	43	1.70	480
0518164	120	31	3.70	18	.02	2.10	27	64	1.40	540
0518173	160	44	4.70	18	.06	1.70	21	54	2.10	600
061312X	120	46	4.20	17	.06	1.60	22	73	1.80	700
0613133	160	42	4.10	17	.15	1.80	22	66	1.70	560
0613134	160	52	4.90	22	.12	1.80	27	82	1.90	610
0613144	160	31	3.60	16	.02L	2.00	22	54	1.70	550
0614123	60	19	2.40	14	.02L	2.10	21	35	.81	460
0614144	120	13	1.80	9	.21	2.40	12	19	1.20	390
0615131	83	20	2.60	11	.76	1.70	20	35	1.00	460
0615132	78	22	2.50	12	.19	1.60	20	36	1.00	470
0615144	140	30	3.40	16	.09	1.90	23	54	1.30	500
0615151	140	30	3.20	16	.07	2.10	21	46	1.20	520
0616144	120	34	2.80	15	.03	1.60	20	34	1.10	330
0616161	320	37	4.00	16	.06	2.10	21	57	3.50	650
0616164	290	47	4.20	16	.09	1.90	20	66	3.10	640
0617164	190	43	4.20	18	.06	1.90	23	70	2.50	610
0617172	160	48	4.50	18	.03	1.90	23	72	2.50	610
0618164	120	35	3.90	17	.02	1.90	25	59	1.60	520
0618173	140	30	3.80	15	.04	1.30	19	38	1.90	540
0713134	170	41	4.40	19	.08	1.90	24	76	1.90	570
0714124	46	22	2.80	15	.02L	2.40	26	48	.82	440
0714131	110	45	3.90	17	.55	2.10	24	70	1.40	580
0714133	73	21	2.50	13	.19	2.40	18	34	.81	460
0714144	120	44	4.30	20	.12	2.00	30	75	1.60	580
0715132	130	27	2.90	12	.30	1.50	21	39	1.20	540
0715144	280	40	4.10	16	.07	1.70	20	66	3.50	600
0715154	150	25	2.90	14	.20	1.90	19	41	1.80	470

Table 4.--Continued

SAMPLE	Mo ppm-I	Na %-I	Nd ppm-I	Ni ppm-I	P %-I	Pb ppm-I	S %-IR	Sc ppm-I	Se ppm-H	Sr ppm-I
0515151	3	1.70	19	110	.08	13	.61	11	.40	230
0515153	2 L	1.70	11	93	.04	15	.19	7	.40	250
0515154	2 L	1.80	20	120	.08	39	1.25	13	.60	240
0516131	2 L	1.60	16	50	.09	10	.12	9	1.00	320
0516132	2 L	1.60	14	41	.07	12	.29	7	.60	340
0516153	2	1.20	12	52	.07	12	.66	9	.80	300
0517153	2 L	1.00	20	49	.05	24	.58	11	1.30	240
0517154	2 L	1.50	17	210	.05	16	.02	9	.90	240
0517161	2 L	1.40	17	240	.06	16	.03	10	.40	200
0517172	2 L	1.80	18	130	.07	18	.68	17	.40	230
0517174	2 L	1.70	21	160	.07	12	.51	19	.40	200
0518153	2 L	1.60	17	110	.05	14	.05	8	.30	330
0518154	2 L	1.40	16	130	.06	16	.03	9	.90	230
0518164	2 L	1.50	22	72	.06	20	.66	12	.90	290
0518173	3	1.30	20	130	.08	14	.01	17	.50	230
061312X	2 L	1.30	20	84	.07	74	.01	16	.30	260
0613133	2 L	1.10	15	110	.07	16	.58	15	.80	250
0613134	2 L	.88	25	110	.07	17	.05	18	.90	220
0613144	2 L	1.50	17	100	.06	18	.21	11	.90	240
0614123	2 L	1.60	17	37	.04	13	.12	7	.40	250
0614144	2 L	1.10	11	88	.04	11	.02	4	.50	200
0615131	2 L	1.50	15	65	.04	15	.01L	7	.60	240
0615132	2 L	1.50	16	66	.05	14	.31	7	1.20	250
0615144	2 L	1.40	20	75	.05	26	.06	11	.90	240
0615151	2 L	1.40	17	76	.09	26	.16	10	1.20	220
0616144	4	1.10	19	60	.11	14	1.04	10	2.90	320
0616161	3	1.60	19	280	.07	19	.78	12	.50	190
0616164	2 L	1.20	18	250	.08	11	1.07	15	.70	200
0617164	2 L	1.20	22	200	.06	20	.04	14	.70	190
0617172	2 L	1.30	19	150	.07	48	.92	17	.70	230
0618164	2 L	1.30	20	93	.07	19	.42	13	.50	250
0618173	2 L	1.70	16	110	.06	11	.01L	13	.20	300
0713134	2 L	1.20	22	97	.05	19	.23	14	.80	220
0714124	2 L	1.40	20	32	.05	17	.21	9	1.10	240
0714131	2 L	1.10	22	76	.06	20	.06	14	1.00	240
0714133	2 L	1.60	14	52	.04	15	.02	7	.30	260
0714144	2 L	1.00	25	83	.06	14	.06	15	1.30	220
0715132	2 L	1.40	18	74	.07	16	.03	10	1.20	270
0715144	2	1.10	18	310	.05	16	1.04	13	.60	210
0715154	2 L	1.60	18	110	.06	16	.70	9	.50	230

Table 4.--Continued

SAMPLE	Th ppm-I	Ti %-I	V ppm-I	Y ppm-I	Yb ppm-I	Zn ppm-I
0515151	11	.32	100	14	2	88
0515153	7	.20	63	11	1	56
0515154	11	.33	110	15	2	90
0516131	5	.25	86	13	1	56
0516132	5	.22	75	10	1	46
0516153	8	.27	96	11	1	74
0517153	11	.31	110	12	2	88
0517154	9	.26	80	13	1	74
0517161	9	.25	82	13	2	74
0517172	8	.37	130	16	2	93
0517174	7	.38	140	16	2	99
0518153	6	.29	87	14	2	59
0518154	9	.28	87	14	1	82
0518164	14	.34	110	16	2	110
0518173	7	.36	140	16	2	94
061312X	10	.34	130	17	2	120
0613133	9	.35	120	14	2	100
0613134	15	.39	160	17	2	130
0613144	9	.30	98	14	2	88
0614123	9	.25	69	11	1	54
0614144	4 L	.13	38	8	1 L	38
0615131	8	.23	70	12	1	67
0615132	8	.23	65	12	1	67
0615144	11	.31	100	14	2	90
0615151	11	.28	94	13	2	89
0616144	8	.26	150	14	2	110
0616161	11	.30	100	14	2	93
0616164	12	.34	120	15	2	110
0617164	13	.34	120	16	2	110
0617172	10	.34	140	16	2	120
0618164	12	.35	120	16	2	100
0618173	5	.32	110	15	2	71
0713134	14	.35	130	16	2	110
0714124	13	.28	82	14	2	80
0714131	13	.33	130	15	2	120
0714133	8	.22	66	11	1	64
0714144	17	.37	140	17	2	120
0715132	8	.30	91	14	2	80
0715144	9	.31	120	14	2	98
0715154	10	.25	86	12	2	70

Table 4.--Continued

SAMPLE	LATITUDE	LONGITUDE	Al %-I	As ppm-H	Ba ppm-I	Be ppm-I	C %-IR	Ca %-I	Ce ppm-I	Co ppm-I
0716144	36 32 47	120 28 45	6.20	10.00	120	1	.36	3.10	31	9
0716164	36 32 46	120 15 44	6.50	7.50	880	1	.20	1.30	36	22
0717163	36 27 30	120 16 54	7.40	9.50	920	1	.44	1.40	43	18
0717164	36 27 31	120 15 58	7.90	10.00	930	1	.43	1.60	42	19
0717171	36 28 22	120 9 28	8.00	9.80	590	1	.27	1.60	35	23
0717174	36 27 34	120 9 32	8.00	12.00	620	1	.28	1.40	36	22
0813122	36 49 16	120 41 27	8.10	10.00	690	1	.48	1.80	41	20
081312X	36 49 16	120 40 56	7.70	11.00	710	1	.25	1.70	43	14
0814122	36 44 6	120 41 28	7.50	9.80	830	1	.28	3.30	42	13
0814133	36 43 17	120 35 3	7.10	10.00	1100	1	.45	1.70	39	12
0814144	36 43 15	120 27 35	6.50	7.90	1200	1	.30	1.80	32	13
0814152	36 44 2	120 22 2	17.00	9.30	1700	3	.30	5.00	88	31
0814154	36 43 13	120 21 5	8.50	9.60	790	1	.52	2.10	50	16
0815121	36 38 51	120 40 38	7.50	10.00	98	1	.33	2.70	40	11
0815132	36 38 51	120 35 3	7.40	7.60	940	1	.39	1.80	38	12
0815133	36 38 3	120 35 4	6.20	7.40	70	1	.25	2.80	30	10
0815144	36 37 60	120 27 38	7.90	8.50	870	1	.50	2.30	39	15
0816141	36 33 34	120 27 39	6.00	8.20	470	1 L	.37	3.50	29	11
0816144	36 32 46	120 27 41	6.80	10.00	790	1	.39	2.50	33	14
0818154	36 22 16	120 21 19	6.40	11.00	1100	1	.57	2.50	38	17
0818163	36 22 17	120 15 48	7.80	10.00	970	1	.26	1.50	47	13
0912122	36 54 29	120 40 14	7.90	7.20	630	1	.10	2.00	46	17
0913123	36 48 28	120 40 20	8.50	10.00	210	1	.39	2.80	41	15
0913124	36 48 29	120 39 24	7.50	13.00	860	1	.57	2.30	38	16
0913131	36 49 14	120 32 55	5.60	8.50	1200	1 L	.40	1.80	29	11
0913132	36 49 15	120 33 52	8.10	9.70	860	1	.48	2.60	39	15
0913133	36 48 28	120 33 50	8.20	8.70	800	1	.57	2.70	46	16
0913144	36 48 28	120 26 25	7.90	8.60	860	1	.61	1.90	43	16
0914132	36 44 3	120 33 54	9.30	10.00	760	1	.72	2.30	51	18
0914134	36 43 14	120 32 59	6.40	7.50	970	1	.29	2.20	33	10
0914144	36 43 15	120 26 29	8.00	8.10	840	1	.72	2.70	44	15
0915124	36 38 3	120 39 31	7.10	8.00	890	1	.51	2.30	45	12
0915132	36 38 49	120 33 58	6.20	6.50	1600	1	.37	2.30	31	9
0915144	36 37 60	120 26 32	7.60	8.80	890	1	.55	2.10	44	14
0915153	36 37 59	120 20 59	7.90	12.00	810	1	.38	2.10	43	18
0916144	36 32 45	120 26 34	8.20	10.00	1200	1	.38	2.70	43	12
0916154	36 32 45	120 20 7	7.50	8.80	170	1	.49	3.60	42	14
0916162	36 33 32	120 14 31	7.70	7.20	820	1	.50	2.20	43	12
0916163	36 32 45	120 14 30	8.00	11.00	880	1	.49	1.70	41	24
0917153	36 27 30	120 21 15	7.70	11.00	920	1	.53	1.50	44	17

Table 4.--Continued

SAMPLE	Cr ppm-I	Cu ppm-I	Fe %-I	Ga ppm-I	Hg ppm-C	K %-I	La ppm-I	Li ppm-I	Mg ppm-I	Mn ppm-I
0716144	130	29	2.60	12	.02	1.50	19	27	.87	290
0716164	330	25	3.40	14	.18	2.30	20	44	3.00	580
0717163	210	35	3.90	17	.06	1.90	23	63	2.10	570
0717164	170	32	3.50	16	.06	1.70	23	58	2.00	580
0717171	170	53	5.10	18	.07	1.80	20	62	2.50	590
0717174	170	51	4.90	18	.06	1.70	20	60	2.40	610
0813122	180	48	4.60	19	.04	1.80	23	69	1.90	730
081312X	110	38	3.80	18	.10	1.80	24	61	1.40	560
0814122	71	28	3.00	15	.02L	1.90	22	57	.99	540
0814133	110	29	3.20	14	.12	2.40	23	49	1.10	530
0814144	130	27	2.60	15	.12	2.10	18	33	1.20	490
0814152	330	86	8.50	39	.03	4.60	50	170	4.20	1200
0814154	110	28	4.10	21	.06	2.10	29	64	1.40	820
0815121	130	25	3.80	15	.02L	1.80	20	62	1.00	390
0815132	86	26	3.00	15	.06	2.30	21	50	1.10	480
0815133	69	18	2.40	11	.02L	1.40	16	35	.74	330
0815144	140	34	3.50	15	.07	1.50	20	58	1.40	520
0816141	110	25	2.60	12	.02	1.60	18	26	.98	420
0816144	130	28	3.30	16	.02L	1.60	19	39	1.40	490
0818154	240	24	2.90	12	.02L	2.20	20	38	2.00	420
0818163	81	32	3.60	16	.02	1.80	26	59	1.20	460
0912122	150	33	3.70	16	.20	1.80	27	48	1.60	800
0913123	110	44	4.00	16	.04	1.60	23	82	1.40	550
0913124	140	34	3.40	16	.07	1.70	21	50	1.60	560
0913131	150	16	2.40	11	.23	2.30	16	29	1.20	470
0913132	130	38	3.50	17	.13	1.70	21	60	1.50	490
0913133	150	39	4.20	19	.24	1.80	25	72	1.60	560
0913144	150	40	4.10	18	.13	1.80	24	63	1.80	610
0914132	160	50	4.60	22	.10	1.80	26	85	1.70	580
0914134	100	20	2.60	14	.19	2.30	18	41	.96	410
0914144	130	44	4.20	19	.10	1.70	24	70	1.50	580
0915124	140	27	3.80	16	.02	2.00	24	61	1.30	410
0915132	73	20	2.60	13	.02	2.00	17	40	.70	350
0915144	120	34	3.70	17	.07	1.90	24	58	1.40	540
0915153	150	40	4.30	17	.30	1.70	24	64	2.00	600
0916144	180	34	3.90	18	.02	1.80	26	44	1.20	430
0916154	140	36	4.00	19	.03	1.70	23	67	1.80	510
0916162	100	30	3.50	17	.07	1.90	24	61	1.20	460
0916163	280	42	4.20	16	.06	1.90	23	65	3.00	620
0917153	170	40	4.00	17	.05	1.90	28	68	1.90	510

Table 4.--Continued

SAMPLE	Mo ppm-I	Na %-I	Nd ppm-I	Ni ppm-I	P %-I	Pb ppm-I	S %-IR	Sc ppm-I	Se ppm-H	Sr ppm-I
0716144	4	1.30	12	51	.11	8	1.33	9	2.70	310
0716164	2 L	1.60	18	280	.06	15	.03	9	.50	200
0717163	2 L	1.20	18	160	.06	21	.04	13	.90	190
0717164	2 L	1.50	17	140	.06	19	.02	12	.90	240
0717171	2 L	1.30	22	150	.07	14	.56	20	.40	190
0717174	2 L	1.40	20	150	.07	14	.28	19	.20	190
0813122	2 L	1.30	21	100	.07	17	.03	18	.30	220
081312X	2 L	1.50	21	63	.04	14	.03	13	.50	230
0814122	2 L	1.50	19	35	.06	20	1.05	12	.70	270
0814133	2 L	1.40	18	65	.06	16	.04	10	.90	240
0814144	2 L	1.40	14	77	.05	17	.03	8	.90	270
0814152	4	2.50	45	190	.17	33	1.00	30	.50	540
0814154	3	2.00	24	57	.05	18	.04	13	.20	280
0815121	2 L	1.10	16	43	.07	14	1.36	10	2.70	230
0815132	2 L	1.10	16	57	.05	21	.13	10	1.00	250
0815133	2 L	1.20	12	34	.05	10	.97	7	.80	270
0815144	2 L	1.10	18	78	.07	19	.32	12	.90	260
0816141	4	1.50	16	59	.09	8	1.29	8	2.10	330
0816144	3	1.40	17	82	.09	11	.48	11	1.10	260
0818154	2 L	1.20	16	170	.10	15	.11	8	1.70	280
0818163	2 L	1.50	22	46	.06	21	.04	12	.60	240
0912122	2 L	2.10	22	88	.08	16	.16	13	.50	300
0913123	2 L	1.40	19	52	.06	24	.94	15	.50	270
0913124	2 L	1.40	20	99	.05	19	.02	12	.90	250
0913131	2 L	1.40	14	91	.06	32	.10	6	.80	240
0913132	2 L	1.50	18	78	.06	23	.50	13	.90	280
0913133	2 L	1.20	22	96	.06	19	.52	15	.90	250
0913144	2 L	1.10	21	110	.08	16	.05	14	.80	210
0914132	2 L	1.00	24	79	.06	16	.32	18	1.20	240
0914134	2 L	1.40	15	53	.04	20	.69	8	1.00	250
0914144	2 L	1.10	21	82	.06	18	.49	15	.80	230
0915124	2 L	1.20	20	69	.08	21	.45	11	2.30	240
0915132	2 L	1.00	15	34	.04	25	.80	8	1.40	240
0915144	2 L	1.40	22	78	.06	17	.12	12	1.00	250
0915153	3	2.00	20	110	.07	18	.78	14	.50	230
0916144	2 L	1.30	21	66	.11	16	.55	12	2.10	340
0916154	2	1.00	21	93	.07	12	1.62	14	1.60	240
0916162	2 L	1.00	19	52	.05	17	.28	12	1.50	260
0916163	2 L	1.30	18	260	.06	18	.05	14	.80	210
0917153	2 L	1.20	23	130	.07	17	.08	13	2.70	210

Table 4.--Continued

SAMPLE	Th ppm-I	Ti %-I	V ppm-I	Y ppm-I	Yb ppm-I	Zn ppm-I
0716144	4	.26	130	14	1	94
0716164	9	.26	79	13	2	71
0717163	11	.32	120	15	2	100
0717164	9	.33	100	15	2	94
0717171	7	.38	150	17	2	100
0717174	7	.37	140	16	2	98
0813122	10	.36	130	17	2	97
081312X	11	.33	110	16	2	90
0814122	10	.30	88	14	2	82
0814133	11	.29	92	13	2	85
0814144	8	.21	71	11	1	69
0814152	26	.68	260	31	4	230
0814154	12	.38	120	16	2	96
0815121	12	.31	110	12	1	92
0815132	10	.26	100	12	1	90
0815133	8	.24	80	11	1	67
0815144	11	.32	110	13	2	96
0816141	6	.26	110	12	1	73
0816144	7	.29	120	15	2	85
0818154	9	.27	99	13	1	76
0818163	16	.32	110	18	2	110
0912122	10	.36	100	18	2	78
0913123	10	.36	120	17	2	100
0913124	9	.27	100	14	2	89
0913131	6	.21	65	11	1	60
0913132	10	.32	110	14	2	100
0913133	12	.38	130	16	2	110
0913144	12	.35	130	16	2	110
0914132	15	.40	150	17	2	130
0914134	9	.24	72	11	1	73
0914144	13	.36	130	16	2	180
0915124	13	.33	130	14	2	98
0915132	10	.24	83	10	1	78
0915144	11	.33	110	15	2	100
0915153	13	.37	130	16	2	100
0916144	10	.35	170	17	2	120
0916154	11	.33	140	14	2	110
0916162	12	.32	120	14	2	100
0916163	11	.34	120	15	2	100
0917153	14	.35	130	17	2	120

Table 4.--Continued

SAMPLE	LATITUDE	LONGITUDE	Al %-I	As ppm-H	Ba ppm-I	Be ppm-I	C %-IR	Ca %-I	Ce ppm-I	Co ppm-I
0917154	36 27 29	120 20 19	7.20	9.50	830	1	.44	1.70	36	24
0917164	36 27 32	120 14 45	5.60	7.60	1000	1 L	.26	1.50	31	21
0917171	36 28 20	120 7 16	8.70	11.00	560	1	.29	1.70	38	27
0918154	36 22 15	120 20 19	6.70	9.90	980	1	.39	1.80	39	13
0918161	36 23 6	120 13 48	7.30	7.60	810	1	.42	2.50	41	17
0918163	36 22 18	120 14 43	7.90	9.00	1000	1	.35	1.90	51	13
0918164	36 22 17	120 13 46	8.00	7.20	970	1	.21	1.40	46	12
1012123	36 53 42	120 39 7	6.80	8.20	570	1 L	.41	2.50	34	16
1013111	36 49 15	120 44 46	6.50	4.90	590	1	.02	1.30	38	13
1013114	36 48 27	120 44 48	6.60	5.80	580	1 L	.55	1.80	37	15
1013124	36 48 30	120 38 20	8.80	9.90	840	1	.72	2.00	49	16
1014122	36 44 5	120 39 21	6.80	6.50	920	1	.26	2.20	36	10
1014144	36 43 15	120 25 23	8.10	9.60	890	1	.44	2.30	36	16
1015121	36 38 52	120 38 27	7.30	9.20	970	1	.39	2.50	42	12
1015144	36 37 59	120 25 29	7.20	9.80	940	1	.49	2.40	37	14
1015151	36 38 45	120 18 57	7.40	7.00	710	1	.44	3.50	50	11
1016144	36 32 45	120 25 29	6.90	6.50	920	1	.32	1.80	35	11
1016151	36 33 31	120 18 59	7.20	9.90	820	1	.42	1.50	38	24
1016154	36 32 43	120 18 60	7.60	11.00	820	1	.42	1.50	39	22
1016162	36 33 32	120 13 25	7.00	9.60	91	1	.46	5.40	35	22
1016164	36 32 46	120 12 25	6.70	8.70	82	1	.24	5.50	35	19
1017151	36 28 18	120 19 16	8.60	10.00	800	1	.43	1.30	44	23
1017154	36 27 29	120 19 14	6.30	11.00	720	1	.48	1.20	32	17
1017164	36 27 32	120 12 44	7.70	10.00	780	1	.29	1.30	42	21
1017173	36 27 34	120 7 8	7.80	12.00	600	1	.23	2.00	36	22
1018152	36 23 4	120 20 10	7.10	8.70	1000	1	.37	1.60	45	15
1018161	36 23 6	120 12 42	7.80	8.10	750	1	.32	1.70	39	16
1018164	36 22 18	120 12 42	7.60	8.10	690	1	.28	1.50	38	18
1113111	36 49 15	120 43 56	8.60	8.70	720	1	.76	3.00	41	19
1113114	36 48 28	120 43 43	6.60	6.30	650	1 L	.49	3.10	30	15
1113124	36 48 29	120 37 13	6.10	9.00	650	1	.70	1.70	34	11
1113132	36 49 15	120 31 42	8.50	12.00	840	1	.70	2.30	45	19
1114122	36 44 4	120 38 15	6.60	7.90	1300	1	.35	1.80	33	11
1114133	36 43 16	120 31 47	8.00	9.00	920	1	.73	2.30	44	15
1114144	36 43 14	120 24 20	7.80	10.00	790	1	.54	2.10	42	16
1115121	36 38 52	120 37 19	6.20	6.20	1200	1	.40	1.70	33	11
1115131	36 38 49	120 30 51	7.80	10.00	770	1	.46	2.20	40	12
1115144	36 37 59	120 24 24	7.20	9.30	980	1	.51	2.10	38	14
1115153	36 37 59	120 18 48	7.80	8.70	210	1	.35	2.30	42	17
1116144	36 32 44	120 24 36	7.20	6.40	1100	1	.35	2.50	38	11

Table 4.--Continued

SAMPLE	Cr ppm-I	Cu ppm-I	Fe %-I	Ga ppm-I	Hg ppm-C	K %-I	La ppm-I	Li ppm-I	Mg ppm-I	Mn ppm-I
0917154	310	34	3.90	15	.08	1.30	20	56	3.10	560
0917164	330	21	3.00	11	.09	1.60	18	34	3.20	510
0917171	220	57	5.20	19	.12	1.70	20	65	2.90	670
0918154	150	24	3.00	15	.02L	2.10	22	43	1.60	410
0918161	160	31	3.60	16	.02	1.90	21	47	1.60	550
0918163	97	34	3.60	18	.03	2.30	29	61	1.10	500
0918164	110	30	3.50	16	.03	2.30	26	64	1.20	430
1012123	110	30	3.30	14	.08	1.50	21	39	1.40	620
1013111	130	23	3.00	14	.02L	1.50	21	36	1.20	560
1013114	110	31	3.40	14	.04	1.80	20	34	1.10	610
1013124	170	49	4.50	21	.15	1.90	29	78	1.60	620
1014122	49	18	2.30	13	.02L	2.60	20	40	.70	460
1014144	140	42	3.90	17	.10	2.00	22	63	1.50	550
1015121	100	29	3.30	17	.13	2.10	23	58	1.20	440
1015144	100	33	3.40	15	.12	2.00	20	52	1.30	520
1015151	74	18	2.60	14	.02	2.10	27	32	.92	630
1016144	120	26	2.70	14	.02L	1.70	20	32	.92	360
1016151	260	36	4.00	16	.10	1.60	21	59	3.40	600
1016154	210	42	4.10	16	.12	2.00	22	65	2.50	610
1016162	200	44	4.00	17	.10	1.50	21	71	2.80	460
1016164	190	39	3.70	16	.09	1.60	18	65	2.70	550
1017151	200	52	4.50	18	.13	2.00	24	83	2.80	600
1017154	140	34	3.40	14	.09	1.30	20	59	2.00	470
1017164	240	48	4.40	18	.05	1.80	23	73	2.70	630
1017173	150	49	4.90	17	.06	1.80	23	60	2.40	580
1018152	210	29	3.50	15	.02	2.20	25	50	1.80	450
1018161	170	32	3.90	16	.03	2.00	21	47	1.80	510
1018164	130	39	4.10	17	.04	1.70	21	48	1.80	530
1113111	150	47	4.30	16	.03	1.70	21	71	1.70	660
1113114	110	31	2.80	12	.12	1.00	17	33	1.20	590
1113124	92	32	3.10	15	.10	1.40	19	52	1.10	440
1113132	180	48	4.20	19	.15	1.90	24	70	1.90	610
1114122	81	25	2.60	11	.23	2.30	19	31	.77	510
1114133	130	43	4.10	17	.19	1.80	25	68	1.50	590
1114144	150	41	4.10	19	.08	1.80	23	68	1.80	560
1115121	87	20	2.50	13	.14	2.10	18	35	.98	470
1115131	100	31	3.60	17	.02	1.90	23	64	1.10	460
1115144	130	32	3.40	17	.13	2.10	21	55	1.60	510
1115153	150	43	4.50	18	.03	1.70	27	75	2.50	540
1116144	96	26	3.10	16	.02L	2.50	22	46	1.00	390

Table 4.--Continued

SAMPLE	Mo ppm-I	Na %-I	Nd ppm-I	Ni ppm-I	P %-I	Pb ppm-I	S %-IR	Sc ppm-I	Se ppm-H	Sr ppm-I
0917154	2 L	1.10	19	250	.06	18	.10	13	1.30	220
0917164	2 L	1.40	16	300	.05	13	.01	7	.30	210
0917171	2 L	1.30	21	170	.07	13	.74	23	.40	190
0918154	2 L	1.50	17	130	.07	17	.13	9	1.00	240
0918161	2 L	1.60	19	110	.07	14	.02	12	.50	300
0918163	2 L	1.60	25	52	.07	21	.06	12	.90	270
0918164	2 L	1.50	21	59	.06	19	.08	11	.80	230
1012123	2 L	2.00	19	78	.06	14	.01L	12	.20	200
1013111	2 L	1.80	18	71	.04	12	.01L	11	.30	170
1013114	2 L	1.50	21	81	.06	11	.01L	12	.20	160
1013124	2 L	.92	22	82	.07	28	.04	16	1.00	230
1014122	2 L	1.70	17	29	.04	14	.26	7	.60	260
1014144	2 L	1.40	21	77	.06	18	.43	14	1.10	260
1015121	2 L	1.40	21	58	.08	14	.51	11	1.30	240
1015144	2 L	1.50	19	78	.06	16	.46	11	.70	250
1015151	7	2.60	20	65	.06	14	.43	8	.20	380
1016144	2	1.30	17	48	.09	15	.27	9	1.70	320
1016151	2 L	1.20	18	270	.07	16	.04	13	.70	200
1016154	2 L	1.30	20	220	.06	17	.03	13	.90	200
1016162	4	.98	20	230	.05	10	2.98	15	1.00	280
1016164	3	.80	20	200	.05	7	3.80	13	.50	450
1017151	2 L	.99	22	210	.06	22	.05	16	1.10	200
1017154	2 L	1.00	17	160	.04	26	.06	11	.50	160
1017164	2 L	1.90	21	200	.06	21	.72	15	1.80	200
1017173	2 L	1.60	22	140	.07	25	.94	19	.70	190
1018152	2 L	1.30	20	140	.08	19	.07	11	1.40	220
1018161	2 L	1.50	19	110	.06	14	.01L	13	.30	240
1018164	2 L	1.50	20	110	.07	13	.02	15	.30	240
1113111	2 L	1.40	19	75	.07	14	.03	17	.60	260
1113114	2 L	2.10	20	61	.06	11	.01L	11	.20	220
1113124	2 L	.91	18	58	.05	13	.41	11	.90	180
1113132	2 L	1.10	21	110	.07	19	.08	16	1.00	250
1114122	2 L	1.70	14	53	.05	14	.03	7	.70	280
1114133	2 L	1.00	21	79	.06	14	.03	14	.80	220
1114144	2 L	1.20	21	110	.06	17	.61	14	.80	230
1115121	2 L	1.50	18	64	.05	16	.05	7	.90	260
1115131	2 L	.94	19	51	.07	19	.44	12	.90	240
1115144	2 L	1.70	19	96	.05	15	.24	11	1.30	240
1115153	3	1.80	22	100	.07	13	1.91	16	.20	320
1116144	2 L	1.20	19	49	.06	15	.56	10	1.30	290

Table 4.--Continued

SAMPLE	Th ppm-I	Ti %-I	V ppm-I	Y ppm-I	Yb ppm-I	Zn ppm-I
0917154	7	.25	120	14	2	100
0917164	8	.21	65	12	1	58
0917171	9	.39	160	17	2	100
0918154	9	.27	97	14	1	85
0918161	8	.32	100	15	2	83
0918163	14	.36	110	17	2	120
0918164	14	.30	100	15	2	100
1012123	7	.32	96	16	2	64
1013111	8	.30	84	14	2	59
1013114	8	.30	94	14	2	64
1013124	13	.38	140	18	2	130
1014122	8	.25	68	12	2	65
1014144	11	.30	120	15	2	110
1015121	13	.32	110	14	2	94
1015144	12	.30	100	14	2	88
1015151	10	.28	75	16	2	38
1016144	8	.28	110	13	1	85
1016151	13	.30	110	15	2	98
1016154	11	.33	120	15	2	100
1016162	12	.31	120	14	2	100
1016164	9	.29	110	13	2	97
1017151	14	.33	140	16	2	130
1017154	11	.27	100	13	1	88
1017164	14	.35	130	16	2	110
1017173	10	.39	140	18	2	98
1018152	11	.31	110	16	2	100
1018161	8	.32	100	15	2	78
1018164	8	.34	120	15	2	85
1113111	9	.38	120	17	2	97
1113114	6	.28	84	14	2	59
1113124	10	.27	98	12	1	88
1113132	15	.37	140	16	2	110
1114122	8	.24	62	11	1	64
1114133	14	.36	130	16	2	110
1114144	12	.34	130	15	2	110
1115121	9	.24	67	11	1	65
1115131	14	.33	120	13	2	110
1115144	10	.29	110	13	2	88
1115153	15	.36	160	16	2	120
1116144	9	.30	110	13	2	89

Table 4.--Continued

SAMPLE	LATITUDE	LONGITUDE	Al %-I	As ppm-H	Ba ppm-I	Be ppm-I	C %-IR	Ca %-I	Ce ppm-I	Co ppm-I
1116154	36 32 44	120 17 58	8.00	9.10	820	1	.43	1.50	43	22
1116164	36 32 47	120 11 16	8.20	8.90	75	1	.18	3.00	43	22
1117144	36 27 30	120 24 41	6.20	6.80	1100	1 L	.23	2.00	29	16
1117173	36 27 35	120 6 2	7.90	10.00	400	1	.26	1.40	37	21
1117174	36 27 33	120 5 13	7.80	9.70	660	1	.25	1.50	37	20
1118154	36 22 17	120 18 5	7.20	8.60	950	1	.30	1.80	38	14
1212111	36 54 29	120 42 36	7.30	7.70	620	1 L	.31	2.20	38	17
1213124	36 48 29	120 36 8	8.40	7.50	830	1	.53	1.80	44	17
1213132	36 49 15	120 30 36	8.90	8.40	810	1	.61	2.50	46	19
1213134	36 48 28	120 29 39	7.80	11.00	920	1	.72	2.20	43	16
1214121	36 44 4	120 36 13	6.80	7.40	1400	1	.37	1.70	36	12
1214123	36 43 17	120 37 12	8.50	11.00	690	1	.73	2.40	44	18
1214132	36 44 1	120 30 42	6.10	6.60	1100	1	.35	1.70	30	10
1214133	36 43 13	120 30 39	8.40	12.00	840	1	.68	2.10	46	17
1214134	36 43 15	120 29 45	8.10	11.00	760	1	.58	2.40	43	16
1214144	36 43 15	120 23 15	7.30	9.00	610	1	.46	2.50	40	15
1215123	36 38 4	120 36 49	8.10	16.00	750	1	.32	2.30	44	17
1215134	36 38 0	120 29 47	7.10	6.90	970	1	.43	2.40	36	11
1215144	36 38 0	120 23 18	7.10	8.70	940	1	.52	2.70	37	17
1216132	36 33 36	120 30 48	7.10	8.10	790	1	.53	2.40	37	12
1216134	36 32 46	120 29 49	6.90	6.70	910	1	.30	2.30	33	15
1216144	36 32 45	120 23 20	7.20	7.00	400	1	.44	3.00	37	10
1216152	36 33 32	120 17 45	7.10	8.10	890	1	.22	1.30	38	27
1216161	36 33 22	120 10 9	7.20	7.20	660	1	1.16	5.10	44	17
1216164	36 32 47	120 10 12	6.90	7.10	82	1 L	.33	6.90	33	20
1217144	36 27 30	120 23 36	4.50	5.90	390	1 L	.30	3.00	23	6
1217164	36 27 33	120 10 44	7.90	9.80	650	1	.31	1.20	40	21
1218154	36 22 17	120 17 3	6.90	9.10	980	1	.35	1.70	40	12
1218163	36 22 18	120 11 31	7.80	8.90	670	1	.22	1.50	39	20
1312121	36 53 38	120 35 60	7.10	12.00	940	1	1.45	5.10	43	17
1312124	36 52 50	120 35 60	8.50	9.90	840	1	.47	1.90	44	20
1313114	36 47 37	120 42 39	7.80	8.80	790	1	.24	1.60	42	13
1313124	36 47 36	120 36 9	8.10	7.50	830	1	.76	2.20	45	15
1314123	36 42 25	120 37 10	7.10	9.40	1100	1	.46	1.70	38	14
1314133	36 42 23	120 30 42	5.70	6.40	1300	1 L	.30	1.50	28	8
1314144	36 42 22	120 23 15	7.60	9.10	900	1	.50	1.70	40	16
1315121	36 37 59	120 36 16	5.60	6.90	1100	1 L	.23	3.00	30	10
1315123	36 37 12	120 37 15	6.10	8.20	1100	1	.69	3.30	31	13
1315132	36 37 56	120 30 44	6.30	7.80	780	1	.47	3.40	34	9
1315134	36 37 8	120 29 48	7.00	8.50	950	1	.44	2.10	34	11

Table 4.--Continued

SAMPLE	Cr ppm-I	Cu ppm-I	Fe %-I	Ga ppm-I	Hg ppm-C	K %-I	La ppm-I	Li ppm-I	Mg ppm-I	Mn ppm-I
1116154	210	47	4.50	20	.10	1.80	23	74	2.70	650
1116164	210	48	4.90	20	.03	1.80	22	79	2.90	640
1117144	180	20	2.80	12	.02L	2.00	17	30	1.50	540
1117173	160	48	4.80	19	.06	1.60	20	55	2.40	590
1117174	160	44	4.50	17	.06	1.60	20	52	2.30	590
1118154	120	27	3.00	14	.02	1.90	21	46	1.30	420
1212111	120	31	3.40	14	.10	1.30	20	40	1.60	620
1213124	160	43	4.00	18	.09	1.60	23	62	1.50	580
1213132	150	52	4.50	19	.17	2.00	25	83	2.00	630
1213134	120	43	4.10	17	.12	1.80	24	68	1.40	580
1214121	100	23	2.80	13	.32	1.50	19	35	.89	500
1214123	150	49	4.70	20	.13	1.60	25	79	1.90	550
1214132	64	18	2.20	11	1.70	1.30	16	28	.78	430
1214133	140	46	4.40	20	.12	1.80	26	78	1.60	590
1214134	130	45	4.20	18	.08	1.80	25	73	1.60	550
1214144	140	36	3.60	18	.10	2.00	22	58	1.70	550
1215123	180	40	4.30	17	.02L	1.70	25	56	1.60	550
1215134	85	27	3.10	15	.02	2.20	20	51	.94	430
1215144	160	31	3.20	14	.17	1.90	20	46	1.90	530
1216132	150	26	3.10	14	.02L	1.30	20	34	1.10	440
1216134	140	23	3.20	15	.02L	1.80	18	30	1.30	620
1216144	110	22	3.10	16	.03	2.00	22	50	1.00	440
1216152	370	33	3.70	16	.09	2.10	20	47	3.40	620
1216161	150	30	3.80	17	.04	1.80	24	44	2.00	810
1216164	130	39	3.80	14	.03	1.50	16	51	1.80	620
1217144	51	11	1.60	9	.02	2.20	13	19	.45	290
1217164	160	46	4.70	19	.04	1.70	21	55	2.30	600
1218154	96	25	3.00	15	.02L	2.30	22	51	1.10	410
1218163	190	41	4.50	17	.06	1.80	21	52	2.10	580
1312121	190	35	3.60	16	.23	1.60	22	58	2.20	570
1312124	190	54	4.40	19	.16	1.90	23	67	2.00	600
1313114	80	35	3.60	17	.02	2.00	24	68	1.20	530
1313124	120	43	4.10	19	.07	1.80	25	73	1.50	560
1314123	100	29	3.10	14	.19	2.20	21	43	1.10	530
1314133	69	15	2.00	11	.34	2.60	15	23	.77	410
1314144	150	37	3.80	17	.14	2.00	22	58	1.80	570
1315121	79	14	2.30	11	.02L	1.80	18	23	.77	460
1315123	130	16	2.30	14	.20	1.90	17	36	1.40	390
1315132	81	24	2.80	13	.02L	1.80	18	42	.84	390
1315134	78	23	3.00	14	.02L	2.10	19	49	.90	400

Table 4.--Continued

SAMPLE	Mo ppm-I	Na %-I	Nd ppm-I	Ni ppm-I	P %-I	Pb ppm-I	S %-IR	Sc ppm-I	Se ppm-H	Sr ppm-I
1116154	2 L	1.10	20	220	.06	19	.17	16	.90	180
1116164	3	1.80	22	180	.06	12	2.08	19	.90	260
1117144	2 L	1.60	14	110	.05	12	.01L	9	.30	290
1117173	2 L	2.00	20	140	.07	12	.64	18	.20	210
1117174	2 L	1.40	21	140	.07	12	.09	16	.30	240
1118154	2 L	1.20	18	94	.08	20	.09	10	1.00	270
1212111	2 L	2.10	20	79	.07	11	.01L	12	.20	400
1213124	2 L	1.20	20	92	.07	18	.05	14	1.00	240
1213132	2 L	.92	20	120	.08	23	.43	17	.90	240
1213134	2 L	1.20	18	80	.06	17	.07	13	.90	240
1214121	2 L	1.50	15	56	.06	18	.05	8	.80	270
1214123	2 L	.76	20	99	.06	19	.41	17	.90	210
1214132	2 L	1.40	13	49	.05	51	.02	6	.70	260
1214133	2 L	.92	23	85	.07	19	.05	16	1.00	210
1214134	2 L	1.00	20	89	.06	18	.65	15	.60	220
1214144	2 L	1.60	21	110	.07	14	.94	12	1.30	230
1215123	2	1.10	20	110	.11	14	.18	15	1.10	260
1215134	2 L	1.20	18	43	.05	16	.60	10	1.40	260
1215144	2 L	1.90	20	110	.06	17	.32	11	1.30	280
1216132	3	1.30	16	67	.11	84	.33	11	2.40	300
1216134	2 L	1.80	17	80	.07	15	.07	11	.70	310
1216144	2 L	1.10	17	48	.05	18	.66	10	1.00	260
1216152	2 L	1.40	16	310	.05	33	.06	12	.60	210
1216161	3	2.20	20	100	.05	20	.03	13	.10	380
1216164	3	1.10	17	120	.05	10	3.93	15	.10	300
1217144	2 L	1.00	11	24	.04	31	1.45	4	1.20	260
1217164	2 L	1.90	20	140	.07	25	.32	17	.60	210
1218154	2 L	1.40	19	61	.05	19	.03	9	.70	240
1218163	2 L	1.50	21	140	.07	13	.01L	16	.30	240
1312121	2 L	1.30	20	140	.07	62	.05	12	.60	290
1312124	2 L	1.40	23	110	.07	20	.37	17	1.00	230
1313114	2 L	1.50	21	46	.06	16	.22	13	.40	250
1313124	2 L	1.10	22	75	.06	17	.17	15	1.00	230
1314123	2 L	1.50	14	70	.05	16	.02	10	.80	260
1314133	2 L	1.60	14	57	.04	14	.03	5	.60	250
1314144	2 L	1.60	19	110	.05	16	.26	13	1.90	220
1315121	2 L	1.50	14	46	.07	25	.84	6	1.00	340
1315123	2 L	1.60	14	96	.07	13	.02	7	.30	300
1315132	2 L	1.00	15	39	.05	14	1.56	8	2.00	280
1315134	2 L	1.10	16	40	.05	28	.40	9	1.00	250

Table 4.--Continued

SAMPLE	Th ppm-I	Ti %-I	V ppm-I	Y ppm-I	Yb ppm-I	Zn ppm-I
1116154	13	.35	130	16	2	120
1116164	11	.36	150	16	2	120
1117144	5	.26	83	11	1	54
1117173	8	.38	140	17	2	96
1117174	7	.38	130	17	2	92
1118154	9	.27	110	14	2	93
1212111	8	.33	99	17	2	69
1213124	12	.36	130	15	2	110
1213132	13	.36	150	16	2	130
1213134	11	.36	120	16	2	110
1214121	9	.29	76	12	1	71
1214123	14	.37	150	17	2	130
1214132	7	.19	58	10	1	58
1214133	13	.37	140	16	2	120
1214134	14	.36	140	16	2	110
1214144	11	.31	110	14	2	96
1215123	11	.38	150	16	2	120
1215134	9	.29	100	12	2	91
1215144	7	.26	98	14	2	82
1216132	8	.32	120	15	2	85
1216134	6	.33	110	14	2	70
1216144	9	.30	96	12	1	81
1216152	11	.27	96	13	1	78
1216161	9	.33	110	16	2	74
1216164	7	.28	120	13	2	83
1217144	4	.16	45	7	1 L	39
1217164	8	.37	130	17	2	97
1218154	10	.26	91	13	2	84
1218163	8	.36	130	16	2	92
1312121	10	.34	110	16	2	89
1312124	11	.32	140	16	2	120
1313114	9	.34	100	16	2	95
1313124	14	.35	130	16	2	110
1314123	7	.27	81	13	1	81
1314133	6	.19	47	9	1	49
1314144	12	.32	120	14	2	98
1315121	6	.22	73	10	1	55
1315123	5	.23	76	11	1	53
1315132	9	.26	93	12	1	85
1315134	10	.28	97	11	1	83

Table 4.--Continued

SAMPLE	LATITUDE	LONGITUDE	Al %-I	As ppm-H	Ba ppm-I	Be ppm-I	C %-IR	Ca %-I	Ce ppm-I	Co ppm-I
1315144	36 37 8	120 23 21	7.30	6.90	780	1	.33	2.80	38	14
1315154	36 37 7	120 16 49	8.10	8.30	640	1	.63	2.10	44	21
1316144	36 31 52	120 23 21	6.70	7.60	1200	1	.29	2.20	33	11
1316151	36 32 39	120 16 49	7.70	9.10	940	1	.31	1.50	40	18
1316154	36 31 52	120 16 49	7.40	9.30	860	1	.38	1.60	39	23
1316163	36 31 56	120 11 12	7.10	7.10	120	1	.16	3.20	38	19
1316164	36 31 56	120 10 10	7.00	8.90	190	1	.27	5.10	36	19
1317143	36 26 38	120 24 35	6.30	5.40	1000	1	.46	2.40	35	19
1317152	36 27 25	120 17 60	7.20	9.40	950	1	.43	1.40	40	19
1317154	36 26 38	120 17 7	7.50	9.10	940	1	.40	1.80	41	16
1318153	36 21 26	120 18 0	7.10	7.90	1100	1	.37	1.70	44	11
1318161	36 22 16	120 10 46	7.80	9.50	660	1	.34	1.50	40	19
1318163	36 21 30	120 11 32	7.60	11.00	700	1	.36	1.80	37	19
1412111	36 53 35	120 43 43	7.80	7.10	630	1	.39	2.10	42	18
1412121	36 53 38	120 37 5	7.80	12.00	170	1	.43	2.90	39	16
1412122	36 53 38	120 38 2	7.70	8.60	920	1	.58	2.10	41	17
1412123	36 52 50	120 38 3	8.70	11.00	830	1	.58	1.90	44	19
1412124	36 52 50	120 37 3	8.10	12.00	840	1	.67	2.10	45	19
1413114	36 47 35	120 43 45	6.80	7.40	770	1	.15	1.50	39	10
1413124	36 47 36	120 37 14	8.30	11.00	920	1	.69	2.30	45	14
1413131	36 48 23	120 30 44	7.80	9.50	920	1	.55	2.00	44	15
1413132	36 48 23	120 31 41	8.60	10.00	780	1	.58	2.50	45	17
1413134	36 47 35	120 30 45	7.50	11.00	840	1	.54	1.80	41	15
1413141	36 48 25	120 24 19	7.40	8.20	150	1	.18	3.70	38	15
1413144	36 47 37	120 24 15	6.70	11.00	680	1	.22	2.70	37	14
1414123	36 42 26	120 38 14	7.60	7.10	830	1	.10	1.70	44	11
1414133	36 42 23	120 31 48	7.30	7.40	1100	1	.47	1.80	42	13
1414144	36 42 22	120 24 20	7.70	8.70	950	1	.65	2.50	44	16
1415121	36 38 0	120 37 21	7.30	7.30	950	1	.30	2.20	35	15
1415122	36 37 60	120 38 19	6.00	7.10	1300	1	.38	1.70	32	10
1415132	36 37 58	120 31 44	7.70	7.40	820	1	.50	2.00	41	12
1415133	36 37 11	120 31 50	7.10	6.20	1100	1	.51	2.10	35	11
1415144	36 37 8	120 24 24	7.80	12.00	780	1	.62	2.70	42	15
1415154	36 37 6	120 17 52	6.10	6.50	190	1 L	.84	6.20	34	19
1416144	36 31 52	120 24 26	6.60	7.60	930	1	.34	2.80	32	11
1416163	36 31 56	120 12 17	7.80	9.50	290	1	.22	2.70	34	20
1417154	36 26 37	120 18 12	6.00	7.70	1400	1 L	.30	1.60	33	14
1417161	36 27 24	120 11 39	7.80	12.00	760	1	.27	1.50	42	20
1417164	36 26 40	120 11 38	7.60	11.00	720	1	.20	1.40	37	20
1417174	36 26 44	120 5 8	8.00	8.80	700	1	.16	1.90	33	19

Table 4.--Continued

SAMPLE	Cr ppm-I	Cu ppm-I	Fe %-I	Ga ppm-I	Hg ppm-C	K %-I	La ppm-I	Li ppm-I	Mg ppm-I	Mn ppm-I
1315144	160	32	3.40	16	.08	2.20	21	52	2.00	500
1315154	180	48	4.80	19	.02L	1.80	24	70	2.20	540
1316144	110	24	2.60	13	.02L	2.20	18	32	.97	420
1316151	210	32	3.80	16	.07	2.00	22	59	2.20	560
1316154	240	39	4.10	16	.11	2.00	21	60	2.80	620
1316163	180	41	3.90	16	.11	1.80	21	64	2.20	560
1316164	190	41	4.10	16	.03	1.40	19	67	2.30	590
1317143	230	21	3.10	13	.02L	1.80	18	33	2.10	610
1317152	190	37	3.70	15	.06	1.90	22	58	2.40	580
1317154	150	31	3.20	16	.03	1.90	21	53	1.80	500
1318153	92	26	3.10	14	.02	2.60	25	48	.95	460
1318161	150	45	4.50	16	.06	1.60	21	55	2.00	560
1318163	150	40	4.20	18	.04	1.80	20	52	2.00	560
1412111	140	39	4.00	16	.07	1.60	23	54	1.60	710
1412121	150	39	3.80	16	.18	1.80	22	60	1.80	570
1412122	150	40	3.90	17	.17	2.00	24	62	1.70	590
1412123	180	48	4.20	19	.10	1.90	24	69	1.90	620
1412124	150	45	4.40	19	.20	1.50	28	71	1.90	580
1413114	59	22	2.60	13	.03	2.00	21	40	.89	490
1413124	140	41	4.00	18	.21	2.00	26	69	1.30	580
1413131	140	38	3.90	18	.16	1.90	23	61	1.60	560
1413132	180	43	4.40	20	.14	1.80	27	77	1.70	570
1413134	140	36	3.70	17	.12	1.90	23	59	1.50	530
1413141	130	40	3.80	16	.05	1.80	22	70	2.20	540
1413144	120	36	3.50	15	.12	1.50	20	62	1.80	500
1414123	83	22	2.90	16	.02	2.40	25	51	.90	490
1414133	130	30	3.50	16	.63	2.30	23	55	1.30	530
1414144	140	40	3.90	18	.13	1.90	24	66	1.80	560
1415121	150	24	2.80	13	.06	1.40	18	37	1.50	470
1415122	65	17	2.30	12	.26	2.50	17	29	.76	440
1415132	97	28	3.50	18	.02L	1.80	22	63	1.10	450
1415133	71	25	2.80	14	.05	2.00	19	46	.89	410
1415144	120	41	4.00	17	.13	1.80	23	68	1.40	550
1415154	230	34	3.50	16	.07	1.20	17	65	3.00	570
1416144	85	23	2.60	14	.02	2.10	18	39	.87	370
1416163	170	41	4.10	16	.03	1.60	19	51	2.20	580
1417154	180	15	2.30	10	.30	2.10	16	23	1.30	450
1417161	190	41	4.30	17	.02	1.80	22	64	2.20	590
1417164	160	41	4.30	16	.09	1.80	21	54	2.20	560
1417174	120	34	3.70	15	.09	1.50	18	44	1.90	560

Table 4.--Continued

SAMPLE	Mo ppm-I	Na %-I	Nd ppm-I	Ni ppm-I	P %-I	Pb ppm-I	S %-IR	Sc ppm-I	Se ppm-H	Sr ppm-I
1315144	2 L	1.40	21	110	.07	15	.75	11	.80	260
1315154	2 L	.92	20	150	.06	16	.05	18	.10L	290
1316144	2 L	1.20	19	46	.06	15	.38	9	1.60	310
1316151	2 L	1.50	19	180	.06	21	.02	11	.70	210
1316154	2 L	1.60	20	250	.05	15	.17	13	.60	220
1316163	2	1.80	22	160	.05	11	2.19	14	.50	240
1316164	3	1.40	18	140	.07	16	3.71	16	.20	430
1317143	2 L	1.50	14	170	.05	13	.01L	9	.20	300
1317152	2 L	1.30	20	190	.05	16	.05	12	.80	200
1317154	2 L	1.50	18	100	.05	19	.02	11	.60	220
1318153	2 L	1.60	20	45	.06	18	.08	9	.90	260
1318161	2 L	1.60	20	130	.07	14	.01L	16	.20	240
1318163	2 L	1.50	18	130	.07	17	.01L	16	.20	240
1412111	2 L	1.80	19	92	.08	12	.01	15	.20	240
1412121	2 L	1.60	16	100	.07	15	1.10	13	.80	280
1412122	2 L	1.20	20	120	.06	14	.05	13	.80	220
1412123	2 L	1.30	22	110	.09	47	.10	16	1.40	220
1412124	2 L	.99	23	120	.07	16	.04	15	.80	220
1413114	2 L	1.90	19	39	.05	15	.02	9	.30	190
1413124	2 L	1.50	21	70	.07	18	.42	13	1.20	250
1413131	2 L	1.20	21	100	.07	15	.08	13	.80	230
1413132	2 L	1.10	20	100	.07	21	.40	15	.90	240
1413134	2 L	1.30	19	97	.04	17	.05	13	.50	220
1413141	2	1.20	19	93	.07	12	2.35	13	.50	400
1413144	2	1.40	17	81	.06	15	2.04	12	.80	240
1414123	2 L	1.60	19	39	.06	21	.21	9	.80	240
1414133	2 L	1.30	21	81	.06	19	.04	11	.80	230
1414144	2 L	1.30	21	110	.06	16	.42	13	1.00	240
1415121	2 L	1.70	14	100	.07	14	.08	10	.70	300
1415122	2 L	1.60	14	47	.05	21	.17	6	.90	260
1415132	2 L	.98	19	47	.05	16	.41	12	1.70	240
1415133	2 L	1.10	14	40	.05	22	.45	9	1.60	270
1415144	2 L	1.20	19	80	.06	20	.70	13	.80	250
1415154	5	1.50	17	200	.04	18	3.88	12	.10	460
1416144	2 L	1.10	14	35	.05	16	.69	9	1.10	270
1416163	2 L	1.90	16	140	.07	12	1.06	15	.40	300
1417154	2 L	1.60	14	120	.06	41	.03	5	1.00	280
1417161	2 L	1.30	19	160	.06	17	.29	15	.40	200
1417164	2 L	1.90	18	150	.06	20	.44	15	.30	210
1417174	2 L	1.90	17	110	.07	17	.33	13	.40	320

Table 4.--Continued

SAMPLE	Th ppm-I	Ti %-I	V ppm-I	Y ppm-I	Yb ppm-I	Zn ppm-I
1315144	11	.30	100	13	2	87
1315154	12	.36	150	17	2	120
1316144	9	.24	96	11	1	78
1316151	10	.30	94	14	2	90
1316154	9	.31	110	15	2	93
1316163	10	.31	110	15	2	98
1316164	10	.31	130	14	2	100
1317143	5	.28	87	13	1	58
1317152	10	.30	100	15	2	96
1317154	12	.29	94	14	2	86
1318153	12	.28	92	14	2	84
1318161	7	.37	130	16	2	92
1318163	6	.34	120	15	2	86
1412111	7	.37	120	17	2	84
1412121	10	.34	110	14	2	97
1412122	10	.33	120	15	2	100
1412123	13	.37	140	16	2	110
1412124	15	.37	140	17	2	120
1413114	8	.27	73	14	2	64
1413124	13	.36	120	16	2	120
1413131	12	.33	120	15	2	110
1413132	12	.38	140	16	2	120
1413134	10	.32	110	14	2	120
1413141	10	.32	120	14	2	100
1413144	11	.29	110	13	2	95
1414123	12	.29	83	14	2	87
1414133	11	.31	100	13	2	94
1414144	11	.34	120	15	2	110
1415121	8	.28	90	12	2	72
1415122	7	.22	60	10	1	60
1415132	13	.32	120	14	2	110
1415133	8	.25	94	11	1	86
1415144	12	.35	130	15	2	110
1415154	9	.26	110	12	2	88
1416144	9	.22	90	10	1	72
1416163	8	.36	110	15	2	86
1417154	5	.22	54	11	1	49
1417161	8	.34	130	15	2	100
1417164	8	.34	120	15	2	90
1417174	7	.33	110	14	2	79

Table 4.--Continued

SAMPLE	LATITUDE	LONGITUDE	Al %-I	As ppm-H	Ba ppm-I	Be ppm-I	C %-IR	Ca %-I	Ce ppm-I	Co ppm-I
1512133	36 52 52	120 32 37	7.50	8.70	920	1	.46	2.30	35	19
1512134	36 52 50	120 31 37	7.90	11.00	760	1	.35	1.10	47	17
1513123	36 47 36	120 39 17	5.70	6.50	1500	1	.28	1.60	33	9
1513124	36 47 38	120 38 20	8.50	11.00	890	1	.78	2.30	47	18
1513132	36 48 24	120 32 48	7.60	8.70	1000	1	.48	2.20	44	15
1513141	36 48 24	120 25 17	6.80	8.30	1000	1	.26	1.50	36	14
1514121	36 43 12	120 38 23	6.70	9.50	1100	1	.94	1.50	35	11
1514123	36 42 25	120 39 17	7.40	21.00	790	1	.21	2.00	45	11
1514144	36 42 22	120 25 24	8.00	9.40	900	1	.55	2.20	45	15
1514154	36 42 21	120 19 11	7.00	12.00	760	1	1.01	4.80	40	10
1515132	36 37 57	120 32 54	7.50	7.90	250	1	.38	2.60	38	10
1515133	36 37 10	120 32 56	6.60	8.40	920	1	.43	2.20	34	10
1515144	36 37 9	120 25 31	8.50	9.90	790	1	.56	2.10	44	17
1515154	36 37 6	120 18 57	7.10	9.60	780	1	.29	1.80	39	26
1516144	36 31 53	120 25 30	6.40	8.40	400	1	.40	3.10	33	10
1516153	36 31 52	120 19 56	7.20	8.80	1100	1	.94	3.80	36	12
1516162	36 32 40	120 13 24	6.20	7.20	1000	1	.16	1.20	36	22
1516163	36 31 54	120 13 23	8.30	9.40	750	1	.34	1.40	43	25
1517154	36 26 37	120 19 14	7.50	9.00	980	1	.49	1.40	41	16
1517164	36 26 40	120 12 42	7.10	9.40	870	1	.46	1.80	39	22
1517174	36 26 41	120 6 12	7.40	10.00	680	1	.21	2.00	33	20
1518151	36 22 12	120 19 12	7.30	8.50	860	1	.30	1.80	38	16
1518153	36 21 24	120 20 9	6.70	5.90	1000	1	.40	2.90	40	14
1518154	36 21 24	120 19 11	6.80	7.80	830	1	.45	3.00	37	15
1518163	36 21 25	120 13 41	7.40	7.00	860	1	.17	1.50	41	14
1518164	36 21 26	120 12 43	7.50	8.10	730	1	.30	1.70	39	18
1613111	36 48 23	120 45 52	5.90	5.90	390	1 L	.05	2.70	24	15
1613133	36 47 35	120 33 52	7.70	9.70	990	1	.54	2.30	40	16
1613134	36 47 34	120 32 57	7.80	9.40	910	1	.52	2.10	42	15
1613142	36 48 21	120 27 23	8.50	9.30	700	1	.58	2.40	45	17
1614121	36 43 12	120 39 30	7.90	11.00	110	1	.22	2.00	43	12
1614122	36 43 12	120 40 26	8.10	10.00	770	1	.28	1.30	42	12
1614123	36 42 26	120 40 27	7.50	11.00	1000	1	.27	1.50	43	12
1614134	36 42 22	120 32 59	7.10	9.20	1100	1	.36	2.10	35	15
1614144	36 42 22	120 26 30	6.00	7.80	1200	1	.30	1.60	30	11
1614151	36 43 7	120 20 1	8.30	8.00	520	1	.74	1.00	63	18
1614152	36 43 6	120 20 54	8.90	8.90	680	1	.95	2.10	54	19
1615132	36 37 59	120 33 59	6.00	6.70	1000	1	.36	2.20	29	9
1615133	36 37 10	120 33 55	6.40	6.70	1100	1	.45	1.70	34	9
1615144	36 37 8	120 26 33	7.00	6.40	250	1	.33	2.20	32	10

Table 4.--Continued

SAMPLE	Cr ppm-I	Cu ppm-I	Fe %-I	Ga ppm-I	Hg ppm-C	K %-I	La ppm-I	Li ppm-I	Mg ppm-I	Mn ppm-I
1512133	200	34	3.50	15	.28	1.80	19	51	2.10	570
1512134	200	37	4.20	17	.13	1.90	26	61	1.90	630
1513123	61	14	2.00	11	.25	2.50	18	24	.65	440
1513124	140	48	4.00	20	.13	2.00	25	69	1.50	600
1513132	150	34	3.70	17	.20	2.00	25	57	1.50	570
1513141	110	30	3.00	14	.16	2.20	23	45	1.70	620
1514121	83	26	2.90	13	.08	2.30	20	43	.96	460
1514123	92	28	3.10	16	.02L	2.10	24	58	1.00	450
1514144	140	39	4.10	19	.09	1.90	25	67	1.60	570
1514154	74	16	2.30	14	.02L	2.20	23	24	1.00	410
1515132	110	27	3.10	17	.03	1.90	23	59	.93	360
1515133	110	23	2.70	14	.03	1.60	21	44	.83	360
1515144	140	46	4.50	20	.10	2.00	25	74	1.70	580
1515154	380	38	4.10	17	.07	1.80	21	59	3.80	640
1516144	89	23	2.60	14	.02	1.50	19	32	.93	360
1516153	100	29	2.80	14	.03	2.00	20	49	1.20	460
1516162	300	23	3.40	13	.12	2.00	19	35	3.10	570
1516163	260	49	4.50	18	.12	1.40	22	71	2.70	680
1517154	160	36	3.90	17	.03	1.90	23	64	1.90	540
1517164	230	35	3.80	15	.02	1.80	21	56	3.10	580
1517174	160	37	4.10	17	.04	1.60	18	46	2.10	570
1518151	180	25	3.10	15	.02L	1.40	21	44	1.80	430
1518153	130	19	3.10	15	.02	1.90	22	30	1.30	590
1518154	110	21	3.00	15	.02L	1.80	20	32	1.30	530
1518163	110	29	3.40	16	.02L	2.30	23	46	1.30	470
1518164	170	36	4.00	17	.02	1.70	20	47	1.90	530
1613111	110	27	3.30	12	.02L	.83	14	22	1.00	610
1613133	140	35	3.70	15	.19	1.60	22	53	1.40	580
1613134	110	39	3.80	17	.15	2.00	23	60	1.40	550
1613142	190	43	4.30	19	.19	1.80	27	75	1.90	600
1614121	84	37	3.80	18	.02	1.90	24	75	1.20	520
1614122	96	30	3.40	16	.25	1.90	25	58	.98	450
1614123	66	32	3.40	16	.02	2.10	24	61	1.00	530
1614134	120	29	3.00	15	.10	2.10	18	41	1.30	540
1614144	100	20	2.50	13	.29	2.40	17	31	1.10	470
1614151	90	40	5.10	19	.02	1.20	35	67	1.70	350
1614152	150	44	4.60	22	.06	1.70	29	71	1.80	700
1615132	76	20	2.50	13	.03	1.90	16	41	.70	330
1615133	75	21	2.60	14	.03	2.30	19	41	.76	350
1615144	93	25	2.90	13	.02L	2.10	18	45	.84	430

Table 4.--Continued

SAMPLE	Mo ppm-I	Na %-I	Nd ppm-I	Ni ppm-I	P %-I	Pb ppm-I	S %-IR	Sc ppm-I	Se ppm-H	Sr ppm-I
1512133	2 L	1.50	16	150	.07	15	.36	13	.70	250
1512134	2 L	1.50	22	130	.05	36	.04	14	.70	200
1513123	2 L	1.60	14	43	.04	16	.04	5	.50	250
1513124	2 L	1.40	20	79	.06	26	.17	15	1.10	240
1513132	2 L	1.60	23	110	.06	18	.04	12	.80	260
1513141	4	1.60	18	100	.08	15	.03	9	1.00	280
1514121	2 L	1.40	16	55	.06	17	.04	9	.90	220
1514123	2 L	1.30	20	43	.06	35	.80	11	1.30	250
1514144	2 L	1.50	22	83	.06	22	.29	14	.90	250
1514154	2 L	2.50	18	53	.06	24	.01	7	.10L	400
1515132	2 L	1.10	18	45	.05	16	1.01	10	2.30	280
1515133	2 L	1.10	17	37	.04	15	.47	9	.20	230
1515144	2 L	.93	23	96	.07	17	.10	16	1.00	220
1515154	2 L	1.30	20	350	.06	19	.40	13	.50	200
1516144	2	1.10	18	47	.10	64	1.00	8	2.20	350
1516153	2 L	1.10	16	48	.07	27	.05	10	.80	320
1516162	2 L	1.80	18	300	.05	15	.10	8	.40	210
1516163	2 L	1.30	18	210	.09	41	.49	16	1.50	200
1517154	2 L	1.30	22	130	.06	26	.07	13	1.00	210
1517164	2 L	1.70	20	240	.06	14	.10	12	.70	210
1517174	2 L	1.80	17	130	.07	12	.36	14	.20	270
1518151	2 L	1.50	17	130	.08	18	.12	11	1.00	260
1518153	2 L	1.80	22	86	.12	12	.06	10	.50	350
1518154	2 L	1.60	18	75	.10	11	.02	10	.40	360
1518163	2 L	1.60	20	79	.04	14	.04	11	.50	260
1518164	2 L	1.60	21	120	.07	13	.02	14	.30	250
1613111	2 L	1.50	14	62	.04	9	.01L	12	.10	140
1613133	2 L	1.60	16	99	.07	16	.08	12	.70	270
1613134	2 L	1.40	20	86	.07	17	.04	12	.90	250
1613142	2 L	1.10	22	110	.07	18	.56	15	1.10	250
1614121	2 L	1.30	22	47	.05	18	.78	13	.80	270
1614122	2 L	1.30	19	46	.05	21	.27	12	1.50	270
1614123	2 L	1.50	20	38	.06	20	.20	11	1.10	290
1614134	2 L	1.60	14	79	.05	18	.11	9	1.10	290
1614144	2 L	1.50	14	78	.05	15	.03	7	.40	250
1614151	2 L	1.80	24	62	.04	16	.02	14	.10L	190
1614152	4	2.10	23	86	.05	17	.20	17	.60	270
1615132	2 L	.97	15	32	.04	15	.78	8	1.20	220
1615133	2 L	1.10	16	35	.04	13	.15	8	1.40	230
1615144	2 L	1.30	13	43	.04	13	.65	9	1.30	260

Table 4.--Continued

SAMPLE	Th ppm-I	Ti %-I	V ppm-I	Y ppm-I	Yb ppm-I	Zn ppm-I
1512133	8	.30	110	14	2	90
1512134	12	.37	130	17	2	100
1513123	6	.22	50	11	1	50
1513124	11	.37	130	16	2	130
1513132	11	.35	110	15	2	99
1513141	10	.27	84	14	1	78
1514121	9	.27	81	12	1	81
1514123	13	.32	100	16	2	97
1514144	12	.37	130	16	2	110
1514154	8	.25	63	12	1	45
1515132	11	.29	100	13	2	100
1515133	10	.27	92	12	1	80
1515144	13	.38	140	16	2	120
1515154	10	.32	120	15	2	93
1516144	9	.24	110	13	1	89
1516153	9	.27	110	12	1	74
1516162	8	.27	71	13	2	60
1516163	10	.35	130	16	2	120
1517154	12	.32	110	15	2	100
1517164	11	.30	100	15	2	91
1517174	5	.35	110	14	2	78
1518151	10	.29	99	14	2	88
1518153	7	.30	96	15	2	65
1518154	7	.29	95	14	2	64
1518163	10	.31	98	14	2	84
1518164	8	.35	120	16	2	83
1613111	4 L	.31	100	15	2	50
1613133	9	.34	99	15	2	94
1613134	11	.33	110	15	2	100
1613142	12	.36	140	16	2	120
1614121	13	.34	110	17	2	100
1614122	13	.34	100	15	2	100
1614123	11	.31	96	15	2	96
1614134	8	.24	82	12	2	80
1614144	8	.23	62	11	1	57
1614151	19	.38	120	17	2	98
1614152	16	.40	140	17	2	110
1615132	9	.24	81	9	1	72
1615133	11	.25	85	11	1	76
1615144	10	.28	89	11	1	76

Table 4.--Continued

SAMPLE	LATITUDE	LONGITUDE	Al %-I	As ppm-M	Ba ppm-I	Be ppm-I	C %-IR	Ca %-I	Ce ppm-I	Co ppm-I
1615151	36 37 53	120 20 2	8.10	9.90	740	1	.14	2.30	44	17
1615153	36 37 6	120 21 1	7.90	8.00	740	1	.28	2.10	44	18
1616144	36 31 53	120 26 36	5.80	9.40	770	1 L	.33	4.00	29	9
1616152	36 32 39	120 21 1	7.50	7.20	110	1	.38	3.40	39	12
1617154	36 26 37	120 20 18	8.00	13.00	920	1	.44	1.00	44	19
1617161	36 27 27	120 13 46	7.60	11.00	870	1	.32	1.20	43	22
1617164	36 26 40	120 13 47	7.60	8.80	930	1	.24	1.70	38	22
1617174	36 26 41	120 7 16	8.70	11.00	600	1	.34	1.50	38	25
1618163	36 21 26	120 14 45	6.80	8.40	1000	1	.27	1.80	37	11
1712121	36 53 37	120 40 20	7.50	6.70	600	1	.16	2.40	42	18
1712124	36 52 49	120 40 19	8.10	9.00	620	1	.36	2.10	38	20
1713122	36 48 23	120 41 24	8.50	11.00	830	1	.24	1.80	43	15
1713124	36 47 35	120 40 29	7.90	9.20	940	1	.24	1.70	45	14
1713142	36 48 20	120 28 28	7.90	11.00	840	1	.69	2.40	44	16
1714131	36 43 10	120 34 5	7.60	12.00	990	1	.64	2.00	44	15
1714144	36 42 22	120 27 34	6.80	7.50	1000	1	.44	1.90	38	13
1715133	36 37 11	120 35 5	7.10	7.80	1100	1	.26	2.00	36	11
1715144	36 37 7	120 27 39	7.30	8.10	880	1	.46	2.40	37	12
1716144	36 31 56	120 27 42	6.80	8.30	1200	1	.37	2.20	33	10
1716152	36 32 39	120 22 5	6.80	7.30	760	1	.40	3.70	36	11
1716163	36 31 54	120 15 35	6.70	8.90	840	1	.40	1.60	38	26
1717154	36 26 37	120 21 24	7.00	9.00	1000	1	.43	1.70	35	19
1717171	36 27 30	120 8 24	7.80	10.00	650	1	.26	1.50	38	20
1717174	36 26 42	120 8 21	8.60	11.00	650	1	.26	1.50	37	25
1812121	36 53 38	120 41 26	7.10	9.10	550	1	.30	1.60	36	17
1812122	36 53 23	120 42 29	7.60	8.80	640	1	.26	1.70	40	18
1812134	36 52 57	120 34 53	7.70	9.60	810	1	.47	2.60	44	15
1813122	36 48 21	120 42 33	6.50	8.40	660	1	.10	1.70	37	11
1813124	36 47 34	120 41 34	7.80	8.60	840	1	.24	1.70	42	13
1813134	36 47 35	120 35 4	8.40	11.00	800	1	.73	3.10	42	18
1814134	36 42 24	120 35 10	6.80	8.20	1200	1	.51	2.10	38	12
1814143	36 42 23	120 29 38	8.80	8.50	790	1	.59	1.90	44	17
1814144	36 42 22	120 28 41	6.90	8.00	990	1	.45	2.30	39	13
1814151	36 43 9	120 22 10	7.50	8.10	850	1	.16	2.10	39	14
1814154	36 42 22	120 22 11	8.00	9.00	810	1	.24	2.20	43	19
1815133	36 37 14	120 36 11	7.10	9.50	990	1	.43	2.70	36	14
1815144	36 37 8	120 28 42	6.90	6.80	990	1	.46	2.40	35	10
1816144	36 31 54	120 28 45	6.90	10.00	790	1	.50	3.40	31	15
1817151	36 27 26	120 22 28	8.10	10.00	940	1	.59	1.40	43	19
1817154	36 26 37	120 22 28	6.30	8.40	1100	1	.43	1.60	38	16

Table 4.--Continued

SAMPLE	Cr ppm-I	Cu ppm-I	Fe %-I	Ga ppm-I	Hg ppm-C	K %-I	La ppm-I	Li ppm-I	Mg ppm-I	Mn ppm-I
1615151	180	39	4.40	18	.17	1.70	24	70	2.50	600
1615153	220	41	4.30	19	.02	2.00	24	66	2.30	620
1616144	120	20	2.60	13	.02L	1.40	17	30	1.00	360
1616152	120	29	3.30	15	.03	1.70	21	49	1.10	480
1617154	170	40	4.30	19	.04	1.90	25	75	2.20	580
1617161	220	39	4.10	17	.06	2.00	24	65	2.70	600
1617164	250	36	3.80	14	.02	2.00	20	55	2.50	580
1617174	210	50	4.90	19	.08	1.70	20	61	2.50	650
1618163	57	24	2.70	14	.02L	1.90	24	41	.84	440
1712121	170	35	3.80	17	.10	1.80	21	46	1.60	720
1712124	160	41	4.00	16	.10	1.60	20	51	1.70	710
1713122	96	41	3.80	18	.02L	2.20	24	72	1.20	540
1713124	67	34	3.60	18	.02L	2.50	25	65	1.00	600
1713142	140	40	4.10	19	.14	1.80	24	70	1.70	600
1714131	96	37	3.80	16	.35	1.00	28	60	1.30	550
1714144	100	26	3.00	15	.16	2.10	21	44	1.30	520
1715133	92	23	2.60	13	.02L	1.80	18	35	.71	410
1715144	89	26	3.40	17	.06	2.10	20	58	1.10	470
1716144	98	26	2.70	14	.02	1.50	20	29	1.00	350
1716152	120	25	3.10	15	.02L	1.90	21	50	1.10	440
1716163	320	32	3.80	16	.10	1.90	20	54	3.60	600
1717154	220	28	3.30	13	.06	2.00	19	43	2.20	550
1717171	160	45	4.50	19	.06	1.70	20	54	2.30	600
1717174	200	53	5.00	18	.06	1.70	19	61	2.70	630
1812121	170	36	3.80	16	.15	1.70	21	51	1.60	710
1812122	130	40	3.90	16	.07	1.70	22	50	1.60	710
1812134	190	41	4.20	19	.10	1.80	24	69	2.00	550
1813122	70	25	2.60	12	.02L	1.80	21	39	.92	460
1813124	94	36	3.50	16	.02L	2.10	23	77	1.20	520
1813134	160	49	4.20	18	.14	1.90	23	70	1.80	590
1814134	110	28	3.00	14	.15	2.30	21	47	1.10	490
1814143	160	44	4.20	19	.10	1.10	24	70	1.60	580
1814144	120	28	3.10	14	.07	2.20	21	47	1.20	510
1814151	170	33	3.60	16	.09	2.00	21	58	2.10	570
1814154	180	40	3.80	18	.05	2.00	22	61	2.30	640
1815133	120	27	3.00	15	.05	1.60	20	38	1.20	450
1815144	73	21	2.80	14	.02L	2.10	20	47	.87	430
1816144	130	28	3.20	14	.02	1.50	19	36	1.30	550
1817151	210	40	3.90	18	.05	2.00	22	64	2.30	550
1817154	230	25	3.10	14	.05	2.00	20	41	1.90	500

Table 4.--Continued

SAMPLE	Mo ppm-I	Na %-I	Nd ppm-I	Ni ppm-I	P %-I	Pb ppm-I	S %-IR	Sc ppm-I	Se ppm-H	Sr ppm-I
1615151	4	1.80	21	120	.07	17	1.31	14	.90	240
1615153	3	1.50	22	150	.08	18	.58	15	1.10	230
1616144	2	1.30	17	45	.10	16	1.72	8	1.80	320
1616152	2 L	1.20	16	55	.08	11	1.03	11	1.20	330
1617154	2 L	1.20	19	150	.06	20	.04	14	.80	200
1617161	2 L	1.30	20	230	.06	19	.05	13	.40	200
1617164	2 L	1.40	16	230	.06	15	.25	13	.70	220
1617174	2 L	1.20	19	150	.08	14	.05	22	.40	210
1618163	2 L	1.60	19	44	.06	23	.02	8	1.10	260
1712121	2 L	1.80	20	99	.06	32	.58	14	.30	340
1712124	2 L	1.80	17	92	.07	15	.01	17	.30	210
1713122	2 L	1.50	23	45	.06	21	.03	15	.60	250
1713124	2 L	1.70	20	43	.08	20	.19	12	.60	260
1713142	2 L	1.10	20	95	.07	14	.34	14	1.20	230
1714131	2 L	1.40	20	73	.06	15	.07	12	.40	240
1714144	2 L	1.50	18	86	.05	14	.03	9	.80	250
1715133	2 L	1.50	13	41	.05	16	.26	8	1.10	300
1715144	2 L	1.50	18	49	.05	15	.68	11	1.40	280
1716144	3	1.40	17	49	.09	15	.49	9	2.20	370
1716152	2 L	1.00	15	55	.06	19	1.34	10	.90	280
1716163	2 L	1.40	14	350	.05	17	.01	11	.40	200
1717154	2 L	1.40	16	210	.06	15	.02	10	.60	240
1717171	2 L	1.60	22	140	.08	11	.24	16	.50	240
1717174	2 L	1.90	18	150	.07	13	.68	20	.80	210
1812121	2 L	1.40	19	97	.07	14	.01L	14	.30	220
1812122	2 L	1.80	21	95	.07	16	.01L	15	.10	200
1812134	2 L	1.20	21	110	.07	17	1.00	14	.70	220
1813122	2 L	1.80	17	46	.05	15	.22	9	.20	190
1813124	2 L	1.50	20	44	.05	21	.20	13	.50	260
1813134	2 L	1.20	24	92	.06	21	.35	16	1.10	250
1814134	2 L	1.40	17	70	.05	16	.03	10	.80	240
1814143	2 L	.97	21	92	.06	17	.06	15	1.00	230
1814144	2 L	1.50	18	71	.06	16	.26	10	.90	260
1814151	2	1.40	18	100	.07	17	.96	11	.60	240
1814154	2 L	1.80	18	120	.08	16	.97	15	1.00	250
1815133	2 L	1.40	19	62	.08	15	.16	11	1.20	330
1815144	2 L	1.20	17	36	.04	17	.47	9	1.30	270
1816144	3	1.60	19	83	.09	13	.60	11	.60	300
1817151	2 L	1.10	19	160	.07	17	.06	14	1.40	220
1817154	2 L	1.40	18	160	.06	23	.04	9	1.10	230

Table 4.--Continued

SAMPLE	Th ppm-I	Ti %-I	V ppm-I	Y ppm-I	Yb ppm-I	Zn ppm-I
1615151	12	.36	130	16	2	100
1615153	11	.37	140	16	2	110
1616144	6	.27	120	13	1	77
1616152	9	.32	110	13	1	90
1617154	12	.35	130	16	2	110
1617161	12	.31	110	15	2	100
1617164	10	.30	98	13	1	86
1617174	8	.38	150	17	2	97
1618163	11	.26	80	14	2	76
1712121	8	.36	110	17	2	79
1712124	7	.37	120	16	2	79
1713122	10	.31	110	17	2	100
1713124	12	.34	97	16	2	94
1713142	11	.34	130	15	2	110
1714131	12	.36	110	16	2	100
1714144	9	.28	84	13	2	79
1715133	8	.28	87	11	1	74
1715144	10	.30	110	12	2	92
1716144	7	.26	140	13	1	110
1716152	9	.28	110	12	1	91
1716163	7	.26	93	13	2	78
1717154	8	.26	84	12	1	75
1717171	7	.36	130	16	2	93
1717174	8	.38	150	17	2	110
1812121	7	.31	110	16	2	80
1812122	9	.36	110	17	2	79
1812134	13	.35	130	16	2	110
1813122	8	.26	78	14	2	63
1813124	12	.33	100	16	2	93
1813134	10	.32	140	16	2	120
1814134	9	.28	87	13	1	78
1814143	13	.37	140	16	2	120
1814144	10	.29	88	14	2	84
1814151	9	.30	100	14	2	90
1814154	11	.34	130	15	2	97
1815133	7	.26	110	14	1	87
1815144	10	.28	90	11	1	81
1816144	7	.33	110	14	2	73
1817151	13	.33	120	15	2	110
1817154	10	.27	87	13	2	75

Table 4.--Continued

SAMPLE	LATITUDE	LONGITUDE	Al %-I	As ppm-H	Ba ppm-I	Be ppm-I	C %-IR	Ca %-I	Ce ppm-I	Co ppm-I
1817164	36 26 38	120 15 56	8.50	12.00	880	1	.40	1.50	44	18
1817174	36 26 42	120 9 26	8.00	12.00	670	1	.32	1.30	40	22
1912122	36 52 46	120 42 26	7.20	8.00	640	1	.22	1.50	38	16
1912124	36 51 57	120 41 27	8.00	9.00	730	1	.36	1.90	43	20
1912134	36 51 58	120 34 53	8.60	10.00	720	1	.60	3.20	44	20
1912143	36 51 60	120 29 20	7.60	11.00	730	1	.73	3.20	43	23
1913124	36 46 45	120 41 35	7.50	9.00	890	1	.25	2.80	38	12
1913133	36 46 45	120 36 5	8.20	10.00	830	1	.78	2.20	46	16
1913134	36 46 44	120 35 4	7.80	9.30	810	1	.57	2.60	42	16
1913144	36 46 43	120 28 38	7.60	21.00	970	1	.77	3.00	39	15
1914121	36 42 21	120 41 37	8.00	9.20	890	1	.17	2.20	41	12
1914132	36 42 20	120 36 7	7.60	8.40	640	1	.67	2.10	38	13
1914133	36 41 33	120 36 7	6.60	9.20	1000	1	.43	1.70	36	11
1914134	36 41 32	120 35 10	8.10	8.00	910	1	.67	2.00	43	15
1914144	36 41 29	120 28 39	7.80	8.50	960	1	.50	1.90	43	15
1915143	36 36 16	120 29 42	5.60	5.70	120	1 L	.30	2.60	26	7
1915144	36 36 15	120 28 43	5.20	7.50	1100	1 L	.33	3.10	26	8
1915151	36 37 2	120 22 12	7.20	7.10	950	1	.49	2.10	38	13
1916151	36 31 47	120 22 14	6.40	6.70	1000	1	.39	2.00	38	10
1916163	36 30 60	120 16 42	7.80	11.00	870	1	.37	1.30	42	23
1916164	36 31 1	120 15 43	7.20	8.80	900	1	.23	1.30	40	22
1916173	36 31 4	120 10 6	7.70	9.30	610	1	.22	2.50	39	20
1916174	36 31 2	120 9 9	8.10	11.00	69	1	.18	2.30	40	24
1917154	36 25 44	120 22 27	5.80	8.40	1200	1	.45	1.90	34	17
1917164	36 25 46	120 15 58	7.60	9.30	950	1	.35	1.70	46	15
1918161	36 21 21	120 15 55	7.20	9.90	1000	1	.34	1.70	45	12
1918164	36 20 33	120 15 54	7.50	7.00	960	1	.36	1.70	43	13
2012122	36 52 45	120 41 19	7.50	9.70	570	1	.45	2.10	35	20
2012131	36 52 50	120 33 45	7.90	10.00	860	1	.58	2.10	45	15
2013124	36 46 46	120 40 36	7.70	8.80	780	1	.22	1.90	42	13
2013134	36 46 43	120 33 59	7.20	12.00	1000	1	.45	1.90	42	14
2013142	36 47 29	120 28 29	6.90	11.00	54	1	.84	5.20	35	19
2013144	36 46 42	120 27 32	8.60	9.50	900	1	.72	2.20	45	17
2014124	36 41 35	120 40 34	8.50	10.00	710	1	.30	1.50	47	12
2014144	36 41 29	120 27 35	7.70	9.00	890	1	.59	2.20	44	14
2015144	36 36 15	120 27 39	6.80	6.70	960	1	.35	1.50	28	9
2015154	36 36 13	120 21 8	6.70	10.00	820	1	.17	1.80	37	24
2015162	36 37 1	120 15 33	7.50	6.90	670	1	.59	2.80	46	14
2016144	36 31 1	120 27 40	6.20	7.80	1000	1	.27	1.80	31	10
2017154	36 25 44	120 21 23	7.90	8.70	880	1	.47	1.40	47	13

Table 4.--Continued

SAMPLE	Cr ppm-I	Cu ppm-I	Fe %-I	Ga ppm-I	Hg ppm-C	K %-I	La ppm-I	Li ppm-I	Mg ppm-I	Mn ppm-I
1817164	160	42	4.00	18	.02	2.00	24	74	1.80	570
1817174	210	47	4.90	18	.05	1.80	21	58	2.40	640
1912122	120	35	3.60	15	.05	1.60	20	43	1.40	640
1912124	190	51	4.70	19	.04	1.60	23	65	1.80	750
1912134	190	48	4.30	20	.13	1.70	23	74	2.00	600
1912143	210	43	4.40	18	.19	1.40	23	67	3.00	610
1913124	75	27	3.40	15	.02L	2.00	21	59	1.00	560
1913133	130	44	4.20	21	.11	2.00	25	73	1.60	560
1913134	160	39	4.00	19	.08	2.00	24	65	1.60	570
1913144	130	35	3.50	15	.24	1.80	21	52	1.30	540
1914121	78	27	3.10	18	.02L	2.20	24	60	1.00	490
1914132	140	39	3.80	17	.10	1.50	23	72	1.50	460
1914133	80	23	2.80	14	.18	2.40	19	44	.99	450
1914134	92	37	3.70	17	.14	1.70	22	62	1.20	580
1914144	130	35	3.90	18	.19	2.10	25	62	1.40	570
1915143	52	15	2.10	12	.02	2.30	13	32	.57	330
1915144	53	16	2.20	11	.02L	2.10	13	32	.55	330
1915151	140	28	3.20	17	.16	2.30	21	48	1.50	490
1916151	110	23	2.90	14	.02L	1.90	21	41	1.00	410
1916163	200	44	4.30	18	.09	1.70	25	72	2.80	640
1916164	330	34	4.00	17	.08	2.10	22	56	3.00	600
1916173	170	47	4.50	17	.03	1.60	21	71	2.70	600
1916174	180	51	5.20	18	.03	1.40	21	69	3.00	650
1917154	250	19	2.90	13	.12	2.00	19	32	2.00	490
1917164	110	34	3.70	16	.02L	2.40	26	62	1.40	560
1918161	80	26	3.10	16	.02L	2.30	25	52	.97	430
1918164	95	28	3.50	17	.02L	2.10	24	56	1.20	460
2012122	140	43	4.30	16	.08	.96	19	53	1.90	740
2012131	130	37	3.90	18	.16	1.90	25	64	1.60	540
2013124	94	33	3.60	17	.02L	2.20	24	68	1.20	530
2013134	150	31	3.40	15	.16	2.10	22	52	1.40	530
2013142	150	41	3.80	16	.14	1.60	20	69	2.30	530
2013144	150	42	4.00	20	.16	1.90	24	70	1.60	590
2014124	120	38	4.00	19	.02	2.10	26	70	1.20	430
2014144	140	38	3.80	18	.08	1.90	23	63	1.40	540
2015144	75	19	2.40	12	.02L	2.00	15	35	.69	390
2015154	290	30	3.80	16	.05	1.90	21	50	3.40	610
2015162	110	24	3.50	16	.03	2.00	26	38	1.30	620
2016144	100	24	2.60	14	.02L	1.70	18	27	.90	360
2017154	97	36	3.80	18	.02	2.00	26	73	1.30	510

Table 4.--Continued

SAMPLE	Mo ppm-I	Na %-I	Nd ppm-I	Ni ppm-I	P %-I	Pb ppm-I	S %-IR	Sc ppm-I	Se ppm-H	Sr ppm-I
1817164	2 L	1.20	23	100	.07	20	.03	16	.80	210
1817174	2 L	1.40	23	150	.09	32	.04	18	.40	220
1912122	2 L	1.80	20	84	.06	11	.01	13	.20	190
1912124	2 L	1.40	24	100	.06	16	.02	18	.20	210
1912134	2 L	1.40	19	120	.07	25	1.20	17	1.30	230
1912143	2 L	1.00	20	190	.07	16	.63	15	.50	230
1913124	2 L	1.50	18	36	.06	18	.92	10	.50	270
1913133	2 L	1.00	22	86	.06	13	.05	15	.90	210
1913134	2 L	1.30	20	93	.05	30	.43	13	.90	230
1913144	2 L	1.40	15	84	.06	15	.03	12	.80	270
1914121	2 L	1.50	20	33	.05	20	.61	12	.90	340
1914132	2 L	.78	18	73	.05	21	.41	14	1.10	210
1914133	2 L	1.50	16	54	.04	15	.04	8	.80	240
1914134	2 L	1.30	20	61	.06	51	.06	12	1.20	250
1914144	2 L	1.40	21	77	.06	21	.03	13	.90	240
1915143	2 L	1.10	13	28	.03	7	.96	6	.90	260
1915144	2 L	.96	10	28	.03	13	1.47	6	.80	260
1915151	2 L	1.60	19	89	.06	17	.18	10	1.00	250
1916151	2 L	1.10	18	50	.07	24	.30	9	1.30	270
1916163	2 L	1.20	22	230	.06	17	.03	15	1.00	190
1916164	2 L	1.40	18	270	.06	17	.01	12	.60	200
1916173	2 L	1.60	20	160	.07	15	1.98	17	.50	300
1916174	2 L	1.90	19	150	.09	13	1.59	20	.40	270
1917154	2 L	1.40	17	180	.05	15	.05	7	1.10	270
1917164	2 L	1.60	21	82	.05	20	.02	12	.50	220
1918161	2 L	1.60	21	46	.06	19	.03	10	.80	250
1918164	2 L	1.50	19	59	.06	21	.03	11	.70	240
2012122	2 L	1.40	18	96	.06	12	.01L	16	.20	200
2012131	2 L	1.50	20	94	.07	18	.12	13	.80	230
2013124	2 L	1.40	19	42	.05	19	.44	13	.60	250
2013134	2 L	1.40	20	95	.06	15	.05	11	.80	230
2013142	2	1.10	19	160	.05	8	.10	13	1.00	350
2013144	2 L	1.10	22	79	.06	20	.06	15	1.00	240
2014124	2 L	1.30	23	46	.07	25	.72	12	1.80	240
2014144	2 L	1.20	20	76	.06	26	.23	13	1.10	230
2015144	2 L	1.30	13	34	.04	16	.05	7	.80	280
2015154	3	1.70	17	300	.06	15	.73	11	.70	210
2015162	2 L	1.70	21	90	.04	15	.01L	12	.10L	300
2016144	3	1.30	17	47	.09	11	.31	9	1.30	300
2017154	2 L	1.40	21	63	.05	35	.11	13	.80	200

Table 4.--Continued

SAMPLE	Th ppm-I	Ti %-I	V ppm-I	Y ppm-I	Yb ppm-I	Zn ppm-I
1817164	12	.35	130	16	2	110
1817174	8	.39	140	17	2	100
1912122	9	.30	100	15	2	73
1912124	11	.37	130	17	2	95
1912134	12	.37	150	16	2	110
1912143	13	.35	130	17	2	110
1913124	9	.29	83	15	2	82
1913133	14	.36	130	16	2	110
1913134	12	.34	120	15	2	110
1913144	9	.31	97	14	2	85
1914121	11	.33	99	15	2	91
1914132	11	.31	120	14	2	110
1914133	10	.24	77	11	1	74
1914134	12	.30	110	14	2	110
1914144	12	.35	120	15	2	110
1915143	5	.20	65	8	1	59
1915144	5	.18	63	8	1	57
1915151	11	.29	100	13	1	90
1916151	10	.28	100	12	1	82
1916163	13	.32	120	17	2	110
1916164	11	.30	100	14	2	93
1916173	11	.34	140	16	2	110
1916174	11	.36	150	18	2	110
1917154	11	.23	73	12	1	63
1917164	10	.33	99	16	2	93
1918161	11	.28	93	14	2	91
1918164	12	.31	110	16	2	100
2012122	9	.32	120	17	2	84
2012131	12	.34	120	16	2	100
2013124	11	.32	100	16	2	98
2013134	12	.31	100	14	1	89
2013142	10	.30	110	15	2	96
2013144	12	.36	130	15	2	110
2014124	15	.33	120	17	2	130
2014144	13	.34	120	16	2	110
2015144	8	.22	76	9	1	65
2015154	11	.28	97	13	2	82
2015162	10	.30	95	15	2	65
2016144	7	.25	110	13	1	81
2017154	12	.35	110	17	2	100

Table 4.--Continued

SAMPLE	LATITUDE	LONGITUDE	Al %-I	As ppm-H	Ba ppm-I	Be ppm-I	C %-IR	Ca %-I	Ce ppm-I	Co ppm-I
2018164	36 20 32	120 14 50	6.90	8.30	1000	1	.30	2.30	35	15
2112121	36 52 44	120 39 15	7.20	7.50	610	1	.36	2.00	37	16
2112123	36 51 58	120 40 10	8.10	9.60	690	1	.73	3.60	42	20
2112124	36 51 57	120 39 15	7.60	10.00	640	1	.35	2.00	38	18
2112133	36 51 57	120 33 40	6.50	8.40	990	1	.52	2.20	36	14
2112134	36 51 57	120 32 42	6.60	9.30	1000	1	.32	1.70	34	12
2113134	36 46 43	120 32 56	8.40	11.00	910	1	.76	2.70	43	17
2113142	36 47 29	120 27 21	6.30	8.70	850	1	.69	2.00	35	12
2113144	36 46 43	120 26 28	8.00	9.70	810	1	.67	2.10	46	15
2114124	36 41 35	120 39 29	7.70	9.00	170	1	.15	2.60	45	12
2114132	36 42 19	120 33 57	7.50	9.90	980	1	.60	1.90	41	13
2114144	36 41 29	120 26 34	8.50	11.00	840	1	.56	2.20	44	17
2114151	36 42 17	120 19 60	8.40	5.00	630	1	1.56	4.40	50	20
2114152	36 42 16	120 20 57	8.50	9.00	740	1	1.22	3.70	45	19
2115144	36 36 17	120 26 36	7.90	9.90	530	1	.57	2.70	45	14
2115151	36 37 0	120 20 2	7.80	9.20	770	1	.34	1.80	38	25
2115154	36 36 13	120 20 3	6.20	3.90	760	1 L	.01L	1.90	25	5
2116144	36 31 1	120 26 39	7.20	7.70	1000	1	.29	2.80	40	13
2116152	36 31 48	120 21 1	6.40	8.50	200	1	.34	4.20	35	10
2116154	36 31 0	120 20 4	8.00	9.90	800	1	.52	1.80	37	21
2116162	36 31 48	120 14 29	7.10	9.20	870	1	.24	1.50	37	22
2117162	36 26 33	120 14 45	8.20	9.30	800	1	.33	1.40	44	23
2117163	36 25 48	120 14 45	6.80	7.10	710	1	.36	2.60	36	11
2117174	36 25 50	120 7 15	8.10	11.00	620	1	.37	1.40	39	22
2118164	36 20 33	120 13 47	7.10	7.90	940	1	.23	1.30	40	13
2212111	36 52 44	120 44 44	7.90	9.90	660	1	.31	2.10	43	20
2212113	36 51 56	120 45 41	7.60	11.00	1100	1	.35	2.10	44	13
2212114	36 51 56	120 44 43	7.10	9.00	960	1	.18	1.60	45	12
2213112	36 47 31	120 45 47	7.30	8.10	520	1	.42	1.70	36	18
2213124	36 46 46	120 38 21	8.20	8.90	1000	1	.58	2.00	43	15
2213131	36 47 31	120 31 49	7.20	10.00	920	1	.56	2.10	39	14
2213134	36 46 43	120 31 59	7.90	9.60	860	1	.57	1.90	44	16
2213142	36 47 30	120 26 18	7.60	8.80	1000	1	.69	2.60	38	16
2214134	36 41 29	120 31 55	3.20	6.60	800	1 L	.58	2.00	18	14
2214144	36 41 29	120 25 26	8.00	9.20	810	1	.56	2.60	43	15
2215134	36 36 16	120 31 59	7.20	6.80	420	1	.50	2.30	38	10
2215144	36 36 16	120 25 29	9.10	9.40	650	1	.42	2.20	47	16
2215154	36 36 12	120 18 57	8.00	9.60	690	1	.24	1.80	38	28
2216144	36 31 1	120 25 30	7.10	7.10	810	1	.37	2.70	33	15
2216154	36 30 60	120 18 58	7.60	9.30	870	1	.49	1.40	40	19

Table 4.--Continued

SAMPLE	Cr ppm-I	Cu ppm-I	Fe %-I	Ga ppm-I	Hg ppm-C	K %-I	La ppm-I	Li ppm-I	Mg ppm-I	Mn ppm-I
2018164	110	23	2.90	13	.02	1.60	20	38	1.10	450
2112121	120	36	3.50	16	.05	1.50	20	43	1.50	650
2112123	150	49	4.50	18	.05	1.90	23	57	1.80	670
2112124	120	40	3.90	17	.07	1.60	20	50	1.60	670
2112133	140	27	3.00	14	.33	2.10	20	41	1.50	490
2112134	96	25	2.80	14	.27	2.20	19	41	1.10	500
2113134	130	41	3.90	18	.12	2.00	23	75	1.80	550
2113142	120	30	3.00	14	.26	1.70	18	48	1.20	470
2113144	140	42	4.10	18	.28	1.80	25	66	1.80	600
2114124	75	30	3.40	17	.02L	2.40	25	69	1.20	460
2114132	88	34	3.60	17	.80	2.10	24	56	1.10	520
2114144	150	44	4.00	17	.11	1.60	23	68	1.50	580
2114151	170	46	4.50	18	.05	1.80	26	64	1.90	510
2114152	180	47	4.20	19	.10	1.70	23	78	2.10	550
2115144	110	35	3.90	17	.02L	1.30	23	71	1.40	520
2115151	290	39	4.10	16	.10	1.90	21	58	3.10	660
2115154	17	3	1.60	12	.02L	2.20	15	20	.55	300
2116144	160	32	3.20	16	.03	1.50	21	38	1.20	430
2116152	110	27	2.90	14	.04	1.80	19	40	.96	410
2116154	210	43	3.80	18	.07	1.60	20	64	2.40	540
2116162	320	31	3.70	16	.23	2.10	22	54	3.00	600
2117162	260	42	4.10	17	.08	.96	22	63	2.50	620
2117163	79	23	2.70	14	.02L	2.20	21	43	1.10	460
2117174	170	51	5.00	18	.07	1.70	21	59	2.40	620
2118164	100	25	3.20	16	.02L	2.30	22	46	1.30	410
2212111	140	41	4.30	17	.03	1.80	23	53	1.70	710
2212113	90	30	3.40	15	.02L	2.20	23	55	1.10	590
2212114	61	26	2.90	15	.02L	2.40	24	47	.87	590
2213112	170	35	4.00	14	.24	1.20	19	37	1.30	690
2213124	120	39	3.60	17	.06	2.00	22	61	1.30	530
2213131	130	32	3.50	16	.18	2.00	21	55	1.50	520
2213134	140	41	4.00	18	.16	2.00	25	66	1.70	570
2213142	150	33	3.30	15	.21	1.60	20	50	1.70	560
2214134	280	16	2.20	7	.15	1.80	9	17	2.50	730
2214144	160	41	4.10	19	.09	2.00	24	68	1.50	560
2215134	88	27	3.20	17	.03	2.10	22	53	1.00	360
2215144	150	36	4.30	20	.06	1.80	25	80	1.70	570
2215154	350	45	4.30	17	.04	1.80	21	69	4.20	650
2216144	140	29	3.10	14	.02L	1.60	19	35	1.30	480
2216154	230	39	4.10	18	.07	1.80	23	68	2.20	580

Table 4.--Continued

SAMPLE	Mo ppm-I	Na %-I	Nd ppm-I	Ni ppm-I	P %-I	Pb ppm-I	S %-IR	Sc ppm-I	Se ppm-H	Sr ppm-I
2018164	2 L	1.50	17	62	.10	17	.04	10	.90	340
2112121	2 L	1.90	19	82	.08	11	.18	13	.20	200
2112123	2 L	1.60	24	100	.07	12	.01L	17	.20	270
2112124	2 L	1.70	20	83	.07	17	.01L	15	.20	210
2112133	2 L	1.50	17	110	.06	14	.05	9	.30	230
2112134	2 L	1.50	15	68	.06	16	.03	9	.50	240
2113134	2 L	1.20	22	110	.06	30	.07	14	.90	260
2113142	2 L	1.30	17	70	.05	15	.17	10	.90	220
2113144	2 L	1.10	21	96	.06	16	.11	14	.90	220
2114124	2 L	1.60	22	40	.05	43	1.14	11	1.30	270
2114132	2 L	1.50	20	55	.06	20	.06	11	1.20	250
2114144	2 L	1.40	21	81	.07	18	.42	14	1.00	260
2114151	2 L	1.50	21	100	.08	15	.15	16	.40	340
2114152	9	1.90	19	110	.06	17	.21	16	1.10	990
2115144	2 L	1.50	18	53	.05	16	.80	13	1.30	240
2115151	3	1.80	17	270	.07	15	.35	14	.60	220
2115154	2 L	2.00	11	10	.03	16	.04	5	.10L	300
2116144	3	1.30	18	68	.11	14	.66	12	2.20	330
2116152	2 L	1.10	17	48	.08	9	1.59	9	1.20	340
2116154	2 L	1.20	20	170	.05	36	.04	14	.90	210
2116162	2 L	1.50	18	270	.05	16	.25	11	.80	210
2117162	2 L	1.30	19	220	.08	70	.22	14	.80	210
2117163	2 L	1.70	19	63	.04	19	.57	8	.40	260
2117174	2 L	1.20	21	150	.07	11	.04	19	.30	200
2118164	2 L	1.50	20	72	.05	15	.06	10	.50	220
2212111	2 L	1.60	20	92	.07	11	.01L	16	.20	190
2212113	2 L	1.50	20	44	.06	20	.04	10	.40	260
2212114	2 L	1.60	22	37	.05	19	.01L	10	.20	220
2213112	2 L	1.40	18	97	.07	59	.01	14	.30	150
2213124	2 L	1.20	16	65	.06	18	.14	13	1.10	240
2213131	2 L	1.40	19	97	.06	18	.04	11	.80	240
2213134	2	1.20	22	99	.07	16	.06	14	.90	220
2213142	2 L	1.50	16	100	.08	16	.06	12	1.30	270
2214134	2 L	.75	10	200	.05	9	.01L	4	.60	160
2214144	2 L	1.20	21	82	.06	18	.53	14	1.00	220
2215134	2	1.20	18	41	.05	17	.76	10	2.00	250
2215144	2 L	1.20	19	66	.06	23	.32	16	2.40	240
2215154	2 L	1.70	19	330	.07	22	1.29	16	1.10	210
2216144	2 L	1.60	18	82	.09	10	.25	12	.90	330
2216154	2 L	1.10	23	170	.06	18	.05	14	.90	190

Table 4.--Continued

SAMPLE	Th ppm-I	Ti %-I	V ppm-I	Y ppm-I	Yb ppm-I	Zn ppm-I
2018164	7	.22	88	13	1	78
2112121	8	.33	100	16	2	73
2112123	8	.37	130	18	2	90
2112124	8	.35	110	16	2	79
2112133	9	.26	85	12	1	72
2112134	8	.25	79	12	1	72
2113134	13	.32	130	15	2	110
2113142	9	.28	92	13	1	80
2113144	13	.36	130	16	2	110
2114124	15	.33	100	15	2	110
2114132	11	.33	100	15	2	99
2114144	13	.36	130	15	2	110
2114151	14	.38	140	16	2	110
2114152	14	.36	140	16	2	120
2115144	14	.35	130	15	2	120
2115151	10	.34	110	14	2	89
2115154	6	.19	38	8	1 L	33
2116144	10	.32	140	15	2	110
2116152	8	.29	110	12	1	85
2116154	12	.32	120	14	2	100
2116162	10	.28	92	14	2	86
2117162	12	.35	120	15	2	110
2117163	9	.28	73	13	2	69
2117174	8	.38	140	17	2	100
2118164	12	.28	96	14	2	82
2212111	9	.38	120	19	2	90
2212113	11	.29	87	15	2	80
2212114	10	.27	80	15	2	76
2213112	8	.33	110	16	2	72
2213124	10	.33	120	15	2	100
2213131	10	.29	100	13	2	88
2213134	12	.34	130	15	2	110
2213142	8	.31	100	14	2	89
2214134	4	.08	35	8	1 L	38
2214144	12	.35	130	16	2	110
2215134	11	.31	110	13	2	99
2215144	14	.38	160	15	2	120
2215154	12	.34	140	15	2	100
2216144	8	.31	100	13	1	70
2216154	12	.33	130	15	2	110

Table 4.--Continued

SAMPLE	LATITUDE	LONGITUDE	Al %-I	As ppm-H	Ba ppm-I	Be ppm-I	C %-IR	Ca %-I	Ce ppm-I	Co ppm-I
2216164	36 31 3	120 12 24	7.40	11.00	210	1	.25	2.60	38	21
2217154	36 25 45	120 19 15	7.80	7.40	990	1	.33	1.70	47	13
2312114	36 51 56	120 43 41	7.00	6.60	630	1	.13	1.40	37	13
2312124	36 51 57	120 37 2	7.80	8.80	860	1	.58	2.00	43	16
2312131	36 52 46	120 30 32	7.50	8.90	990	1	.52	2.30	44	17
2313112	36 47 31	120 44 42	7.20	5.60	770	1	.13	1.40	45	11
2313114	36 46 46	120 43 46	7.00	10.00	1100	1	.60	3.00	48	11
2313134	36 46 43	120 30 48	8.10	8.00	860	1	.67	2.00	46	15
2313142	36 47 31	120 25 13	7.70	10.00	950	1	.55	2.20	44	17
2313144	36 46 44	120 24 16	8.80	9.20	810	1	.61	2.30	45	16
2314134	36 41 28	120 30 51	7.40	10.00	970	1	.62	2.20	39	14
2314144	36 41 30	120 24 22	7.10	8.00	840	1	.38	2.00	38	14
2314153	36 41 28	120 18 49	7.70	8.40	770	1	.57	3.80	49	11
2315144	36 36 15	120 24 24	7.30	8.80	840	1	.40	2.40	36	12
2315154	36 36 12	120 17 55	8.40	11.00	730	1	.21	1.70	44	28
2316144	36 31 0	120 24 27	6.30	8.20	910	1	.34	2.00	34	11
2316152	36 31 47	120 18 50	7.90	9.00	910	1	.38	1.50	44	19
2318154	36 20 34	120 18 8	6.50	7.10	1000	1	.22	1.80	39	10
2412112	36 52 45	120 43 33	7.10	8.00	640	1	.18	1.60	39	16
2412114	36 51 57	120 42 33	8.30	8.80	650	1	.40	2.10	40	20
2412124	36 51 58	120 35 58	8.60	8.70	820	1	.58	2.20	48	18
2412133	36 51 58	120 30 25	5.50	6.20	1100	1 L	.40	2.00	31	13
2413114	36 46 45	120 42 43	7.90	13.00	750	1	.37	2.00	44	14
2413131	36 47 31	120 29 43	8.00	9.60	880	1	.75	2.20	47	16
2413134	36 46 43	120 29 42	7.70	11.00	920	1	.67	2.20	42	16
2414123	36 41 32	120 37 12	7.00	8.30	890	1	.44	1.70	40	11
2414134	36 41 29	120 29 45	5.00	8.80	1300	1 L	.43	1.80	26	11
2414144	36 41 30	120 23 16	7.80	9.50	970	1	.41	1.90	37	17
2415132	36 37 3	120 30 46	8.30	6.70	720	1	.67	2.10	46	12
2415144	36 36 15	120 23 19	8.10	9.00	700	1	.36	2.00	46	14
2415154	36 36 12	120 16 46	7.00	9.70	470	1	.18	2.30	38	28
2416144	36 31 0	120 23 19	6.90	8.20	1100	1	.30	1.90	38	11
2416152	36 31 47	120 17 45	7.30	10.00	910	1	.45	1.40	38	19
2417141	36 26 31	120 23 37	6.90	7.70	1000	1	.55	1.60	39	17
2417144	36 25 44	120 23 37	7.00	7.40	870	1	.55	2.30	39	24
2417154	36 25 45	120 17 4	7.20	10.00	950	1	.28	1.50	42	15
2417161	36 26 36	120 10 45	7.90	8.90	670	1	.42	2.10	36	20
2418151	36 21 20	120 17 2	7.70	9.80	990	1	.38	2.30	45	13
2512114	36 51 5	120 42 33	8.10	9.90	690	1	.44	2.30	37	19
2512134	36 51 11	120 29 26	7.50	7.10	970	1	.59	2.70	40	16

Table 4.--Continued

SAMPLE	Cr ppm-I	Cu ppm-I	Fe %-I	Ga ppm-I	Hg ppm-C	K %-I	La ppm-I	Li ppm-I	Mg ppm-I	Mn ppm-I
2216164	220	42	4.10	17	.07	1.70	21	70	2.70	600
2217154	120	33	3.80	18	.04	2.30	25	68	1.30	530
2312114	140	28	3.30	14	.05	1.70	20	40	1.20	610
2312124	150	40	4.00	17	.22	1.80	24	64	1.70	570
2312131	200	37	3.80	16	.28	1.90	24	56	1.90	620
2313112	62	22	2.80	15	.02L	2.20	24	45	.81	570
2313114	51	23	2.90	15	.02L	2.60	26	56	.90	560
2313134	130	43	4.10	18	.18	1.90	25	67	1.50	580
2313142	140	40	4.00	16	.30	1.90	25	61	1.80	640
2313144	190	46	4.60	20	.07	1.80	25	80	2.00	610
2314134	95	36	3.70	16	.19	1.90	25	61	1.40	530
2314144	170	26	3.30	15	.09	2.20	21	50	1.70	500
2314153	59	15	2.60	14	.02L	2.40	27	23	.94	590
2315144	160	27	3.20	14	.09	2.00	22	50	1.50	450
2315154	300	51	4.80	18	.09	1.90	23	75	3.60	730
2316144	100	23	2.80	13	.02L	1.70	19	35	1.10	370
2316152	210	38	4.10	19	.06	2.10	24	68	2.40	590
2318154	69	15	2.40	14	.02L	2.50	21	31	.83	420
2412112	130	35	3.70	16	.07	1.70	21	45	1.40	680
2412114	170	42	4.10	16	.07	1.40	20	54	1.70	720
2412124	190	45	4.60	21	.16	1.90	26	78	2.00	610
2412133	220	17	2.30	12	.70	2.00	17	27	1.60	420
2413114	83	39	3.80	17	.02	2.00	24	78	1.30	510
2413131	120	45	4.20	20	.13	1.80	25	69	1.40	610
2413134	110	38	3.80	16	.16	1.40	23	61	1.50	550
2414123	86	25	2.90	15	.09	2.10	22	47	.86	480
2414134	110	31	2.40	9	.29	2.30	15	28	1.10	470
2414144	170	37	3.50	15	.13	2.00	20	54	1.80	560
2415132	110	32	3.80	19	.02L	1.70	25	76	1.30	430
2415144	170	35	4.20	19	.03	1.90	26	64	1.60	530
2415154	290	37	3.80	14	.15	1.80	19	59	4.50	630
2416144	120	24	3.00	14	.04	2.20	22	43	1.10	440
2416152	200	36	3.80	16	.07	1.90	21	61	2.30	580
2417141	170	28	3.40	14	.06	1.80	21	48	2.00	530
2417144	240	31	3.90	15	.04	1.40	21	49	2.70	610
2417154	110	27	3.20	17	.02L	2.30	24	54	1.40	510
2417161	180	36	3.90	14	.07	1.20	18	44	1.90	550
2418151	76	31	3.20	16	.02	2.40	25	53	1.00	450
2512114	150	42	3.80	17	.02	1.60	20	55	1.70	700
2512134	200	34	3.80	17	.97	1.90	23	56	2.00	540

Table 4.--Continued

SAMPLE	Mo ppm-I	Na %-I	Nd ppm-I	Ni ppm-I	P %-I	Pb ppm-I	S %-IR	Sc ppm-I	Se ppm-H	Sr ppm-I
2216164	2	1.30	19	210	.06	14	1.42	14	.60	210
2217154	2 L	1.30	22	70	.05	23	.14	13	.60	200
2312114	2 L	1.70	19	67	.08	15	.01L	11	.20	180
2312124	2 L	1.20	19	110	.07	33	.09	14	.90	230
2312131	2 L	1.40	20	140	.07	17	.04	13	.70	250
2313112	2 L	1.90	20	39	.04	27	.02	10	.20	220
2313114	2 L	1.50	20	26	.05	23	.02	9	.40	230
2313134	2 L	1.10	22	79	.06	18	.09	14	.90	240
2313142	2 L	1.30	22	110	.07	19	.05	13	.50	220
2313144	2 L	1.00	21	100	.06	18	.32	15	.90	220
2314134	2 L	1.20	20	73	.06	28	.26	12	1.10	240
2314144	2 L	1.60	18	110	.04	17	.30	9	.60	230
2314153	3	2.70	19	39	.06	15	.10	8	.20	470
2315144	2 L	1.30	17	87	.06	18	.19	10	1.00	260
2315154	2 L	1.30	18	290	.08	17	.76	17	.60	180
2316144	2 L	1.20	15	54	.08	14	.35	9	1.40	290
2316152	2 L	1.30	22	180	.08	19	.11	14	1.00	210
2318154	2 L	1.70	17	44	.06	15	.02	7	.50	280
2412112	2 L	1.70	18	87	.05	14	.01L	14	.20	170
2412114	2 L	1.80	16	98	.08	55	.01L	16	.20	230
2412124	2	.92	23	130	.07	21	.05	17	.80	230
2412133	2 L	1.60	14	130	.05	14	.04	6	.40	240
2413114	2 L	1.30	21	47	.06	20	.51	14	.60	250
2413131	2 L	1.30	23	81	.06	36	.07	14	1.00	230
2413134	2 L	1.30	19	75	.06	16	.07	12	.80	240
2414123	2 L	1.60	19	40	.05	71	.03	9	1.00	250
2414134	2 L	1.10	12	79	.05	13	.03	6	.60	220
2414144	2 L	1.70	15	120	.08	16	.33	13	1.50	250
2415132	2 L	.93	21	51	.04	16	.30	13	1.50	220
2415144	2 L	1.30	22	78	.07	18	.18	14	1.70	230
2415154	3	1.70	17	360	.06	33	1.62	12	.60	270
2416144	2 L	1.30	18	54	.07	17	.06	9	1.20	300
2416152	2 L	1.20	17	190	.07	16	.04	12	1.00	200
2417141	2 L	1.50	19	170	.06	35	.05	10	1.00	230
2417144	2 L	1.20	18	230	.05	13	.01L	13	.40	260
2417154	2 L	1.60	21	86	.05	19	.02	10	.10	220
2417161	2 L	1.60	18	130	.08	43	.02	14	.30	300
2418151	2 L	1.80	19	36	.05	20	.06	11	.80	270
2512114	2 L	1.60	19	83	.08	14	.01L	16	.30	240
2512134	2 L	1.20	19	140	.06	17	.05	13	.50	230

Table 4.--Continued

SAMPLE	Th ppm-I	Ti %-I	V ppm-I	Y ppm-I	Yb ppm-I	Zn ppm-I
2216164	10	.32	120	15	2	100
2217154	13	.33	110	16	2	100
2312114	7	.30	87	15	2	65
2312124	13	.34	120	15	2	110
2312131	11	.35	110	16	2	94
2313112	11	.31	78	15	2	71
2313114	11	.28	80	15	2	79
2313134	13	.36	130	16	2	110
2313142	11	.38	120	17	2	100
2313144	13	.36	140	16	2	120
2314134	11	.32	110	15	2	97
2314144	9	.28	87	13	2	79
2314153	9	.28	66	14	2	44
2315144	8	.28	100	13	2	86
2315154	10	.37	140	16	2	110
2316144	9	.26	110	13	1	84
2316152	12	.34	120	15	2	110
2318154	8	.24	72	13	1	64
2412112	4 L	.30	100	16	2	73
2412114	6	.37	120	16	2	87
2412124	14	.40	150	17	2	120
2412133	7	.21	58	10	1	50
2413114	13	.34	110	17	2	100
2413131	13	.36	130	17	2	120
2413134	13	.34	110	16	2	100
2414123	11	.29	84	13	2	83
2414134	6	.17	58	10	1	56
2414144	9	.31	110	14	2	98
2415132	14	.36	130	15	2	120
2415144	15	.36	150	15	2	120
2415154	9	.27	110	13	1	92
2416144	9	.29	100	12	2	83
2416152	10	.28	110	14	2	98
2417141	9	.29	94	13	2	84
2417144	9	.30	100	15	2	79
2417154	11	.29	88	14	2	81
2417161	6	.36	110	15	2	78
2418151	10	.28	93	15	2	89
2512114	9	.35	120	15	2	100
2512134	9	.32	120	14	2	95

Table 4.--Continued

SAMPLE	LATITUDE	LONGITUDE	Al %-I	As ppm-H	Ba ppm-I	Be ppm-I	C %-IR	Ca %-I	Ce ppm-I	Co ppm-I
2513114	36 45 51	120 42 40	7.50	8.90	1000	1	.30	1.70	46	12
2513122	36 46 36	120 37 9	3.30	6.10	900	1 L	.45	1.30	17	7
2513124	36 45 50	120 36 13	7.70	7.50	900	1	.42	1.40	43	14
2513134	36 45 51	120 29 43	8.00	12.00	920	1	.76	2.20	46	16
2514123	36 40 42	120 37 10	6.60	8.70	1300	1	.40	1.80	35	12
2514124	36 40 40	120 36 14	8.70	10.00	870	1	.74	2.20	46	15
2514134	36 40 38	120 29 45	6.50	7.10	1100	1	.38	1.70	31	12
2515122	36 36 15	120 37 16	6.20	6.70	880	1	.37	2.50	33	13
2515132	36 36 12	120 30 47	7.40	6.80	730	1	.52	3.50	41	12
2515134	36 35 24	120 29 47	6.90	8.30	920	1	.46	2.30	39	11
2515144	36 35 23	120 23 20	7.20	7.90	840	1	.30	1.40	39	12
2515154	36 35 20	120 16 47	7.30	8.50	740	1	.16	1.80	39	25
2516154	36 30 9	120 16 49	7.00	9.40	950	1	.37	1.50	38	19
2516162	36 30 57	120 11 10	7.10	10.00	210	1	.21	2.30	37	19
2516164	36 30 11	120 10 14	7.90	12.00	630	1	.24	1.50	38	22
2517142	36 25 41	120 24 34	5.60	7.40	990	1 L	.38	2.00	33	17
2517143	36 24 52	120 24 27	4.90	6.50	780	1 L	2.22	7.70	29	17
2517162	36 25 42	120 11 31	7.50	9.50	680	1	.28	1.80	35	20
2518151	36 20 27	120 17 3	6.80	8.10	990	1	.32	1.60	43	11
2518154	36 19 40	120 17 1	6.40	7.10	910	1	.31	2.30	38	11
2612114	36 51 3	120 43 37	7.20	9.30	640	1	.47	2.00	38	15
2612122	36 51 53	120 38 2	7.60	11.00	120	1	.58	2.90	41	17
2612124	36 51 5	120 37 8	7.70	8.60	1000	1	.45	2.10	45	16
2612133	36 51 6	120 31 30	5.60	6.70	1100	1 L	.35	1.90	28	13
2613114	36 45 51	120 43 46	7.20	10.00	870	1	.32	1.50	40	11
2613134	36 45 50	120 30 49	8.50	11.00	940	1	.60	2.00	43	16
2613143	36 45 51	120 25 15	7.80	9.80	840	1	.67	2.50	42	16
2614134	36 40 37	120 30 51	5.60	7.20	1100	1	.34	1.60	31	11
2614144	36 40 38	120 24 22	7.70	9.20	980	1	.45	1.90	35	15
2614153	36 40 38	120 18 46	7.60	6.80	720	1	.58	3.40	51	11
2615144	36 35 24	120 24 26	7.50	8.20	790	1	.52	2.30	40	12
2615154	36 35 20	120 17 53	7.30	8.40	620	1	.17	1.80	36	28
2616144	36 30 8	120 24 25	6.00	8.20	1100	1	.29	2.10	30	9
2616151	36 30 55	120 17 55	6.80	8.90	1000	1	.30	1.30	35	20
2616154	36 30 8	120 17 54	7.00	10.00	1000	1	.37	1.50	36	18
2617151	36 25 41	120 18 9	6.90	7.30	1000	1	.27	1.60	37	13
2617162	36 25 42	120 12 34	7.20	9.50	790	1	.20	2.80	37	16
2712113	36 51 4	120 45 41	7.20	9.80	1100	1	.17	1.70	42	13
2712114	36 51 4	120 44 42	7.60	9.40	800	1	.37	2.20	43	13
2712124	36 51 4	120 38 9	8.10	8.20	320	1	.66	2.80	43	16

Table 4.--Continued

SAMPLE	Cr ppm-I	Cu ppm-I	Fe %-I	Ga ppm-I	Hg ppm-C	K %-I	La ppm-I	Li ppm-I	Mg ppm-I	Mn ppm-I
2513114	66	31	3.40	19	.02L	2.20	25	58	.95	570
2513122	91	8	1.60	6	.23	1.60	10	15	.91	370
2513124	120	36	3.80	17	.08	2.00	23	58	1.40	570
2513134	110	44	4.10	18	.14	1.90	25	69	1.40	580
2514123	110	22	2.70	12	.24	1.80	18	37	.97	480
2514124	150	44	4.50	19	.09	1.90	25	79	1.60	590
2514134	110	23	2.60	12	.28	2.30	17	33	1.00	460
2515122	150	22	2.60	13	.16	2.00	18	32	1.30	480
2515132	110	26	3.40	18	.02L	1.80	21	64	1.10	460
2515134	71	23	3.00	15	.02L	1.40	23	51	.96	420
2515144	100	27	3.30	16	.03	2.10	21	49	1.20	470
2515154	370	37	4.30	17	.06	1.90	21	62	3.80	640
2516154	210	35	3.70	15	.07	2.00	21	57	2.50	570
2516162	200	36	3.80	16	.04	2.00	23	61	2.50	570
2516164	180	54	5.00	19	.06	1.70	21	66	2.50	610
2517142	360	21	2.80	12	.02	2.00	18	21	2.20	380
2517143	290	17	2.50	10	.02	1.80	15	27	2.80	420
2517162	150	35	4.10	16	.04	1.50	19	45	2.00	560
2518151	57	19	2.70	13	.02L	2.20	23	41	.87	390
2518154	180	18	2.60	13	.02	1.80	24	29	1.20	380
2612114	110	34	3.60	16	.04	1.60	20	50	1.40	620
2612122	140	41	4.10	16	.26	1.60	22	65	1.90	560
2612124	160	34	3.80	17	.13	2.10	25	59	1.60	580
2612133	150	18	2.30	11	.24	2.20	16	27	1.50	450
2613114	72	28	3.20	16	.02	2.40	23	48	.90	450
2613134	140	43	4.10	18	.22	1.80	24	65	1.40	600
2613143	130	42	4.10	18	.12	1.80	24	66	1.70	560
2614134	120	19	2.40	12	.13	2.40	18	30	1.10	450
2614144	150	34	3.40	15	.18	1.80	21	54	1.50	540
2614153	75	17	2.80	16	.02L	2.20	28	29	1.10	1400
2615144	120	31	3.60	18	.03	2.00	23	58	1.40	480
2615154	370	36	4.00	16	.13	1.80	19	52	3.70	650
2616144	96	20	2.50	13	.02L	2.00	18	32	.87	360
2616151	210	32	3.50	15	.04	2.10	22	53	2.60	560
2616154	200	36	3.60	16	.07	2.00	20	55	2.10	550
2617151	130	20	2.70	13	.02L	1.30	20	39	1.10	470
2617162	180	36	3.80	17	.03	2.10	21	61	2.20	510
2712113	60	36	2.80	15	.02L	2.40	23	40	.81	620
2712114	74	27	2.90	15	.02L	1.70	22	47	.90	570
2712124	160	42	4.10	17	.11	1.90	25	70	1.70	590

Table 4.--Continued

SAMPLE	Mo ppm-I	Na %-I	Nd ppm-I	Ni ppm-I	P %-I	Pb ppm-I	S %-IR	Sc ppm-I	Se ppm-H	Sr ppm-I
2513114	2 L	1.60	23	37	.06	24	.12	11	.80	260
2513122	2 L	.89	8	69	.04	17	.03	3	.60	160
2513124	2 L	1.20	22	81	.04	17	.03	13	.70	220
2513134	2 L	1.20	23	78	.06	22	.07	13	.80	250
2514123	2 L	1.40	14	56	.06	18	.04	8	.90	270
2514124	2 L	1.10	23	78	.06	21	.05	14	.80	220
2514134	2 L	1.40	14	73	.06	16	.03	7	.80	260
2515122	2 L	1.50	16	100	.05	14	.30	8	.30	270
2515132	2 L	1.00	19	44	.04	23	1.19	11	1.10	270
2515134	2 L	1.10	19	42	.04	15	.23	9	1.30	260
2515144	2 L	1.70	19	60	.08	16	.41	11	1.50	230
2515154	2	1.40	19	330	.06	16	.86	14	.80	190
2516154	2 L	1.30	20	200	.06	13	.02	11	.70	210
2516162	2 L	1.90	22	170	.06	14	1.56	13	1.50	190
2516164	2 L	1.30	18	160	.07	16	.66	20	.30	170
2517142	2 L	1.30	17	180	.03	14	.01	7	.20	190
2517143	2 L	1.10	13	220	.06	8	.01L	6	.30	290
2517162	2 L	1.50	18	120	.08	13	.10	14	.30	270
2518151	2 L	1.50	18	33	.05	17	.01L	8	.60	240
2518154	2 L	1.50	19	85	.12	13	.22	8	1.00	350
2612114	2 L	1.70	18	73	.06	18	.01	13	.20	210
2612122	2 L	1.20	18	99	.07	16	1.03	14	1.00	230
2612124	2 L	1.30	21	100	.07	19	.02	13	.80	240
2612133	2 L	1.50	14	130	.05	12	.02	6	.10L	240
2613114	2 L	1.40	20	38	.07	17	.27	10	.50	250
2613134	2 L	1.20	19	82	.07	18	.06	15	1.00	240
2613143	2 L	1.40	21	99	.07	17	.38	14	1.30	250
2614134	2 L	1.40	14	79	.05	16	.02	6	.60	230
2614144	2 L	1.40	16	92	.07	18	.07	12	.90	260
2614153	9	2.80	23	58	.05	17	.24	8	.10	420
2615144	2	1.30	19	67	.07	14	.41	12	2.20	240
2615154	2	1.60	17	360	.06	14	.75	13	.60	220
2616144	3	1.40	15	46	.07	12	.51	7	1.50	290
2616151	2 L	1.30	18	210	.07	15	.11	11	.60	190
2616154	2 L	1.30	17	180	.05	17	.03	11	.50	200
2617151	2 L	1.60	15	74	.05	46	.06	8	.50	240
2617162	2 L	1.40	19	120	.08	19	1.43	13	.80	220
2712113	2 L	1.80	19	42	.05	23	.02	9	.50	260
2712114	2 L	1.60	19	38	.06	17	.02	10	.30	250
2712124	2 L	1.30	21	95	.06	11	.77	14	1.20	250

Table 4.--Continued

SAMPLE	Th ppm-I	Ti %-I	V ppm-I	Y ppm-I	Yb ppm-I	Zn ppm-I
2513114	13	.31	92	16	2	92
2513122	4	.11	32	7	1 L	32
2513124	12	.33	120	15	2	100
2513134	13	.37	120	16	2	110
2514123	8	.26	73	12	1	71
2514124	14	.36	130	16	2	120
2514134	7	.23	69	11	1	66
2515122	9	.27	76	11	1	59
2515132	12	.32	120	13	1	93
2515134	12	.29	99	12	1	81
2515144	11	.30	110	13	2	95
2515154	12	.31	120	14	2	100
2516154	9	.28	100	15	2	89
2516162	11	.31	110	15	2	95
2516164	8	.36	150	17	2	100
2517142	8	.25	69	12	1	45
2517143	4 L	.19	65	10	1	46
2517162	7	.34	120	16	2	81
2518151	11	.26	76	14	2	74
2518154	9	.25	91	14	1	69
2612114	8	.31	100	15	2	74
2612122	13	.34	130	16	2	110
2612124	11	.35	120	15	2	100
2612133	7	.21	56	10	1	50
2613114	13	.29	93	14	2	96
2613134	11	.36	120	15	2	110
2613143	12	.35	130	15	2	110
2614134	7	.21	59	10	1	60
2614144	10	.30	110	13	2	94
2614153	12	.27	70	15	2	49
2615144	10	.31	130	14	2	100
2615154	10	.30	99	13	1	85
2616144	5	.25	93	11	1	71
2616151	11	.27	96	14	2	87
2616154	7	.28	100	13	2	87
2617151	9	.26	69	12	1	71
2617162	9	.29	110	15	2	96
2712113	7	.26	75	14	2	73
2712114	10	.30	82	14	2	75
2712124	12	.36	130	15	2	110

Table 4.--Continued

SAMPLE	LATITUDE	LONGITUDE	Al %-I	As ppm-H	Ba ppm-I	Be ppm-I	C %-IR	Ca %-I	Ce ppm-I	Co ppm-I
2712131	36 51 54	120 31 35	7.60	9.00	870	1	.51	1.90	43	16
2712133	36 51 7	120 32 35	7.60	8.30	1000	1	.44	2.00	46	15
2713111	36 46 39	120 44 50	7.40	12.00	960	1	.32	1.50	43	13
2713122	36 46 38	120 39 17	8.70	11.00	780	1	.31	1.50	44	13
2713124	36 45 53	120 38 21	7.40	8.60	1100	1	.42	2.10	39	12
2713134	36 45 50	120 31 53	7.00	11.00	970	1	.45	1.70	40	13
2713141	36 46 38	120 25 20	7.90	11.00	910	1	.86	2.70	41	17
2714121	36 41 27	120 38 23	7.40	11.00	910	1	.50	2.40	44	13
2714123	36 40 41	120 39 21	7.80	10.00	860	1	.21	2.80	43	14
2714132	36 41 26	120 32 53	7.30	5.80	1700	1	.21	1.70	36	11
2714134	36 40 38	120 31 56	7.00	7.80	1100	1	.40	1.90	33	13
2714144	36 40 37	120 25 25	7.80	9.30	980	1	.52	2.10	40	16
2715132	36 36 12	120 32 54	4.40	7.90	2300	1 L	.35	2.80	21	8
2715144	36 35 23	120 25 29	7.90	8.10	790	1	.37	2.20	40	14
2715154	36 35 20	120 18 57	6.40	9.60	200	1	.12	2.40	37	24
2716144	36 30 8	120 25 29	6.00	5.40	920	1	.66	3.20	30	9
2716162	36 30 56	120 13 23	7.90	9.80	770	1	.28	1.30	42	27
2717154	36 24 53	120 19 13	7.20	11.00	980	1	.42	1.40	41	13
2717162	36 25 42	120 13 40	7.00	8.70	770	1 L	.11	1.80	33	15
2717164	36 24 56	120 12 43	7.90	8.60	810	1	.24	1.60	40	19
2717171	36 25 45	120 6 17	8.10	12.00	610	1	.29	1.10	37	25
2718161	36 20 29	120 12 45	6.60	5.40	900	1	.06	.99	36	11
2813134	36 45 51	120 32 57	8.30	9.70	880	1	.67	2.40	43	17
2813144	36 45 51	120 26 27	8.00	11.00	820	1	.66	2.30	43	16
2814123	36 40 40	120 40 26	8.00	19.00	960	1	.21	1.50	47	13
2814144	36 40 38	120 26 31	8.30	9.30	870	1	.64	2.30	47	15
2814151	36 41 23	120 20 1	8.70	11.00	610	1	.49	1.80	45	23
2814152	36 41 24	120 20 58	7.60	8.90	110	1	.14	3.30	38	18
2814154	36 40 36	120 20 1	8.10	9.60	690	1	.57	2.40	44	16
2815132	36 36 14	120 33 60	7.40	8.50	1000	1	.47	2.20	36	11
2815134	36 35 25	120 33 4	6.70	6.10	220	1	.39	3.60	36	10
2815144	36 35 22	120 26 35	8.00	11.00	540	1	.52	2.90	43	13
2815154	36 35 21	120 20 3	6.40	8.20	740	1	.20	1.80	36	27
2816144	36 30 11	120 26 36	6.70	7.50	900	1	.65	3.50	32	14
2816152	36 30 53	120 21 0	7.40	6.60	800	1	.47	3.20	41	13
2816154	36 30 7	120 20 4	7.40	9.40	850	1	.44	1.40	40	18
2816162	36 30 55	120 14 29	7.90	11.00	900	1	.39	1.60	44	20
2816164	36 30 9	120 13 31	7.70	12.00	860	1	.27	1.60	41	20
2817151	36 25 41	120 20 19	7.20	8.30	1000	1	.45	1.80	36	14
2817154	36 24 52	120 20 20	7.90	9.10	920	1	.45	1.40	43	15

Table 4.--Continued

SAMPLE	Cr ppm-I	Cu ppm-I	Fe %-I	Ga ppm-I	Hg ppm-C	K %-I	La ppm-I	Li ppm-I	Mg ppm-I	Mn ppm-I
2712131	180	38	3.90	17	.45	1.80	24	62	1.50	550
2712133	150	32	3.60	17	.18	2.20	25	54	1.40	570
2713111	53	29	3.20	14	.02L	2.40	24	59	.97	610
2713122	110	41	4.20	19	.02	2.00	24	86	1.50	540
2713124	100	27	3.20	14	.11	2.10	22	48	1.10	500
2713134	140	29	3.20	16	.16	2.10	21	49	1.40	510
2713141	130	41	4.10	18	.10	1.70	23	67	1.90	560
2714121	57	27	3.20	16	.02L	1.90	24	59	1.10	500
2714123	58	33	3.30	15	.02L	2.20	23	75	1.10	590
2714132	140	19	2.60	15	.38	3.80	20	27	1.20	510
2714134	110	25	2.80	12	.16	1.40	18	38	1.00	510
2714144	160	36	3.50	17	.09	2.00	21	55	1.70	530
2715132	37	14	2.10	8	.02L	2.10	12	24	.42	300
2715144	140	34	3.60	17	.02L	1.80	21	55	1.40	450
2715154	260	31	3.60	14	.05	2.00	22	51	3.70	590
2716144	86	19	2.30	13	.02L	2.00	17	34	.96	380
2716162	380	42	4.40	17	.09	1.90	24	73	3.70	680
2717154	88	28	3.20	15	.02	2.20	22	56	1.20	460
2717162	140	22	3.30	14	.02L	1.70	19	33	1.40	530
2717164	160	36	3.80	17	.03	1.80	20	51	1.90	530
2717171	170	51	5.10	19	.08	1.50	20	58	2.60	620
2718161	91	20	2.60	15	.02L	2.60	19	34	1.10	380
2813134	160	46	4.10	17	.16	1.70	24	66	1.60	570
2813144	120	43	4.10	19	.10	1.50	27	71	1.70	560
2814123	75	31	3.40	16	.02L	2.30	26	61	1.00	560
2814144	140	40	4.20	19	.12	1.90	27	73	1.50	570
2814151	220	48	5.30	20	.12	1.80	25	74	2.40	1200
2814152	190	40	3.80	17	.20	1.60	21	67	2.70	580
2814154	150	44	4.40	20	.10	1.70	25	77	1.80	530
2815132	100	32	2.90	15	.02L	2.20	20	47	.99	420
2815134	94	21	2.90	15	.02L	2.20	19	46	.88	390
2815144	120	32	4.00	19	.02L	1.60	24	80	1.40	490
2815154	410	27	3.40	14	.08	1.90	21	45	4.50	580
2816144	130	21	2.60	13	.03	1.40	18	32	1.40	510
2816152	110	32	3.70	17	.02	1.90	23	57	1.30	480
2816154	210	38	3.90	18	.06	1.80	22	64	2.20	550
2816162	180	36	3.60	17	.20	2.00	24	62	2.10	570
2816164	170	43	4.20	16	.10	1.80	23	71	2.30	600
2817151	140	23	2.90	13	.04	2.00	20	38	1.40	490
2817154	120	32	3.50	16	.02	2.20	24	60	1.20	510

Table 4.--Continued

SAMPLE	Mo ppm-I	Na %-I	Nd ppm-I	Ni ppm-I	P %-I	Pb ppm-I	S %-IR	Sc ppm-I	Se ppm-H	Sr ppm-I
2712131	2 L	1.20	21	110	.06	19	.04	13	.60	220
2712133	2 L	1.50	23	97	.07	19	.03	12	.80	260
2713111	2 L	1.50	19	34	.04	23	.22	10	.50	230
2713122	2 L	1.50	20	50	.08	19	.17	14	.70	240
2713124	2 L	1.60	18	60	.05	18	.18	9	.70	260
2713134	2 L	1.40	20	87	.06	20	.04	10	.80	230
2713141	2 L	1.10	19	88	.07	16	.13	14	1.00	240
2714121	2 L	1.60	20	33	.06	21	.27	10	.70	260
2714123	2 L	1.20	21	37	.05	56	1.10	12	.20	280
2714132	2 L	2.10	20	83	.06	46	.03	6	.60	320
2714134	2 L	1.60	15	71	.06	96	.14	8	.80	270
2714144	2 L	1.30	18	100	.06	20	.09	12	.80	260
2715132	2 L	.96	9	22	.04	13	1.46	4	1.50	260
2715144	2	1.10	18	63	.07	15	.39	13	3.00	260
2715154	2 L	1.50	19	320	.05	14	1.22	11	.90	200
2716144	2 L	1.50	17	50	.06	14	.23	7	.70	290
2716162	2 L	1.30	19	340	.07	20	.42	14	.70	220
2717154	2 L	1.40	20	64	.05	20	.03	10	.50	220
2717162	2 L	2.00	17	100	.06	29	.02	10	.20	310
2717164	2 L	1.70	17	110	.07	15	.34	14	.90	250
2717171	2 L	1.80	19	150	.09	14	.28	19	.30	200
2718161	2 L	1.50	18	73	.03	12	.02	8	.40	210
2813134	2 L	1.10	17	100	.07	16	.04	15	.90	230
2813144	2 L	1.10	22	93	.06	15	.06	14	.70	210
2814123	2 L	1.60	19	38	.06	19	.24	12	.90	270
2814144	2 L	1.40	23	81	.06	21	.12	15	1.10	240
2814151	6	2.10	23	160	.10	16	.21	19	.40	200
2814152	5	1.80	19	130	.08	14	2.09	14	.50	320
2814154	4	2.20	20	90	.07	17	1.16	16	.50	300
2815132	2 L	1.30	14	39	.05	35	.43	11	1.60	290
2815134	2 L	1.00	17	38	.04	13	1.16	9	.90	270
2815144	2 L	1.20	21	54	.05	18	1.00	14	1.00	250
2815154	2 L	1.60	17	380	.05	16	.63	9	.60	220
2816144	2 L	1.40	15	90	.11	15	.10	10	.70	330
2816152	2 L	1.00	20	61	.07	14	.79	12	.90	280
2816154	2 L	1.10	21	170	.05	19	.04	14	.90	190
2816162	2 L	1.50	20	150	.06	18	.03	13	.80	240
2816164	2 L	1.30	20	170	.06	19	.50	14	.40	190
2817151	2 L	1.60	14	110	.06	14	.05	9	.80	270
2817154	2 L	1.30	19	70	.06	20	.04	13	.80	220

Table 4.--Continued

SAMPLE	Th ppm-I	Ti %-I	V ppm-I	Y ppm-I	Yb ppm-I	Zn ppm-I
2712131	12	.34	120	15	2	100
2712133	13	.34	100	15	2	99
2713111	11	.31	87	15	2	88
2713122	10	.35	110	17	2	110
2713124	10	.30	81	14	2	80
2713134	10	.30	96	14	2	86
2713141	12	.34	130	16	2	110
2714121	14	.30	91	16	2	88
2714123	13	.30	95	15	2	99
2714132	8	.24	60	12	1	62
2714134	9	.27	77	12	1	72
2714144	12	.31	110	14	2	97
2715132	5	.14	47	7	1 L	49
2715144	11	.32	140	13	2	110
2715154	11	.28	92	14	2	77
2716144	6	.24	79	11	1	60
2716162	12	.33	120	16	2	110
2717154	11	.29	91	14	2	84
2717162	7	.33	95	13	2	63
2717164	10	.33	110	15	2	92
2717171	8	.37	140	18	2	100
2718161	8	.23	73	12	2	62
2813134	10	.36	120	15	2	100
2813144	15	.35	130	16	2	110
2814123	12	.33	94	16	2	96
2814144	13	.39	130	16	2	120
2814151	9	.38	150	18	2	110
2814152	10	.34	120	15	2	100
2814154	13	.35	140	16	2	120
2815132	9	.29	110	12	1	88
2815134	9	.28	99	11	1	83
2815144	14	.35	140	13	2	110
2815154	8	.25	79	12	1	67
2816144	5	.26	95	13	1	65
2816152	12	.33	130	13	2	100
2816154	13	.32	120	15	2	100
2816162	13	.34	110	16	2	98
2816164	11	.35	120	16	2	100
2817151	8	.26	80	12	1	74
2817154	10	.32	97	15	2	91

Table 4.--Continued

SAMPLE	LATITUDE	LONGITUDE	Al %-I	As ppm-M	Ba ppm-I	Be ppm-I	C %-IR	Ca %-I	Ce ppm-I	Co ppm-I
2817163	36 24 55	120 14 45	5.80	7.70	820	1	.14	1.20	31	9
2817164	36 24 55	120 13 46	7.90	8.90	930	1	.34	1.90	44	16
2817172	36 25 42	120 8 13	8.30	8.80	640	1	.41	1.80	38	23
2818164	36 19 41	120 13 47	8.10	12.00	640	1	.38	1.50	38	22
2912124	36 51 4	120 40 20	7.50	10.00	640	1	.30	1.90	39	17
2913124	36 45 53	120 40 31	7.30	9.00	830	1	.41	2.40	39	13
2913134	36 45 51	120 34 9	8.60	10.00	870	1	.46	1.60	41	18
2913144	36 45 50	120 27 33	7.50	8.80	990	1	.56	2.00	44	14
2914122	36 41 30	120 41 33	8.00	9.60	870	1	.13	1.40	45	13
2914123	36 40 41	120 41 30	6.90	14.00	1400	1	.52	2.80	46	14
2914131	36 41 26	120 34 4	7.40	7.80	1000	1	.45	1.80	41	13
2914133	36 40 42	120 35 1	5.00	6.80	1300	1 L	.37	1.50	25	9
2914144	36 40 37	120 27 36	7.50	9.90	930	1	.56	1.80	42	14
2915132	36 36 10	120 35 4	7.00	8.20	1200	1	.57	2.60	34	11
2915144	36 35 25	120 27 38	7.90	8.80	220	1	.49	3.00	44	13
2915154	36 35 20	120 21 9	8.10	11.00	720	1	.30	1.80	42	34
2916152	36 30 55	120 22 6	5.60	8.10	110	1 L	.46	3.90	32	9
2916154	36 30 10	120 21 9	6.50	5.20	750	1	.25	2.50	32	8
2916164	36 30 9	120 14 37	6.30	7.30	1200	1	.22	1.40	35	15
2916174	36 30 11	120 8 5	7.40	11.00	110	1	.20	3.50	34	22
2917172	36 25 42	120 9 18	8.00	9.40	650	1	.74	1.30	41	21
2917174	36 24 57	120 8 21	8.20	9.60	640	1	.27	1.60	37	22
2918164	36 19 41	120 14 51	6.80	5.80	1000	1	.23	1.80	37	12
3012124	36 51 4	120 41 26	7.70	7.20	640	1	.21	1.80	37	20
3013124	36 45 52	120 41 36	6.00	10.00	690	1 L	.31	1.80	31	10
3013134	36 45 51	120 35 5	9.00	10.00	780	1	.63	1.80	45	18
3013144	36 45 50	120 28 39	7.00	10.00	920	1	.65	2.10	39	14
3013152	36 46 41	120 23 0	7.10	9.70	1000	1	.53	2.40	39	15
3013153	36 45 52	120 23 4	6.80	7.50	1100	1	.42	1.60	35	17
3014144	36 40 37	120 28 40	6.20	8.10	1900	1 L	.44	2.20	33	12
3014151	36 41 25	120 22 10	6.70	7.20	830	1	.29	1.90	37	14
3014154	36 40 37	120 22 12	7.00	9.60	260	1	.53	3.50	39	14
3015132	36 36 15	120 36 10	7.50	8.70	230	1	.31	3.50	39	14
3015134	36 35 26	120 35 11	6.90	8.90	710	1	.39	2.90	33	10
3015144	36 35 23	120 28 44	7.90	7.70	860	1	.39	2.50	40	13
3015151	36 36 11	120 22 13	7.30	9.00	130	1	.32	2.30	41	14
3015154	36 35 21	120 22 18	7.80	10.00	740	1	.34	2.40	39	14
3015161	36 36 7	120 15 38	8.30	8.20	680	1	.72	2.80	44	24
3015164	36 35 20	120 15 43	8.60	10.00	750	1	.26	1.90	44	26
3016153	36 30 8	120 23 13	5.70	6.10	290	1 L	.31	3.40	28	8

Table 4.--Continued

SAMPLE	Cr ppm-I	Cu ppm-I	Fe %-I	Ga ppm-I	Hg ppm-C	K %-I	La ppm-I	Li ppm-I	Mg ppm-I	Mn ppm-I
2817163	85	16	2.10	12	.03	2.00	18	33	.81	380
2817164	94	29	3.20	16	.29	1.70	24	57	1.50	570
2817172	150	47	4.50	17	.07	1.60	19	56	2.30	620
2818164	160	48	4.90	18	.08	1.70	21	59	2.20	580
2912124	170	38	3.90	17	.06	1.70	20	49	1.60	680
2913124	69	30	3.30	16	.02L	1.90	21	59	1.10	540
2913134	160	46	4.30	18	.10	2.00	24	68	1.70	610
2913144	110	33	3.60	16	.15	1.90	24	56	1.30	560
2914122	64	32	3.10	16	.02	1.70	25	58	1.00	530
2914123	47	24	3.40	14	.02L	1.70	24	54	.94	720
2914131	130	29	3.30	15	.10	2.20	23	51	1.20	530
2914133	84	15	2.10	10	.25	2.50	14	22	.85	420
2914144	140	33	3.70	17	.10	2.00	23	60	1.40	550
2915132	91	24	2.70	14	.02L	2.20	18	44	.92	410
2915144	110	31	3.90	19	.02	1.70	24	77	1.40	480
2915154	390	52	4.90	19	.13	1.80	23	75	4.60	740
2916152	89	28	2.70	12	.04	2.00	18	33	.83	350
2916154	110	21	2.40	13	.02	1.90	20	34	.82	310
2916164	200	20	2.70	12	.40	2.50	20	36	1.70	490
2916174	170	50	4.80	18	.08	1.60	20	62	2.50	580
2917172	190	44	4.70	18	.03	2.00	23	56	2.10	640
2917174	160	47	4.80	18	.06	1.70	20	54	2.20	600
2918164	96	21	2.90	14	.02L	2.20	21	36	1.10	450
3012124	160	44	3.90	16	.05	1.70	19	47	1.70	700
3013124	58	26	2.70	13	.02L	1.60	17	49	.80	390
3013134	170	46	4.40	20	.08	1.80	25	76	1.80	620
3013144	96	33	3.40	15	.17	1.10	22	50	1.20	530
3013152	120	33	3.40	15	.12	2.10	21	56	1.80	570
3013153	230	26	3.00	13	.13	2.20	18	42	2.00	550
3014144	180	23	3.10	13	.37	2.10	18	41	1.30	540
3014151	140	27	3.10	16	.80	2.10	20	40	1.60	550
3014154	160	31	3.30	16	.10	1.90	22	53	1.90	510
3015132	130	33	3.30	15	.03	1.30	21	47	1.30	480
3015134	93	20	2.70	14	.03	2.10	20	47	.84	400
3015144	110	29	3.50	17	.08	2.20	22	60	1.20	490
3015151	120	31	3.70	16	.03	1.70	22	55	1.60	470
3015154	190	30	3.70	17	.04	1.90	23	59	1.80	500
3015161	210	48	4.80	20	.04	1.70	27	73	2.60	710
3015164	220	55	4.80	19	.06	2.10	24	96	3.50	730
3016153	56	20	2.10	11	.02L	2.00	14	33	.74	370

Table 4.--Continued

SAMPLE	Mo ppm-I	Na %-I	Nd ppm-I	Ni ppm-I	P %-I	Pb ppm-I	S %-IR	Sc ppm-I	Se ppm-H	Sr ppm-I
2817163	2 L	1.40	14	52	.04	15	.01	6	.50	200
2817164	2 L	1.70	20	88	.06	40	.06	10	.60	260
2817172	2 L	1.50	20	140	.07	58	.15	17	.30	270
2818164	2 L	1.30	20	150	.07	23	.01L	18	.20	220
2912124	2 L	1.90	20	93	.07	12	.01	15	.20	190
2913124	2 L	1.50	18	38	.06	16	.61	12	1.00	260
2913134	2 L	1.10	22	86	.05	19	.03	16	1.10	230
2913144	2 L	1.40	21	82	.06	16	.04	11	.80	240
2914122	2 L	1.50	19	39	.06	25	.10	11	.80	310
2914123	2 L	1.60	19	29	.05	22	.27	9	.60	290
2914131	2 L	1.40	18	78	.06	19	.04	10	.90	260
2914133	2 L	1.20	11	65	.04	25	.03	5	.60	210
2914144	2 L	1.40	19	79	.06	18	.08	12	1.10	210
2915132	2 L	1.20	13	41	.05	17	.06	9	1.20	290
2915144	2 L	1.00	20	53	.05	14	1.04	14	1.30	240
2915154	2 L	1.30	21	380	.06	20	.58	18	1.00	210
2916152	2	.86	16	47	.07	9	1.87	8	1.90	280
2916154	2 L	1.20	15	41	.10	15	.60	8	.80	300
2916164	2 L	1.70	15	150	.05	17	.01L	7	.60	240
2916174	3	1.50	21	150	.07	11	2.45	19	.20	210
2917172	2 L	1.20	21	140	.07	19	.02	18	.40	230
2917174	2 L	1.40	19	150	.06	14	.02	18	.20	250
2918164	2 L	1.60	18	65	.08	14	.02	9	.60	290
3012124	2 L	1.70	18	86	.05	15	.10	16	.20	200
3013124	2 L	1.20	16	30	.04	32	.72	9	1.00	200
3013134	2	.99	23	90	.07	19	.05	17	1.10	220
3013144	2 L	1.30	17	64	.06	14	.03	10	.80	240
3013152	3	1.50	19	100	.08	15	.08	10	.40	300
3013153	2 L	1.30	15	150	.07	15	.03	10	.70	250
3014144	2 L	1.20	16	83	.06	14	.27	8	.70	250
3014151	2 L	1.50	18	110	.06	14	.40	10	.60	240
3014154	2 L	1.40	18	110	.06	13	.95	10	.80	270
3015132	2 L	1.30	17	74	.08	15	.96	12	1.00	290
3015134	2 L	1.20	15	40	.05	17	.58	8	.90	290
3015144	2 L	1.10	22	45	.05	19	.44	12	1.20	300
3015151	2 L	2.10	18	73	.07	10	1.09	12	1.00	260
3015154	2 L	1.10	18	110	.06	15	.56	12	.90	270
3015161	2 L	.84	22	220	.06	35	.09	17	1.00	300
3015164	4	1.20	21	240	.08	22	.94	18	.50	270
3016153	2 L	.87	12	34	.04	13	1.45	6	1.20	280

Table 4.--Continued

SAMPLE	Th ppm-I	Ti %-I	V ppm-I	Y ppm-I	Yb ppm-I	Zn ppm-I
2817163	8	.20	55	10	1	55
2817164	12	.30	92	15	2	89
2817172	7	.34	130	16	2	97
2818164	9	.37	140	17	2	97
2912124	8	.36	110	17	2	80
2913124	10	.30	90	15	2	85
2913134	12	.32	140	16	2	120
2913144	11	.32	110	14	2	96
2914122	14	.29	97	15	2	100
2914123	13	.28	83	17	2	87
2914131	11	.29	92	14	2	90
2914133	7	.15	47	9	1	49
2914144	11	.33	110	15	2	100
2915132	9	.27	96	11	1	71
2915144	13	.34	140	13	2	110
2915154	9	.32	140	16	2	120
2916152	6	.25	100	12	1	89
2916154	8	.24	98	11	1	73
2916164	7	.24	65	12	2	59
2916174	8	.35	140	17	2	97
2917172	9	.38	140	17	2	120
2917174	7	.35	140	16	2	97
2918164	8	.29	86	14	2	72
3012124	7	.28	110	15	2	80
3013124	9	.25	77	12	1	73
3013134	13	.38	150	16	2	120
3013144	11	.29	98	15	2	90
3013152	9	.30	97	14	2	89
3013153	8	.27	88	12	1	72
3014144	8	.27	75	12	1	68
3014151	9	.29	88	13	2	74
3014154	8	.28	90	14	1	85
3015132	10	.32	120	14	2	96
3015134	7	.26	92	10	1	76
3015144	11	.29	120	12	1	100
3015151	12	.31	130	15	2	100
3015154	10	.31	120	13	2	110
3015161	15	.35	150	18	2	120
3015164	13	.34	150	16	2	130
3016153	7	.19	73	8	1	62

Table 4.--Continued

SAMPLE	LATITUDE	LONGITUDE	Al %-I	As ppm-H	Ba ppm-I	Be ppm-I	C %-IR	Ca %-I	Ce ppm-I	Co ppm-I
3016174	36 30 11	120 9 8	7.60	9.60	610	1	.23	1.80	37	21
3017154	36 24 51	120 22 30	6.90	8.50	1000	1	.37	1.60	44	12
3017163	36 24 54	120 16 57	7.30	7.40	1000	1	.57	2.90	43	12
3017164	36 24 54	120 15 56	6.70	8.00	940	1	.25	1.30	39	13
3017172	36 25 43	120 10 35	7.70	9.70	650	1	.35	1.70	39	20
3017174	36 24 57	120 9 34	8.70	11.00	610	1	.34	1.50	38	23
3018164	36 19 40	120 15 56	6.80	9.90	1000	1	.37	2.30	40	14
3112124	36 50 12	120 41 24	7.70	8.80	760	1	.32	2.00	40	15
3112131	36 51 1	120 34 53	8.20	10.00	770	1	.64	2.10	43	17
3112132	36 51 1	120 35 50	8.10	10.00	910	1	.45	2.10	39	19
3112134	36 50 14	120 34 53	7.70	10.00	870	1	.52	2.40	40	16
3112144	36 50 14	120 28 22	7.90	8.60	740	1	.46	3.10	44	16
3113124	36 44 59	120 41 37	8.60	9.20	890	1	.29	1.90	45	13
3113133	36 44 59	120 36 7	6.10	7.40	1300	1	.31	1.60	37	10
3113144	36 44 59	120 28 40	6.70	7.80	1200	1	.32	1.70	34	11
3114144	36 39 44	120 28 41	6.80	7.20	1000	1	.43	1.70	36	11
3114152	36 40 33	120 23 10	6.80	7.80	1000	1	.46	1.90	36	13
3115144	36 34 31	120 28 46	5.10	11.00	720	1 L	.38	1.20	27	7
3116151	36 30 3	120 22 12	6.10	7.70	67	1	.39	3.70	32	11
3116153	36 29 17	120 23 14	7.60	6.20	880	1	.21	1.90	38	14
3116154	36 29 15	120 22 16	5.80	7.00	980	1	.37	1.70	29	9
3116164	36 29 15	120 15 44	7.20	9.30	930	1	.40	1.50	42	19
3117152	36 24 49	120 23 27	7.00	7.60	1100	1	.52	2.10	35	17
3117153B	36 23 59	120 23 29	8.80	12.00	710	1	3.95	2.40	48	17
3117154	36 23 60	120 22 29	6.20	7.70	1100	1	.33	1.70	34	11
3117164	36 24 1	120 15 55	6.70	5.70	940	1	.32	1.10	38	12
3117173	36 24 4	120 10 37	9.00	11.00	590	1	.35	1.40	41	27
3117174	36 24 6	120 9 27	7.80	7.70	700	1 L	.21	2.10	32	20
3118164	36 18 48	120 15 55	7.00	4.80	910	1 L	.16	2.60	32	17
3212142	36 51 3	120 28 14	7.40	7.30	720	1	.19	1.60	39	17
3213124	36 44 59	120 40 32	5.40	9.30	250	1 L	.34	2.90	29	11
3213144	36 44 58	120 27 34	8.40	9.40	840	1	.56	1.60	47	16
3213154	36 44 59	120 21 9	5.90	8.20	800	1 L	.01L	1.70	27	5
3214144	36 39 45	120 27 36	6.90	7.10	1100	1	.47	1.90	40	12
3215144	36 34 31	120 27 39	7.20	8.10	830	1	.27	1.90	35	10
3215153	36 34 31	120 22 8	7.30	7.20	870	1	.45	2.00	40	14
3215154	36 34 28	120 21 8	7.40	7.40	790	1	.41	1.80	41	21
3215164	36 14 36	120 14 36	7.60	9.80	250	1	.17	3.40	39	25
3216154	36 29 14	120 21 11	7.80	11.00	850	1	.49	1.40	42	18
3216162	36 30 4	120 15 35	7.50	12.00	920	1	.34	1.40	42	20

Table 4.--Continued

SAMPLE	Cr ppm-I	Cu ppm-I	Fe %-I	Ga ppm-I	Hg ppm-C	K %-I	La ppm-I	Li ppm-I	Mg ppm-I	Mn ppm-I
3016174	170	44	4.60	18	.06	1.60	21	56	2.20	580
3017154	100	23	3.00	14	.02L	2.20	24	49	1.20	470
3017163	100	24	3.00	15	.03	2.30	25	50	1.20	550
3017164	120	23	2.90	14	.02	2.20	22	43	1.20	470
3017172	190	41	4.50	18	.06	1.70	21	51	2.10	570
3017174	220	51	5.20	19	.09	1.80	23	66	2.50	640
3018164	130	25	3.30	15	.02L	2.00	22	45	1.40	500
3112124	110	35	3.60	16	.02	1.90	22	57	1.30	590
3112131	160	45	4.40	18	.21	1.70	24	72	1.80	570
3112132	180	42	3.90	17	.12	1.90	22	61	1.90	580
3112134	150	40	3.90	18	.11	1.80	22	66	1.70	560
3112144	190	43	4.30	20	.09	1.80	24	70	2.10	580
3113124	98	43	3.90	18	.02L	2.10	25	82	1.30	550
3113133	110	20	2.50	13	.10	2.40	21	33	.96	470
3113144	94	21	2.40	12	.27	1.90	18	33	.95	450
3114144	91	24	2.90	15	.14	2.20	20	45	1.00	460
3114152	120	27	3.10	15	.13	2.00	20	45	1.40	500
3115144	97	24	2.30	12	.03	1.30	16	27	.77	250
3116151	74	21	2.60	13	.02L	1.70	17	37	.95	440
3116153	120	28	3.50	15	.02L	2.20	22	51	1.40	550
3116154	71	17	2.10	12	.02L	2.30	16	31	.83	380
3116164	240	31	3.60	16	.07	2.10	23	57	2.40	570
3117152	220	27	3.00	13	.06	1.50	18	41	1.80	490
3117153B	130	50	4.80	23	.02L	1.90	30	86	1.80	570
3117154	160	15	2.10	12	.02L	2.50	18	27	1.10	400
3117164	110	20	2.70	14	.02L	2.40	21	38	1.20	430
3117173	230	60	5.50	20	.07	1.60	21	67	2.80	630
3117174	160	32	3.70	14	.04	1.70	18	37	1.80	540
3118164	100	23	3.40	15	.02L	1.30	19	26	1.20	600
3212142	200	35	3.90	17	.08	1.90	22	60	2.30	560
3213124	43	25	2.60	11	.02L	1.70	15	42	.69	490
3213144	140	44	4.40	19	.22	1.80	27	72	1.70	620
3213154	11	2	1.50	11	.02L	2.30	16	15	.39	260
3214144	92	25	3.00	14	.08	2.00	21	43	1.10	520
3215144	130	26	3.10	15	.02	2.00	20	43	1.10	380
3215153	140	32	3.60	16	.05	2.00	22	52	1.60	540
3215154	250	33	4.00	17	.03	1.70	23	59	2.90	610
3215164	280	46	4.40	17	.13	1.50	21	78	3.80	660
3216154	180	41	4.10	18	.16	1.90	23	72	2.30	550
3216162	240	36	3.90	16	.08	2.00	22	61	2.40	610

Table 4.--Continued

SAMPLE	Mo ppm-I	Na %-I	Nd ppm-I	Ni ppm-I	P %-I	Pb ppm-I	S %-IR	Sc ppm-I	Se ppm-H	Sr ppm-I
3016174	2	1.70	20	130	.07	20	.87	18	.30	270
3017154	2 L	1.50	18	71	.05	16	.02	9	.70	220
3017163	2 L	1.80	19	68	.06	17	.05	10	.50	280
3017164	2 L	1.60	20	78	.05	25	.02	9	.40	220
3017172	2 L	1.80	20	130	.07	14	.16	16	.50	240
3017174	2 L	1.20	20	160	.07	14	.05	20	.40	210
3018164	2 L	1.50	17	89	.09	18	.12	10	1.40	310
3112124	2 L	1.70	19	61	.06	14	.01	13	.40	250
3112131	2 L	1.00	23	110	.06	17	.27	15	.70	210
3112132	2 L	1.30	21	120	.07	19	.32	14	1.10	250
3112134	2 L	1.20	18	110	.06	16	.43	13	.80	210
3112144	2 L	1.40	21	110	.07	17	1.23	15	1.60	240
3113124	2 L	1.60	22	44	.06	20	.01	13	.40	250
3113133	2 L	1.50	18	62	.05	15	.03	7	.80	240
3113144	2 L	1.60	13	58	.05	17	.03	8	.70	280
3114144	2 L	1.40	16	62	.05	29	.05	9	.70	240
3114152	2 L	1.60	19	92	.06	16	.19	9	.80	240
3115144	3	.91	12	45	.07	10	.14	8	1.60	210
3116151	2 L	1.20	13	41	.05	13	1.25	8	.60	320
3116153	2 L	1.10	16	74	.07	14	.27	12	.60	290
3116154	2 L	1.20	13	44	.06	14	.01	6	.40	260
3116164	2 L	1.40	21	200	.06	24	.03	11	.70	210
3117152	2 L	1.40	15	150	.07	15	.14	9	1.10	310
3117153B	2 L	1.20	26	91	.07	16	.01	18	1.10	200
3117154	2 L	1.60	14	81	.06	15	.05	7	.60	250
3117164	2 L	1.60	18	86	.04	23	.02	8	.50	210
3117173	2 L	.91	21	170	.08	15	.02	23	.20	180
3117174	2 L	1.90	19	110	.06	13	.01L	14	.20	330
3118164	2 L	1.90	18	68	.06	11	.01L	10	.20	400
3212142	2	1.60	19	130	.08	17	.84	13	.70	220
3213124	2 L	1.20	15	29	.04	11	1.26	8	.60	220
3213144	2 L	1.00	23	86	.06	20	.08	15	.80	220
3213154	2 L	1.70	14	6	.03	13	.01L	4	.10L	290
3214144	2 L	1.60	18	69	.05	15	.04	9	.80	260
3215144	3	1.10	17	55	.08	15	.36	9	2.20	250
3215153	2 L	1.30	19	110	.06	14	.10	11	1.20	250
3215154	2 L	1.20	20	240	.08	35	.04	13	.90	200
3215164	3	.84	18	310	.05	16	1.92	15	.70	450
3216154	2 L	1.10	20	160	.06	19	.06	14	.90	190
3216162	2 L	1.40	20	200	.06	43	.03	13	.70	200

Table 4.--Continued

SAMPLE	Th ppm-I	Ti %-I	V ppm-I	Y ppm-I	Yb ppm-I	Zn ppm-I
3016174	9	.37	130	16	2	93
3017154	10	.29	80	14	2	81
3017163	10	.32	83	14	2	81
3017164	10	.27	77	13	2	71
3017172	6	.37	120	16	2	91
3017174	8	.39	150	18	2	110
3018164	8	.28	99	14	2	83
3112124	9	.33	100	15	2	78
3112131	13	.36	140	16	2	110
3112132	9	.30	120	15	2	110
3112134	10	.31	120	14	2	100
3112144	12	.35	140	16	2	120
3113124	11	.34	100	16	2	98
3113133	9	.23	65	12	2	64
3113144	8	.25	69	11	1	65
3114144	10	.27	85	12	1	77
3114152	11	.27	88	13	2	80
3115144	5	.21	110	11	1	85
3116151	7	.26	86	12	1	71
3116153	10	.32	110	13	1	85
3116154	6	.22	69	10	1	52
3116164	12	.31	100	15	2	91
3117152	8	.28	94	13	1	80
3117153B	16	.39	160	18	2	130
3117154	8	.22	57	11	1	53
3117164	9	.24	73	12	1	66
3117173	10	.40	170	18	2	120
3117174	5	.31	110	14	2	73
3118164	6	.32	110	12	2	63
3212142	12	.32	120	14	2	100
3213124	7	.22	64	11	1	60
3213144	14	.38	140	16	2	120
3213154	4	.14	30	8	1 L	27
3214144	10	.29	84	13	1	78
3215144	9	.27	120	13	1	96
3215153	10	.31	120	13	2	96
3215154	12	.32	120	14	2	98
3215164	13	.34	140	15	2	110
3216154	12	.32	130	15	2	110
3216162	11	.33	110	16	2	97

Table 4.--Continued

SAMPLE	LATITUDE	LONGITUDE	Al %-I	As ppm-H	Ba ppm-I	Be ppm-I	C %-IR	Ca %-I	Ce ppm-I	Co ppm-I
3217174	36 24 11	120 8 20	8.40	10.00	620	1	.39	1.40	40	23
3218164	36 18 50	120 14 50	7.50	6.50	880	1	.25	2.30	38	16
3312132	36 51 2	120 33 38	8.60	10.00	750	1	.51	1.80	45	18
3313121	36 45 48	120 39 27	8.40	9.40	800	1	.35	1.70	44	15
3313124	36 44 59	120 39 27	7.80	7.90	860	1	.18	1.70	39	12
3313133	36 44 58	120 33 56	8.40	8.80	880	1	.61	2.30	42	16
3313144	36 44 59	120 26 29	8.10	10.00	990	1	.53	2.00	42	16
3314124	36 39 49	120 39 29	7.10	9.10	800	1	.34	1.40	40	10
3314131	36 40 34	120 32 60	6.50	7.90	1100	1	.43	1.80	36	11
3314132	36 40 34	120 33 58	8.20	8.20	840	1	.67	2.30	47	15
3314133	36 39 47	120 33 59	7.10	7.70	1200	1	.45	2.00	44	13
3314144	36 39 45	120 26 31	7.70	10.00	880	1	.63	2.30	39	15
3314152	36 40 31	120 20 58	7.20	8.80	930	1	.15	2.10	37	16
3315132	36 35 20	120 34 3	7.50	9.80	910	1	.46	2.80	35	11
3315144	36 34 30	120 26 35	6.40	6.90	930	1	.25	1.40	34	9
3315154	36 34 28	120 20 3	6.60	12.00	690	1	.49	3.00	39	24
3316154	36 29 14	120 20 7	7.50	8.50	910	1	.38	1.20	38	17
3316174	36 29 19	120 7 19	7.80	9.50	570	1	.30	1.70	38	22
3317152	36 24 47	120 21 16	5.20	7.90	1100	1 L	.37	1.50	23	14
3317153	36 24 2	120 21 15	6.20	7.50	1000	1	.26	1.40	29	9
3317154	36 24 1	120 20 18	6.10	8.40	1200	1	.33	1.40	36	11
3317163	36 24 3	120 14 41	5.70	5.20	1200	1 L	.13	1.30	30	10
3317171	36 24 53	120 7 20	8.40	9.50	620	1	.21	1.60	38	21
3412114	36 50 12	120 44 44	8.00	9.40	900	1	.33	2.20	45	14
3412122	36 50 54	120 39 7	8.10	8.00	680	1	.45	1.90	42	16
3412123	36 50 13	120 39 9	7.30	8.30	660	1	.30	1.50	40	15
3412124	36 50 15	120 38 10	7.70	10.00	460	1	.56	2.90	43	16
3412133	36 50 13	120 32 35	6.40	8.20	1100	1	.36	1.80	34	11
3413133	36 44 57	120 32 51	7.10	7.60	960	1	.49	1.60	38	13
3413134	36 44 57	120 31 51	7.20	11.00	1000	1	.56	1.90	39	13
3413144	36 44 59	120 25 24	7.70	8.50	1000	1	.49	1.80	45	14
3414144	36 39 44	120 25 26	8.00	11.00	790	1	.81	2.20	43	15
3414153	36 39 44	120 19 54	7.60	11.00	240	1	.60	4.50	38	16
3415144	36 34 30	120 25 30	6.80	6.20	960	1	.39	2.60	36	11
3415154	36 34 28	120 18 57	7.40	10.00	810	1	.33	1.30	38	30
3416144	36 29 20	120 25 29	6.00	8.70	240	1	.27	2.30	31	9
3416154	36 29 14	120 18 59	7.10	9.50	910	1	.45	1.50	39	20
3416161	36 30 6	120 12 26	7.80	11.00	770	1	.27	1.40	42	23
3416164	36 29 17	120 12 37	7.80	10.00	810	1	.25	1.20	44	22
3417163	36 24 3	120 13 39	8.80	10.00	910	1	.36	1.70	49	18

Table 4.--Continued

SAMPLE	Cr ppm-I	Cu ppm-I	Fe %-I	Ga ppm-I	Hg ppm-C	K %-I	La ppm-I	Li ppm-I	Mg ppm-I	Mn ppm-I
3217174	170	53	5.30	19	.07	1.70	22	63	2.40	620
3218164	130	27	3.20	14	.02L	1.60	20	41	1.30	490
3312132	160	49	4.60	21	.12	2.00	25	73	1.80	580
3313121	100	38	3.70	16	.02L	1.50	23	69	1.30	560
3313124	90	24	2.80	15	.02L	2.30	22	50	1.10	490
3313133	160	41	4.30	19	.11	1.90	24	72	1.70	570
3313144	140	38	3.70	17	1.60	1.80	22	60	1.50	570
3314124	93	28	3.00	16	.02	1.90	23	50	.86	420
3314131	77	23	2.70	13	.13	2.20	20	37	.89	490
3314132	160	42	4.20	21	.12	2.00	26	71	1.50	570
3314133	120	29	3.30	16	.17	2.20	24	50	1.20	550
3314144	120	40	3.90	17	.08	1.90	22	66	1.50	530
3314152	160	32	3.20	16	.16	1.90	20	50	2.20	560
3315132	92	25	3.10	15	.02L	1.80	19	50	.91	460
3315144	93	21	2.60	13	.06	2.00	19	34	.87	360
3315154	310	36	3.80	15	.12	1.60	21	59	3.40	610
3316154	210	34	3.60	17	.05	2.10	22	60	2.10	530
3316174	170	55	5.10	18	.08	1.50	20	61	2.60	610
3317152	210	14	2.30	9	.02	2.30	14	23	1.50	440
3317153	92	14	1.90	12	.02	2.60	18	26	.76	350
3317154	89	17	2.30	12	.02L	2.50	20	36	.90	430
3317163	210	12	2.10	11	.02L	2.70	18	25	.98	370
3317171	200	44	4.90	18	.05	1.70	20	57	2.40	600
3412114	67	33	3.40	15	.02L	2.20	24	64	1.10	620
3412122	150	43	4.30	19	.09	1.60	24	65	1.80	620
3412123	160	36	3.70	17	.06	1.60	23	52	1.50	590
3412124	140	42	4.00	19	.09	1.70	25	69	1.70	560
3412133	110	22	2.60	13	.16	2.30	18	35	1.00	470
3413133	110	34	3.40	16	.15	2.00	22	50	1.30	530
3413134	93	31	3.30	15	.25	2.20	22	50	1.10	530
3413144	160	37	3.90	18	.47	2.20	25	59	1.50	590
3414144	140	40	4.10	18	.13	1.40	24	66	1.60	540
3414153	140	41	3.70	15	.12	1.80	21	66	1.70	530
3415144	81	23	2.60	13	.02	2.20	20	41	.96	400
3415154	370	35	3.80	15	.12	1.50	20	54	4.30	660
3416144	110	19	2.30	11	.02L	1.80	18	27	.78	330
3416154	250	33	3.60	16	.09	2.00	21	58	2.60	570
3416161	250	43	4.40	18	.05	1.80	22	72	2.80	650
3416164	290	43	4.40	19	.09	1.90	24	75	3.10	640
3417163	160	45	4.50	18	.03	1.40	26	81	1.70	560

Table 4.--Continued

SAMPLE	Mo ppm-I	Na %-I	Nd ppm-I	Ni ppm-I	P %-I	Pb ppm-I	S %-IR	Sc ppm-I	Se ppm-H	Sr ppm-I
3217174	2 L	1.20	23	140	.07	15	.12	21	.20	190
3218164	2 L	1.60	17	78	.09	18	.36	11	.80	320
3312132	2 L	1.60	24	110	.06	19	.36	16	1.60	210
3313121	2 L	1.50	20	50	.07	20	.03	14	.60	250
3313124	2 L	1.70	18	43	.06	17	.19	11	.70	250
3313133	2 L	1.10	21	94	.05	20	.04	14	.80	220
3313144	2 L	1.20	16	85	.07	18	.03	13	1.10	250
3314124	2 L	1.50	20	39	.06	20	.52	10	2.60	240
3314131	2 L	1.50	17	54	.05	17	.02	8	.80	250
3314132	2 L	1.10	21	77	.06	20	.05	14	1.10	230
3314133	2 L	1.50	21	72	.06	19	.02	10	.80	250
3314144	2 L	1.30	19	81	.05	19	.47	13	.70	240
3314152	4	2.00	17	110	.06	16	1.13	12	.70	240
3315132	2 L	1.20	14	41	.05	17	.56	10	1.20	290
3315144	2 L	1.20	16	49	.06	19	.10	8	1.50	240
3315154	2 L	1.80	18	310	.06	21	1.31	12	1.10	250
3316154	2 L	1.20	19	160	.05	18	.04	12	.90	210
3316174	2 L	2.00	23	150	.07	13	1.30	20	.40	210
3317152	2 L	1.20	9	130	.05	13	.03	5	1.00	220
3317153	2 L	1.60	14	51	.05	15	.02	5	1.10	240
3317154	2 L	1.60	13	58	.04	15	.02	6	.60	210
3317163	2 L	1.60	15	75	.05	16	.01	5	.40	220
3317171	2 L	1.40	19	140	.09	15	.26	17	.30	220
3412114	2 L	1.30	21	44	.07	31	.37	12	.60	250
3412122	2 L	1.30	23	98	.07	18	.21	16	.60	220
3412123	2 L	1.50	20	89	.09	14	.16	14	.50	180
3412124	2	1.20	21	100	.07	14	1.01	14	1.10	230
3412133	2 L	1.70	17	66	.06	17	.07	7	.70	250
3413133	2 L	1.30	20	75	.06	17	.03	11	1.00	230
3413134	2 L	1.50	16	61	.06	18	.04	10	.90	240
3413144	2 L	1.20	21	87	.07	19	.07	13	1.00	220
3414144	2 L	1.00	19	81	.07	18	.08	14	.80	220
3414153	6	2.00	22	75	.06	12	1.86	14	.40	680
3415144	2 L	1.10	15	50	.06	33	.62	8	1.00	280
3415154	2 L	1.50	20	360	.07	27	.03	13	.80	200
3416144	3	1.20	14	44	.09	11	.64	7	2.10	310
3416154	2 L	1.40	20	210	.06	17	.03	11	.80	220
3416161	2	1.20	18	240	.06	19	.39	15	.80	190
3416164	2 L	1.30	20	240	.06	20	.37	15	.80	190
3417163	2 L	1.10	20	97	.07	38	.08	16	.80	210

Table 4.--Continued

SAMPLE	Th ppm-I	Ti %-I	V ppm-I	Y ppm-I	Yb ppm-I	Zn ppm-I
3217174	10	.40	150	18	2	110
3218164	8	.30	100	14	2	83
3312132	13	.37	150	16	2	120
3313121	13	.35	110	16	2	96
3313124	10	.32	88	14	2	72
3313133	12	.34	120	16	2	110
3313144	10	.33	120	15	2	100
3314124	14	.30	96	14	2	96
3314131	8	.25	72	12	1	73
3314132	12	.36	130	16	2	120
3314133	10	.32	93	14	2	89
3314144	12	.34	120	15	2	100
3314152	8	.29	97	13	2	83
3315132	9	.30	100	11	1	80
3315144	8	.24	99	11	1	77
3315154	10	.31	100	14	2	88
3316154	11	.29	100	14	2	96
3316174	7	.37	150	17	2	100
3317152	4 L	.14	45	10	1 L	46
3317153	11	.18	58	10	1	56
3317154	7	.22	60	12	1	60
3317163	6	.18	48	10	1	47
3317171	7	.36	130	16	2	95
3412114	11	.31	99	16	2	100
3412122	11	.36	130	16	2	100
3412123	11	.32	110	15	2	89
3412124	11	.34	130	15	2	110
3412133	9	.26	71	13	2	68
3413133	11	.30	100	14	2	92
3413134	9	.29	95	13	2	90
3413144	12	.33	120	15	2	110
3414144	13	.34	130	16	2	110
3414153	10	.30	130	15	2	100
3415144	9	.25	98	11	1	92
3415154	8	.30	100	14	2	83
3416144	7	.26	90	11	1	67
3416154	10	.31	100	14	2	93
3416161	11	.33	130	15	2	110
3416164	12	.33	130	16	2	120
3417163	13	.40	130	17	2	120

Table 4.--Continued

SAMPLE	LATITUDE	LONGITUDE	Al %-I	As ppm-H	Ba ppm-I	Be ppm-I	C %-IR	Ca %-I	Ce ppm-I	Co ppm-I
3417164	36 24 3	120 12 42	7.70	7.60	740	1	.22	1.40	39	18
3512114	36 50 12	120 43 35	7.80	8.40	740	1	.41	2.20	38	15
3512124	36 50 13	120 37 4	7.60	9.90	890	1	.44	1.50	43	15
3512133	36 50 14	120 31 30	8.00	9.40	980	1	.46	2.10	42	16
3513121	36 45 47	120 37 15	5.70	8.30	1200	1	.39	1.60	29	9
3513144	36 44 60	120 24 19	6.60	7.60	1100	1	.32	2.20	42	13
3514122	36 40 36	120 38 16	7.80	10.00	780	1	.26	1.50	48	12
3514123	36 39 50	120 38 16	7.30	12.00	920	1	.19	1.60	44	12
3514144	36 39 45	120 24 22	8.60	11.00	860	1	.66	2.30	43	15
3514153	36 39 44	120 18 49	7.50	5.40	750	1	.75	3.10	44	15
3514154	36 39 46	120 17 53	7.50	13.00	680	1	.59	3.10	40	16
3515132	36 35 19	120 31 50	8.90	7.50	770	2	.45	3.90	45	13
3515144	36 34 30	120 24 25	6.70	8.50	900	1	.40	2.00	35	10
3515154	36 34 28	120 17 52	8.30	10.00	710	1	.28	2.30	43	22
3516152	36 30 2	120 18 51	8.50	11.00	800	1	.46	1.50	43	26
3516154	36 29 14	120 17 57	7.80	9.90	940	1	.41	1.50	42	21
3517151	36 24 49	120 18 8	7.90	9.50	910	1	.30	1.70	41	15
3517154	36 24 3	120 18 10	8.10	11.00	840	1	.45	1.70	47	15
3517161	36 24 52	120 11 39	8.30	9.30	600	1	.41	1.40	42	23
3612114	36 50 13	120 42 30	8.00	9.20	750	1	.47	2.30	39	16
3612124	36 50 14	120 35 58	8.40	10.00	860	1	.50	2.60	40	18
3612132	36 51 2	120 30 25	7.80	9.00	890	1	.31	1.20	40	18
3612134	36 50 14	120 29 26	8.10	9.10	730	1	.50	2.70	44	18
3613114	36 44 58	120 42 42	7.40	11.00	900	1	.24	1.70	49	11
3613133	36 44 57	120 30 42	6.00	9.20	1300	1	.27	1.40	33	10
3613134	36 44 58	120 29 43	7.70	8.40	950	1	.74	2.20	46	14
3613142	36 45 46	120 24 10	7.30	11.00	750	1	.69	1.90	41	15
3613144	36 45 0	120 23 13	6.80	8.80	1200	1	.64	2.50	35	16
3614134	36 39 44	120 29 46	5.00	6.30	1200	1 L	.30	1.40	26	9
3614144	36 39 45	120 23 17	6.70	9.30	100	1	.37	3.40	37	14
3614152	36 40 31	120 17 42	7.10	3.40	720	1	.21	2.70	46	8
3615121	36 35 20	120 36 16	6.20	8.60	1100	1	.26	2.10	32	11
3615132	36 35 19	120 30 45	6.70	9.40	1200	1	.38	2.50	34	10
3615133	36 34 31	120 30 43	6.60	11.00	780	1	.53	1.60	37	11
3615134	36 34 30	120 29 48	6.10	11.00	160	1	.36	4.00	34	9
3615144	36 34 30	120 23 21	5.90	6.80	160	1	.24	2.50	31	9
3615154	36 34 28	120 16 50	7.90	10.00	300	1	.20	1.40	41	22
3616154	36 29 14	120 16 49	7.50	9.30	920	1	.36	1.50	39	21
3616162	36 30 6	120 11 12	7.90	9.70	290	1	.30	1.40	43	20
3617161	36 24 51	120 10 46	7.50	11.00	670	1	.24	1.90	35	18
3617163	36 24 4	120 11 31	7.80	12.00	670	1	.36	1.70	37	22

Table 4.--Continued

SAMPLE	Cr ppm-I	Cu ppm-I	Fe %-I	Ga ppm-I	Hg ppm-C	K %-I	La ppm-I	Li ppm-I	Mg ppm-I	Mn ppm-I
3417164	170	37	4.00	16	.05	1.90	22	48	1.80	540
3512114	110	35	3.50	15	.02	1.70	20	52	1.20	610
3512124	160	35	3.70	18	.06	2.00	23	59	1.50	560
3512133	140	35	3.60	17	.15	2.00	22	55	1.50	570
3513121	56	22	2.20	11	.08	2.50	16	29	.65	410
3513144	150	23	3.00	14	.30	2.20	22	42	1.40	520
3514122	71	36	3.70	18	.02	2.10	25	75	1.20	540
3514123	77	28	3.30	18	.03	2.10	25	58	1.00	520
3514144	170	43	4.40	19	.12	1.90	25	76	1.70	590
3514153	140	25	3.60	17	.03	2.20	24	38	1.30	590
3514154	160	28	3.70	17	.05	1.70	21	43	1.90	480
3515132	120	27	3.90	19	.02L	2.60	24	64	1.10	600
3515144	99	24	3.00	14	.02L	2.10	20	46	1.10	390
3515154	240	47	4.50	19	.06	2.00	24	75	2.90	640
3516152	270	52	4.70	19	.17	1.90	24	78	3.10	630
3516154	240	37	3.80	17	.06	2.00	21	60	2.60	570
3517151	120	31	3.40	17	.02L	1.50	22	59	1.30	500
3517154	160	38	4.10	18	.02L	1.80	26	75	1.60	510
3517161	230	53	5.40	20	.06	1.70	22	65	2.60	660
3612114	98	42	4.00	17	.02	1.80	22	71	1.50	580
3612124	170	45	4.10	18	.15	2.00	23	68	1.90	570
3612132	170	34	3.50	16	.16	2.00	21	49	1.70	580
3612134	200	43	4.40	19	.16	1.80	25	73	2.00	590
3613114	48	28	3.20	16	.02L	2.40	27	53	.88	570
3613133	92	19	2.40	11	2.50	2.50	19	29	.79	410
3613134	130	38	3.70	17	.22	2.10	24	62	1.40	550
3613142	160	37	3.80	17	.06	1.70	22	64	1.60	530
3613144	140	36	3.20	15	.20	2.00	19	48	1.80	520
3614134	96	12	1.80	10	.38	2.30	15	21	.68	360
3614144	160	32	3.40	16	.13	1.60	21	52	1.60	510
3614152	49	8	2.20	14	.02L	2.20	27	15	.74	370
3615121	81	16	2.40	13	.03	2.00	19	27	.79	480
3615132	73	22	2.80	14	.02L	2.00	19	48	.80	420
3615133	140	36	3.20	15	.03	1.60	23	36	.91	340
3615134	110	32	2.90	13	.02L	1.60	20	37	.95	320
3615144	99	21	2.40	13	.03	2.00	18	32	.88	330
3615154	280	40	4.20	18	.06	1.90	23	68	3.10	640
3616154	210	39	4.10	18	.09	2.00	22	65	2.60	610
3616162	200	43	4.40	19	.03	1.80	23	67	2.50	630
3617161	160	33	3.80	16	.06	1.70	19	41	1.70	540
3617163	160	45	4.60	17	.05	1.70	23	56	2.20	610

Table 4.--Continued

SAMPLE	Mo ppm-I	Na %-I	Nd ppm-I	Ni ppm-I	P %-I	Pb ppm-I	S %-IR	Sc ppm-I	Se ppm-H	Sr ppm-I
3417164	2 L	1.80	20	120	.08	12	.04	14	.50	250
3512114	2 L	1.80	19	61	.06	13	.01L	14	.30	250
3512124	2 L	1.40	21	97	.09	27	.08	12	1.10	220
3512133	2 L	1.50	16	89	.07	20	.14	13	.90	270
3513121	2 L	1.50	14	39	.04	15	.02	6	.50	230
3513144	2 L	1.60	20	100	.06	16	.30	9	.70	250
3514122	2 L	1.60	23	42	.05	20	.40	12	.50	240
3514123	2 L	1.50	20	45	.06	21	.28	10	.80	240
3514144	2 L	1.20	21	91	.07	19	.12	14	.90	240
3514153	4	2.20	22	73	.04	17	.20	12	.10	330
3514154	2 L	2.00	21	120	.06	13	.05	12	.10	410
3515132	2 L	1.50	20	49	.05	21	.80	12	.90	360
3515144	2 L	1.10	15	56	.05	14	.23	9	.90	260
3515154	2 L	1.00	22	170	.07	17	.96	16	1.60	240
3516152	2 L	1.00	24	240	.06	19	.04	17	1.10	200
3516154	2 L	1.40	19	200	.07	16	.09	13	1.10	220
3517151	2 L	1.50	19	70	.05	19	.07	12	.60	230
3517154	2 L	1.20	23	92	.06	23	.05	14	1.00	210
3517161	2 L	1.10	22	170	.08	16	.02	21	.40	170
3612114	2 L	1.60	21	59	.06	14	.01L	15	.30	270
3612124	2 L	1.20	20	100	.06	16	.44	15	1.10	250
3612132	2 L	1.70	18	120	.04	17	.08	12	.80	240
3612134	2 L	1.40	23	120	.07	19	.94	16	1.30	200
3613114	2 L	1.80	23	27	.04	22	.04	10	.30	260
3613133	2 L	1.50	15	50	.06	17	.02	6	.90	250
3613134	2 L	1.30	24	72	.05	39	.04	12	1.20	230
3613142	2 L	1.10	19	98	.06	27	.11	13	1.10	190
3613144	2 L	1.50	17	140	.05	17	.07	9	.60	260
3614134	2 L	1.40	11	48	.04	15	.03	5	.50	220
3614144	2 L	1.60	20	100	.06	12	1.68	11	1.70	240
3614152	2 L	2.60	21	35	.06	15	.01L	6	.10L	380
3615121	2 L	1.60	14	49	.06	11	.07	7	.60	330
3615132	2 L	1.10	15	36	.04	15	.70	9	1.30	250
3615133	4	1.10	19	64	.11	14	.26	10	2.30	270
3615134	3	1.10	21	57	.09	10	1.92	9	2.80	270
3615144	2 L	1.20	14	47	.07	10	.89	8	1.30	300
3615154	2 L	1.80	19	230	.08	15	.76	14	1.20	190
3616154	2 L	1.20	20	220	.05	18	.10	13	.90	200
3616162	2	1.70	22	190	.06	15	.66	15	.50	200
3617161	2 L	1.80	18	110	.07	14	.01L	13	.30	310
3617163	2 L	1.50	21	140	.07	14	.10	17	.20	230

Table 4.--Continued

SAMPLE	Th ppm-I	Ti %-I	V ppm-I	Y ppm-I	Yb ppm-I	Zn ppm-I
3417164	10	.35	110	16	2	84
3512114	10	.33	93	15	2	71
3512124	12	.34	120	15	2	100
3512133	9	.34	110	15	2	100
3513121	7	.19	53	10	1	55
3513144	10	.29	79	14	2	76
3514122	12	.33	100	17	2	100
3514123	12	.30	94	15	2	93
3514144	12	.35	130	16	2	120
3514153	9	.33	98	15	2	78
3514154	8	.35	110	14	2	69
3515132	12	.36	130	13	2	97
3515144	8	.28	100	12	1	81
3515154	11	.31	150	15	2	120
3516152	12	.33	140	17	2	130
3516154	13	.33	110	15	2	100
3517151	11	.32	99	15	2	92
3517154	13	.36	130	18	2	120
3517161	9	.38	150	18	2	110
3612114	8	.35	110	16	2	91
3612124	12	.31	130	15	2	110
3612132	12	.32	100	14	2	89
3612134	13	.36	140	16	2	120
3613114	13	.30	86	16	2	89
3613133	6	.22	61	11	1	80
3613134	13	.35	120	16	2	100
3613142	12	.33	120	15	2	100
3613144	9	.28	89	12	2	81
3614134	6	.17	46	8	1	43
3614144	11	.30	100	13	2	89
3614152	9	.24	54	13	2	32
3615121	5	.25	82	11	1	53
3615132	11	.27	90	11	1	80
3615133	10	.30	170	16	2	120
3615134	8	.27	140	14	2	100
3615144	8	.24	98	11	1	69
3615154	12	.32	120	15	2	110
3616154	12	.31	120	15	2	100
3616162	13	.35	130	16	2	110
3617161	6	.34	100	15	2	78
3617163	9	.37	130	17	2	93