DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY

Analyses and descriptions of geochemical samples, southwestern part of the Dahlonega gold belt and vicinity, Georgia, and seven samples from Clay, Cleburne, and Tallapoosa Counties, Alabama

by

F. G. Lesure[1], D. J. Grimes[2], K. J. Curry[2], and J.M. Motooka[2]

U.S. Geological Survey

Open-File Report 92-419

1. Reston, Va.
2. Denver, Colo.

1992

Contents

Illustrations

Tables

Abstract

Semiquantitative spectrographic analyses for 30 elements, atomic absorption analyses for gold, copper, lead, and zinc, colorimetric analyses for arsenic and molybdenum, and instrumental analyses for mercury on all or part of a sample suite of 788 rock and saprolite samples are reported here in detail. Complete chemical analyses are reported on 27 fresh to partly weathered rock samples.

Most of the samples are saprolite derived from mica schist and gneiss, amphibolite, and quartzite, or vein quartz in saprolite. Samples of vein quartz generally contain some enclosing country rock. Samples are from roadcuts, surface and underground mine workings, and mine dumps. Locations are given by quadrangle and by latitude and longitude. Seventy-six percent of the samples from old mine areas and 13 percent from roadcuts contain gold at a limit of determination of 0.02 parts per million (ppm). Thirty-five percent of the mine samples and ninety percent of the roadcut samples that contain detectable gold have less than 0.2 ppm.

Introduction

The analyses presented in this report are of 781 samples of rock and saprolite from the southwestern part of the Dahlonega gold belt and vicinity in Georgia (fig. 1 and table 1) and an additional seven samples from Alabama--two samples from Clay County, three from Cleburne County, and two from Tallapoosa County.

The samples were collected by Lesure in March-April and October-November, 1967, in a reconnaissance study as part of the U.S. Geological Survey (USGS) Heavy Metals Program. Some preliminary results were reported earlier (U.S. Geological Survey, 1968, p. 8; Lesure, 1969a; 1969b).

The samples are described briefly in a separate section of this report. Most of the samples are chip composites taken across bedding or layering over a measured thickness of representative material from roadcuts or mine workings or composites of several pieces of one or more thin quartz veins or lenses. A few are composite samples of rock from mine dumps. The samples are representative of the major rock types, mica gneiss and schist, quartzite, amphibolite, and vein quartz, exposed in the areas sampled. Samples of vein quartz generally include some enclosing country rock.

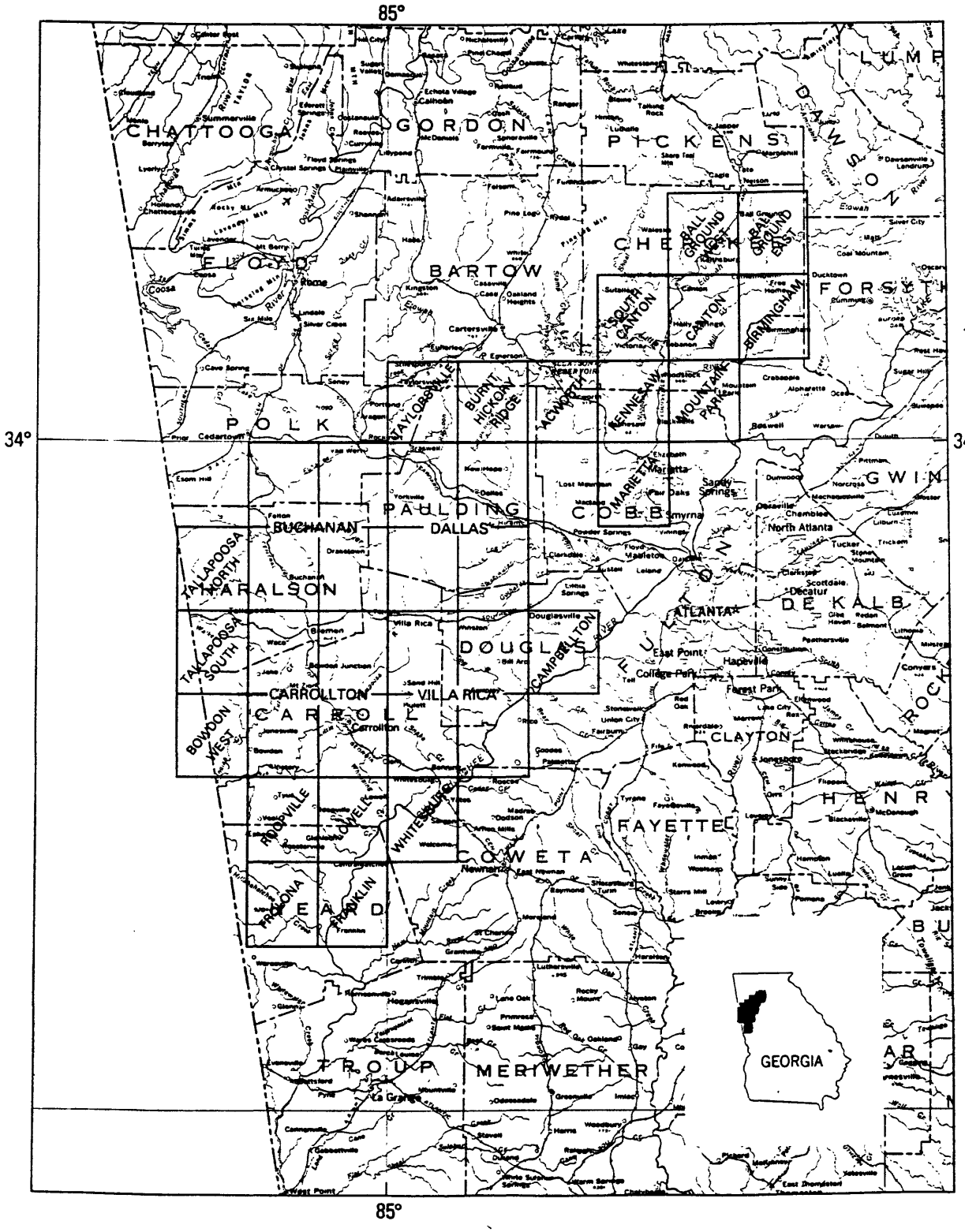

Figure 1.-- Index map showing outline of the southwestern part of the Dahlonega gold belt and the location of quadrangles in which samples were collected. Quadrangles and identification codes for sample numbers are listed in table 1.

Most of the samples are of weathered rock or saprolite. The freshest samples are generally from underground mine workings or mine dumps. Maps showing sample localities for this part of the Dahlonega belt and a discussion of the results of the analytical work are given by Lesure (in press).

Table 1.-- List of quadrangles and some of the mines within the quadrangle from which samples were collected (See also fig. 1).

Quadrangle	PC[1]	No.[2]	Quadrangle	PC[1]	No.[2]
Atlanta 1°x2°	A	30	Kennesaw	K	7
Acworth	AC	23	Lowell	LO	17
Bowdon West	BO	18	Marietta	MA	25
Birmingham	BI	2	Mountain Park	MP	17
Burnt Hickory Ridge	ST	29	Roopville	RO	33
Buchanan 15′	BU	32	Bonner mine	AB	7
Carrollton 15′	CA	111	South Canton	SC	51
Campbellton	CAM	14	Cherokee mine	SCC	26
Canton	CN	16	Tate 15′	T	39
Dallas 15′	DL	41	Tallapoosa South	TA	65
Pine Mountain mine	DLP	116	Royal-Vindicator	AH	16
Yorkville mine	DLY	8	Taylorsville	ST	3
Franklin	FA	4	Villa Rica 15′	V	28
Frolona	FR	7	Whitesburg	WH	3

[1] Quadrangle and quadrangle-mine prefix code used in sample number.
[2] Number of samples.

Analytical methods

Rock and saprolite samples were crushed to approximately 0.25-in. (6-mm) particle size and were pulverized to minus 140-mesh (0.004 in. or 0.105 mm) in a vertical grinder having ceramic plates. Most of the samples were analyzed semiquantitatively for 30 elements by means of a six-step, D.C. (direct-current) arc, optical emission spectrographic method (Grimes and Marranzino, 1968) in USGS laboratories, Denver, Colo.(Table 2). The analysts and number of samples worked on by each are as follows: K.J. Curry (200 samples), D.J. Grimes (290 samples), J.M. Motooka (232 samples), G.W. Sears (40 samples) and K.C. Watts (26 samples). The semiquantitative spectrographic values are reported as six steps per order of magnitude (1, 0.7, 0.5, 0.3, 0.2, 0.15, or multiples of ten of these numbers) and are approximate midpoints of geometric brackets whose boundaries are 1.2, 0.83, 0.56, 0.38, 0.26, 0.18, 0.12, etc. The expected precision is within one adjoining reporting interval on each side of the reported value 83 percent of the time and within two adjoining intervals 96 percent of the time (Motooka and Grimes, 1976).

The visual lower limits of determination for the 30 elements that were determined spectrographically are as follows:

	For those given in percent:		
Calcium	0.05	Magnesium	0.02
Iron	0.05	Titanium	0.002

For those given in parts per million (ppm):

Antimony	100	Copper	5	Silver	0.5
Arsenic	200	Gold	10	Strontium	100
Barium	10	Lanthanum	20	Tin	10
Beryllium	1	Lead	10	Tungsten	50
Bismuth	10	Manganese	10	Vanadium	10
Boron	10	Molybdenum	5	Yttrium	10
Cadmium	20	Nickel	5	Zinc	200
Chromium	5	Niobium	10	Zirconium	10
Cobalt	5	Scandium	5		

The samples were analyzed for gold in the USGS laboratories, Denver, Colo., by W.L. Campbell, S.I. Hoffman, E.E. Martinez, R.L. Miller, A.L. Otsuka, M.S. Rickard, T.A. Roemer, and R.B. Tripp using an atomic absorption technique described by Thompson and others (1968).

About half of the samples were analyzed for copper, lead, and zinc by atomic absorption techniques (Ward and others, 1969) by Skyline Labs, Inc., Wheat Ridge, Colo., under contract to the USGS, and the rest were analyzed for the same elements by J.B. Cathrall, Luther Dickson, S.L. Noble, and R.B. Tripp in USGS laboratories, Denver, Colo. W. W. James (231 samples) and S. L. Noble (131 samples) analyzed for mercury using instrumental methods. Some of the samples were also analyzed for arsenic by colorimetric methods in the USGS laboratories, Denver, Colo., by J.G. Frisken, C.O. Hershey, A.L. Meier, S.G. Meyers, E.K. Ragsdale, and J.G. Viets. About half of the samples were also analyzed for molybdenum by thiocyanate methods by Skyline Labs, Inc., Wheat Ridge, Colo., under contract to the USGS.

Whole-rock analyses of 27 samples of relatively fresh rock were made in USGS laboratories in Denver, Colo., and Reston, Va. (table 4). Analyses for major elements Mg, Al, Si, P, K, Ca, Ti, and Mn were done either by wavelength-dispersive X-ray fluorescence spectrometry (WDXRF, Taggart and others, 1987) or by the wet-chemistry methods described by Shapiro (1975). All data are reported as oxides. Analyses of Na, Sc, total Fe, Co, Cr, Zn, As, Sb, Cs, La, Ce, Nd, Sm, Eu, Tb, Yb, Lu, Hf, Ta, Au, Th, and U were done by instrumental neutron activation analysis (INAA) using the method described in Baedecker and McKown (1987). Titration methods of Peck (1964) and Engleman and others (1985) were used to determine CO_2 and FeO. Sulfur was analyzed by the infrared (IR) spectroscopic method of Kirschenbaum (1983). Ferric oxide (Fe_2O_3) was calculated as the difference of total iron and iron measured as FeO plus iron calculated as FeS_2. The gravimetric and fusion methods of Shapiro (1975) were used to measure H_2O^- and H_2O^+. Boron was measured by the emission spectrography method of Golightly and others (1987). Chlorine was determined as chloride by the selective ion electrode (SIE) method of Aruscavage and Campbell (1983). Rubidium, Sr, Y, Ba, and Zr were determined by energy-dispersive X-ray fluorescence spectrometry (EDXRF). Niobium was measured by inductively coupled plasma-atomic absorption spectrometry (ICP-AES) following acid decomposition and ion-exchange purification of the element. Palladium and Pt were determined by the fire-assay graphite-furnace atomic-absorption method of Aruscavage and others (1984).

Analysts who made the largest contributions to the whole-rock analyses are J.E. Taggart, Jr., A.J. Bartel, and D.F. Siems (WDXRF); Hezekiah Smith, C.J. Skeen, and Roosevelt Moore (wet-chemistry methods); J.R. Evans (EDXRF); J.D. Fletcher (B analysis); Roosevelt Moore and Norma Rait (Pd and PT analysis); J.N. Grossman, J.S. Mee, and G.A. Wandless (INAA); and J.N. Grossman (data processing and recalculation of geochemical analyses).

Table 2.-- Sample descriptions

[Abbreviations used -- Sample type: chs, chip sample; cos, composite sample. Color: lt, light; med, medium; mod, moderate; dk, dark; p, pale; br, brownish, grn, greenish; gy, grayish; ol, olive; or, orange; pk, pinkish; yel, yellowish. Degree of alteration: pw, partly weathered; sap, saprolite. Rock type: amp, amphibolite; gn, gneiss; gr; granite; qite, quartzite; ss, sandstone; sch, schist; um, ultramafic. Minerals: B, biotite; Cc, calcite; Chl, chlorite; F, feldspar; G, garnet; H, hornblende; K, kyanite; Lim, limonite; M, muscovite; Py, pyrite; Q, quartz; S, sillimanite; Fe, iron or ferruginous; Graph, graphitic; Mn, manganiferous. Grain size: vf-gr, very fine-grained; f-gr, finegrained, md-gr, medium-grained; c-gr, coarse- grained; congl, conglomeratic. Abundance: abu, abundant; com, common; t, trace; r, rare.]

Atlanta 1°x2° quadrangle

A01-A14 Tallapoosa South quadrangle

A01 1-m chs, lt-brown sap; f-gr mica sch; abu thin Q seams.
A02 1-m chs, mod- to mod-yel-brown sap; vf-gr Q-mica sch; abu thin Q seams.
A03 0.6 chs, lt-brown sap; f-gr mica sch; com Q stringers.
A04 1-m chs, lt-ol-gray, pw chl-H sch.
A05 0.6-m chs, lt-brown sap; f-gr Q-mica sch; minor Q lenses.
A06 0.6-m chs, lt-gray to p-brown, pw, graph, f-gr Q-mica sch and qite; abu Q lenses.
A07 1-m chs, br-gray sap; graph sch and qite; abu thin sugary Q veins.
A08 Cos, 0.6-m Q vein, contact graph sch and mafic sch.
A09 1-m chs, mod-brown sap; m-gr Q-mica-G sch.
A10 Cos, 7 Q veins, p-yel-brown, 1-3 cm thick; from area of A09.
A11 1.6-m chs, mod-or-pink, pw, granular Q layers in sch sap.
A12 0.6-m chs, mod-brown sap; mica-G sch, below A11.
A13 0.5-m chs, dk-yel-brown, sandy sap; Mn-rich Q-mica sch.
A14 0.3-m chs, gr-or-pink sap; f-gr Q-mica sch.

A15-A20 Tallapoosa North quadrangle

A15 0.3-m chs, lt-gray, pw phyllite.
A16 0.6-m chs, lt-brown sap; f-gr congl meta-graywacke; Q pebbles and granules.
A17 Cos, white irregular Q lenses in phyllite; t Chl.
A18 1-m chs, lt-gray to p-yel-brown, pw phyllite.
A19 Cos, 2 white Q lenses in gray phyllite.
A20 1-m chs, vp-orange to p-brown sap; vf-gr Q-F-mica sch.

A21-A23 Cleburne County, Ala.

A21 0.3-m chs, pw graph slate.
A22 Cos several white Q lenses, 2-cm thick, 15-cm long, minor Fe-Mn stain.
A23 1-m chs, med-gray, pw graph slate; minor Py porphyroblasts.
A24 1-m chs, Q-M sch, abu Py, pw; Clay County, Ala.
A25 1-m chs, lt-gray, f-gr Q-mica sch; abu Py; Clay County, Ala.
A26 Cos, Q diorite, abu Py, from dump Hog Mtn mine; Tallapoosa County, Ala.
A27 Cos, vein Q, abu Py, from dump Hog Mtn mine; Tallapoosa County, Ala.

A28-A30 Roopville quadrangle.

A28 1-m chs, mod-brown sap, md-gr Q-mica-G sch; minor Q lenses; G 1-cm.
A29 0.6-m chs, mod-brown sap; mica-G sch; Q stringers.
A30 1-m chs, mod-brown sap; mica-G sch, granite seams; G 1-cm.

Bonner mine (Roopville quadrangle)

AB1 0.6-m chs, mod-brown sap; G-mica sch. No Q lenses.
AB2 1-m chs, mod-red-brown sap; G-mica sch; minor Q lenses; G 1-cm.
AB3 1-m chs, mod-brown sap; md-gr mica-G sch; minor Q stringers.

AB4 Cos 3 granular Q stringers, 2-5 cm thick; in area of AB3.
AB5 0.6-m chs, mod-brown sap; mica-G sch; abu granular Q stringers.
AB6 0.6-m chs, mod-brown sap; mica-G sch; abu granular Q stringers.
AB7 0.6-m chs, mod-brown sap; md-gr mica-G sch; abu Q stringers.

Acworth quadrangle
AC01 1-m chs, lt-grn-gray, md-gr F-H-Chl-Q gn.
AC02 1-m chs, mod-yel-brown sap; f-gr Q-F-B gn and sch.
AC03 Cos 2 white Q veins, 2-10 cm thick; in mica sch of AC02.
AC04 1-m chs, meta-congl(?); granitic(?) pebbles in mica sch matrix.
AC05 1-m chs, lt-grn-gray, md-c-gr amp.
AC06 0.3-m chs, white Q vein, 0.1-0.3 m thick in granitic sap of AC07.
AC07 1-m chs, lt-brown sandy sap; f-gr Q-F-B granitic gn.
AC08 1-m chs, med-bluish-gray, sheared H-F sch; r Py.

Glade(?) mine, AC09-AC12
AC09 Cos several white Q stringers; 2-10 cm thick; from adit in mafic sch.
AC10 0.6-m chs, interlayered; pw H-F sch and mica sch from adit.
AC11 Cos several pieces from dump, med- to dk-gray, f- to c-gr amp; r Q seams.
AC12 Cos several pieces from dump, lt- to med-gray, sheared amp; partly altered f-gr, H-B-M-Q sch.

Georgiana mine AC13 - AC15
AC13 0.5-m chs, gy-orange to lt-brown sap; f-gr mica sch; abu Q lenses; Lim.
AC14 Cos 2 pieces from dump, lt-gray sheared amp; altered to B-Chl sch; Q veins.
AC15 Cos, sheared vein Q in shaft; vp-orange.
AC16 1-m chs, mod-yel-brown, sheared amp; Q veins; alt to F-H-Chl-Q-Py sch.
AC17 1-m chs, lt-gray to gy-orange, pw; vf-gr mica sch; minor Q veins.
AC18 1-m chs, med-gray to ol-black, f-gr H-Chl-B-F-Q sch; sheared amp; r Py.
AC19 1-m chs, p-yel-brown sap; f-gr Q-M sch; minor Q seams.
AC20 1-m chs, p-red-brown, vf-gr mica sch; minor Q seams.
AC21 1-mchs, p-yel-orange to lt-brown sap; vf-gr mica sch; abu Q lenses.
AC22 0.6-m chs, mod-yel-brown to gy-yel-orange sap; f-gr granite gn.
AC23 Cos 2 Q veins, white to gy-orange stained; 5 cm thick in sap of AC22.

Royal-Vindicator or Hollins mine (Tallapoosa South quadrangle)
AH01 1-m chs, yel-gray, clay-rich sap; vf-gr F-Q-mica sch.
AH02 Cos 4 thin Q stringers, 1-3 cm thick, in area AH01
AH03 0.6-m chs, mod-red-orange, clayey sap; vf-gr Q-F-mica gn.
AH04 0.6-m chs, yel-gray, clay-rich sap; mica-F-Q sch, minor Q lenses.
AH05 0,3-m chs, gy-orange sap; f-gr Q-F-mica sch; minor thin Q seams.
AH06 Cos several pieces lt-ol-gray, hard Q-M sch; minor magnetite, Py.
AH07 Cos pieces from dump, vein Q, 2-5 cm thick; minor Chl, Py, magnetite.
AH08 0.6-m chs, mod-red-orange, clay-rich sap; same rock as AH06(?).
AH09 0.6-m chs, lt-brown mafic sap; vf-gr Chl sch.
AH10 0.3-m chs, white to p-gray sap; f-gr Q-F-mica sch.
AH11 0.6-m chs, p-gray, clay-rich sap; Q-F-mica gn; abu Q seams; Fe-Mn stain.
AH12 0.6-m chs, med- to grn-gray chl-epidote sch.
AH13 0.3-m chs, gy-orange sap; Q-F-mica sch.
AH14 0.6-m chs, white to vp-orange sap; vf-gr Q-F-mica sch; Q veins.
AH15 1-m chs, gy-or-pink sap; vf-gr Q-mica-F sch; layered; r Q seams.
AH16 0.6-m chs, mod-red-orange, clay-rich sap; vf-gr Q-F-mica sch.

Birmingham quadrangle
Bi1 0.6-m chs, mod-yel-brown sap; md-gr B-M sch; minor Q-F seams.
Bi2 Cos several pieces vein Q from dump of small pits, Rudicil(?) mine.

Bowdon West quadrangle
BO01 1.3-m chs, p-red-brown, sandy sap; f-gr Q-mica-G sch.
BO02 Cos 4 white to gy-pink, pw granular Q lenses in mica sch BO01.
BO03 0.6-m chs, lt- to red-brown, yel-gray sap; md-gr Q-mica-G sch.
BO04 1-m chs, gn to dk-grn-gray, pw Chl-amphibole sch, m-gr.
BO05 1-m chs, mod-red-brown sap; Q-mica-G sch; G 1-6 mm.
BO06 Cos of several layers white to gy-orange granular Q in BO05.
BO07 0.6-m chs, lt-gray to lt-brown sap; graphitic Q-mica sch.
BO08 1-m chs, p-red-brown sap; mica-Q-G sch.
BO09 Cos 3 seams pw, granular, white Q vein; 2-5 cm thick; minor Fe-Mn.
BO10 1-m chs, mod-yel-brown sap; f-gr Q-mica sch.
BO11 0.6-m chs, mod-brown friable, sandy sap; f-gr Q-mica sch.
BO12 1-m chs, mod-yel-brown sap; Q-mica-G sch.
BO13 Cos 5 white to gy-or-pink, pw Q lenses in BO12.
BO14 1.3-m chs, grn- to dk-grn-gray, pw Chl-amphibole sch, m-gr.
BO15 0.6-m chs, mod-red-brown sap; md-gr mica-G sch.
BO16 Cos 2 white to p-yellow Q veins.
BO17 1.3-m chs, lt-brown mafic sch sap.
BO18 1-m chs, mod-red sap; Q-mica sch; f-gr.

Buchanan quadrangle
BU01 1-m chs, med-dk-gray, pw, graph phyllite; minor Py 1-4 mm.
BU02 0.6-m chs, dk-yel-orange to lt-brown, c-gr sandy sap; metagraywacke(?).
BU03 Cos 4 Q veins, 5 cm thick; minor Lim after Py; in metagraywacke of BU02.
BU04 1-m chs, gy-orange, pw phyllite below metagraywacke of BU02
BU05 0.6-m chs, med-gray, congl metagraywacke; minor Py, blue Q grains.
BU06 0.6-m chs, p-yel-orange, pw, congl metagraywacke.
BU07 0.3-m chs, lt-ol-gray phyllite, pw, some Lim after Py.
BU08 Cos 6 white Q veins, 5 cm thick in area of BU06 and BU07.
BU09 1-m chs, med-gray graph phyllite.
BU10 Cos several white to gy-orange, granular, pw Q lenses in phyllite BU09.
BU11 0.6-m chs, black sandy sap; graph Q-mica phyllite.
BU12 Cos 12 lt-brown to gy-orange, pw Q stringers; 1-5 cm thick; granular.
BU13 0.3-m chs, lt-brown sap; G-mica sch; G 5-7 mm.
BU14 1-m chs, lt- to grn-gray, pw, f-gr Q-mica sch; abu Q seams.
BU15 0.3 lens white Q; minor Chl and Lim after Py.
BU16 Cos white Q vein, 2-15 cm thick, 7 m long; Py 4 cm.
BU17 1-m chs, 1-m chs, p-red to p-red-purple, clay-rich sap; f-gr Q-F-mica sch.
BU18 Cos p-yel- to gy-orange Q vein, 7-10 cm thick; pw, granular.
BU19 1-m chs, lt-red, clay-rich sap; mica sch.
BU20 1-m chs, mod-brown mafic sap; f-gr sch; minor Lim after Py.
BU21 1-m chs, mod-brown sap; phyllitic sch.
BU22 Cos 4 white, granular Q veins, 1-5 cm thick,in BU21.
BU23 1-m chs, mod-yel-brown, sandy sap; laminated Q-magnetite rock.
BU24 0.6-m chs, pw, f-gr Q-mica-G sch; minor vein Q.
BU25 Cos 8 small Q lenses in BU24.
BU26 1-m chs, pw Q-mica-G sch like BU24.
BU27 Cos several small Q lenses in BU26.
BU28 Cos Lim after Py cubes, 1-5 cm.
BU29 1-m chs, pw, f-gr graphitic phyllite or vf-gr mica-G sch.

BU30 Cos thin, white Q veins and lenses in BU29.
BU31 1-m chs, pw, mod-yel-brown to lt-gray, vf-gr graph sch or phyllite.
BU32 Cos several white, sugary Q seams and pods; in BU31.

Carrollton quadrangle
CA001 0.6-m chs, p-red, sandy sap; f-gr Q-F-mica sch.
CA002 0.6-m chs, mod-red-orange sap; f-gr Q-F-mica sch.
CA003 Cos 2 white to p-red, pw Q veins, 2-5 cm thick, in area CA002.
CA004 1-m chs, p-red-brown sap; md-gr Q-F-mica sch.
CA005 1-m chs, gy-orange sap; vf-gr Q-F-mica gn.
CA006 Cos 3 white to mod-red-orange, pw, granular Q veins, in CA005.
CA007 1-m chs, mod-red-orange sap; f-gr Q-F-mica gn and minor Q stringers.
CA008 1-m chs, mod-red-brown sap; md-gr mica-G sch.
CA009 1-m chs, mod-brown sap; md-gr Q-mica-G sch; several thin Q stringers.
CA010 Cos 2 white, granular Q veins; 15 cm thick; in CA009.
CA011 1-m chs, lt-brown sap; md-gr Q-mica sch; minor G.
CA012 Cos white to lt-brown, pw, granular Q lenses, 0.5-5 cm thick, in CA011.
CA013 1-m chs, p-yel-brown sap; f-gr Q-F-mica gn and sch.
CA014 1.3-m chs, gy-orange to mod-brown sap; md-gr mica-G sch, minor Q seams.
CA015 1-m chs, p-red-brown sap; f-gr Q-mica-G sch; minor tourmaline.
CA016 Cos 6 white to yel-brown, granular, pw, Q lenses; 2-10 cm thick.
CA017 1-m chs, med- to br-gray, vf-gr graphitic Q-mica sch.
CA018 Cos white to mod-brown, pw, granular Q veins; 0.5-5 cm thick; in CA017.
CA019 3-m chs, lt-brown sap; md-gr mica-G sch; 2 thin white Q seams.
CA020 1-m chs, mod-yel-brown sap; md-gr Q-F-mica-G gn and sch.
CA021 Cos 10 cm thick, pw, p-yel-orange Q vein; minor F, mica, and Py; in CA022.
CA022 1-m chs, lt-gray, pw, f-gr Q-F-mica gn.
CA023 1-m chs, mod-brown sap; md-gr Q-mica-G sch; minor K and graphite.
CA024 1-m chs, med-gray, md-gr Q-F-mica-G gn; migmatitic.
CA025 1-m chs M-B-Q-F sch, md- to c-gr, migmatitic.
CA026 1-m chs, p-yel-brown sap; md-gr Q-mica sch; minor G.
CA027 1-m chs, white to lt-gray , granitic gn sap.
CA028 1-M chs, med-gray to mod-brown, pw, graphitic sch, vf-gr.
CA029 Cos several white to mod-or-pink, pw, granular Q lenses in CA028.
CA031 1-m chs, p-red-brown to vp-orange sap; md-gr mica-G sch.
CA032 Cos gy-orange, pw, granular Q lenses, in CA031.
CA033 1-m chs, lt-brown to vp-orange sap; f-gr Q-mica sch.
CA034 1-m chs, lt-brown sap; f-gr Q-mica sch.
CA035 1-m chs, vp- to dk-yel-orange sap; f-gr mica sch; G 1-6 mm .
CA036 1-m chs, mod-brown sap; mica-G sch; abu Q stringers.
CA037 3-m chs, mica sch; Q stringers.
CA038 1-m chs, p-red sap; f-gr mica sch.
CA039 Cos white to p-red, pw, granular Q veins, 2-15 cm thick; in CA038.
CA040 1-m chs, mod-brown sap; md-gr mica-G sch.
CA041 1-m chs, white to p-red, pw, f-md-gr F-Q-mica gn, granitic gn.
CA042 Cos white Q vein, 15-30 cm thick, minor f-gr F and mica; in CA041.
CA043 0.6-m chs, gy-brown, pw, graphitic mica-G sch, md-c-gr; 5 Q lenses.
CA044 1-m chs, sap to pw graphitic mica-G sch.
CA045 0.6-m chs, pw, md-gr, crinkled graphitic M-G sch; G 1 cm.
CA046 Cos 7 white Q lenses, 0.5-15 cm thick; in CA045.
CA048 1-m chs, sap to pw, Q-mica sch; minor G, Fe stain.
CA049 Cos 4 white Q veins, 0.5-15 cm thick; com tourmaline; in CA048.
CA050 1-m chs, lt-gray, Q-F-B gn, granitic gn.
CA051 1-m chs, sand sap; granitic gn of CA050.

CA052 5-m chs, pw F-Q-M sch, augen gn, and B sch layers.
CA053 Cos 7 Q and Q-F lenses in area of CA052.
CA054 3-m chs, lt-brown mafic sch sap.
CA055 Cos several Q veins in mafic sch sap west of CA054.
CA059 Cos several thin Q seams in clayey sap of CA060.
CA060 1-m chs, yel-red clayey sap.
CA061 3-m chs, mica-G sch sap
CA062 Cos 5 small Q lenses, 0.5-3 cm thick in CA061.
CA063 0.6-m chs, pw, f-md-gr Q-B-M-G gn and sch.
CA064 0.6-m chs, brown sap, Q-mica-G sch.
CA065 Cos 6, 2-10 cm thick, Q veins in sch of CA064.
CA066 3-m chs, lt-red-gray sap; crinkled, md-c-gr mica-G sch.
CA067 Cos 5 white Q lenses in CA066.
CA068 1.6-m chs, lt-ol-gray sap; f-gr Q-mica sch.
CA069 0.6-m chs, pw G-mica sch.
CA070 Cos 6 white Q seams, 0.5 cm thick, in CA069.
CA071 1-m chs, p-red-purple sap; f-gr Q-mica sch.
CA072 1-m chs, med-gray to lt-brown sap to pw H-F and Q-H-F sch.
CA073 Cos 8 white Q veins, 2-15 cm thick in H sch sap of CA072.
CA074 1.6-m chs, p-red-purple sap; f-gr Q-F-mica-G sch.
CA075 Cos 2 Q lenses; 1-3 cm thick in CA074.
CA076 0.6-m chs, p-red-purple sap; f-md-gr Q-mica sch.
CA077 Cos 8 white Q lenses, 1-3 cm thick in 3 m area near CA076.
CA078 0.6-m chs, lt-brown sap; md-gr Q-mica-G sch.
CA079 Cos 5 white, granular Q lenses, 1-5 cm thick; in CA078.
CA080 1.3-m chs, red-brown sap; f-gr Q-mica sch.
CA081 Cos 7 white Q seams, 0.5-3 cm thick, in sch of CA080.
CA082 0.6-m chs, white sap; f-gr F-Q-mica pegmatite in sch of CA080.
CA083 1.3-m chs, gy-brown sap; graphitic mica sch and phyllite.
CA084 Cos whitw Q vein; 5-15 cm thick; concordant; in CA083.
CA085 1.6-m chs, pw, black graphitic phyllite.
CA086 Cos 4 white, pw, granular Q lenses; minor Fe stain; in CA085.
CA087 0.6-m chs tan sap; f-gr Q-mica sch.
CA088 1.3-m chs, p-grn-brown sap; Chl sch.
CA089 1.6-m chs, vf-gr Q-mica sch and small Q lenses.
CA090 1-m chs, white, vf-gr Q-mica sch or qite.
CA091 1.3-m chs, lt-tan, pw Q-mica phyllite.
CA092 Cos white, granular Q veins or pods in CA091.
CA093 1.3-m chs, p-red sap; Q-F-mica gn.
CA094 0.2-mchs, lt-brown, pw, f-gr qite.
CA095 1.3-m chs, white to p-orange weathering, granular Q vein.
CA096 1-m p-red , friable sap; Q-mica-G sch.
CA097 0.6-m chs, med-gray to mod-brown, pw, f-gr graphitic Q-mica sch.
CA098 Cos several thin Q veins,pw, white to p-yel-orange, granular.
CA099 1-m chs, med-gray to mod-yel-brown, pw, graphitic, f-gr sch.
CA100 0.3-m chs, p-yel-orange to mod-brown sap; f-gr Q-mica-G sch.
CA101 0.6-m chs, p-red-brown sap; md-gr Q-mica sch; minor Q veins.
CA102 Cos 4, weathered, white to mod-red-orange, granular Q lenses in CA101.
CA103 0.3-m chs, pw graphitic sch.
CA104 Cos 2 Q veins, 5-10 cm thick in CA103.
CA105 0.3-m chs, lt-brown mafic sch sap.
CA106 1-m chs, lt-brown sap; mica sch interlayered with mafic sch.
CA107 Cos 2 white Q veins; 2 cm thick; in mafic sch of CA106.
CA109 1-m chs, lt-gray, pw F-Q-B-M gn; md-gr; sheared.

CA110 0.5-m chs, pw, md-gr mica sch.
CA111 1-m chs, lt-brown, sandy sap; vf-gr Q-mica sch.
CA112 1-m chs med-gray, f-gr F-Q-B-G sch and migmatite.
CA113 0.6-m chs, p-red-purple, sandy sap; f-gr Q-F-mica sch and gn.
CA114 Cos 3 white Q seams, 2-5 cm thick; in CA113.
CA115 1-m chs, dk-brown, laminated, crinkled, graphitic mica-G phyllite.
CA116 1.3-m chs, lt-brown to gy-orange sap; md-gr Q-mica-G sch; minor Q veins.
CA117 Cos 4 white, weathered Q veins, 1-5 cm thick; in CA116.

Campbellton quadrangle
CAM01 1.3-m chs, white to mod-pink, weathered, f-gr qite.
CAM02 1-m chs, white, f-gr qite, Fe stain.
CAM03 1-m chs, dk-yel-brown, weathered mica-G sch.
CAM04 1-m chs, dk-yel-brown, weathered mica-G sch, md-gr.
CAM05 1-m chs, mod-yel-brown sap; mica-G SCH.
CAM06 1-m chs, lt-brown sap; f-gr Q-mica sch and qite.
CAM07 1-m chs, dk-yel-brown sap; Q-F-mica-G sch.
CAM08 1-m chs, white to gy-orange, f-gr qite and Q-mica sch; minor magnetite.
CAM09 1-m chs, white to gy-orange, weathered, f-gr qite.
CAM10 1-m chs, white to gy-pink, weathered qite; some Q-mica sch.
CAM11 1-m chs, mod-yel-brown, weathered Q-mica-G sch; md-gr.
CAM12 3-m chs, lt-brown sap; f-gr mica sch; minor Q lenses.
CAM13 1-m chs, gray to vp-orange sap; granitic gn.
CAM14 Cos 8 white Q seams in mica sch; in 10 m area.

Canton quadrangle
CN01 1-m chs, med-lt-gray, pw f-gr Q-F-mica gn and sch; minor Q seams.
CN03 1-m chs, pw, vp-orange to dk-gray, interlayered amp and calc-silicate(?).
CN04 1-m chs, p-brown sap; f-gr graphitic mica-G sch.
CN05 0.6-m chs, soft, clayey sap; mica sch.
CN06 1-m chs, weathered mica-G sch.
CN07 Cos 10 white Q seams, 1-5 cm thick; minor G; in CN06.
CN08 1-m chs, brown sandy sap; Q-mica sch; minor G.
CN09 Cos 8 white Q seams in CN08; minor Lim stain.
CN10 1-m chs, Q-B-M sch; concordant M pegmatite lenses.
CN11 0.3-m chs, vp-orange to dk-yel-brown, pw Q-B-M-G sch; f-gr.
CN12 0.6-m chs, sap; m-gr mics-G sch.
CN13 Cos 6 vuggy, white Q seams, 1-5 cm thick; Lim; in CN12.
CN14 1-m chs, pw, B-M-Q-F-G gn.
CN15 1-m chs, vp-orange to lt-brown sap; f-gr mica-G sch.
CN16 Cos 3 white Q pods; some hematite stain, in CN17.
CN17 1-m chs, sap; B-G sch; G 1-5 cm across.

Dallas quadrangle
DL01 1-m chs, lt-red-brown mafic sch sap.
DL02 1-m chs, white to lt-gray, weathered, f-gr, sandy, granitic gn.
DL03 1-m chs, p-red sap; f-gr granite; minor vein Q.
DL04 1-m chs, dk-gray H sch; Py rich seams.
DL05 0.3-m chs, gy-orange sap; vf-gr Q-mica sch.
DL06 1-m chs, gy- to red-orange sap; f-gr Q-mica phyllite and thin Q seams.
DL07 6-m chs, dusky-red, weathered graph phyllite; Lim and hematite cement.
DL08 1-m chs, white to lt-brown sap; f-gr Q-mica sch; thin white Q veins.
DL09 1-m chs, white to lt-gray, weathered gneissic granite, f-md-gr.
DL10 1-m chs, p-orange sap; augen gneiss.

Baxter prospect DL11-DL14

DL11 Cos white Q vein; 5 cm thick; in mafic sch sap.
DL12 0.3-m chs, Mn stained sap; Q-mica sch; 1 cm thick Q vein.
DL13 1-m chs, gray, pw, f-gr mafic sch.
DL14 Cos several Q veins; 2-5 cm thick.
DL15 Cos speckled white and med-gray, pw, f-gr F-B-Q granite gn.
DL16 1-m chs, gy-orange sap; f-gr F-mica-Q gn; granite(?).
DL17 1-m chs, vp-orange sap; f-gr F-mica-Q gn; granite(?).
DL23 1-m chs, dusky-yellow to lt-ol-gray soapstone; amphibole-talc rock.
DL25 1.3-m chs, white to gy-orange Q vein; minor F, M, Lim after Py and Cc.
DL27 1-m chs, gy-or-pink to p-red sap; talc-amphibole sch.
DL28 1-m chs, gy-orange sap; f-gr F-Q-mica gn; granite(?).
DL29 Cos massive sulfide; Py and pyrrhotite, sphalerite(?); Q-H-epidote vein; from dump, Villa Rica mine.
DL30 0.3-m chs, mod-brown, pw, vf-gr magnetite qite.
DL31 0.6 m chs, dk-yel-orange mafic sap to pw f-gr H-F gn.
DL32 0.6-m chs, vp-orange to mod-brown sap; f-md-gr mica-G sch.
DL33 1-m chs, gy-orange sap; f-md-gr F-mica-Q gn; granitic gn.
DL34 Cos 3 lt-gray Q veins, 5 cm thick; minor F; in DL33.
DL35 1.3-m chs, lt- to mod-yel-brown sap; f-gr F-B-Q-G sch.
DL36 Cos white to lt-brown Q vein; minor Lim stain; in DL35.
DL37 0.6-m chs, lt-gray to mod-yel-brown sap to pw graph mica sch; f-gr.
DL38 Cos several small mod-yel-brown Q lenses; in DL37.
DL39 1-m chs, pw H-F gn; some epidote; thin layered.
DL40 1-m chs, vp-orange sap; f-gr Q-F-B granite cutting mafic sch sap.
DL41 0.6-m chs, vp-orange to mod-yel-brown sap; md-gr B-M-G sch; Q seams.
DL42 0.3-m chs, mod-yel-brown sap; f-gr Q-mica sch.
DL43 0.6-m chs, mod-yel-brown to vp-orange sap; md-gr mica-F-Q-G sch.
DL44 Cos white to lt-gray Q seams; 1-10 cm thick in sch of DL43.
DL45 0.6-m chs, Chl sch.
DL46 Cos 2 white Q seams; 3 cm thick; minor F-M; in mafic sch of DL45.
DL47 1-m chs, dk-yel-orange sap; f-gr F-mica-Q sch and gn.
DL48 Cos 5 white Q veins; 1-15 cm thick; in sap of DL47.

Dallas quadrangle, Pine Mountain mine

DLP001 0.3-m chs, weathered, white to vp-orange F-Q-M sch; md-gr.
DLP002 0.3-m chs, weathered, white to gy-orange F-Q-M sch; md-c-gr; Q lenses.
DLP003 0.3-m chs, lt-brown sap; F-Q-M sch.
DLP004 0.5-m chs, white to yel-orange sap; F-M qite.
DLP005 0.5-m chs, same as DLP004.
DLP006 0.5-m chs, same as DLP004.
DLP007 0.6-m chs white to gy-orange sap; F-Q-M sch and M qite; c-gr.
DLP008 0.3-m chs, white to p-red sap; F-M qite and Q-M sch.
DLP009 0.3-m chs, white to p-red sap; same as DLP008.
DLP010 0.3-m chs, white to gy-or-pink sap; Q-F-M sch and thin Q veins.
DLP011 0.6-m chs, white to gy-orange sap; F-M qite.
DLP012 0.3-m chs, p-red sap; F qite.
DLP013 0.6-m chs, white to vp-orange, weathered, granular Q-F-M sch.
DLP014 1.3-m chs, gy-orange sap; md-c-gr F-Q-M sch; minor Lim after Py.
DLP015 1.3-m chs, gy-pink sap; f-gr granite.
DLP016 0.3-m chs, white to gy-orange sap; F-Q-M sch; minor Lim after Py.
DLP017 0.6-m chs, white to gy-or-pink, interlayered Q-mica sch and F-M qite.
DLP018 0.6-m chs, white to gy-orange sap; F-Q-M sch; md-c-gr.
DLP019 0.6-m chs, white to gy-or-pink sap; F-M qite and Q-M sch.

DLP020 0.3-m chs, white to pk-gray, weathered, granular M-Q rock.
DLP021 0.3-m chs, white to p-orange sap; md-c-gr F-Q-M sch.
DLP022 Cos 0.15-m white Q vein.
DLP023 0.6-m chs, vp-prange to lt-brown sap; md-gr B(?)-Chl(?) mafic sch.
DLP024 1-m chs, mod-red-brown sap to pw, f-gr H-F sch and talc-amphibole sch.
DLP025 1-m chs, p-red-purple sap; f-gr F-mica-Q gn; granite(?).
DLP026 1.3-m chs, white to vp-orange sap; m-gr qite; minor F and M.
DLP027 1-m chs, p-red-purple sap; f-gr F-mica-Q gn; granite(?).
DLP028 0.6-m chs, lt-brown sap; f-gr F-mica mafic sch and M qite.
DLP029 1.3-m chs, white to p-orange sap to pw M-F qite; r Lim.
DLP030 0.6-m chs, p-pk-purple sap; f-gr F-mica-Q gn and sch.
DLP031 1.3-m chs, white to p-yel-orange sap; f-md-gr M-F qite.
DLP032 1-m chs, granite sap.
DLP033 1.3-m chs, white to p-yel-orange sap; md-c-gr M-F qite.
DLP034 1.3-m chs, white to yel-orange pw qite, some F and M; c-gr.
DLP035 0.6-m chs, white to p-yel-brown, pw M-F qite; md-gr.
DLP036 0.6-m chs, vp-orange sap; f-md-gr M-F qite; minor Lim after Py.
DLP037 0.3-m chs, mod-or-pink sap; f-gr F-mica-Q gn; granite(?).
DLP038 0.6-m chs, white to vp-orange sap; f-md-gr M-F qite.
DLP039 0.3-m chs, lt-brown mafic sap; f-gr F-mica sch.
DLP040 0.3-m chs, gy-or-pink sap; mixed M-F-Q sch and F-mica mafic sch.
DLP041 0.6-m chs, white to gy-orange sap; f-md-gr M-F qite.
DLP042 0.6-m chs, p-gy-orange sap; md-gr M-F qite; minor Lim cement.
DLP043 0.6-m chs, white to p-yel-orange sap; f-md-gr M-F qite.
DLP044 0.6-m chs, white to vp-orange, weathered, friable M-F qite; f-md-gr.
DLP045 1-m chs, lt-brown sap; mixed f-gr F-mica mafic sch and M-F-Q sch.
DLP046 0.6-m chs, white to vp-orange sap; M-F qite.
DLP047 0.6-m chs, white to yel-orange sap; f-md-gr M-F qite.
DLP048 0.3-m chs, white to p-gy-orange sap; f-gr M-F qite
DLP049 1.3-m chs, lt-brown sap; f-gr F-mica mafic sch and M-Q sch.
DLP050 1.3-m chs, mod-red-orange clayey sap; F-mica mafic sch and M-Q sch.
DLP051 1.6-m chs, dk-yel-orange sap; M-F-Q sch; f-md-gr.
DLP052 0.6-m chs, dk-yel-orange sap to pw M-F qite,; f-md-gr.
DLP053 1-m chs, lt-brown clayey sap; f-gr F-mica-Q sch or gn; in part mafic.
DLP054 0.6-m chs, white to dk-yel-orange sap; F-M qite and M-F-Q sch.
DLP055 0.6-m chs, vp-orange to lt-brown sap; M-F qite; md-gr.
DLP056 0.6-m chs, white to vp-orange sap; M-F qite; md-gr; Lim after Py.
DLP057 0.1-m chs, p-yel-orange sap; M-F-Q sch, md-gr; Lim after Py.
DLP058 1-m chs, mod-or-pink mafic sap; interlayered F-H? sch and M-F-Q sch.
DLP059 1.3-m chs, white to gy-or-pink sap; md-gr M-F qite and Q-M-Py sch.
DLP060 0.6-m chs, vp- to p-yel-orange sap; f-md-gr F-M qite; Lim after Py.
DLP061 0.6-m chs, vp-orange to lt-brown sap; md-gr M-F-Q sch, minor Lim.
DLP062 0.6-m chs, lt-brown mafic sap; f-gr F-H? sch or gn.
DLP063 0.3-m chs, gy-or-pink sap; F-M qite.
DLP064 0.3-m chs, lt-brown sap; F-mica sch; mafic(?).
DLP065 0.6-m chs, lt-red sap; f-gr F-M-Q sch.
DLP066 0.6-m chs, lt-brown sap; mixed F-mica mafic sch and M-F-Q sch; minor Lim.
DLP067 0.3-m chs, white to vp-orange sap; M-F qite.
DLP068 0.3-m chs, white to vp-orange sap; M-F qite; md-gr.
DLP069 1.3-m chs, p-yel-orange sap; M-F qite.
DLP070 0.6m chs, white to gy-or-pink sap; F-M qite and M-F-Q sch; Lim after Py.
DLP071 0.6m chs, gy-orange sap; md-gr F-M sch; minor Q seams and Lim.
DLP072 1.6m chs, mod-or-pink clayey sap; f-gr F-mica mafic? gn; minor white Q.
DLP073 0.6m chs, p-yel-orange sap; f-gr F-M qite and F-M-Q sch; white Q seams.

DLP074 0.6m chs, mod-or-pink sap; F-mica mafic? gn; minor white Q seams.
DLP075 0.6m chs, white to lt-brown sap to pw M qite and M-F-Q sch.
DLP076 0.6m chs, gy-or-pink sap; md-gr M qite and Q-M sch; minor Q seams.
DLP077 0.6m chs, dk-yel-orange sap; md-gr M qite and Q-M sch.
DLP078 0.6m chs, gy-or-pink sap; f-gr M-F-Q sch and qite; minor Lim.
DLP079 1-m chs, same as DLP078.
DLP080 1.3-m chs, mod-red-brown mafic(?) sap; f-gr F-mica sch.
DLP081 1.3-m chs, vp-orange, pw M-F qite; minor Lim after Py.
DLP082 1.3-m chs, white to vp-orange, pw qite; minor M and F.
DLP083 1.3-m chs, white to p-yel-orange, pw M quite and md-c-gr Q-M sch.
DLP084 1.3-m chs, dusky-yellow to lt-ol-gray soapstone; altered um.
DLP085 3-m chs, lt-brown mafic sap; f-gr H-F gn.
DLP086 0.3-m chs, lt-brown sap; f-gr F-mica mafic gn.
DLP087 1-m chs, mod-or-pink sap; m qite; minor c-gr Py altered to Lim.
DLP088 0.3-m chs, vp-orange to red, pw, md-c-gr M qite and Q-M sch; c-gr Py partly altered to Lim; c-gr green M associated with Py. From dump.
DLP089 1-m chs, lt- to med-red, pw, md-gr qite; minor M and Lim.
DLP090 1.6-m chs, vp-orange to white, pw M-F qite; md-gr.
DLP091 0.3-m chs, lt-brown sap; M-F-Q-G sch,; md-gr.
DLP092 0.6-m chs, white to yel-orange sap; F-M qite and M-F-Q sch.
DLP093 1-m chs, similar to DLP092.
DLP094 1.3-m chs, white to vp-orange sap; md-gr M-F qite and M-F-Q sch.
DLP095 1.3-m chs, white to vp-orange sap; M-F-Q and F-M qite; md-gr; minor Lim.
DLP096 0.3-m chs, p-yel-orange sap; M-F qite; f-gr.
DLP097 0.3-m chs, gy-orange sap; M-F-Q sch; md-gr; minor Lim.
DLP098 1-m chs, mod-pink sap; f-gr F-Q-M gn.
DLP099 0.6-m chs, lt-red sap; f-gr F-M-Q sch.
DLP100 1.3-m chs, mod-or-pink sap; f-gr F-M-Q gn; granitic gn(?).
DLP101 0.6-m chs, vp-orange sap; M-Q-F sch; md-gr; minor Lim.
DLP102 1-m chs, white, pw M qite; md-gr.
DLP103 0.6-m chs, white sap; md-gr F-M qite and F-M-Q sch.
DLP104 Cos 0.03-m p-yel-orange to gy-red seam; Lim cemented M qite.
DLP105 3-m chs, white to vp-orange, pw M qite; minor Lim after Py.
DLP106 0.15-m chs, white to vp-orange sap; md-gr qite; minor M and Lim.
DLP107 Cos 4 M sch seams in qite; minor Lim after Py.
DLP108 1.3-m chs, gy-orange, pw, md-gr M qite; minor Lim after Py.
DLP109 0.3-m chs, white to gy-pink sap; md-gr M-F qite and M-F-Q sch; r Lim.
DLP110 0.5-m chs, vp-orange sap; f-md-gr M-F qite; minor Lim cement.
DLP111 0.15-m chs, pk-gray sap; M-Q-F sch; md-c-gr.
DLP112 0.6-m chs, gy-or-pink sap; md-gr F-mica-Q gn and M-F-Q sch.
DLP113 1-m chs, p-yel-orange sap; md-gr M qite and Q-F-M sch.
DLP114 0.6-m chs, p-red-purple sap; f-gr F-M-Q granitic gn.
DLP115 1-m chs, vp-orange sap; f-md-gr M-F- qite; minor Lim after Py.
DLP116 0.6-m chs, gy-orange sap; md-gr Q-M-F sch and M-F qite.

Dallas quadrangle, Yorkville mine

DLY1 0.5-m chs, mod-yel-brown sap; md-gr Q-mica sch; some vein Q and Lim.
DLY2 COs 4 white Q lenses in mica sch; minor Lim after Py.
DLY3 Cos 3 white Q pods in mica sch; minor Lim after carbonate.
DLY4 0.3-m chs, lt-ol-gray, weathered f-gr Q-mica sch; some Lim and Q seams.
DLY5 Cos 2 white Q pods in Chl sch; minor Lim after Py.
DLY6 0.3-m chs, ly-gray to p-brown, weathered vf-gr Q-mica sch; thin Q seams.
DLY7 Cos, lt- to ol-gray, f-gr Q-mica sch; minor Py and Cc; from dump.
DLY8 Cos, grn-gray, f-gr Chl sch; some Cc-rich layers; from dump.

Franklin quadrangle
FA1 0.6-m chs, gy-orange sap; Q-M sch; minor Lim after Py.
FA2 Cos 6 white Q seams; 1-5 cm thick in Q-mica sch; 10 m area near FA1.
FA3 Cos 3 white Q veins in granite sap in area of FA4.
FA4 0.3-m chs, mod-red-orange sap; f-gr granite.

Frolona quadrangle
FR1 0.6-m chs, lt-gray to lt-brown sap; graphitic(?) mica-G sch.
FR2 0.6-m chs, dk-yel-orange, weathered, f-gr qite.
FR3 0.6-m chs, lt-yel-brown, weathered, f-gr qite.
FR4 0.6-m chs, lt-or-brown, weathered qite.
FR5 1-m chs, mod-brown sap; md-gr Q-mica-G sch; graphitic(?).
FR6 1-m chs, white to lt-gray granitic gn; minor magnetite.
FR7 1-m chs, br-gray sap; granite similar to FR6.

Kennesaw quadrangle
K1 1-m chs, lt-brown to vp-orange sap; vf-gr mica-G sch; abu Q seams.
K2 1m chs, lt-red-brown clayey sap; f-gr F-mica-Q-G sch.
K3 1-m chs, gy-brown sandy sap; vf-gr Q-mica sch; Fe and Mn stain.
K4 1-m chs, mod-red sap; f-gr mica-Q-F-G? sch; minor magnetite.
K5 Cos white to vp-orange Q vein; pw; granular; minor LIm.
K6 1-m chs, vp-orange to lt-brown sap; vf-gr Q-M sch; minor magnetite, Py, G.
K7 Cos from dump p-olive Chl-G-py sch; Bell Star mine.

Lowell quadrangle
LO01 0.6-m chs, p-red-brown sap; md-gr mica-G sch.
LO02 1-m chs, lt-brown sap; f-gr graphitic Q-mica sch.
LO03 1-m chs, dk-yel-orange, friable, sandy sap; f-gr meta-ss beds in sch.
LO04 0.6-m chs, mod-yel-brown sap; lt-gray, graphitic sch.
LO05 0.3-m chs, p- to p-yel-brown, weathered mica-G sch; md-c-gr.
LO06 0.3-m chs, med-gray Q-F-B-G gn; f-gr.
LO07 1-m chs, white to p-pk-brown sap; Q-mica mylonite(?); laminated.
LO08 1-m chs, white to vp-orange clayey sap; sheared Q-F rock; mylonite(?).
LO09 0,6-m chs, mod-yel-brown sap; mica-G sch.
LO10 1-m chs, lt-brown mafic sch sap.
LO11 1-m chs, mod-yel-brown sap; f-gr Q-mica sch; minor F augen.
LO12 0.6-m chs, lt-med-gray, sheared Q-F-mica gn or meta-ss.
LO13 0.6-m chs, lt-gray to p-yel-brown sap; interlayered mica sch and meta-ss.
LO14 1-m chs, white to lt-brown sap; sheared Q-mica sch; f-gr.
LO15 0.6-m chs, p-yel-brown, weathered Q-mica-G sch; md-c-gr; G 1-4 mm.
LO16 0.6-m chs, sap; G-mica sch.
LO17 0.6-m chs, soft, flakey sap; graph G-mica sch.

Marietta quadrangle
MA01 1.6-m chs, or-red-brown, speckled, sandy sap; Q-F-mica sch; md-gr.
MA02 1.6-m chs, similar sap as MA01.
MA03 Cos 4 Q-F veins, pw, 5-30 cm thick, in area of MA01 and MA02.
MA04 1-m chs, purple-weathering sap; Q-mica sch.
MA05 1-m chs, brown, sandy sap; F qite; Fe stain.
MA06 0.6-m chs, sheared, pw, qite.
MA07 1.6-m chs, md-gr, pw, F-M qite.
MA08 1.6-m chs, similar qite as MA07.
MA09 1.6-m chs, similar qite as MA07.
MA10 1.6-m chs, similar qite as MA07.

MA11 2-m chs, similar qite as MA07.
MA12 1.6-m chs, similar qite as MA07.
MA13 3-m chs, mixed f-md-gr Q-F pegmatite sap and broken blocks qite.
MA14 1.6-m chs, f-gr, pw, gray M qite.
MA15 1.6-m chs, similar qite as MA14.
MA16 1.6-m chs, red-brown, sandy sap; mixed f-gr qite and mica-Q sch.
MA17 1.6-m chs, pw qite.
MA18 1.6-m chs, pw qite.
MA19 1-m chs, pw qite.
MA20 6-m chs, gray to gy-red-brown sap; md-gr Q-mica sch.
MA21 Cos 6 interlayered granular Q beds(?) or veins in MA20.
MA22 1.6-m chs, gy-red, weathered, sheared F qite; minor Lim.
MA23 1-m chs, white to p-red sap; sheared F qite.
MA24 1.6-m chs, p- to dk-yel-orange, sandy sap; sheared F qite.
MA25 1.6-m chs, lt-brown mafic sch sap.

Mountain Park quadrangle
MP01 1.3-m chs, brown, weathered qite and Q-mica sch; f-md-gr; Fe stain.
MP02 0.6-m chs, clay layer below qite of MP01.
MP03 5-m chs, sap; Q-M sch and qite; 3 m below MP02.
MP04 1.6-m chs, f-md-gr M qite.
MP05 3.2-m chs, c-gr qite.
MP06 6-m chs, qite; minor Lim.
MP07 1.6-m chs, f-md-gr Q-M-G sch.
MP08 2-m chs, weathered F qite; thin layered.
MP09 1.3-m chs, white to mod-pink, weathered, sheared qite; Fe stain.
MP10 1.3-m chs, similar to MP09.
MP11 0.6-m chs, white to vp-red, weathered, sheared qite.
MP12 1-m chs, white to gy-red, weathered, sheared F qite; Fe stain.
MP13 1-m chs, mod-brown, weathered, f-gr F qite in mafic sch; Fe and MN stain.
MP14 1-m chs, H-F gn; f-gr; pw.
MP15 1-m chs, p-red-brown sap; Q-F-M sch; f-md-gr; minor Lim.
MP16 0.6-m chs, lt- to dk-brown, weathered, f-gr qite in G-mica sch; Fe and Mn.
MP17 1.6-m chs, white to gy-or-pink, weathered, sheared qite.

Roopville quadrangle
RO01 0.6-m chs, p-red-brown sap; f-gr Q-mica-G sch; G 1-3 mm.
RO02 0.6-m chs, lt-brown sap; f-gr Q-mica-G sch.
RO03 Cos 4 mod-red-orange to white, pw, Q stringers in RO02.
RO05 1-m chs, lt-brown sap; f-gr Q-mica sch.
RO06 Cos 9 white to lt-brown, pw, granular, Q veins; o.5-5 cm thick; in RO05.
RO07 1-m chs, mod-yel-brown sap; f-gr mica sch.
RO08 1.3-m chs, lt-gray to lt-brown sap; Q-F-mica gn and sch.
RO09 0.3-m chs, dk-yel-brown sap; mica-G sch.
RO10 0.6-m chs, mod-red-brown sap; Q-mica-G sch.
RO11 0.6-m chs, mod-brown sap; lt-gray, graph mica-G sch.
RO12 6-m chs, lt-brown, weathered qite and Q-mica sch; f-gr.
RO13 0.6-m chs, lt-ol-gray, pw B-M-Q sch; minor G and Q veins.
RO14 0.3-m chs, lt-ol-gray, granular sap; f-gr Q-F-mica gn; layered.
RO15 Cos white vein Q; minor Cc and Py where fresh, 15 cm thick; in RO14.
RO16 1-m chs, med-gray Q-B-M-G sch; md-gr.
RO17 1-m chs, med- to med-lt-gray Q-F-mica gn or meta-ss; minor py.
RO18 Cos white Q vein; minor Cc, Py, Chl, and B.
RO19 1-m chs, med-gray to mod-brown sap; f-gr graph Q-mica sch.

RO20 0.6-m chs, lt-gray to mod-brown sap; graph mica-G sch.
RO21 Cos 5 white Q veins; 2-5 cm thick.
RO22 0.6-m chs, grn- to med-dk-gray, f-gr H-F-epidote gn; thin layered.
RO23 1-m chs, mod-yel-brown sap; md-c-gr Q-mica-G sch.
RO24 1-m chs, lt-brown mafic sch sap.
RO25 Cos of Lim cubes after Py; mod-brown; 0.5-3 cm across.
RO26 0.3-m chs, thin layered, graph Q-mica sch.
RO27 1-m chs, dk-brown sap; mica sch.
RO28 0.3-m chs, lt-brown mafic sch sap.
RO29 1-m chs, yel-brown sap; interlayered vf- to md-c-gr mica sch.
RO30 Cos 5 white Q veins, 0.5-5 cm thick; in RO29.
RO31 1.3-m chs, red-brown sap; mica-G sch; migmatitic.
RO32 Cos 3 Q seams; 1-5 cm thick; in RO31.
RO33 1-m chs, sap; M-G sch; G 1 cm.
RO34 Cos several Q seams in 2 m section of sch including RO33.

South Canton quadrangle
SC01 1-m chs, dk-yel-brown, md-gr Q-M-B-G sch.
SC02 1-m chs, p-yel-brown, sandy sap; f-gr Q-F-mica sch and gn.
SC03 Cos several white to gy-orange Q seams in SC01 and SC02.
SC04 1-m chs, med-gray, f-gr mica-Q-G sch; minor vf-gr py.
SC05 1-m chs, vp-orange to lt-brown sap; vf-gr mica sch; minor Lim.
SC06 1-m chs, lt-brown sap; vf-gr mica-G sch; minor white Q seams.
SC07 1-m chs, p-brown sap; lt-gray, vf-gr graph mica-G sch.
SC08 Cos several white to lt-brown granular Q seams; minor Lim, in SC07.
SC09 1.3-m chs, gy-orange to lt-brown sap; f-gr mica qite; minor Lim.
SC11 1-m chs, dk-grn-gray, pw, H-F sch; f-med-gr.
SC12 1-m chs, lt-brown sap; interlayered f-gr mica-G sch and F-Q-mica gn.
SC13 1-m chs, vp-orange to lt-brown sap; md-gr mica-G sch.
SC14 1-m chs, vp-orange to mod-yel-brown sap; mica-G sch; minor Q lenses.
SC15 Cos 6 white Q lenses; 1-5 cm thick; area of SC14.
SC16 1-m chs, mod-brown mafic sap; B-Chl-H(?)-G sch.
SC17-SC20, 301 mine.
SC17 Cos of white Q vein, 0.1 m thick, in gy-or-pink, mica sch sap.
SC18 1-m chs, lt-brown sap; f-gr mica sch; minor white Q seams.
SC19 0.15-m chs, med-gray Q-mica sch and vein Q; minor Cc and Py; from dump.
SC20 0.15-m chs, p-orange to lt-brown sap; vf-gr mica sch; minor Q seams.
SC21 Cos 6 white to p-red Q seams, 1-3 cm thick; area of SC22.
SC22 0.6-m chs, mod-red sandy sap; f-gr Q-mica sch.
SC23 1.3-m chs, vp-orange to mod-brown sap; f-gr mica-G sch; minor Q lenses.
SC24 Cos 4 white Q veins; 1-10 cm thick; in area of SC23.
SC25 0.6-m chs, lt-brown sap from both walls of vein SC26; vf-gr mica sch.
SC26 Cos white to p-brown Q vein; 0.3-0.5 m thick.
SC27 0.3-m chs, mod-yel-brown sap; f-gr mica-G sch; minor Q seams.
SC28 1-m chs, med-gray to p-brown sap; graph mica-G sch.
SC29 1-m chs, mod-yel-brown sap; vf-gr graph mica-G sch; minor Q seams.
SC30 1-m chs, p-yel-brown sap; vf-gr Q-mica sch; some layers graphitic.
SC31 1-m chs, gy-orange sap; md-gr B-M-G sch; minor Q saems.
SC32 1-m chs, p-red-brown sap; vf-gr mica-G sch; minor Q stringers.
SC33 1-m chs, gy-orange sap; mica-F-Q sch.
SC34 1-m chs, med-gray to mod-brown, pw, graph mica sch; minor Q seams.
SC35 1-m chs, lt-med-gray, pw, f-gr graph Q-mica-G sch.
SC36 1-m chs, lt-gray, vf-gr graph mica-G sch; Q seams; minor Lim.
SC37 1-m chs, lt-med-gray, pw, vf-gr graph mica-G sch; minor Q seams.

SC38 Cos of several white Q seams; in area of SC37.
SC39 1-m chs, p-mod-yel-brown mafic sap and vp-orange, vf-gr Q-mica sch sap.
SC40 1-m chs, lt-red-brown, sandy sap; vf-gr F-Q-mica gn.
SC42 1-m chs, lt-gray to dk-yel-orange sap; vf-gr Q-mica-G sch; partly graph.
SC43 1-m chs, lt-gray to mod-yel-brown sap; vf-gr mica-G sch; partly graph.
SC44 1-m chs, med-gray, H-F sch.
SC45 1-m chs, med-gray, H-F sch.
SC46 1-m chs,, vp-orange to mod-brown sap; f-gr granitic gn.

SC47-SC50, Sixes mine.

SC47 Cos from dump, med-dk-gray, vf-gr H sch; minor Py and Q-Cc veins.
SC48 Cos from dump, sheared H sch; minor Py and G; large H crystals.
SC49 Cos from dump, white to vp-orange Q-Cc-Py vein in granite(?).
SC50 Cos from dump, lt-gray granitic gneiss.
SC51 1-m chs, vp-orange to p-red-brown sap; vf-gr mica-G sch; minor Q.
SC52 1-m chs, vp-orange to lt-brown sap; f-gr mica-G sch.
SC53 Cos several white to lt-gy-orange Q veins, 1-5 cm thick; in SC52.

South Canton quadrangle, Cherokee mine

SCC01 1-m chs, br-gray, pw, f-gr magnetite qite.
SCC02 0.6-m chs, gy-orange sap, f-gr F-mica-G sch; minor Q seams.
SCC03 Cos white to vp-orange Q seam, 1-3 cm thick; in area of SCC02.
SCC04 Cos from dump, med-gray, vf-gr Q-B-G sch; minor Py.
SCC05 Cos from dump, Q-Cc-Py vein, pw; some Lim.
SCC06 Cos from dump, med-gray H-F sch; c-gr H on foliation.
SCC07 0.6 chs, lt-brown sap; mica-F-G sch; white Q seams.
SCC08 0.25-m chs, white Q vein; Lim after Cc and Py.
SCC09 0.6-m chs, mod-yel-brown sap; f-gr Q-mica-G sch; white Q vein; 2-5 cm.
SCC10 0.6-m chs, mod-yel-brown sandy sap; Q-mica-G sch; minor Q seams.
SCC11 0.6-m chs, lt-brown sap; f-gr mica-G sch; minor white Q seams.
SCC12 Cos 1 white to vp-orange Q lens, 5 cm thick; minor Lim; in SCC11.
SCC13 1-m chs, dk-yel-brown sap; f-gr Q-mica-magnetite sch.
SCC14 0.5-m chs, mod-yel-brown sap; f-gr mica-G sch; shear zone; white Q
SCC15 0.5-m chs, mod-yel-brown sap; f-gr mica-G sch; white Q seams;
SCC16 0.6-m chs, dk-yel-orange mafic sap; f-gr amphibolite.
SCC17 0.5-m chs, mod-brown sap; mica-G sch; minor Q seams; above SCC16.
SCC18 0.6-m chs, dk-yel-brown sap; md-gr mica-G sch; Q seams; above SCC17.
SCC19 0.6-m chs, dk-yel-orange mafic sap; f-gr amp(?); above SCC18.
SCC20 0.35-m chs, mod-brown sap; vf-gr Q-mica sch and white Q seams; some
SCC21 0.6-m chs, mod-brown sap; f-gr Q-mica sch and white Q seams; above SCC20.
SCC22 0.3-m chs, lt-brown sap; f-gr Q-mica sch; white Q vein 10 cm thick.
SCC23 0.6-m chs, mod-yel-brown sap; f-md-gr mica-G sch; white Q veins, 5 cm thick; Lim after G and Py(?).
SCC24 0.6-m chs, vp-orange to lt-brown sap; f-md-gr mica-G sch; white Q seams; Lim after Cc and Py.
SCC25 0.3-m chs, lt-brown clayey sap; minor white Q lenses; 1-3 cm thick.
SCC26 0.3-m chs, dk-yel-orange sap; f-gr mafic gn(?).

Burnt Hickory Ridge quadrangle (SE Stilesboro 15')

ST01 lt-brown to gy-orange sap; vf-gr M sch; minor Q seams.
ST02 Cos several white to lt-brown Q lenses; minor Lim.
ST03 1-m chs, lt-gray to mod-yel-brown sap; f-gr graph mica sch; minor Q.
ST04 Cos several thin white to vp-orange Q lenses; minor Lim; in ST03.
ST05 1-m chs, dk-grn-gray; f-gr mafic sch; Chl and Py.

ST06-ST11, Burnt Hickory Ridge quadrangle, Russell mine.

ST06 1-m chs, dk-yel-orange sap; f-md-gr M sch; minor Q lenses.
ST07 Cos 2 Q lenses, white to mod-brown; some Lim.
ST08 0.6-m chs, lt-brown to gy-orange sap; f-gr mica sch; 4 Q stringers.
ST09 1-m chs, lt- to med-gray, pw, vf-gr, laminated magnetite qite.
ST10 0.6-m chs, gy-orange sap; f-md-gr M sch; minor Q seams; Lim after Py.
ST11 0.3-m chs, dk-yel-orange sap; f-gr M sch; 4 Q seams, 2 cm thick.

ST12 and 13, Burnt Hickory Ridge quadrangle, Merritt mine.

ST12 1-m chs, lt-red-brown sap; f-gr mica sch; Lim after Py.
ST13 Cos 4 white Q seams, 2-5 cm thick; in area of ST12.

ST14 and 15, Burnt Hickory Ridge quadrangle, Dunaway mine.

ST14 1-m chs, lt-brown sap; f-gr mica sch; minor Q seams.
ST15 0.6-m chs, gy-orange to mod-yel-brown sap; f-gr mica sch; minor Q.

ST16 1-m chs, ol-gray talc sch.
ST17 0.6-m chs, yel-gray sap; f-gr F-Q-B granitic gn.
ST18 Cos 8 white Q veins, 1-15 cm thick; in ST17.
ST19 0.6-m chs, vp-orange to lt-brown sap; f-md-gr mica sch.
ST20 Cos 6 white to vp-orange Q veins; 1-10 cm thick; minor Lim.
ST21 1-m chs, vp-orange to lt-brown, md-gr mica-G sch; minor Q seams.
ST22 1-m chs Chl um sch.
ST23 1-m chs, vp-orange to p-brown sap; md-gr B-F-Q gn and sch.
ST24 1-m chs, yel-gray sap; f-gr M-Q-F-G? sch.
ST25 Cos 2 white Q seams; 2-5 cm thick; in ST24.
ST26 0.6-m chs, dk-grn-gray Chl-H mafic sch; f-gr.
ST27 Cos several vuggy white Q pods in area of ST26.
ST28 1-m chs, vp- to gy-orange sap; vf-gr mica sch.
ST29 Cos several thin white Q veins in ST28.

Taylorsville quadrangle (Stilesboro SW)

ST30 1-m chs, mod-or-pink to mod-brown sap; vf-gr Q-mica sch; magnetite and G(?); laminated.
ST31 Cos 6 white to vp-orange Q seams; 1-3 cm thick; in ST30.
ST32 0.6-m chs, med-lt-gray, pw phyllite; minor Q seams and Py(?).

Tate quadrangle

T01 1-m chs, vp-orange to lt-brown, pw, f-gr mica-G sch; minor white Q seams.
T02 1-m chs, lt-gray to lt-brown sap; f-gr graph mica-G sch; minor Q seams.
T03 1-m chs, dk-yel-brown sap;; f-gr graph mica-G sch.
T04 1-m chs, gy-or-pink sandy sap; Q-mica-G sch; minor Q seams.
T05 1-m chs, lt-ol-gray, pw, md-c-gr mica-G sch; minor Q seams
T06 1-m chs, gy-orange sap; vf-gr Q-F gn, thin layered.
T07 1-m chs, vp-orange to lt-brown sap; f-gr mica-G sch.
T08 1-m chs, lt-brown sap; c-gr mica-G sch; minor Q seams and pegmatite.
T09 1-m chs, p-red-brown sap; md-gr F-mica-Q gn; minor white Q seams and M pegmatite; abu Lim stain.
T10 1-m chs, lt-med-gray, weathering vp-orange, vf-gr siliceous sch.
T11 1-m chs, mod-yel-brown sap; md-gr mica-G sch; minor white Q seams.
T12f 1-m chs, grn-gray Chl-H-F sch.
T12w 1-m chs, mod-yel-brown clayey sap; grn-gray Chl-H-F sch.

Tate quadrangle, Standard mine, T13-15
T13 Cos several pieces pk-gray vf-gr Q-M-Py sch; dump.
T14 Cos vlt-gry, laminated,vf-gr qite, some magnetite, M, Py; dump.
T15 Cos massive Py; dump.

T16 1-m chs, grn-gray, vf-gr H-F sch.
T17 1-m chs, lt-brown sap; f-gr mica sch; minor white Q seams; Swift mine.
T18 1-m chs, B-M-Q sch; minor G; Q-Py lenses.
T19 Cos med-gray, md-gr B-M-Q-G sch and Q-Py seams; 0.15 m thick.
T20 Cos pw, white Q vein, 2-15 cm thick; Py altered to Lim.
T21 Cos mod-yel-brown sap; md-gr mica-G sch; white Q seams; wallrock ST20.

Tate quadrangle, western pit of Creighton mine, T22 and 23
T22 Cos lt- to med-gray Q-mica sch; minor py; dump.
T23 Cos sheared white Q vein; minor Cc and Py; dump.

T24 1-m chs, p-red-brown sap; f-gr mica sch; abu white Q seams.
T25 1-m chs, lt-brown mafic sch sap; f-gr H-F gn(?).
T26 1-m chs, dk-yel-orange sap; md-gr mica sch; r G.
T27 1-m chs, mod-yel-brown; pw mica-G sch; abu Q lenses.
T28 1-m chs, vp- to gy-orange sap; md-gr mica sch and Q seams.
T29 1-m chs, lt-gray to mod-brown sap; vf-gr mica-G sch; partly graph.
T30 1-m chs, vp-orange to lt-gray sap; mica-G sch; partly graph; Q lenses.

Tate quadrangle, western workings, Creighton mine, T31-T33
T31 1-m chs, lt-brown sap; f-md-gr mica sch; white Q lenses; small cut.
T32 Cos several pieces from dump, fluted lt-brown to white vein Q; Lim.
T33 1-m chs, lt-brown mafic sch sap; hanging wall above T31.

T34 1-m chs, grn-brown sap; md-c-gr mica sch; minor Q lenses.
T35 Cos 1 white Q vein, 2-3 cm thick; minor Lim after Py.
T36 1-m chs, grn-brown sap; mica sch; minor Q veins, 1-3 cm thick.
T39 1-m chs, lt-brown sap; md-gr Q-F-M-G sch.
T 40 Cos 2 white to lt-brown Q veins, 1-3 cm thick; in T39.

Tallapoosa South quadrangle
TA01 0.6-m chs, f-gr graph phyllite.
TA02 Cos 4 white Q veins, 2-5 cm thick; in TA01.
TA03 0.3-m chs, lt-gray, f-gr Q-mica sch; Mn stain; minor Q lenses.
TA04 0.3-m chs, variegated red-orange clayey sap; F-Q-mica gn.
TA05 1-m chs, similar sap as TA04.
TA06 0.6-m chs, pw Q-mica sch; some Q lenses.
TA07 0.6-m chs, brown clayey sap; mafic sch(?).
TA08 0.6-m chs, Q-mica sch.
TA09 1-m chs, lt-gray to red-orange sap; vf-gr Q-mica sch.
TA10 Cos 1 Q lens, 2-10 cm thick; in TA09.
TA11 1-m chs, lt-gray, vf-gr Q-mica sch.
TA12 Cos several Q seams, 2-5 cm thick; Fe stain in vugs.
TA13 3-m chs, lt-yel-brown sap; f-gr Q-mica sch.
TA14 Cos 8 white Q lenses; from area of TA13.
TA15 1-m chs, phyllite.
TA16 6-m chs, red- to yel-brown sap; phyllite and f-gr Q-mica sch.
TA17 1-m chs, gray, pw phyllite.
TA18 Cos 3 granular Q layers in TA17.

TA19 1-m chs, lt-yel-brown sandy sap; vf-gr Q-mica sch and meta ss.
TA20 1-m chs, red-brown sandy sap; Q-mica phyllite and meta ss.
TA21 Cos 6 white, granular Q layers in meta ss of TA20.
TA22 1-m chs, gray clayey sap; graph phyllite.
TA23 Cos bleached graph phyllite and Q lenses in 0.3 m zone in TA22.
TA24 1-m chs, lt-yel-brown sandy sap; meta ss above graph phyllite of TA22.
TA25 1-m chs, red-brown to tan sandy sap; vf-gr Q-mica sch.
TA26 1-m chs, ol-gray to black phyllite.
TA27 0.6-m chs, graph phyllite.
TA28 Cos of sugary Q lenses; minor Lim in vugs; in TA27.
TA29 1.3-m chs, lt-brown sap; f-gr Q-M phyllite.
TA30 Cos Q lens, 15 cm thick; in area of TA29.
TA31 1-m chs, gy-orange sap; graph phyllite and vein Q.
TA32 Cos white granular Q lenses; 2-5 cm thick; minor Fe stain; in TA 31.
TA33 1-m chs, mod-red-orange sap; Q-F-mica sch; f-gr.
TA34 0.6-m chs, mod-yel-brown sap; Q-mica sch; some layers graph; minor G.
TA35 Cos white to gy-orange, pw Q vein; 2-10 cm thick; minor Lim; in TA34.
TA36 0.6-m chs, lt-gray to p-yel-brown, pw graph Q-mica sch; f-gr.
TA37 0.6-m chs, white Q vein in lt-gray phyllite.
TA38 2-m chs, p-red-brown sap; meta-graywacke.
TA39 Cos 4 white Q lenses; 10 cm thick; in TA38.
TA40 0.6-m chs, gy-orange sap; f-gr qite and Q-mica sch.
TA41 Cos 2 white Q veins; 2-15 cm thick; some Fe stain; in TA40.
TA42 0.6-m chs, gy-orange sap; qite and Q-mica sch; minor vein Q and Lim.
TA43 2-m chs, lt-gray to p-yel-brown, pw, f-gr Q-mica sch.
TA44 Cos 4 white Q lenses in area of TA43.
TA45 0.6-m chs, lt-brown sap; f-gr qite and Q-mica sch.
TA46 0.6m chs, p-red-brown sap; f-gr Q-mica sch; minor vein Q.
TA47 0.6-m chs, lt-brown mafic sch sap.
TA48 0.2-m chs, mod-brown sap; py-rich, f-gr Q-mica sch; abu Lim after Py.
TA49 0.6-m chs, mod-yel-brown sap; f-gr Q-mica sch; abu Lim after Py.
TA50 0.3-m chs, lt-red-brown clayey sap; southwest wall of Royal mine open cut.
TA51 1-m chs, lt-yel-brown sap; F-mafic sch(?); minor vein Q.
TA52 0.3-m chs, grn-gray, vf-gr mafic sch.
TA53 0.6-m chs, lt-brown clayey sap; minor vein Q.
TA54 1.6-m chs, p-red-brown sap; f-gr Q-mica-py sch; abu Lim after Py.
TA55 0.3-m chs, grn-gray, vf-gr Chl mafic sch.
TA56 1-m chs, mod-brown sap; f-gr Q-mica sch; minor G.
TA57 Cos several small white Q lenses in area of TA56.
TA58 2-m chs, lt-brown to med-gray, pw graph phyllite.
TA59 Cos 4 white to p-yel-brown, pw, granular Q pods; 2-15 cm thick; in TA58.
TA60 1-m chs, mod-brown to lt-gray, pw graph phyllite.
TA61 Cos several white to yel-brown Q pods in TA60.
TA62 0.6-m chs, lt-brown sap; f-gr Q-mica sch; minor graph and vein Q.
TA63 0.6-m chs, p-yel- to gy-orange sap; f-gr Q-mica sch.
TA64 1-m chs, mod-red-brown sap; f-gr mica sch.
TA65 0.6-m chs, brown sap; mica-G sch.

Villa Rica quadrangle
V01 1-m chs, lt-gray, f-gr Q-F-B-M gn; granite.
V02 0.6-m chs, p-red-purple, friable sap; vf-gr Q-mica sch.
V03 0.6-m chs, sap; m-gr M-B-Q-G sch; interlayered with V02.
V04 1-m chs, vp-orange sap; similar to V03.
V05 Cos 10 white Q veins; 2-15 cm thick, in 10 m of sch of V04.

V06 1-m chs, p-red sap; f-md-gr F-M-Q sch; minor vein Q.
V07 Cos 6 white to vp-orange Q veins; discordant in sch of V06.
V08 0.3-m chs, mod-brown sap; f-md-gr mica-G sch; minor Q veins.
V09 Cos white to vp-orange Q pods in V08.
V10 3-m chs, p-pk-gray to lt-brown sap; f-gr mica sch; minor Q seams.
V11 0.6-m chs, sap; mica-G sch.
V12 1-m chs, yel-brown sap; md-gr mica-G sch.
V13 1-m chs lt-brown to lt-gray sap; Q-M-G-graph sch; md-gr.
V14 0.3-m chs, mod-yel-brown sap; md-gr mica-G sch; minor vein Q.
V15 1-m chs, mod-brown sap; vf-gr qite and mica-G sch.
V16 0.6-m chs, lt-ol-gray sandy sap; vf-gr F-mica-Q gn.
V17 1-m chs, lt-brown mafic sap; f-gr F-H gn(?).
V18 1-m chs, gy-orange sap; f-gr F-Q gn; granite(?).
V19 1-m chs, pw, f-gr Q-F-B granitic gn.
V20 1-m chs, red-gray, pw, f-gr magnetite qite.
V21 1-m chs, br-gray, pw F-Q-B-G gn; md-gr; thin layered.
V22 1-m chs, pw M-B-Q-F-G sch and gn; md-gr.
V23 1-m chs, p-red-brown sap; mica-G sch.
V24 Cos several white to p-yel-brown Q lenses in V23.
V25 0.6-m chs, med-lt-gray, f-gr, pw magnetite qite.
V26 1-m chs, mod-brown sap; vf-gr Q-mica-magnetite sch; minor Q seams.
V27 1-m chs, mod-brown sap; f-gr mica-G sch.
V28 Co 10 white to p-yel-orange Q lenses; 2-5 cm thick; in 8 m of sch of V27.

Whitesburg quadrangle
WH1 1-m chs, gy- to mod-or-pink, streaked, sheared granitic gn; hard; brittle.
WH2 1-m chs, white, sheared Q and mica sch; weathered, friable.
Wh3 1-m chs mixed B and Chl sch; minor Q lenses and Py.

Explanation of Table 3

Table 3, which lists results of the various analyses, was formatted by computer methods by S.K. McDanal, USGS, Denever, Colo. Iron, magnesium, calcium, and titanium are reported in percent (%); the other elements in parts per million (ppm). Letters below element symbols are: s, six-step, semiquantitative spectrographic method; aa, atomic absorption; Inst, instrumental. Other symbols: N, not detected at detection limit given in text; <, less than value shown; >, greater than value shown; --, not determined. Elements looked for spectrographically but not found and the limits of detection in ppm: As, 200; Au, 10; Bi, 10; Cd, 20; Sb, 100; Sn, 10; and W, 50. Exceptions: Ag - samples CA011, CA099, 0.5 ppm; DLP103, DLP110, 0.7 ppm; AH02, AH07, DLP088, SCC06, 1.5 ppm; DLP057, 7 ppm; T15, 10 ppm; DL29, 15 ppm. Au - sample AH02, 15 ppm; DLP57, 150 ppm; DLP088, 30 ppm; SCC, 70 ppm; SCC15, 10 ppm. Bi - A26, 50 ppm; A27, 200 ppm; TA31, 20 ppm. Cd - sample DL29, 30 ppm. Sn - samples CA109, LO08, LO17, RO33, 10 ppm; WH1 15 ppm; MP01, 30 ppm.

REFERENCES CITED

Aruscavage, P.J., and Campbell, E.Y., 1983, An ion selective electrode method for the determination of chlorine in geologic materials: Talanta, v. 30, no. 10, p. 745-749.

Aruscavage, P.J., Simon, F.O., and Moore, Roosevelt, 1984, Flameless atomic absorption determination of platinum, palladium, and rhodium in geologic materials: Geostandards Newsletter, v. 8, no. 1, p. 3-6.

Baedecker, P.A., and McKown, D.M., 1987, Instrumental neutron activation analysis of geochemical materials, *in* Baedecker, P.A., ed., Methods for geochemical analysis: U.S. Geological Survey Bulletin 1770, p. H1-H14.

Engleman, E.E., Jackson, L.L., and Norton, D.R., 1985, Determination of carbonate carbon in geological materials by coulometric titration: Chemical Geology, v. 53, no. 1/2, p. 125-128.

Golightly, D.W., Dorrzapf, A.F., and Berman, Sol, 1987, Trace boron concentrations in geologic standard materials determined by fluoride volatilization arc spectrography: U.S. Geological Survey Open-File Report, 87-150, 10 p.

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

Kinkel, A. R., and Lesure, F. G., 1968, Residual enrichment and supergene migration of gold, Southeastern United States: U.S. Geological Survey Professional Paper 600-D, p. D174-D178.

Kirschenbaum, Herbert, 1983, The classical chemical analysis of rocks-- The old and the new: U.S. Geological Survey Bulletin 1547, 55 p.

Lesure, F.G.,1969a, Georgia-Dahlonega Gold Belt, *in* U.S. Geological Survey Heavy Metals Program Progress Report 1968-Field Studies: U.S. Geological Survey Circular 621, p. 17.

_____ 1969b, Trace elements in graphitic schist, Alabama and Georgia, *in* U.S. Geological Survey Heavy Metals Program Progress Report 1968--Topical studies: U.S. Geological Survey Circular 622, p. 7-8.

_____ in press, Geochemical reconnaissance of the southwestern part of the Dahlonega gold belt, Georgia: U.S. Geological Survey Miscellaneous Field Studies Map MF-2213, scales 1:48,000 and 1:100,000.

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

Peck, L.C., 1964, Systematic analysis of silicates: U.S. Geological Survey Bulletin 1170, 89 p.

Shapiro, Leonard, 1975, Rapid analysis of silicate, carbonate, and phosphate rocks--Revised edition: U.S. Geological Survey Bulletin 1401, 76 p.

Taggart, J.E., Lindsey, J.R., Scott, B.A., Vivit, D.V., Bartel, A.J., and Stewart, K.C., 1987, Analysis of geologic materials by wavelength dispersive X-ray fluorescence spectrometry, *in* Baedecker, P.A., ed., Methods for geochemical analysis: U.S. Geological Survey Bulletin 1770, p. E1-E19.

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

U.S. Geological Survey, 1968, U.S. Geological Survey Heavy Metals Program Progress Report 1966 and 1967: U.S. Geological Survey Circular 560, 24 p.

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

Table 3. - Analysis of rock and saprolite samples.
[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown.]

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
A01	33 42 50	85 17 40	5	.3	<.05	.5	1,000	100	300	2
A02	33 42 50	85 17 40	7	1	<.05	.5	1,000	70	300	2
A03	33 42 30	85 17 50	15	3	.07	.5	5,000	<10	100	1
A04	33 42 30	85 17 50	15	5	7	1	2,000	<10	30	<1
A05	33 42 0	85 18 5	10	2	.07	.3	1,500	15	500	1
A06	33 40 15	85 17 25	10	1.5	<.05	.7	150	150	2,000	2
A07	33 39 30	85 17 20	7	1	<.05	.5	150	15	3,000	2
A08	33 39 30	85 17 20	.15	.02	<.05	<.005	50	<10	70	<1
A09	33 39 0	85 17 0	10	.7	<.05	.7	1,500	15	500	1
A10	33 39 0	85 17 0	.7	.1	.05	.03	500	<10	70	<1
A11	33 38 20	85 16 30	.5	.03	.05	.02	700	<10	70	<1
A12	33 38 20	85 16 30	15	1	.3	.7	5,000	30	700	1
A13	33 38 20	85 16 30	15	.3	.07	.3	>5,000	30	500	2
A14	33 43 15	85 17 30	5	.3	<.05	.7	200	70	300	1
A15	33 45 45	85 17 30	15	5	<.05	.5	1,500	100	>5,000	5
A16	33 45 45	85 17 30	10	3	.05	1	2,000	50	2,000	2
A17	33 45 45	85 17 30	.5	.1	.05	.015	700	10	100	<1
A18	33 46 40	85 17 45	20	5	<.05	1	1,000	300	3,000	5
A19	33 46 40	85 17 45	2	.5	<.05	.02	500	<10	70	<1
A20	33 46 40	85 17 45	10	5	.05	.7	1,500	300	700	3
A21	33 33 0	85 24 0	7	1	<.05	.3	100	200	>5,000	3
A22	33 33 0	85 24 0	2	.2	<.05	.07	150	30	2,000	1
A23	33 33 0	85 24 0	15	3	.5	.7	2,000	150	>5,000	5
A24	33 26 15	85 41 45	15	7	1	1	1,500	70	5,000	3
A25	33 20 30	85 55 15	1	.05	<.05	.2	30	50	300	2
A26	33 4 30	85 51 15	15	5	3	.5	1,500	10	3,000	3
A27	33 4 30	85 51 15	10	1	.5	.15	1,500	10	1,000	2
A28	33 29 50	85 8 0	5	.2	.05	.5	3,000	<10	500	2
A29	33 29 45	85 8 30	7	.03	<.05	.5	3,000	<10	150	1
A30	33 29 45	85 8 50	7	.3	.07	.2	2,000	<10	300	1
AB1	33 29 45	85 8 0	7	.07	<.05	.5	3,000	<10	300	2
AB2	33 29 45	85 8 0	5	.07	<.05	.3	500	<10	300	<1
AB3	33 29 45	85 8 0	5	.1	.07	.2	3,000	<10	300	1
AB4	33 29 45	85 8 0	3	.05	.05	.15	3,000	<10	150	1
AB5	33 29 45	85 8 0	5	.03	<.05	.15	3,000	<10	150	<1
AB6	33 29 45	85 8 0	7	.1	<.05	.5	3,000	<10	700	1
AB7	33 29 45	85 8 0	5	.07	<.05	.3	3,000	<10	700	1
AC01	34 5 15	84 42 53	7	7	7	.1	700	N	15	N
AC02	34 3 5	84 42 5	5	1.5	.07	.3	500	N	700	1
AC03	34 3 5	84 42 5	.07	N	N	.005	50	N	200	N
AC04	34 4 40	84 43 42	1	.3	.2	.07	200	N	200	N
AC05	34 4 40	84 43 42	3	7	5	.1	700	10	10	N
AC06	34 2 23	84 41 52	N	N	N	.002	50	N	150	N
AC07	34 2 23	84 41 52	3	1.5	N	.2	300	N	500	N
AC08	34 5 43	84 43 56	15	5	5	.5	1,000	70	20	N
AC09	34 7 11	84 40 36	3	1.5	2	.3	700	N	20	N
AC10	34 7 11	84 40 36	15	3	3	.7	1,500	N	15	N
AC11	34 7 11	84 40 36	15	5	5	.7	1,000	N	5	N
AC12	34 7 11	84 40 36	15	3	5	.5	1,000	<10	150	N
AC13	34 6 32	84 39 30	7	.15	.05	.15	1,500	N	200	N
AC14	34 6 37	84 39 25	10	3	5	.15	1,000	N	300	N
AC15	34 6 35	84 39 24	.7	N	.07	.03	300	N	70	N
AC16	34 6 18	84 42 39	10	3	2	.3	700	N	15	N
AC17	34 6 13	84 42 37	7	1	N	.7	200	200	700	N
AC18	34 6 15	84 42 38	10	5	3	.5	1,500	N	15	N
AC19	34 6 33	84 39 0	2	1	N	.15	300	20	150	1
AC20	34 7 0	84 38 55	7	.7	N	.3	100	30	300	1
AC21	34 7 15	84 38 32	7	.7	N	.3	200	30	300	N
AC22	34 3 40	84 43 47	5	1.5	5	.7	1,000	N	1,000	1.5
AC23	34 3 40	84 43 47	.3	.1	.1	.03	150	N	100	<1

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s
A01	7	70	15	<20	<2	20	30	<10	7	<50	50
A02	20	20	15	70	<2	15	15	15	15	<50	20
A03	30	300	70	30	<2	15	70	10	30	<50	100
A04	70	150	15	<20	<2	<10	70	<10	30	300	200
A05	15	<5	20	20	<2	10	7	10	15	<50	30
A06	<5	150	15	30	15	20	15	100	30	200	150
A07	<5	100	30	20	20	20	15	50	15	<50	700
A08	<5	<5	15	<20	<2	<10	2	<10	<5	<50	10
A09	15	70	20	<20	<2	20	30	50	15	<50	150
A10	<7	5	15	<20	<2	10	3	<10	<5	<50	15
A11	15	<5	10	20	<2	<10	<2	10	<5	<50	15
A12	70	100	30	20	<2	30	20	70	20	50	100
A13	<5	70	100	<20	<2	30	30	<10	15	<50	150
A14	<5	30	15	20	<2	20	3	10	10	<50	70
A15	15	300	20	200	<2	30	50	150	50	500	150
A16	15	100	<2	50	<2	50	20	10	30	<50	150
A17	<5	<5	30	20	<2	<10	<2	<10	<5	<50	15
A18	15	200	20	150	<2	30	30	70	70	200	200
A19	<5	5	5	20	<2	10	<2	<10	<5	<50	20
A20	10	100	10	100	<2	20	20	30	30	100	150
A21	<5	100	70	20	50	15	15	70	50	100	2,000
A22	<5	10	15	20	15	10	<2	20	<5	<50	300
A23	15	150	10	20	100	20	50	150	30	150	500
A24	15	200	20	100	70	20	70	100	50	200	300
A25	<5	10	2	20	<2	10	10	10	<5	<50	50
A26	30	10	200	20	<2	10	10	10	30	700	100
A27	<5	5	150	<20	<2	15	<2	<10	<5	<50	70
A28	50	50	100	70	<2	<10	15	30	15	<50	70
A29	50	30	100	20	<2	<10	20	30	15	<50	100
A30	30	30	200	<20	<2	10	30	50	10	<50	100
AB1	30	50	100	<20	<2	<10	15	100	20	<50	100
AB2	<5	50	100	150	<2	<10	15	30	15	<50	100
AB3	20	50	100	<20	<2	<10	15	70	15	<50	100
AB4	10	30	100	<20	<2	<10	10	<10	7	<50	50
AB5	20	30	100	<20	<2	<10	15	30	10	<50	70
AB6	70	50	70	50	<2	<10	20	150	15	50	100
AB7	150	30	100	<20	<2	<10	20	200	15	<50	100
AC01	30	1,000	50	N	N	N	150	N	30	100	150
AC02	15	70	70	70	N	10	20	20	10	N	50
AC03	N	N	30	N	N	N	N	N	N	N	15
AC04	N	7	15	N	N	N	7	30	N	70	15
AC05	50	150	150	N	N	N	70	N	20	100	70
AC06	N	N	10	N	N	N	N	N	N	N	N
AC07	15	20	7	70	N	10	15	10	10	N	20
AC08	50	200	70	N	N	N	70	<10	30	200	150
AC09	15	70	20	N	N	N	30	N	15	50	70
AC10	70	300	100	N	N	N	100	N	30	100	200
AC11	70	500	100	N	N	N	150	N	50	150	300
AC12	50	300	70	N	N	N	70	N	30	70	300
AC13	150	7	70	N	N	N	20	N	20	<50	150
AC14	30	100	150	N	N	N	30	N	20	100	100
AC15	15	5	10	N	N	N	<2	N	N	N	20
AC16	15	100	150	N	7	N	30	N	20	<50	150
AC17	15	100	70	50	N	10	15	10	15	70	50
AC18	30	300	70	N	N	N	70	N	30	150	100
AC19	20	N	15	N	N	15	7	30	5	N	20
AC20	<10	50	15	N	N	10	20	10	10	N	70
AC21	15	150	50	N	N	N	30	15	15	<50	70
AC22	15	50	30	70	N	10	10	15	15	700	150
AC23	N	N	7	<20	N	<10	<5	<10	N	N	10

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Cu-ppm aa	Pb-ppm aa	Mo-ppm aa
A01	<50	10	<200	200	.1	.001	<10	60	20	<25	--
A02	<50	15	<200	150	.04	.02	<10	50	40	<25	--
A03	<50	70	300	150	<.02	.04	10	270	115	<25	--
A04	<50	50	200	100	<.02	.03	<10	110	50	<25	--
A05	<50	30	200	150	<.02	.03	<10	130	15	<25	--
A06	<50	7	<200	150	<.02	.02	<10	40	50	<25	--
A07	<50	7	<200	150	<.02	<.001	10	60	50	<25	--
A08	<50	<5	<200	<10	<.02	.01	<10	30	10	<25	--
A09	<50	15	<200	200	<.02	.03	<10	60	45	<25	--
A10	<50	<5	<200	50	<.02	.01	<10	40	15	<25	--
A11	<50	7	<200	<10	<.02	.01	<10	50	18	<25	--
A12	<50	30	<200	150	<.02	.01	<10	80	40	<25	--
A13	<50	15	<200	150	<.02	.02	20	105	105	<25	--
A14	<50	20	<200	150	.06	<.001	<10	40	10	<25	--
A15	<50	150	<200	150	<.02	.04	10	35	25	<25	--
A16	<50	50	<200	1,000	<.02	.07	10	40	10	<25	--
A17	<50	<5	<200	<10	<.02	.1	<10	<25	<10	<25	--
A18	<50	100	<200	300	<.02	.06	40	45	30	<25	--
A19	<50	<5	<200	20	<.02	.12	10	75	15	<25	--
A20	<50	20	<200	1,000	<.02	.05	<10	90	15	<25	--
A21	<50	30	<200	150	<.02	.06	20	<25	75	<25	--
A22	<50	50	<200	20	<.02	.04	10	<25	25	<25	--
A23	<50	50	<200	200	<.02	.21	40	50	25	<25	--
A24	<50	100	<200	300	<.02	.04	<10	55	35	<25	--
A25	<50	15	<200	300	<.02	.08	10	<25	10	<25	--
A26	<50	50	<200	150	1.91	.11	<10	<25	230	<25	--
A27	<50	<5	<200	100	5.2	.24	<10	<25	235	<25	--
A28	<50	30	<200	150	.02	<.01	<10	25	80	<25	--
A29	<50	5	<200	150	.02	<.01	<10	75	60	<25	--
A30	<50	15	<200	150	<.02	<.01	<10	25	250	<25	--
AB1	<50	15	<200	150	.14	<.01	<10	25	90	<25	--
AB2	<50	15	<200	100	.17	<.01	<10	25	60	<25	--
AB3	<50	<5	<200	100	.09	.015	<10	25	70	<25	--
AB4	<50	<5	<200	70	.02	.015	<10	<25	30	<25	--
AB5	<50	<5	<200	100	.09	<.01	<10	<25	50	<25	--
AB6	<50	<5	<200	150	.03	.015	<10	<25	40	<25	--
AB7	<50	<5	<200	150	.1	<.01	<10	100	80	<25	--
AC01	N	N	N	N	<.02	.12	<10	35	35	<25	--
AC02	N	15	N	200	<.02	.07	<10	100	25	<25	--
AC03	N	N	N	N	<.02	.18	<10	<25	100	<25	--
AC04	N	10	N	70	<.02	.025	<10	<25	50	<25	--
AC05	N	N	N	N	<.02	.1	30	<25	230	<25	--
AC06	N	N	N	N	<.02	.05	<10	<25	14	<25	--
AC07	N	15	N	150	.03	<.01	<10	65	31	<25	--
AC08	N	10	N	50	<.02	.05	<10	75	100	<25	--
AC09	N	7	N	30	<.02	.015	<10	<25	22	<25	--
AC10	N	7	N	70	<.02	<.01	<10	55	80	<25	--
AC11	N	10	N	50	<.02	.05	<10	<25	90	<25	--
AC12	N	7	N	30	<.02	.06	<10	55	65	<25	--
AC13	N	N	N	30	<.02	.06	<10	65	90	<25	--
AC14	N	7	N	20	<.02	.03	<10	30	120	<25	--
AC15	N	<5	N	N	<.02	.06	<10	75	65	<25	--
AC16	N	7	N	70	<.02	.1	<10	25	210	<25	--
AC17	N	15	N	150	<.02	.015	10	75	120	<25	--
AC18	N	10	N	50	.1	.06	<10	25	160	<25	--
AC19	N	10	N	70	<.02	.04	<10	<25	10	<25	--
AC20	N	15	N	500	<.02	.05	20	<25	32	<25	--
AC21	N	5	N	150	<.02	.015	<10	<25	50	<25	--
AC22	N	30	N	150	N	--	--	70	8	<5	2
AC23	N	<10	N	<10	N	--	--	<5	<5	<5	2

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
AH01	33 42 45	85 18 0	7	.5	<.05	.1	500	<10	500	3
AH02	33 42 45	85 18 0	7	.3	<.05	.05	1,000	<10	100	1
AH03	33 42 45	85 18 0	7	.3	<.05	.2	700	<10	150	2
AH04	33 42 45	85 18 0	7	.7	<.05	.1	1,500	10	700	5
AH05	33 42 45	85 18 0	7	.7	<.05	.1	1,500	10	500	7
AH06	33 42 45	85 18 0	7	.7	1.5	.1	700	<10	300	3
AH07	33 42 45	85 18 0	2	.3	.5	.07	700	<10	70	1
AH08	33 42 45	85 18 0	7	.5	<.05	.15	1,000	15	300	3
AH09	33 42 45	85 18 0	15	1.5	<.05	.7	3,000	15	70	1
AH10	33 42 45	85 18 0	2	.3	<.05	.07	500	<10	150	2
AH11	33 42 45	85 18 0	2	.2	<.05	.07	1,000	<10	150	2
AH12	33 42 45	85 18 0	15	7	20	.7	2,000	10	30	<1
AH13	33 42 45	85 18 0	7	1.5	1	.2	700	10	300	3
AH14	33 42 45	85 18 0	2	.3	.05	.07	150	<10	150	1
AH15	33 42 45	85 18 0	7	.7	<.05	.2	700	15	700	3
AH16	33 42 45	85 18 0	7	.3	<.05	.15	100	20	200	3
B001	33 36 52	85 15 53	5	.3	<.05	.7	100	<10	300	1
B002	33 36 52	85 15 53	.2	.05	<.05	.02	50	<10	30	N
B003	33 35 31	85 15 18	10	.7	<.05	.7	1,000	50	700	1.5
B004	33 35 31	85 15 18	10	10	10	.2	1,000	<10	20	N
B005	33 32 35	85 18 9	10	.3	.05	.7	300	70	500	1
B006	33 32 35	85 18 9	.2	.03	<.05	.01	20	<10	70	N
B007	33 32 35	85 18 7	7	.7	<.05	.7	200	100	2,000	1.5
B008	33 32 32	85 16 31	10	.5	<.05	.7	1,500	50	500	1.5
B009	33 32 32	85 16 31	.7	.05	<.05	.05	>5,000	<10	70	<1
B010	33 34 53	85 15 18	7	.5	<.05	.7	1,000	10	700	1
B011	33 35 53	85 15 18	5	.2	<.05	.7	300	<10	300	1
B012	33 34 8	85 15 8	7	1.5	.07	1	700	30	500	<1
B013	33 34 8	85 15 8	.7	.1	<.05	.05	70	<10	50	N
B014	33 33 54	85 15 4	10	10	7	.1	1,500	<10	N	N
B015	33 33 30	85 15 4	10	.5	<.05	.7	500	50	500	<1
B016	33 33 30	85 15 4	.2	.02	<.05	.02	700	<10	20	N
B017	33 33 30	85 15 4	10	.2	<.05	.2	500	<10	70	3
B018	33 33 30	85 15 4	7	.3	<.05	.7	300	30	200	<1
BI1	34 11 53	84 14 10	7	.7	<.05	1	3,000	70	700	1.5
BI2	34 12 22	84 21 37	3	.02	.07	.015	30	<10	500	1
BU01	33 54 40	85 14 25	15	2	.05	.5	700	300	1,000	5
BU02	33 51 52	85 12 50	5	.7	<.05	.5	1,000	150	500	1.5
BU03	33 51 52	85 12 50	3	.3	<.05	.02	150	10	150	<1
BU04	33 51 52	85 12 50	15	5	<.05	.5	1,000	300	1,500	7
BU05	33 51 25	85 12 40	10	3	1.5	.3	2,000	10	1,500	1
BU06	33 49 50	85 12 30	7	.5	<.05	.3	1,000	10	1,000	1
BU07	33 49 50	85 12 30	20	5	<.05	1	1,500	70	5,000	5
BU08	33 49 50	85 12 30	1	.05	<.05	.03	1,500	10	70	<1
BU09	33 47 15	85 10 20	20	2	<.05	1	2,000	300	>5,000	3
BU10	33 47 15	85 10 20	5	.5	.2	.02	700	30	1,000	1
BU11	33 46 20	85 10 20	10	1.5	<.05	.5	500	500	>5,000	3
BU12	33 46 20	85 10 20	10	.1	.05	.1	5,000	<10	1,000	1
BU13	33 46 20	85 10 20	20	1.5	<.05	.5	2,000	300	3,000	7
BU14	33 45 45	85 13 20	15	2	.05	.5	1,500	300	1,000	5
BU15	33 45 45	85 13 20	5	.7	.15	.15	1,000	10	500	1
BU16	33 49 7	85 2 40	3	.02	<.05	.015	70	<10	50	<1
BU17	33 49 7	85 2 40	3	.3	<.05	.15	700	<10	150	<1
BU18	33 47 2	85 3 50	.3	.03	<.05	.03	15	<10	70	<1
BU19	33 47 2	85 3 50	3	.15	<.05	.15	50	<10	70	<1
BU20	33 51 28	85 4 58	15	3	<.05	.15	1,500	<10	30	<1
BU21	33 51 36	85 4 10	15	.7	<.05	.3	>5,000	30	700	2
BU22	33 51 36	85 4 10	.5	.03	<.05	.03	1,500	<10	70	<1
BU23	33 51 36	85 41 0	10	N	N	.03	1,000	N	50	N
BU24	33 52 45	85 1 20	10	3	<.05	.7	2,000	<10	200	<1

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s
AH01	7	<5	15	<20	<2	15	2	<10	15	<50	20
AH02	15	20	15	<20	<2	20	3	<10	10	<50	15
AH03	10	5	10	<20	<2	15	10	10	30	<50	20
AH04	20	10	10	100	<2	20	7	<10	15	<50	20
AH05	30	10	20	100	<2	20	7	10	10	<50	30
AH06	5	<5	20	20	<2	15	5	<10	10	100	30
AH07	<5	<5	20	<20	50	20	2	10	7	50	7
AH08	15	20	30	<20	<2	20	10	10	15	<50	20
AH09	30	150	15	70	<2	15	50	15	30	<50	200
AH10	15	10	20	100	<2	15	10	10	7	<50	15
AH11	70	<5	50	<20	<2	15	7	15	7	<50	15
AH12	30	700	15	<20	<2	10	70	20	50	700	200
AH13	10	50	15	50	<2	15	30	15	15	50	50
AH14	5	15	15	70	<2	15	3	15	5	<50	15
AH15	5	7	15	200	<2	20	5	15	10	<50	30
AH16	<5	15	15	<20	<2	20	10	50	15	<50	30
B001	5	70	20	N	N	20	30	20	20	N	150
B002	<5	5	10	N	N	N	5	N	<5	N	10
B003	20	150	50	N	N	20	50	70	20	N	200
B004	100	3,000	30	20	N	N	500	N	30	N	300
B005	5	150	50	20	N	20	50	50	20	N	300
B006	<5	<5	20	N	N	N	5	N	N	N	15
B007	<5	150	100	N	5	20	30	50	30	<100	500
B008	20	150	50	<20	N	20	70	50	20	<100	300
B009	200	<5	70	N	N	N	70	N	<5	N	20
B010	100	100	30	N	N	20	20	20	20	N	200
B011	15	50	20	<20	N	10	20	20	15	N	100
B012	20	150	30	50	N	20	50	30	20	N	200
B013	N	5	30	20	N	N	10	<10	<5	N	10
B014	70	5,000	30	N	N	N	1,000	N	30	N	300
B015	15	1,000	30	N	N	20	50	50	30	N	300
B016	70	10	10	N	N	N	10	<10	<5	N	10
B017	30	1,000	30	N	N	N	150	70	50	N	300
B018	5	100	30	N	N	20	30	30	20	N	150
BI1	30	150	70	30	N	20	70	30	20	N	200
BI2	<5	<5	30	20	30	<10	5	10	<5	150	15
BU01	20	150	15	100	<2	20	30	150	50	200	150
BU02	<5	20	5	20	<2	20	5	10	10	<50	70
BU03	<5	5	7	<20	<2	10	<2	<10	<5	50	20
BU04	70	150	50	100	<2	50	50	150	50	150	200
BU05	15	30	<2	70	<2	20	20	10	15	300	150
BU06	<5	20	10	70	<2	20	7	50	20	<50	100
BU07	30	200	5	100	<2	20	70	100	7	200	200
BU08	<5	<5	2	20	<2	10	<2	<10	<5	<50	15
BU09	50	200	70	100	50	70	100	50	70	200	1,000
BU10	<5	20	5	30	<2	10	<2	10	10	<50	200
BU11	10	70	50	<20	100	20	10	20	30	50	200
BU12	150	100	70	<20	<2	10	100	100	10	<50	70
BU13	50	200	100	<20	<2	15	150	300	70	<50	200
BU14	20	100	5	100	<2	50	70	10	30	100	150
BU15	15	15	7	20	<2	10	20	<10	<5	50	30
BU16	5	<5	20	<20	<2	<10	<2	<10	<5	<50	15
BU17	7	5	20	<20	<2	<10	<2	70	10	<50	30
BU18	<5	<5	<2	<20	<2	<10	<2	<10	<5	<50	15
BU19	<5	7	<2	<20	<2	<10	2	<10	15	<50	30
BU20	70	1,000	500	<20	<2	<10	150	<10	30	<50	150
BU21	100	100	20	<20	<2	<10	70	70	30	<50	150
BU22	<5	7	2	<20	<2	<10	15	<10	<5	<50	10
BU23	70	20	70	N	N	N	15	N	7	N	30
BU24	50	300	150	N	N	N	70	70	30	N	300

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Cu-ppm aa	Pb-ppm aa	Mo-ppm aa
AH01	<50	15	<200	150	2	.01	<10	50	20	<25	--
AH02	<50	15	<200	100	15	.04	<10	45	50	<25	--
AH03	<50	10	<200	150	.2	.04	<10	40	15	<25	--
AH04	<50	50	<200	150	.2	.02	<10	70	30	<25	--
AH05	<50	30	<200	150	.4	.04	<10	40	20	<25	--
AH06	<50	30	<200	100	.4	.01	<10	65	20	<25	--
AH07	<50	15	<200	100	2.5	.07	<10	90	15	<25	--
AH08	<50	10	<200	150	.04	.03	<10	55	15	<25	--
AH09	<50	30	<200	100	.02	.07	<10	205	50	<25	--
AH10	<50	70	<200	150	.2	.04	<10	62	20	<25	--
AH11	<50	15	<200	150	.2	.02	<10	40	20	<25	--
AH12	<50	30	<200	70	.08	.001	<10	60	10	<25	--
AH13	<50	50	<200	150	.1	.03	<10	60	40	<25	--
AH14	<50	30	<200	150	.2	.02	<10	50	20	<25	--
AH15	<50	70	<200	150	.5	.04	<10	55	40	<25	--
AH16	<50	10	<200	150	1.3	.03	10	40	20	<25	--
B001	<50	<10	N	200	N	--	--	12	14	8	2
B002	N	N	N	10	N	--	--	<5	<5	<5	<2
B003	N	<10	N	300	N	--	--	20	30	28	2
B004	N	50	N	20	N	--	--	24	20	<5	2
B005	N	10	N	300	N	--	--	14	35	16	<2
B006	N	<10	N	10	N	--	--	<5	<5	<5	2
B007	70	<10	N	300	N	--	--	16	54	6	2
B008	70	10	N	300	N	--	--	18	20	12	2
B009	N	N	N	10	N	--	--	48	67	<5	2
B010	<50	<10	N	500	N	--	--	7	21	5	<2
B011	50	<10	N	500	N	--	--	8	8	14	2
B012	50	50	N	300	N	--	--	70	29	8	<2
B013	<50	<10	N	10	N	--	--	5	5	<5	2
B014	N	10	N	20	N	--	--	20	24	<5	<2
B015	<50	<10	N	300	N	--	--	14	24	16	2
B016	<50	N	N	N	N	--	--	10	11	<5	3
B017	<50	10	N	50	N	--	--	51	34	44	2
B018	N	<10	N	300	N	--	--	8	15	16	2
BI1	N	30	<200	200	.02	--	--	96	40	20	2
BI2	N	<10	N	30	N	--	--	<5	30	<5	20
BU01	<50	200	<200	700	<.02	.06	20	120	25	<25	--
BU02	<50	30	<200	1,000	<.02	.025	<10	<25	<10	<25	--
BU03	<50	<5	<200	20	<.02	.06	10	<25	<10	<25	--
BU04	<50	150	<200	500	<.02	.025	10	70	35	<25	--
BU05	<50	50	<200	500	<.02	.06	<10	<25	<10	<25	--
BU06	<50	100	<200	1,000	<.02	.04	<10	<25	15	<25	--
BU07	<50	100	<200	300	<.02	.03	10	<25	10	<25	--
BU08	<50	<5	<200	30	<.02	.06	10	<25	<10	<25	--
BU09	<50	70	<200	700	<.02	.07	20	45	40	<25	--
BU10	<50	5	<200	70	<.02	.09	30	<25	15	<25	--
BU11	<50	20	<200	150	<.02	.07	<10	<25	50	<25	--
BU12	<50	<5	<200	70	<.02	.06	10	<25	50	<25	--
BU13	<50	10	<200	150	<.02	.025	<10	60	115	<25	--
BU14	<50	100	<200	700	<.02	.04	<10	45	25	<25	--
BU15	<50	15	<200	200	<.02	.05	<10	<25	20	<25	--
BU16	<50	5	<200	<10	<.02	.06	<10	25	20	<25	--
BU17	<50	5	<200	100	<.02	.04	<10	25	60	<25	--
BU18	<50	<5	<200	150	<.02	.06	<10	50	40	<25	--
BU19	<50	5	<200	150	<.02	.015	10	25	70	<25	--
BU20	<50	10	300	15	.02	.06	<10	25	70	<25	--
BU21	<50	<5	<200	100	.05	.015	10	25	50	<25	--
BU22	<50	5	<200	<10	<.02	.015	<10	50	100	<25	--
BU23	N	5	N	<10	.07	.6	<10	25	50	<25	--
BU24	N	10	700	70	N	--	--	1,000	60	40	2

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
BU25	33 52 45	85 1 20	3	.1	<.05	.5	300	10	300	1
BU26	33 52 45	85 1 20	5	2	<.05	.3	1,000	15	700	1.5
BU27	33 52 45	85 1 20	2	.5	<.05	.1	300	20	700	2
BU28	33 52 46	85 1 25	>20	.02	<.05	.015	20	N	50	<1
BU29	33 52 26	85 1 15	7	.7	<.05	.3	300	70	1,000	3
BU30	33 52 26	85 1 15	.5	.03	<.05	.02	20	<10	70	N
BU31	33 54 2	85 1 46	5	.3	<.05	.7	100	300	1,000	3
BU32	33 54 2	85 1 46	1.5	.07	<.05	.07	30	<10	300	<1
CA001	33 38 20	85 7 34	5	.5	<.05	.15	1,000	<10	500	<1
CA002	33 38 25	85 7 37	3	.2	<.05	.15	70	<10	300	<1
CA003	33 38 25	85 7 37	2	.15	<.05	.07	70	<10	70	<1
CA004	33 38 38	85 7 50	7	.2	<.05	.1	700	<10	300	1
CA005	33 40 7	85 9 12	3	.5	<.05	.07	200	<10	150	1
CA006	33 40 7	85 9 12	5	.2	<.05	.07	300	<10	50	1
CA007	33 40 14	85 9 25	7	.7	<.05	.5	150	150	300	<1
CA008	33 40 14	85 9 25	15	1.5	<.05	.7	200	20	200	1
CA009	33 40 38	85 9 38	10	.7	.1	.7	1,500	150	500	2
CA010	33 40 38	85 9 38	.3	.07	<.05	.01	150	<10	30	<1
CA011	33 40 58	85 9 46	10	.7	<.05	.7	1,000	150	500	1
CA012	33 40 58	85 9 46	1	.1	.07	.05	500	<10	70	1
CA013	33 41 8	85 10 7	7	1.5	.3	.5	1,500	30	300	2
CA014	33 41 20	85 10 20	10	1.5	.07	.7	1,500	15	500	3
CA015	33 42 16	85 11 10	10	.7	.05	.7	1,000	70	500	3
CA016	33 42 16	85 11 10	1	.1	<.05	.03	500	100	70	1
CA017	33 42 47	85 12 45	7	.7	<.05	.3	200	100	3,000	3
CA018	33 42 47	85 12 45	7	.3	<.05	.1	150	10	1,000	2
CA019	33 44 53	85 9 25	20	1.5	<.05	1	2,000	300	1,000	3
CA020	33 44 10	85 0 20	5	.7	<.05	.7	300	<10	700	<1
CA021	33 43 50	85 0 52	.3	.07	<.05	.03	30	<10	300	<1
CA022	33 43 50	85 0 52	5	1	.07	.7	700	<10	700	1
CA023	33 43 30	85 12 20	7	1	<.05	.7	700	10	500	1
CA024	33 38 12	85 32 20	7	2	.3	.7	1,000	<10	700	<1
CA025	33 33 35	85 7 25	5	1	.15	.7	300	10	500	<1
CA026	33 33 40	85 9 15	5	1	.05	.7	300	<10	700	<1
CA027	33 33 40	85 9 15	1	.5	1.5	.15	150	<10	500	1
CA028	33 33 35	85 10 14	5	.3	<.05	.5	150	100	1,000	<1
CA029	33 33 35	85 10 14	.3	.02	<.05	.03	10	<10	70	<1
CA031	33 33 50	85 12 20	5	.7	<.05	1	700	70	700	<1
CA032	33 33 50	85 12 20	.3	.03	<.05	.05	70	<10	70	<1
CA033	33 31 42	85 12 0	7	.7	<.05	1	300	50	700	1
CA034	33 31 55	85 11 15	5	.5	<.05	.7	200	10	700	1
CA035	33 30 42	85 10 35	7	.7	.1	.7	1,000	100	300	2
CA036	33 30 10	85 10 0	5	.7	<.05	.7	700	30	500	<1
CA037	33 30 8	85 9 55	5	.05	<.05	.7	200	<10	300	<1
CA038	33 35 16	85 6 38	3	.1	<.05	.7	150	10	300	<1
CA039	33 35 16	85 6 38	.7	.02	<.05	.15	100	<10	150	<1
CA040	33 40 55	85 9 15	7	1.5	.07	.3	700	<10	700	<1
CA041	33 37 48	85 3 50	1	.2	.2	.07	50	<10	200	<1
CA042	33 37 48	85 3 50	.5	.02	<.05	.02	50	<10	50	N
CA043	33 40 25	85 3 15	5	.7	<.05	.5	500	15	700	1.5
CA044	33 40 48	85 3 15	7	.5	<.05	.7	70	100	700	2
CA045	33 40 56	85 3 37	7	.3	.05	.7	300	150	500	1
CA046	33 40 56	85 3 37	1	.03	<.05	.05	150	<10	70	N
CA048	33 41 35	85 4 0	3	.5	N	.1	30	70	500	N
CA049	33 41 35	85 4 0	1	.7	.07	.05	70	>2,000	50	N
CA050	33 35 18	85 6 25	2	.3	.15	.07	300	<10	300	2
CA051	33 35 18	85 6 25	2	.3	.15	.07	500	<10	100	1.5
CA052	33 35 40	85 7 55	.7	.2	<.05	.03	70	<10	300	<1
CA053	33 35 40	85 7 55	3	1	.05	.1	500	<10	500	<1
CA054	33 35 56	85 8 18	7	.3	<.05	.2	200	10	300	2

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s
BU25	5	50	15	N	N	10	15	20	10	N	100
BU26	30	70	100	N	7	N	30	200	20	N	200
BU27	10	10	20	N	N	N	10	15	5	N	70
BU28	70	100	100	N	N	N	20	50	5	N	30
BU29	<5	150	50	N	N	10	30	50	30	N	300
BU30	N	5	5	N	N	N	5	10	<5	N	15
BU31	N	200	50	<20	15	10	15	30	30	150	300
BU32	N	10	15	<20	N	<10	<5	<10	<5	<100	30
CA001	10	5	70	50	<2	10	7	20	7	<50	30
CA002	<5	<5	15	20	<2	10	2	10	7	<50	50
CA003	<5	<5	7	20	<2	<10	7	<10	5	<50	30
CA004	<5	<5	3	<20	<2	10	<2	<10	7	<50	5
CA005	5	<5	15	30	<2	<10	5	<10	10	<50	15
CA006	20	7	10	70	<2	10	7	<10	7	<50	30
CA007	15	50	30	20	<2	15	30	10	20	<50	70
CA008	20	300	150	70	30	10	50	<10	30	<50	200
CA009	20	150	15	20	<2	30	70	50	30	70	150
CA010	<5	<5	10	<20	<2	<10	3	<10	<5	<50	5
CA011	15	150	30	20	<2	20	50	50	30	<50	150
CA012	<5	5	7	<20	<2	<10	15	<10	5	<50	30
CA013	15	50	10	<20	<2	20	30	20	15	<50	70
CA014	30	150	15	70	<2	30	70	20	30	<50	100
CA015	20	150	15	<20	<2	30	70	30	30	<50	100
CA016	10	5	10	<20	<2	10	10	<10	5	<50	15
CA017	<5	200	50	30	50	20	20	30	30	100	1,500
CA018	<5	70	10	20	10	10	20	10	15	<50	300
CA019	50	150	20	<20	<2	50	100	100	50	100	200
CA020	10	100	70	70	<2	10	30	10	15	<50	100
CA021	<5	7	30	<20	<2	<10	2	<10	<5	<50	10
CA022	70	70	70	30	<2	10	20	10	10	70	70
CA023	70	150	100	70	<2	10	50	15	20	<50	150
CA024	30	150	20	20	<2	10	30	<10	20	100	100
CA025	15	100	50	20	<2	10	20	15	15	70	100
CA026	30	150	30	50	<2	10	50	15	20	<50	150
CA027	10	7	15	<20	<2	<10	2	15	5	1,500	15
CA028	10	100	70	20	15	<10	20	20	15	70	150
CA029	<5	<5	15	<20	<2	<10	<2	<10	<5	<50	10
CA031	30	150	50	<20	<2	10	50	15	20	50	100
CA032	<5	<5	7	<20	<2	<10	<2	<10	<5	<50	7
CA033	7	150	50	70	<2	10	30	20	30	150	150
CA034	5	70	10	<20	<2	15	15	<10	15	<50	100
CA035	20	150	20	150	<2	15	30	70	20	200	100
CA036	30	200	70	<20	<2	10	30	20	20	<50	100
CA037	<5	100	70	<20	5	<10	15	10	15	<50	150
CA038	5	70	30	<20	<2	<10	3	10	15	<50	70
CA039	<5	7	15	<20	<2	<10	<2	<10	<5	<50	15
CA040	30	70	100	70	15	<10	10	10	15	<50	20
CA041	<5	N	10	N	N	N	<5	15	<5	N	30
CA042	<5	<5	20	N	N	N	5	N	<5	N	10
CA043	10	100	100	<20	N	10	30	70	15	N	300
CA044	<5	100	50	N	15	20	10	50	30	N	300
CA045	<5	100	30	<20	N	10	20	70	20	N	300
CA046	<5	7	5	N	N	N	10	<10	<5	N	30
CA048	<5	10	30	N	N	N	5	150	15	N	70
CA049	N	<5	5	N	N	N	7	<10	5	N	30
CA050	<5	<5	<5	30	N	<10	<5	N	5	N	10
CA051	<5	<5	5	20	N	<10	<5	N	5	N	10
CA052	<5	5	<5	N	N	N	5	N	<5	N	15
CA053	10	70	30	30	<5	N	20	10	7	N	50
CA054	30	50	30	70	N	<10	100	20	15	N	150

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Cu-ppm aa	Pb-ppm aa	Mo-ppm aa
BU25	N	<10	N	300	N	--	--	8	10	16	2
BU26	N	20	300	150	.02	--	--	400	70	160	4
BU27	N	<10	N	70	.04	--	--	41	28	24	2
BU28	N	30	N	50	3.8	--	--	95	40	30	2
BU29	N	<10	N	200	N	--	--	20	30	<5	2
BU30	N	N	N	10	N	--	--	<5	<5	<5	2
BU31	N	50	N	150	N	--	--	26	38	10	12
BU32	N	<10	N	30	N	--	--	7	5	<5	2
CA001	<50	15	<200	100	<.02	.42	<10	72	70	<25	--
CA002	<50	10	<200	100	<.02	.37	<10	72	15	<25	--
CA003	<50	7	<200	100	<.02	.17	10	70	15	<25	--
CA004	<50	10	<200	150	<.02	.36	<10	45	18	<25	--
CA005	<50	30	<200	100	<.02	.12	<10	40	45	<25	--
CA006	<50	50	<200	150	<.02	.07	<10	40	20	<25	--
CA007	<50	20	<200	150	<.02	.08	<10	50	40	<25	--
CA008	<50	30	<200	100	<.02	.18	<10	60	290	<25	--
CA009	<50	15	<200	150	<.02	.11	<10	50	40	<25	--
CA010	<50	<5	<200	<10	<.02	.03	<10	40	<10	<25	--
CA011	<50	20	<200	150	<.02	.03	<10	70	60	<25	--
CA012	<50	7	<200	10	<.02	.03	<10	45	15	<25	--
CA013	<50	30	<200	150	<.02	.01	<10	125	30	<25	--
CA014	<50	30	<200	200	<.02	.04	<10	145	40	<25	--
CA015	<50	15	<200	300	<.02	.03	<10	45	30	<25	--
CA016	<50	5	<200	70	<.02	.001	10	42	10	<25	--
CA017	<50	7	<200	100	<.02	.03	<10	55	70	<25	--
CA018	<50	5	<200	70	<.02	.03	<10	92	40	<25	--
CA019	<50	20	<200	500	<.02	.025	<10	40	25	<25	--
CA020	<50	20	<200	300	.02	.04	<10	25	60	<25	--
CA021	<50	7	<200	30	<.02	.04	<10	50	90	<25	--
CA022	<50	30	<200	300	<.02	.04	<10	<25	140	<25	--
CA023	<50	50	200	300	<.02	.03	<10	<25	<10	<25	--
CA024	<50	30	<200	500	<.02	.09	<10	25	30	<25	--
CA025	<50	30	<200	500	<.02	.06	<10	25	20	<25	--
CA026	<50	30	<200	500	<.02	.025	<10	25	30	<25	--
CA027	<50	7	<200	150	<.02	.015	<10	<25	30	<25	--
CA028	<50	<5	<200	200	<.02	<.01	10	<25	60	<25	--
CA029	<50	5	<200	10	<.02	.025	<10	<25	30	<25	--
CA031	<50	10	<200	500	<.02	<.01	<10	<25	80	<25	--
CA032	<50	<5	<200	10	<.02	.025	<10	25	20	<25	--
CA033	<50	7	<200	200	<.02	.025	<10	<25	<10	<25	--
CA034	<50	7	<200	700	<.02	.015	<10	25	90	<25	--
CA035	<50	50	<200	300	<.02	.015	<10	25	50	<25	--
CA036	<50	30	<200	200	<.02	.015	<10	<25	60	<25	--
CA037	<50	<5	<200	500	<.02	.015	<10	25	40	<25	--
CA038	<50	7	<200	700	<.02	.025	<10	<25	30	<25	--
CA039	<50	<5	<200	200	<.02	.025	<10	<25	20	<25	--
CA040	<50	70	<200	300	<.02	<.01	<10	100	30	<25	--
CA041	N	N	N	100	N	--	--	32	8	6	2
CA042	N	N	N	N	N	--	--	5	26	<5	2
CA043	N	20	N	150	N	--	--	58	50	16	4
CA044	N	N	N	300	N	--	--	6	34	<5	10
CA045	N	10	N	200	N	--	--	18	27	24	2
CA046	N	N	N	30	N	--	--	<5	8	<5	<2
CA048	N	N	N	100	N	--	--	32	48	40	2
CA049	N	N	N	20	N	--	--	6	6	<5	2
CA050	N	50	N	300	N	--	--	29	<5	<5	2
CA051	N	50	N	300	N	--	--	32	<5	<5	2
CA052	N	N	N	30	N	--	--	38	5	<5	2
CA053	N	15	<200	100	N	--	--	170	18	8	2
CA054	N	50	<200	100	N	--	--	50	22	6	2

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
CA055	33 35 56	85 8 18	3	.1	<.05	.15	500	<10	70	<1
CA059	33 36 42	85 10 8	.7	.02	<.05	.05	30	<10	20	N
CA060	33 36 42	85 10 8	3	.1	<.05	.2	100	<10	100	<1
CA061	33 38 10	85 11 25	10	.5	<.05	.5	300	70	500	1
CA062	33 38 10	85 11 25	.5	.03	<.05	.05	20	10	50	N
CA063	33 38 15	85 12 5	3	.7	.2	.3	500	<10	300	1
CA064	33 38 28	85 12 30	5	.5	<.05	.7	200	15	200	<1
CA065	33 38 28	85 12 30	.3	.05	<.05	.03	20	<10	70	N
CA066	33 39 0	85 12 48	7	.3	.05	.7	500	300	300	1.5
CA067	33 39 0	85 12 48	.5	.1	<.05	.05	30	150	50	N
CA068	33 39 0	85 12 48	10	.5	.07	.5	500	70	300	1
CA069	33 39 3	85 13 10	5	.5	<.05	.5	150	10	300	<1
CA070	33 39 3	85 13 10	.5	.05	<.05	.03	50	<10	50	N
CA071	33 39 5	85 13 17	2	.7	<.05	.15	700	<10	100	N
CA072	33 39 5	85 13 17	10	2	5	.3	700	<10	70	N
CA073	33 39 5	85 13 17	.5	.03	.05	.02	200	<10	20	N
CA074	33 39 2	85 14 7	5	.15	<.05	.3	150	50	300	<1
CA075	33 39 2	85 14 7	.3	.02	<.05	.03	20	<10	20	N
CA076	33 39 12	85 14 30	5	.2	<.05	.5	500	30	300	1
CA077	33 39 12	85 14 30	.3	.05	<.05	.07	50	<10	20	N
CA078	33 39 56	85 14 55	10	.3	<.05	1	300	50	500	1
CA079	33 39 56	85 14 55	1	.05	<.05	.7	150	<10	70	N
CA080	33 41 54	85 10 42	7	.7	<.05	.7	1,000	70	500	2
CA081	33 41 54	85 10 42	1	.1	<.05	.15	1,000	<10	100	<1
CA082	33 41 54	85 10 42	.7	.05	<.05	.015	700	10	70	3
CA083	33 43 0	85 13 28	5	.5	<.05	.5	300	50	1,000	2
CA084	33 43 0	85 13 28	.3	.02	<.05	.02	50	<10	100	N
CA085	33 43 24	85 13 54	5	1	N	>1	50	100	2,000	2
CA086	33 43 24	85 13 54	2	.2	<.05	.15	30	15	700	1
CA087	33 43 24	85 13 54	3	.2	<.05	.5	200	50	1,000	1.5
CA088	33 43 44	85 14 10	10	1	1	.5	1,500	<10	70	N
CA089	33 43 56	85 14 22	5	.3	<.05	.7	700	150	500	3
CA090	33 44 6	85 14 58	.3	.15	<.05	.07	70	20	200	2
CA091	33 44 6	85 14 58	10	.5	<.05	1	200	70	500	3
CA092	33 44 6	85 14 58	1.5	.07	<.05	.07	30	<10	100	<1
CA093	33 37 10	85 10 48	1.5	.03	<.05	.1	70	<10	150	<1
CA094	33 37 10	85 10 48	2	.02	.05	.05	20	<10	70	N
CA095	33 34 35	85 11 50	.2	.03	<.05	.02	20	<10	50	N
CA096	33 34 35	85 11 50	7	.3	<.05	.7	200	50	500	1
CA097	33 30 52	85 14 10	10	.7	<.05	1	200	100	2,000	1.5
CA098	33 30 52	85 14 10	.5	.02	<.05	.07	30	<10	70	N
CA099	33 30 48	85 14 4	7	.7	<.05	.7	200	50	1,500	1
CA100	33 30 8	85 13 10	7	.7	<.05	.7	700	30	500	<1
CA101	33 30 12	85 4 45	5	.5	<.05	.5	70	100	700	1
CA102	33 30 12	85 4 45	.3	.03	<.05	.07	50	<10	70	N
CA103	33 33 35	85 11 15	10	.7	<.05	.7	200	200	2,000	3
CA104	33 33 35	85 11 15	.5	.02	<.05	.015	10	<10	70	N
CA105	33 30 20	85 9 33	7	.1	.07	.3	500	<10	100	<1
CA106	33 30 2	85 9 35	7	.7	<.05	.3	700	<10	300	<1
CA107	33 30 2	85 9 35	.3	.02	<.05	.02	50	<10	20	N
CA109	33 31 10	85 4 35	1	.3	.2	.05	500	<10	200	10
CA110	33 33 9	85 1 54	5	.5	<.05	.5	500	50	300	2
CA111	33 33 9	85 1 54	3	.1	<.05	.5	300	15	300	<1
CA112	33 33 56	85 4 40	10	1.5	3	.2	1,000	<10	100	N
CA113	33 34 2	85 2 50	2	.05	<.05	.07	70	<10	70	N
CA114	33 34 2	85 2 50	1.5	.02	<.05	.01	20	<10	20	N
CA115	33 34 46	85 2 32	10	.7	<.05	1	150	20	1,000	3
CA116	33 34 46	85 38 18	7	1	<.05	1	1,500	70	700	1.5
CA117	33 34 46	85 38 18	.07	.07	<.05	.2	150	<10	100	<1
CAM01	33 42 43	84 39 56	.7	.03	<.05	.3	10	<10	700	<1

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s
CA055	5	50	20	20	N	N	30	10	20	N	70
CA059	<5	<5	<5	N	N	N	5	N	<5	N	20
CA060	<5	30	7	N	N	N	15	<10	10	N	150
CA061	5	150	30	N	N	10	30	50	30	100	300
CA062	<5	<5	<5	N	N	N	5	<10	<5	N	20
CA063	10	50	10	20	N	N	20	30	7	<100	150
CA064	15	70	50	20	N	10	30	50	20	N	200
CA065	<5	<5	<5	N	N	N	5	<10	<5	N	10
CA066	20	70	30	N	N	10	50	30	20	N	200
CA067	5	<5	5	N	N	N	7	N	<5	N	15
CA068	15	150	70	N	N	10	50	70	20	<100	300
CA069	10	50	30	30	N	10	30	30	15	N	150
CA070	5	<5	5	N	N	N	10	<10	<5	N	15
CA071	10	50	15	N	N	N	15	15	15	N	150
CA072	30	150	20	30	N	N	50	10	30	200	500
CA073	20	7	<5	N	N	N	7	N	5	N	15
CA074	5	50	30	<20	N	10	20	20	20	N	150
CA075	<5	<5	<5	N	N	N	7	N	<5	N	15
CA076	15	70	30	N	N	10	20	10	10	N	150
CA077	<5	5	<5	N	N	N	7	N	<5	N	15
CA078	10	200	70	N	N	20	50	50	30	N	300
CA079	<5	10	<5	N	N	N	10	N	5	N	20
CA080	30	150	70	70	N	20	50	30	20	N	300
CA081	30	10	5	<20	N	N	15	10	5	N	20
CA082	20	5	30	<20	N	N	70	70	<5	N	10
CA083	5	70	30	30	5	10	15	30	15	<100	200
CA084	<5	<5	<5	N	N	<10	5	N	<5	N	10
CA085	<5	150	50	70	20	20	15	50	30	100	500
CA086	<5	20	10	N	N	<10	5	10	7	N	50
CA087	7	70	30	50	N	20	70	30	10	<100	200
CA088	50	700	100	N	N	N	100	N	30	N	300
CA089	10	70	30	70	N	20	70	50	20	<100	200
CA090	<5	<5	7	N	N	<10	5	70	<5	N	10
CA091	5	200	50	20	N	15	30	50	30	N	300
CA092	N	5	5	20	N	N	5	N	<5	N	15
CA093	5	<5	7	N	N	N	5	N	5	N	30
CA094	<5	<5	15	N	N	N	5	N	5	N	50
CA095	N	<5	7	100	N	N	5	<10	<5	N	15
CA096	5	100	100	<20	N	20	30	30	30	N	200
CA097	5	150	100	N	30	20	20	70	30	<100	300
CA098	N	5	<5	N	N	N	5	N	<5	N	10
CA099	7	150	30	30	10	20	15	50	30	100	300
CA100	30	150	100	20	N	10	70	30	30	N	200
CA101	<5	70	15	50	N	10	15	30	20	N	150
CA102	N	<5	7	<20	N	<10	5	N	<5	N	10
CA103	<5	150	50	N	5	10	10	70	30	100	300
CA104	N	5	<5	N	N	N	5	N	<5	N	10
CA105	20	20	30	<20	N	N	20	10	30	N	300
CA106	10	100	30	N	N	10	15	50	20	N	200
CA107	<5	5	<5	N	N	N	5	N	<5	N	10
CA109	<5	5	5	N	N	10	5	30	<5	100	10
CA110	15	70	30	20	N	10	15	20	15	N	200
CA111	5	7	10	20	N	10	5	<10	10	N	70
CA112	20	5	7	N	N	N	5	N	30	<100	300
CA113	<5	<5	5	N	N	N	<5	10	5	N	30
CA114	<5	5	30	N	N	N	5	N	<5	N	10
CA115	<5	200	70	N	5	10	15	50	30	N	700
CA116	30	150	30	70	N	15	30	30	30	<100	150
CA117	<5	5	15	<20	N	<10	10	<10	<5	<100	30
CAM01	N	<5	30	30	20	<10	5	<10	<5	N	20

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Cu-ppm aa	Pb-ppm aa	Mo-ppm aa
CA055	N	15	N	150	N	--	--	24	10	8	2
CA059	N	N	N	20	N	--	--	5	<5	<5	2
CA060	N	N	N	100	N	--	--	12	9	6	3
CA061	N	10	N	200	N	--	--	13	22	8	2
CA062	N	N	N	30	N	--	--	<5	5	<5	2
CA063	N	15	N	200	N	--	--	65	8	8	2
CA064	N	20	N	300	N	--	--	41	28	14	<2
CA065	N	N	N	10	N	--	--	<5	<5	<5	<2
CA066	N	15	N	200	N	--	--	24	26	8	<2
CA067	N	N	N	10	N	--	--	5	5	<5	<2
CA068	N	20	N	200	N	--	--	20	40	10	<2
CA069	N	20	N	300	N	--	--	44	18	12	2
CA070	N	N	N	10	N	--	--	60	9	<5	<2
CA071	N	N	200	30	N	--	--	240	18	28	2
CA072	N	30	N	30	N	--	--	13	20	<5	<2
CA073	N	N	N	10	N	--	--	<5	5	<5	<2
CA074	N	N	N	200	N	--	--	10	16	16	2
CA075	N	N	N	N	N	--	--	<5	<5	<5	2
CA076	N	<10	N	300	N	--	--	12	28	<5	2
CA077	N	N	N	10	N	--	--	<5	<5	<5	2
CA078	N	10	N	300	N	--	--	12	30	14	2
CA079	N	N	N	30	N	--	--	<5	5	<5	2
CA080	N	50	N	300	N	--	--	60	34	12	<2
CA081	N	<10	N	100	N	--	--	15	<5	<5	2
CA082	N	<10	N	10	N	--	--	12	<5	18	<2
CA083	N	10	N	300	N	--	--	9	24	10	4
CA084	N	N	N	10	N	--	--	<5	<5	<5	<2
CA085	N	50	N	300	N	--	--	<5	26	<5	4
CA086	N	<10	N	70	N	--	--	8	6	<5	16
CA087	N	50	N	300	N	--	--	6	11	10	<2
CA088	N	20	N	50	N	--	--	52	62	8	<2
CA089	N	70	N	500	N	--	--	43	16	12	<2
CA090	N	<10	N	200	N	--	--	<5	<5	32	<2
CA091	N	30	N	300	N	--	--	23	16	8	<2
CA092	N	<10	N	30	N	--	--	<5	<5	<5	<2
CA093	N	<10	N	200	N	--	--	5	<5	5	<2
CA094	N	<10	N	30	N	--	--	<5	<5	<5	2
CA095	N	<10	N	10	N	--	--	<5	<5	<5	2
CA096	N	10	N	300	N	--	--	9	19	6	<2
CA097	<50	<10	N	300	N	--	--	10	46	8	16
CA098	50	<10	N	N	N	--	--	<5	<5	<5	2
CA099	N	10	N	200	N	--	--	14	32	6	<2
CA100	N	20	N	300	N	--	--	35	48	12	2
CA101	N	15	N	300	N	--	--	12	8	18	2
CA102	N	<10	N	N	N	--	--	<5	<5	<5	2
CA103	N	10	N	150	N	--	--	15	34	16	4
CA104	N	<10	N	N	N	--	--	<5	<5	<5	2
CA105	N	<10	N	70	N	--	--	14	14	6	<2
CA106	N	N	N	150	N	--	--	22	22	22	2
CA107	N	N	N	N	N	--	--	<5	<5	<5	2
CA109	N	N	N	50	N	--	--	38	<5	<5	4
CA110	N	15	N	100	N	--	--	14	17	10	4
CA111	N	15	N	700	N	--	--	6	<5	<5	4
CA112	N	15	N	50	N	--	--	30	7	<5	4
CA113	N	N	N	50	N	--	--	<5	<5	8	4
CA114	N	N	N	N	N	--	--	<5	36	<5	4
CA115	N	15	N	150	N	--	--	22	30	8	8
CA116	N	20	<200	300	N	--	--	39	22	20	2
CA117	N	<10	N	70	N	--	--	5	<5	<5	2
CAM01	N	<10	N	700	N	--	--	<5	<5	<5	16

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
CAM02	33 42 31	84 40 10	.3	.05	<.05	.2	10	<10	3,000	<1
CAM03	33 41 39	84 38 31	15	1.5	.05	>1	3,000	70	3,000	3
CAM04	33 41 50	84 38 52	15	2	<.05	>1	>5,000	300	3,000	3
CAM05	33 42 42	84 39 48	15	1.5	.07	>1	1,500	150	1,000	1.5
CAM06	33 42 39	84 40 34	7	.3	<.05	1	300	30	700	1
CAM07	33 42 48	84 40 42	15	.3	<.05	>1	>5,000	<10	300	1
CAM08	33 42 48	84 40 42	3	.07	<.05	.3	150	<10	300	<1
CAM09	33 42 48	84 40 42	1.5	.07	<.05	.07	1,500	<10	70	<1
CAM10	33 42 48	84 40 42	1.5	.07	<.05	.15	150	30	700	<1
CAM11	33 42 48	84 40 42	7	1	<.05	1	1,500	300	1,000	1.5
CAM12	33 43 36	84 41 33	7	.7	<.05	1	1,500	70	1,000	1.5
CAM13	33 43 44	84 41 38	1.5	.3	.3	>1	700	N	200	2
CAM14	33 43 36	84 41 33	1	.07	<.05	.15	150	N	300	<1
CN01	34 13 52	84 29 24	5	1.5	1	.7	500	--	700	1.5
CN03	34 13 20	84 29 55	7	.7	3	.3	700	--	300	1.5
CN04	34 15 0	84 24 38	7	.3	.03	.5	100	--	1,000	2
CN05	34 11 45	84 29 58	7	.15	<.05	1	1,500	10	70	<1
CN06	34 11 40	84 29 45	5	.3	.07	.7	700	30	700	3
CN07	34 11 40	84 29 45	1.5	.07	.07	.07	500	N	100	<1
CN08	34 11 24	84 29 21	3	.15	<.05	>1	300	<10	300	<1
CN09	34 11 24	84 29 21	1.5	.05	<.05	.1	30	<10	700	<1
CN10	34 11 18	84 28 10	5	1	<.05	.7	1,000	<10	1,000	<1
CN11	34 12 15	84 28 21	7	.7	1.5	1	1,500	150	1,000	3
CN12	34 13 14	84 27 55	7	.07	.07	1	1,500	300	700	3
CN13	34 13 14	84 27 55	.3	.7	<.05	.03	50	N	70	<1
CN14	34 12 30	84 25 49	5	.3	1.5	.7	1,000	<10	700	1.5
CN15	34 14 7	84 24 40	7	.03	<.05	1	1,500	100	1,000	<1
CN16	34 13 24	84 24 42	.7	1.5	.7	.03	150	N	70	<1
CN17	34 13 24	84 24 42	15	1	.05	>1	3,000	10	700	2
DL01	33 45 42	84 54 5	7	.03	.07	.5	700	<10	70	<1
DL02	33 45 28	84 54 8	1.5	.7	2	.15	150	<10	150	<1
DL03	33 45 8	84 53 0	3	.05	<.05	.15	150	<10	100	<1
DL04	33 51 45	84 59 35	7	2	1.5	.7	3,000	150	7	<1
DL05	33 57 35	84 59 47	7	1.5	<.05	.7	1,000	20	700	2
DL06	33 56 10	84 59 50	7	1	<.05	.7	300	30	700	3
DL07	33 55 40	84 59 50	20	.5	<.05	.5	10	100	700	1
DL08	33 55 25	84 57 40	5	.3	<.05	.7	500	70	500	1
DL09	33 47 15	84 58 10	3	.7	1.5	.15	300	<10	500	<1
DL10	33 54 55	84 55 6	2	.3	.05	.15	200	N	150	2
DL11	33 53 2	84 58 15	1	.05	<.05	.07	>5,000	<10	500	<1
DL12	33 53 2	84 58 15	10	.2	<.05	.5	>5,000	<10	300	1
DL13	33 53 2	84 58 15	10	.02	<.05	.7	2,000	N	100	<1
DL14	33 53 2	84 58 15	5	.2	<.05	.15	2,000	10	150	1
DL15	33 45 22	84 53 2	1.5	.3	3	.3	300	N	150	<1
DL16	33 45 15	84 52 42	3	.3	1.5	.3	200	<10	200	<1
DL17	33 45 14	84 52 30	3	.5	.07	.3	200	<10	150	<1
DL23	33 45 3	84 53 40	15	>10	3	.03	3,000	<10	15	N
DL25	33 45 16	84 54 55	1.5	.03	.7	.03	500	N	100	<1
DL27	33 45 15	84 58 40	7	>10	1.5	.03	700	<10	<20	N
DL28	33 45 15	84 53 0	3	.5	.3	.3	300	N	300	<1
DL29	33 46 0	84 53 50	>20	1.5	7	.15	3,000	30	200	<1
DL30	33 49 0	84 54 47	15	1	2	.5	>5,000	10	200	<1
DL31	33 49 0	84 54 47	7	2	5	.5	1,500	<10	300	<1
DL32	33 49 0	84 54 47	7	1.5	<.05	1	2,000	150	700	2
DL33	33 49 0	84 55 29	1.5	.15	<.05	.15	500	N	150	3
DL34	33 49 0	84 55 29	<.05	<.02	<.05	.01	30	N	50	<1
DL35	33 50 46	84 58 8	7	1.5	.3	1	1,500	<10	700	3
DL36	33 50 46	84 58 8	.7	.07	<.05	.05	500	N	150	<1
DL37	33 51 10	84 56 20	7	.5	<.05	.7	300	200	700	3
DL38	33 51 10	84 56 20	1.5	.1	<.05	.3	100	15	300	<1

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s
CAM02	N	10	20	30	N	10	5	<10	N	N	20
CAM03	15	200	200	70	30	10	70	70	30	<100	300
CAM04	30	300	100	50	N	15	150	100	30	<100	300
CAM05	50	300	200	150	N	20	150	30	30	<100	300
CAM06	<5	100	50	30	N	15	10	10	15	<100	150
CAM07	30	10	150	150	N	15	15	10	70	<100	300
CAM08	<5	10	20	50	N	10	<5	<10	<5	<100	30
CAM09	10	<5	30	<20	N	<10	7	10	<5	N	<10
CAM10	N	10	30	<20	N	<10	5	<10	N	<100	30
CAM11	30	150	70	70	N	15	20	30	30	<100	200
CAM12	15	150	30	30	N	15	10	15	15	<100	150
CAM13	N	5	20	20	N	15	5	30	70	N	30
CAM14	<5	<5	15	30	N	<10	5	<10	<5	<100	20
CN01	10	70	10	100	N	10	15	200	--	300	150
CN03	15	150	100	30	N	N	30	50	--	300	300
CN04	7	150	50	70	10	10	7	70	--	200	200
CN05	20	15	30	<20	N	<10	10	10	50	N	150
CN06	20	150	50	70	N	20	20	30	15	200	150
CN07	10	10	20	<20	N	<10	10	<10	5	<100	20
CN08	<5	70	30	50	N	30	15	30	15	N	100
CN09	10	15	5	30	N	<10	7	<10	<5	<100	20
CN10	20	150	70	100	N	20	50	50	30	N	150
CN11	15	150	30	20	N	20	20	20	20	200	150
CN12	100	200	150	<20	N	20	150	30	30	<100	300
CN13	<5	<5	15	<20	N	<10	5	<10	<5	N	15
CN14	10	70	30	50	N	20	15	15	15	150	150
CN15	15	150	50	<20	N	20	20	30	15	<100	150
CN16	<5	<5	15	<20	N	<10	<5	<10	<5	<100	30
CN17	100	300	70	70	N	20	150	20	50	<100	300
DL01	30	70	50	<20	<2	<10	15	<10	30	<50	200
DL02	<5	<5	30	<20	<2	<10	<2	<10	<5	1,000	15
DL03	5	300	30	<20	<2	<10	150	<10	10	<50	50
DL04	30	<5	200	<20	<2	<10	2	<10	30	70	150
DL05	30	100	70	150	<2	15	70	10	15	<50	200
DL06	<5	70	30	<20	<2	10	7	10	20	<50	150
DL07	<5	150	50	30	15	<10	30	70	30	<50	200
DL08	50	30	50	100	<2	10	20	<10	15	<50	70
DL09	<5	<5	15	<20	<2	<10	<2	<10	5	300	70
DL10	10	5	10	150	N	15	3	30	N	50	15
DL11	150	15	30	N	N	N	70	N	15	<100	200
DL12	100	70	150	20	N	<10	150	70	30	N	300
DL13	70	300	50	N	N	N	100	15	50	N	500
DL14	20	30	15	20	N	N	30	10	5	N	50
DL15	<5	N	10	<20	N	<10	<5	<10	<5	700	30
DL16	<5	N	5	<20	N	<10	5	10	<5	300	30
DL17	<5	50	10	<20	N	<10	10	10	<5	<100	50
DL23	150	>5,000	50	<20	N	<10	1,500	10	<5	N	20
DL25	N	<5	30	<20	N	<10	5	<10	N	<100	30
DL27	150	3,000	5	<20	N	10	3,000	<10	5	N	15
DL28	10	50	15	30	N	<10	10	15	5	100	50
DL29	150	7	700	<20	30	10	2	1,500	5	50	50
DL30	30	100	200	20	N	15	70	15	20	N	200
DL31	20	100	30	<20	N	10	15	10	30	150	300
DL32	30	200	70	30	N	15	30	30	30	<100	300
DL33	<5	5	20	<20	N	30	10	30	5	N	20
DL34	<5	<5	5	<20	N	<10	5	<10	<5	N	10
DL35	30	200	150	70	N	15	150	20	15	N	150
DL36	15	<5	30	70	N	<10	10	10	<5	N	20
DL37	<5	150	50	70	15	15	15	30	30	150	300
DL38	N	20	20	30	N	10	10	10	7	<100	100

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Cu-ppm aa	Pb-ppm aa	Mo-ppm aa
CAM02	N	<10	N	300	N	--	--	<5	<5	<5	4
CAM03	N	70	<200	300	N	--	--	18	46	12	20
CAM04	N	70	<200	300	N	--	--	100	20	18	6
CAM05	N	70	<200	300	N	--	--	100	70	14	4
CAM06	N	30	<200	700	N	--	--	14	12	10	4
CAM07	N	200	<200	300	N	--	--	15	24	8	3
CAM08	N	<10	N	1,000	N	--	--	6	<5	<5	2
CAM09	N	N	N	150	N	--	--	<5	<5	10	2
CAM10	N	N	N	1,000	N	--	--	<5	5	<5	3
CAM11	N	50	N	300	N	--	--	51	34	10	4
CAM12	N	<10	N	150	N	--	--	9	6	8	3
CAM13	N	30	N	70	N	--	--	13	<5	8	4
CAM14	N	<10	N	300	N	--	--	<5	<5	<5	2
CN01	N	100	N	300	<.02	1.2	10	90	15	<25	--
CN03	N	50	N	100	<.02	.21	<10	<25	120	<25	--
CN04	N	30	N	150	<.02	.53	<10	<25	25	<25	--
CN05	N	70	N	300	N	--	--	46	15	6	2
CN06	N	30	N	200	N	--	--	22	32	6	2
CN07	N	10	N	20	N	--	--	5	7	<5	2
CN08	N	15	N	700	N	--	--	17	5	26	2
CN09	N	<10	N	70	N	--	--	<5	<5	<5	2
CN10	N	50	<200	500	N	--	--	170	24	30	2
CN11	N	30	<200	300	N	--	--	68	9	6	2
CN12	N	70	<200	300	N	--	--	95	50	10	4
CN13	N	<10	N	20	N	--	--	<5	5	<5	3
CN14	N	30	N	200	N	--	--	36	21	<5	3
CN15	N	<10	N	500	N	--	--	15	20	10	2
CN16	N	<10	N	<10	N	--	--	<5	<5	<5	2
CN17	N	70	200	300	N	--	--	68	22	16	2
DL01	<50	5	<200	100	.03	.025	<10	25	20	<25	--
DL02	<50	<5	<200	70	<.02	.015	<10	25	10	<25	--
DL03	<50	<5	<200	50	.06	<.01	<10	25	30	<25	--
DL04	<50	50	300	150	.02	.21	<10	150	30	<25	--
DL05	<50	200	200	300	.03	<.01	<10	150	20	<25	--
DL06	<50	7	<200	300	.03	.1	<10	75	30	<25	--
DL07	<50	15	200	150	<.02	<.01	10	25	30	<25	--
DL08	<50	50	<200	700	.02	.05	<10	25	20	<25	--
DL09	<50	<5	<200	100	<.02	.015	<10	25	30	<25	--
DL10	N	30	N	100	.02	.4	<10	<25	<10	<25	--
DL11	N	20	N	<10	N	--	--	32	32	<5	2
DL12	N	50	N	200	N	--	--	43	58	36	2
DL13	N	<10	N	70	N	--	--	60	26	12	<2
DL14	N	10	N	50	N	--	--	20	11	<5	<2
DL15	N	N	N	150	N	--	--	27	<5	<5	2
DL16	N	N	N	150	N	--	--	27	<5	12	2
DL17	N	<10	N	150	N	--	--	20	<5	5	<2
DL23	N	<10	<200	N	.02	--	--	13	26	8	2
DL25	N	N	N	N	.6	--	--	<5	<5	<5	4
DL27	N	N	N	N	.02	--	--	7	<5	<5	2
DL28	N	<10	N	150	N	--	--	35	<5	10	2
DL29	N	30	>10,000	70	.2	--	--	14,000	600	800	4
DL30	N	30	<200	100	N	--	--	76	120	20	3
DL31	N	20	N	70	N	--	--	35	18	<5	2
DL32	N	100	N	300	N	--	--	70	27	6	3
DL33	N	30	<200	30	N	--	--	13	<5	10	2
DL34	N	15	<200	N	N	--	--	<5	<5	<5	2
DL35	N	50	<200	700	N	--	--	160	43	12	2
DL36	N	20	N	20	N	--	--	8	16	<5	2
DL37	N	20	N	200	N	--	--	41	30	10	16
DL38	N	<10	N	70	N	--	--	8	<5	<5	3

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
DL39	33 51 40	84 54 45	7	1.5	10	.7	2,000	70	70	<1
DL40	33 53 40	84 52 50	1.5	.3	3	.15	150	N	300	<1
DL41	33 56 50	84 54 26	7	1.5	<.05	>1	1,500	<10	700	1
DL42	33 56 30	84 55 25	7	1.5	1.5	.7	1,500	30	700	3
DL43	33 58 55	84 53 0	10	1.5	.15	>1	2,000	<10	1,000	1
DL44	33 58 55	84 53 0	2	.5	<.05	.7	1,000	N	300	<1
DL45	33 59 10	84 53 33	15	7	10	>1	5,000	<10	100	<1
DL46	33 59 10	84 53 33	1.5	.3	.5	.5	700	N	70	<1
DL47	33 59 9	84 53 38	5	.7	.5	.3	1,500	<10	300	1.5
DL48	33 59 9	84 53 38	.7	.15	.05	.07	300	N	150	<1
DLP001	33 45 12	84 53 10	.7	.7	<.05	.15	30	10	700	<1
DLP002	33 45 12	84 53 10	1	.5	<.05	.1	30	<10	700	<1
DLP003	33 45 12	84 53 10	3	.3	<.05	.15	15	<10	300	<1
DLP004	33 45 12	84 53 10	2	.1	<.05	.07	10	<10	300	<1
DLP005	33 45 12	84 53 10	.2	.07	<.05	.015	<10	<10	100	<1
DLP006	33 45 12	84 53 10	.7	.3	<.05	.1	10	<10	300	<1
DLP007	33 45 12	84 53 10	.7	.15	<.05	.03	<10	<10	700	<1
DLP008	33 45 12	84 53 10	1	.05	<.05	.05	150	<10	70	<1
DLP009	33 45 12	84 53 10	1.5	.15	<.05	.07	500	<10	300	<1
DLP010	33 45 12	84 53 10	2	.5	<.05	.1	100	<10	500	<1
DLP011	33 45 12	84 53 10	2	.7	<.05	.15	70	<10	700	<1
DLP012	33 45 12	84 53 10	.7	.07	<.05	.015	10	<10	100	<1
DLP013	33 45 12	84 53 10	.3	.15	<.05	.02	10	<10	300	<1
DLP014	33 45 12	84 53 10	1	.3	<.05	.1	10	<10	700	<1
DLP015	33 45 12	84 53 10	.7	.2	<.05	.07	10	<10	200	<1
DLP016	33 45 12	84 53 10	1	.3	<.05	.07	15	<10	500	<1
DLP017	33 45 12	84 53 10	1	.3	<.05	.07	30	10	300	<1
DLP018	33 45 12	84 53 10	2	.3	<.05	.1	30	<10	200	<1
DLP019	33 45 12	84 53 10	1.5	.5	<.05	.1	30	<10	500	<1
DLP020	33 45 12	84 53 10	.5	.3	<.05	.03	30	<10	500	<1
DLP021	33 45 12	84 53 10	.7	.2	<.05	.07	70	<10	700	<1
DLP022	33 45 12	84 53 5	<.05	<.02	<.05	<.002	<10	N	30	N
DLP023	33 45 12	84 53 5	10	1.5	<.05	.15	1,500	<10	70	<1
DLP024	33 45 12	84 53 5	15	>10	15	.07	3,000	10	30	<1
DLP025	33 45 12	84 53 5	1.5	.15	<.05	.2	50	N	300	<1
DLP026	33 45 12	84 53 5	.3	.3	<.05	.03	30	<10	300	<1
DLP027	33 45 12	84 53 5	3	.07	<.05	.5	150	N	150	<1
DLP028	33 45 12	84 53 5	3	.07	<.05	.2	300	<10	100	<1
DLP029	33 45 12	84 53 5	.5	.2	<.05	.07	50	N	300	<1
DLP030	33 45 12	84 53 5	1.5	.2	<.05	.2	50	N	300	<1
DLP031	33 45 12	84 53 5	.3	.2	<.05	.03	20	N	150	<1
DLP032	33 45 12	84 53 5	3	.07	<.05	.5	50	<10	150	1
DLP033	33 45 12	84 53 5	1	.3	<.05	.07	50	N	700	<1
DLP034	33 45 12	84 53 5	.015	.07	<.05	.015	<10	N	150	<1
DLP035	33 45 12	84 53 5	.7	.3	<.05	.03	50	<10	300	<1
DLP036	33 45 12	84 53 5	.3	.2	<.05	.03	50	N	300	<1
DLP037	33 45 12	84 53 5	3	.15	<.05	.3	100	N	150	<1
DLP038	33 45 12	84 53 5	1.5	.3	<.05	.07	150	<10	700	<1
DLP039	33 45 12	84 53 5	5	.5	<.05	.3	150	10	300	<1
DLP040	33 45 12	84 53 5	3	.7	<.05	.3	50	<10	700	<1
DLP041	33 45 12	84 53 5	1.5	.5	<.05	.15	30	<10	500	<1
DLP042	33 45 12	84 53 5	1.5	.7	<.05	.15	70	<10	700	<1
DLP043	33 45 12	84 53 5	.07	.15	<.05	.03	10	N	500	<1
DLP044	33 45 12	84 53 5	.03	.15	<.05	.03	<10	N	700	<1
DLP045	33 45 12	84 53 5	5	.7	<.05	.3	100	10	1,000	<1
DLP046	33 45 12	84 53 5	.5	.3	<.05	.07	30	N	700	<1
DLP047	33 45 12	84 53 5	1.5	.5	<.05	.1	150	<10	700	N
DLP048	33 45 12	84 53 5	.07	.2	<.05	.03	<10	N	300	<1
DLP049	33 45 12	84 53 5	5	.3	<.05	.5	150	N	500	<1
DLP050	33 45 12	84 53 5	7	.15	<.05	.7	100	<10	150	<1

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s
DL39	70	300	100	N	N	<10	100	15	70	150	300
DL40	N	<5	30	<20	N	<10	5	15	<5	700	30
DL41	30	150	70	30	N	20	70	20	30	<100	200
DL42	20	70	30	70	N	15	20	30	15	200	100
DL43	50	150	100	50	N	30	30	30	20	<100	200
DL44	10	20	15	<20	N	10	10	<10	7	<100	70
DL45	70	200	150	<20	N	10	50	10	70	<100	700
DL46	10	15	30	<20	N	<10	5	<10	<5	N	50
DL47	10	<5	30	<20	N	10	<5	15	10	N	70
DL48	<5	<5	70	<20	N	<10	5	<10	<5	N	20
DLP001	<5	20	5	<20	<2	<10	7	<10	<5	70	70
DLP002	<5	30	100	<20	<2	<10	3	<10	<5	50	30
DLP003	<5	500	30	<20	<2	<10	70	<10	<5	50	20
DLP004	<5	150	100	<20	<2	<10	7	<10	<5	<50	30
DLP005	<5	10	30	<20	<2	<10	2	<10	<5	<50	10
DLP006	<5	150	70	<20	<2	<10	3	<10	<5	<50	30
DLP007	<5	7	70	<20	<2	<10	2	<10	<5	<50	15
DLP008	10	300	20	<20	<2	<10	50	<10	5	<50	15
DLP009	100	300	100	<20	<2	<10	70	30	5	<50	20
DLP010	5	500	30	<20	<2	<10	100	<10	10	<50	70
DLP011	<5	150	50	<20	<2	<10	10	<10	10	70	70
DLP012	<5	150	50	<20	<2	<10	10	<10	<5	<50	15
DLP013	<5	20	2	<20	<2	<10	2	<10	<5	<50	15
DLP014	<5	200	70	<20	<2	<10	10	<10	7	<50	50
DLP015	<5	10	100	<20	<2	<10	10	<10	<5	<50	15
DLP016	<5	10	50	<20	<2	<10	3	<10	<5	<50	20
DLP017	<5	30	50	<20	<2	<10	10	<10	7	<50	20
DLP018	<5	300	50	<20	<2	<10	100	<10	15	<50	30
DLP019	<5	300	50	<20	<2	<10	20	<10	5	<50	50
DLP020	<5	5	20	<20	<2	<10	<2	<10	<5	<50	15
DLP021	<5	<5	50	<20	<2	<10	2	<10	<5	<50	20
DLP022	N	N	7	N	N	<10	<5	<10	N	N	<10
DLP023	200	1,000	300	150	N	<10	2,000	30	30	N	70
DLP024	200	3,000	700	70	N	<10	1,000	<10	30	N	50
DLP025	N	70	50	<20	N	<10	150	20	5	<100	30
DLP026	N	N	5	<20	N	<10	<5	<10	<5	<100	20
DLP027	<5	50	30	<20	N	<10	15	15	<5	<100	30
DLP028	<5	300	30	<20	N	10	20	10	5	N	50
DLP029	N	N	30	<20	N	<10	<5	<10	<5	<100	30
DLP030	N	50	20	<20	N	10	15	<10	<5	<100	30
DLP031	<5	N	2	<20	N	<10	<5	<10	N	<100	20
DLP032	N	150	20	<20	N	<10	100	15	7	N	100
DLP033	N	N	30	<20	N	<10	10	<10	<5	<100	30
DLP034	N	N	2	<20	N	<10	5	<10	N	N	<10
DLP035	N	N	2	<20	N	<10	5	<10	<5	<100	30
DLP036	N	<50	5	<20	N	<10	<5	10	N	<100	30
DLP037	N	N	20	<20	N	<10	20	15	<5	N	70
DLP038	N	10	10	<20	N	<10	10	<10	N	<100	30
DLP039	N	200	30	<20	N	<10	20	<10	15	<100	150
DLP040	N	150	70	<20	N	<10	15	<10	5	<100	70
DLP041	N	70	30	N	N	<10	15	<10	<5	N	30
DLP042	N	5	30	N	N	<10	5	<10	<5	N	50
DLP043	N	5	15	<20	N	<10	5	<10	<5	<100	20
DLP044	N	10	15	<20	N	<10	5	<10	<5	<100	20
DLP045	N	700	150	<20	N	<10	150	<10	15	<100	150
DLP046	10	15	30	<20	N	<10	5	<10	<5	<100	30
DLP047	N	70	30	<20	N	<10	5	<10	<5	<100	70
DLP048	N	50	10	N	N	<10	7	<10	N	N	20
DLP049	N	300	50	<20	N	<10	30	<10	15	N	150
DLP050	N	300	150	<20	N	<10	70	10	15	<100	150

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Cu-ppm aa	Pb-ppm aa	Mo-ppm aa
DL39	N	20	N	50	N	--	--	23	34	<5	2
DL40	N	<10	N	100	N	--	--	17	<5	<5	2
DL41	N	70	<200	700	N	--	--	92	30	6	2
DL42	N	70	<200	300	N	--	--	74	14	<5	2
DL43	N	50	<200	700	N	--	--	85	24	16	2
DL44	N	15	N	100	N	--	--	16	7	<5	2
DL45	N	70	N	50	N	--	--	24	70	<5	<2
DL46	N	<10	N	N	N	--	--	6	6	<5	<2
DL47	N	30	N	300	N	--	--	39	<5	10	<2
DL48	N	<10	N	<10	N	--	--	9	6	<5	<2
DLP001	<50	<5	<200	70	.23	.04	<10	<25	40	<25	--
DLP002	<50	<5	<200	70	.26	.06	<10	<25	10	<25	--
DLP003	<50	<5	<200	100	.8	.15	<10	<25	80	<25	--
DLP004	<50	5	<200	50	3.47	.06	<10	<25	80	<25	--
DLP005	<50	<5	<200	<10	.68	.04	<10	75	<10	<25	--
DLP006	<50	<5	<200	10	7.16	.06	10	25	30	<25	--
DLP007	<50	<5	<200	70	.44	.04	<10	25	70	<25	--
DLP008	<50	<5	<200	10	.54	.05	<10	50	100	<25	--
DLP009	<50	<5	<200	15	.71	.08	<10	75	90	<25	--
DLP010	<50	<5	<200	50	3.44	.025	<10	75	80	<25	--
DLP011	<50	<5	<200	50	1.76	.025	<10	25	160	<25	--
DLP012	<50	<5	<200	<10	3.12	.06	<10	50	40	<25	--
DLP013	<50	<5	<200	<10	.1	.06	<10	<25	40	<25	--
DLP014	<50	<5	<200	30	1.96	.06	<10	50	80	<25	--
DLP015	<50	<5	<200	100	1.54	.025	<10	<25	30	<25	--
DLP016	<50	<5	<200	100	.31	.015	<10	50	30	<25	--
DLP017	<50	<5	<200	70	.5	.03	<10	100	4,000	<25	--
DLP018	<50	<5	<200	50	1.27	.05	<10	<25	30	<25	--
DLP019	<50	<5	<200	30	5.56	.06	<10	<25	20	<25	--
DLP020	<50	<5	<200	10	2.3	.07	<10	<25	10	<25	--
DLP021	<50	<5	<200	30	.06	.025	<10	<25	10	<25	--
DLP022	N	N	N	N	N	--	--	<5	<5	<5	<2
DLP023	N	20	N	N	.02	--	--	120	150	36	<2
DLP024	N	30	N	N	.3	--	--	34	380	10	<2
DLP025	N	N	N	150	N	--	--	5	5	<5	<2
DLP026	N	N	N	N	2	--	--	<5	<5	<5	2
DLP027	N	N	N	300	.06	--	--	5	<5	14	2
DLP028	N	N	N	70	3.2	--	--	7	8	8	2
DLP029	N	N	N	70	.6	--	--	<5	<5	<5	2
DLP030	N	N	N	150	.3	--	--	<5	6	6	2
DLP031	N	N	N	N	1.4	--	--	<5	<5	<5	2
DLP032	N	N	N	300	.6	--	--	9	11	14	2
DLP033	N	N	N	N	.2	--	--	<5	5	<5	2
DLP034	N	N	N	N	.06	--	--	<5	<5	<5	2
DLP035	N	<10	N	N	.3	--	--	<5	<5	<5	2
DLP036	N	<10	N	70	2.5	--	--	<5	6	<5	2
DLP037	N	<10	N	100	.1	--	--	6	<5	16	2
DLP038	N	N	N	70	.08	--	--	<5	6	<5	2
DLP039	N	<10	N	100	.4	--	--	15	26	10	2
DLP040	N	N	N	150	.3	--	--	<5	14	<5	2
DLP041	N	N	N	70	.2	--	--	<5	9	<5	2
DLP042	N	N	N	50	.2	--	--	<5	8	<5	4
DLP043	N	N	N	<10	.6	--	--	<5	<5	<5	2
DLP044	N	N	N	<10	2.5	--	--	<5	6	<5	4
DLP045	N	N	N	300	.4	--	--	<5	57	<5	20
DLP046	N	N	N	30	.2	--	--	<5	5	<5	2
DLP047	N	N	N	50	.3	--	--	<5	6	<5	2
DLP048	N	N	N	N	1	--	--	<5	5	<5	4
DLP049	N	N	N	70	.9	--	--	5	20	<5	2
DLP050	N	N	N	150	.8	--	--	6	36	8	4

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
DLP051	33 45 12	84 53 5	5	.7	<.05	.7	150	<10	700	<1
DLP052	33 45 12	84 53 5	.07	.15	<.05	.07	<10	N	200	<1
DLP053	33 45 12	84 53 5	7	.3	<.05	.7	100	<10	300	<1
DLP054	33 45 12	84 53 5	1.5	.7	<.05	.15	150	<10	1,000	<1
DLP055	33 45 12	84 53 5	.07	.3	<.05	.07	150	<10	700	<1
DLP056	33 45 12	84 53 5	.07	.2	<.05	.03	50	N	700	<1
DLP057	33 45 12	84 53 5	3	.3	<.05	.05	50	<10	700	<1
DLP058	33 45 12	84 53 5	7	.7	<.05	.7	200	<10	700	<1
DLP059	33 45 12	84 53 5	.03	.2	<.05	.05	15	N	500	<1
DLP060	33 45 12	84 53 5	3	.7	<.05	.3	100	15	1,000	<1
DLP061	33 45 12	84 53 5	7	1.5	<.05	.7	500	30	1,500	<1
DLP062	33 45 12	84 53 5	5	.02	.07	.2	150	N	30	N
DLP063	33 45 12	84 53 5	1.5	.5	<.05	.15	50	<10	700	N
DLP064	33 45 12	84 53 5	7	.15	<.05	.5	150	N	200	<1
DLP065	33 45 12	84 53 5	5	.15	<.05	.5	20	N	300	<1
DLP066	33 45 12	84 53 5	7	.3	<.05	.5	150	<10	700	<1
DLP067	33 45 12	84 53 5	.2	.2	<.05	.02	20	N	500	N
DLP068	33 45 12	84 53 5	.5	.5	<.05	.07	50	<10	700	<1
DLP069	33 45 12	84 53 5	.3	.2	<.05	.03	50	N	700	N
DLP070	33 45 12	84 53 5	.7	.3	<.05	.1	30	<10	700	<1
DLP071	33 45 12	84 53 5	7	1.5	<.05	.7	200	15	1,000	<1
DLP072	33 45 12	84 53 5	7	.2	<.05	.5	100	N	50	<1
DLP073	33 45 12	84 53 5	3	.5	<.05	.2	100	10	300	<1
DLP074	33 45 12	84 53 5	3	1	<.05	.3	200	15	700	<1
DLP075	33 45 12	84 53 5	1.5	.3	<.05	.07	30	<10	300	<1
DLP076	33 45 12	84 53 5	1.5	.5	<.05	.2	100	<10	700	<1
DLP077	33 45 12	84 53 5	3	.3	<.05	.15	100	10	500	<1
DLP078	33 45 12	84 53 5	3	.3	<.05	.2	100	<10	700	<1
DLP079	33 45 12	84 53 5	1.5	.3	<.05	.7	20	N	300	<1
DLP080	33 45 12	84 53 5	7	.2	<.05	.2	30	<10	300	<1
DLP081	33 45 15	84 53 10	.7	.3	.3	.03	70	<10	300	N
DLP082	33 45 15	84 53 10	.3	.15	<.05	.03	20	<10	300	<1
DLP083	33 45 15	84 53 10	.3	.3	<.05	.03	20	N	300	<1
DLP084	33 45 15	84 53 10	15	>10	3	.03	3,000	<10	10	N
DLP085	33 45 15	84 53 10	7	.3	2	.3	1,500	N	300	<1
DLP086	33 45 15	84 53 10	5	.7	<.05	.5	200	N	150	<1
DLP087	33 45 15	84 53 10	3	.7	<.05	.1	700	10	700	<1
DLP088	33 45 15	84 53 10	5	.3	<.05	.07	20	<10	700	<1
DLP089	33 45 15	84 53 10	1.5	.15	<.05	.03	30	N	300	<1
DLP090	33 45 15	84 53 10	.7	.3	<.05	.07	50	<10	500	<1
DLP091	33 45 12	84 53 10	7	.7	<.05	1	1,000	10	700	<1
DLP092	33 45 12	84 53 10	.3	.15	<.05	.03	10	N	300	<1
DLP093	33 45 12	84 53 10	3	.3	<.05	.07	150	N	700	<1
DLP094	33 45 12	84 53 10	.3	.15	<.05	.03	100	N	500	<1
DLP095	33 45 12	84 53 10	1.5	.5	<.05	.15	150	<10	1,000	<1
DLP096	33 45 12	84 53 10	.3	.07	<.05	.02	10	N	300	<1
DLP097	33 45 12	84 53 10	3	.7	<.05	.2	200	10	1,500	<1
DLP098	33 45 12	84 53 10	3	.2	<.05	.3	15	N	300	<1
DLP099	33 45 12	84 53 10	1.5	.15	<.05	.15	30	N	500	1.5
DLP100	33 45 12	84 53 10	1.5	.3	<.05	.15	150	N	700	1.5
DLP101	33 45 12	84 53 10	2	.5	<.05	.07	150	<10	1,000	<1
DLP102	33 45 12	84 53 10	.3	.15	<.05	.03	20	N	500	<1
DLP103	33 45 12	84 53 10	.1	.3	<.05	.07	150	N	1,000	<1
DLP104	33 45 12	84 53 10	15	.03	<.05	.007	70	15	150	<1
DLP105	33 45 12	84 53 10	1	.3	<.05	.03	100	N	700	<1
DLP106	33 45 12	84 53 10	1.5	.3	<.05	.07	150	N	700	<1
DLP107	33 45 12	84 53 10	3	.3	<.05	>1	50	N	1,000	<1
DLP108	33 45 12	84 53 10	7	.7	<.05	>1	300	N	1,000	<1
DLP109	33 45 12	84 53 10	1.5	.7	<.05	>1	100	N	1,500	<1
DLP110	33 45 12	84 53 10	1.5	.3	<.05	.07	30	<10	700	<1

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s
DLP051	N	70	70	<20	N	<10	15	<10	7	<100	100
DLP052	N	10	20	N	N	<10	10	<10	<5	N	30
DLP053	N	150	50	<20	N	<10	150	10	7	<100	100
DLP054	N	30	20	<20	N	<10	10	<10	<5	<100	70
DLP055	N	15	7	<20	N	<10	<5	<10	<5	<100	50
DLP056	N	30	20	<20	N	<10	<5	<10	N	<100	30
DLP057	10	100	20	<20	N	<10	10	<10	<5	<100	50
DLP058	N	500	30	<20	N	<10	150	<10	20	<100	150
DLP059	N	15	15	<20	N	<10	<5	<10	N	<100	30
DLP060	N	30	30	<20	N	<10	15	<10	<5	<100	100
DLP061	N	300	50	<20	N	<10	20	<10	15	<100	150
DLP062	N	500	30	<20	N	<10	100	10	15	<100	150
DLP063	N	50	20	<20	N	<10	15	<10	<5	<100	30
DLP064	N	700	50	<20	N	<10	300	10	70	<100	150
DLP065	N	50	20	<20	N	<10	20	<10	<5	<100	30
DLP066	N	200	100	<20	N	<10	70	<10	<5	<100	150
DLP067	N	7	10	<20	N	<10	10	<10	N	<100	<10
DLP068	N	7	10	<20	N	<10	10	<10	N	<100	30
DLP069	N	15	15	N	N	<10	7	<10	N	<100	15
DLP070	N	70	10	<20	N	<10	15	<10	<5	<100	50
DLP071	N	500	150	<20	N	<10	20	10	15	<100	150
DLP072	N	700	50	<20	N	<10	150	10	70	<100	150
DLP073	N	70	30	N	N	<10	15	<10	<5	N	50
DLP074	N	150	30	<20	N	<10	50	<10	10	<100	100
DLP075	N	70	20	N	N	<10	15	<10	5	N	70
DLP076	N	150	15	<20	N	<10	70	<10	10	<100	70
DLP077	N	200	30	<20	N	<10	30	<10	10	<100	100
DLP078	N	200	20	<20	N	<10	150	<10	10	<100	70
DLP079	N	150	10	N	N	<10	15	<10	N	N	30
DLP080	N	700	70	<20	N	<10	150	<10	15	<100	100
DLP081	N	30	30	<20	N	<10	5	<10	N	<100	30
DLP082	N	10	15	<20	N	<10	5	<10	N	<100	30
DLP083	N	50	30	<20	N	<10	5	<10	N	<100	15
DLP084	150	>5,000	30	<20	N	<10	1,000	10	7	<100	30
DLP085	70	700	100	20	N	<10	150	<10	70	<100	300
DLP086	15	150	30	20	N	<10	100	10	10	N	70
DLP087	50	70	30	<20	5	<10	20	10	<5	<100	30
DLP088	N	150	30	<20	30	<10	15	15	N	<100	30
DLP089	N	7	15	<20	N	<10	N	<10	N	<100	10
DLP090	N	70	30	<20	N	<10	5	10	<5	<100	30
DLP091	30	70	50	30	N	15	20	15	15	N	150
DLP092	N	<5	7	<20	N	<10	N	<10	N	N	<10
DLP093	N	<5	30	<20	N	<10	5	<10	<5	N	30
DLP094	N	<5	20	<20	N	<10	<5	<10	N	N	15
DLP095	N	<5	30	<20	N	<10	<5	<10	<5	N	30
DLP096	N	<5	10	<20	N	<10	5	<10	N	N	10
DLP097	<5	5	30	<20	N	<10	5	<10	7	N	70
DLP098	N	10	100	<20	N	<10	10	<10	5	N	50
DLP099	N	5	70	<20	N	<10	5	<10	5	N	20
DLP100	N	<5	30	<20	N	<10	5	<10	<5	N	30
DLP101	<5	5	30	<20	N	<10	5	<10	<5	N	50
DLP102	N	<5	30	<20	N	<10	5	<10	<5	N	15
DLP103	N	<5	30	<20	N	<10	5	<10	<5	N	50
DLP104	N	5	150	<20	70	10	10	10	<5	N	15
DLP105	<5	<5	15	<20	N	<10	5	<10	<5	N	30
DLP106	<5	<5	15	<20	N	<10	5	<10	<5	N	30
DLP107	<5	<5	20	<20	N	<10	5	<10	<5	N	30
DLP108	N	5	70	N	N	<10	5	<10	<5	N	150
DLP109	N	5	20	<20	N	<10	<5	<10	<5	N	70
DLP110	N	50	30	N	N	<10	5	<10	<5	N	30

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Cu-ppm aa	Pb-ppm aa	Mo-ppm aa
DLP051	N	<10	N	150	1.1	--	--	6	20	<5	4
DLP052	N	<10	N	30	.8	--	--	<5	5	<5	2
DLP053	N	N	N	150	.9	--	--	9	12	6	2
DLP054	N	N	N	70	.4	--	--	<5	8	<5	4
DLP055	N	<10	N	30	1.2	--	--	<5	5	<5	2
DLP056	N	N	N	<10	5.6	--	--	<5	7	<5	2
DLP057	N	N	N	<10	32	--	--	5	30	<5	4
DLP058	N	N	N	150	1.5	--	--	10	18	8	2
DLP059	N	N	N	<10	.6	--	--	<5	6	<5	2
DLP060	N	N	N	150	.9	--	--	<5	7	<5	4
DLP061	N	N	N	200	.9	--	--	7	18	<5	2
DLP062	N	N	N	15	.2	--	--	5	12	22	2
DLP063	N	N	N	70	2.2	--	--	<5	9	<5	2
DLP064	N	N	N	70	1.6	--	--	8	11	6	2
DLP065	N	N	N	150	.3	--	--	<5	<5	<5	2
DLP066	N	N	N	200	1.9	--	--	<5	22	<5	3
DLP067	N	N	N	N	.3	--	--	<5	<5	<5	2
DLP068	N	N	N	70	.8	--	--	<5	<5	<5	2
DLP069	N	N	N	N	.2	--	--	<5	<5	<5	4
DLP070	N	N	N	70	.3	--	--	<5	13	<5	2
DLP071	N	N	N	150	.9	--	--	6	43	8	3
DLP072	N	N	N	30	1.6	--	--	12	18	6	2
DLP073	N	N	N	100	.9	--	--	5	17	<5	2
DLP074	N	N	N	70	1.6	--	--	5	12	<5	2
DLP075	N	N	N	70	1.9	--	--	<5	17	<5	3
DLP076	N	N	N	100	.3	--	--	<5	10	<5	2
DLP077	N	N	N	70	.8	--	--	7	30	<5	2
DLP078	N	N	N	100	.4	--	--	<5	7	<5	2
DLP079	N	N	N	30	6.3	--	--	<5	13	<5	2
DLP080	N	N	N	150	1.4	--	--	7	32	<5	2
DLP081	N	N	N	N	3	--	--	<5	6	<5	4
DLP082	N	N	N	<10	.2	--	--	<5	5	<5	4
DLP083	N	N	N	N	.1	--	--	<5	<5	<5	4
DLP084	N	N	N	N	N	--	--	10	12	<5	4
DLP085	N	N	N	<10	.08	--	--	10	50	10	3
DLP086	N	N	N	300	.06	--	--	24	11	12	4
DLP087	N	N	N	70	3.1	--	--	<5	7	<5	4
DLP088	N	N	N	<10	26	--	--	<5	6	8	16
DLP089	N	N	N	30	1.7	--	--	<5	<5	<5	4
DLP090	N	N	N	15	.3	--	--	<5	<5	<5	4
DLP091	N	30	<200	500	N	--	--	70	32	8	2
DLP092	N	N	N	N	N	--	--	<5	<5	<5	3
DLP093	N	N	N	70	.1	--	--	6	45	<5	2
DLP094	N	N	N	15	.02	--	--	<5	5	<5	4
DLP095	N	N	N	70	.02	--	--	<5	7	<5	2
DLP096	N	N	N	15	N	--	--	<5	<5	<5	4
DLP097	N	N	N	150	.08	--	--	<5	32	<5	2
DLP098	N	N	N	150	.1	--	--	<5	8	<5	4
DLP099	N	N	N	150	N	--	--	<5	<5	<5	2
DLP100	N	N	N	150	.08	--	--	<5	6	<5	2
DLP101	N	N	N	70	.08	--	--	<5	14	<5	2
DLP102	N	N	N	N	.04	--	--	<5	<5	<5	3
DLP103	N	N	N	100	.04	--	--	<5	7	<5	2
DLP104	N	N	N	N	2.2	--	--	5	65	10	24
DLP105	N	N	N	30	2.2	--	--	<5	5	<5	2
DLP106	N	N	N	<10	4	--	--	<5	8	<5	3
DLP107	N	N	N	70	.2	--	--	<5	6	<5	4
DLP108	N	N	N	30	.6	--	--	<5	53	<5	3
DLP109	N	N	N	200	.2	--	--	<5	6	<5	3
DLP110	N	N	N	70	1.6	--	--	<5	16	<5	3

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
DLP111	33 45 12	84 53 10	2	1.5	N	.3	150	<10	1,500	<1
DLP112	33 45 12	84 53 10	5	1.5	N	.15	100	10	1,500	<1
DLP113	33 45 12	84 53 10	1.5	.7	<.05	.03	50	<10	700	<1
DLP114	33 45 12	84 53 10	2	.07	<.05	.2	15	N	150	1
DLP115	33 45 12	84 53 10	.7	.5	<.05	.07	50	<10	700	<1
DLP116	33 45 12	84 53 10	2	1	<.05	.15	300	<10	1,500	<1
DLY1	33 55 0	84 58 0	7	1.5	<.05	.5	2,000	50	500	1
DLY2	33 55 0	84 58 0	2	.7	.07	.15	200	20	150	<1
DLY3	33 55 0	84 58 0	3	1	.1	.15	1,000	10	300	<1
DLY4	33 55 0	84 58 0	10	3	.3	.7	1,500	150	700	<1
DLY5	33 55 0	84 58 0	7	1.5	<.05	.2	1,500	15	150	<1
DLY6	33 55 0	84 58 0	10	2	.07	.3	1,500	150	150	1
DLY7	33 55 0	84 58 0	10	1.5	3	.5	1,000	30	300	1
DLY8	33 55 0	84 58 0	10	3	5	.5	1,500	<10	10	<1
FA1	33 21 31	85 4 17	2	.7	<.05	.07	200	<10	300	2
FA2	33 21 31	85 4 17	.2	.02	<.05	.01	30	<10	50	N
FA3	33 21 20	85 4 15	.3	.02	<.05	.03	20	<10	N	N
FA4	33 21 20	85 4 15	3	.1	<.05	.1	30	<10	50	<1
FR1	33 22 21	85 10 11	5	.5	<.05	.5	200	30	1,000	1
FR2	33 22 21	85 10 11	2	.2	<.05	.5	150	<10	150	<1
FR3	33 18 55	85 9 3	.7	.05	<.05	.1	150	<10	50	1.5
FR4	33 18 55	85 9 3	2	.05	<.05	.07	5,000	<10	70	1
FR5	33 18 44	85 8 42	5	.2	<.05	.5	100	100	500	1.5
FR6	33 18 5	85 7 56	3	.5	.7	.15	700	<10	1,500	1
FR7	33 18 5	85 7 56	2	.3	<.05	.1	700	<10	1,500	<1
K1	34 5 24	84 36 33	10	.3	N	.5	500	50	700	N
K2	34 7 3	84 35 33	7	N	N	.3	700	N	5	N
K3	34 7 3	84 35 33	10	.02	N	.15	2,000	N	150	N
K4	34 5 19	84 35 2	7	.2	N	.7	700	N	300	N
K5	34 5 19	84 35 2	.5	.02	N	.03	70	N	50	N
K6	34 5 21	84 36 7	10	.7	N	.3	500	30	300	1
K7	34 7 7	84 34 50	10	5	1	.3	1,500	N	15	N
LO01	33 30 24	85 3 29	5	.15	<.05	.5	200	50	200	<1
LO02	33 28 4	85 2 42	7	.5	<.05	.7	100	70	1,000	2
LO03	33 27 34	85 2 32	1	.05	<.05	.2	50	<10	100	<1
LO04	33 27 34	85 2 32	10	.5	<.05	.7	1,500	70	1,000	2
LO05	33 26 31	85 1 35	10	2	.07	.7	700	50	1,000	3
LO06	33 26 31	85 1 35	5	.7	.5	.7	500	10	200	1.5
LO07	33 26 18	85 1 17	.7	.05	<.05	.1	30	<10	150	<1
LO08	33 26 18	85 0 34	.5	.05	<.05	.07	70	<10	70	2
LO09	33 26 16	85 0 32	5	.3	<.05	.7	300	<10	1,500	2
LO10	33 26 15	85 0 20	10	.15	.05	1	1,000	<10	100	5
LO11	33 23 51	85 3 5	5	1	<.05	.5	700	<10	2,000	2
LO12	33 23 51	85 3 5	3	.7	.7	.2	300	<10	2,000	1
LO13	33 24 21	85 4 0	5	.7	.05	.7	500	50	500	1
LO14	33 24 10	85 3 54	2	.15	<.05	.5	200	20	200	<1
LO15	33 21 53	85 6 32	10	1	.05	.7	700	70	1,000	2
LO16	33 27 26	85 6 24	5	.7	<.05	.3	300	15	300	1
LO17	33 27 43	85 4 27	7	.05	<.05	.5	200	20	500	1
MA01	33 57 35	84 30 52	5	1.5	<.05	.15	500	<10	70	1
MA02	33 57 35	84 30 52	5	.5	<.05	.15	700	<10	50	1
MA03	33 57 35	84 30 52	1.5	.2	<.05	.05	150	<10	30	<1
MA04	33 57 35	84 30 52	7	1.5	<.05	.3	700	<10	150	1
MA05	33 57 35	84 30 52	1.5	.1	<.05	.07	100	<10	70	<1
MA06	33 57 35	84 30 51	2	.15	<.05	.15	150	<10	70	1
MA07	33 57 35	84 30 51	.7	.15	<.05	.2	70	<10	150	<1
MA08	33 57 35	84 30 51	1.5	.15	<.05	.2	100	<10	100	<1
MA09	33 57 34	84 30 51	1	.15	<.05	.1	100	<10	70	<1
MA10	33 57 34	84 30 51	.5	.07	<.05	.015	50	<10	50	<1
MA11	33 57 34	84 30 51	1	.07	<.05	.03	30	<10	50	<1

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s
DLP111	<5	70	20	N	N	<10	5	<10	5	N	150
DLP112	<5	700	70	<20	N	<10	150	15	10	<100	100
DLP113	<5	70	30	<20	N	<10	7	10	<5	N	30
DLP114	15	7	30	<20	N	<10	15	15	<5	N	30
DLP115	<5	5	30	<20	N	<10	7	10	<5	<100	30
DLP116	<5	50	30	<20	N	15	15	10	<5	<100	100
DLY1	30	150	100	<20	<2	<10	20	<10	70	100	300
DLY2	<5	10	2	<20	<2	<10	3	<10	5	<50	70
DLY3	10	10	10	<20	<2	<10	3	<10	15	<50	100
DLY4	20	70	150	<20	<2	<10	15	<10	30	200	150
DLY5	30	20	15	<20	<2	<10	15	<10	20	150	150
DLY6	70	50	100	<20	<2	<10	30	15	30	300	300
DLY7	10	15	150	<20	<2	<10	2	10	30	500	150
DLY8	50	200	50	<20	<2	<10	30	10	50	500	300
FA1	<5	5	15	N	N	N	5	15	10	N	20
FA2	N	<5	<5	N	N	N	5	N	<5	N	10
FA3	<5	<5	<5	N	N	N	5	N	<5	N	10
FA4	<5	15	10	N	N	N	15	10	10	N	50
FR1	20	70	15	30	N	<10	15	30	15	<100	150
FR2	<5	15	20	30	N	15	10	10	10	N	20
FR3	<5	10	7	N	N	N	5	<10	<5	N	20
FR4	150	15	50	N	N	N	30	10	7	N	50
FR5	<5	70	50	<20	N	20	15	30	15	N	200
FR6	<5	5	5	70	N	10	5	20	5	100	30
FR7	<5	<5	7	30	N	10	5	50	5	N	20
K1	20	70	50	20	N	N	30	10	15	50	70
K2	10	70	15	N	N	N	20	N	15	N	100
K3	70	100	70	N	N	N	30	20	10	N	70
K4	10	70	30	N	N	15	20	20	15	N	70
K5	N	N	20	N	N	N	N	N	N	N	10
K6	20	70	30	N	N	N	30	30	20	<50	100
K7	15	N	20	N	N	N	2	N	30	70	100
LO01	5	30	20	<20	N	10	30	20	15	N	100
LO02	<5	100	30	100	N	20	10	70	30	<100	200
LO03	<5	15	<5	20	N	<10	10	<10	5	N	20
LO04	50	70	30	100	N	<10	30	50	30	N	150
LO05	30	150	50	50	N	10	50	30	30	N	200
LO06	5	30	15	20	N	10	15	20	7	100	70
LO07	N	7	5	N	N	<10	10	<10	5	N	30
LO08	<5	<5	7	50	N	70	5	50	5	N	10
LO09	15	100	100	N	5	10	30	50	30	N	200
LO10	50	500	100	N	N	N	150	10	70	N	500
LO11	20	70	50	70	N	10	20	50	20	N	200
LO12	7	30	30	50	N	N	15	30	5	500	100
LO13	20	50	50	30	N	<10	20	30	10	N	100
LO14	5	30	7	N	N	<10	10	20	5	N	70
LO15	20	100	150	70	N	10	30	30	10	N	200
LO16	10	70	30	70	N	20	30	20	15	N	100
LO17	5	100	30	70	N	20	20	50	20	N	200
MA01	15	70	50	20	<2	10	15	20	15	<50	70
MA02	20	30	70	<20	<2	<10	20	15	15	<50	70
MA03	<5	10	30	<20	<2	<10	7	<10	5	<50	30
MA04	15	30	50	<20	10	20	30	50	10	<50	150
MA05	<5	15	15	<20	<2	<10	3	<10	<5	<50	30
MA06	<5	20	70	<20	<2	10	<2	<10	5	<50	50
MA07	<5	20	20	<20	<2	20	2	<10	7	<50	30
MA08	<5	20	15	<20	<2	10	3	<10	7	<50	30
MA09	<5	20	15	<20	<2	<10	<2	<10	5	<50	30
MA10	<5	7	20	<20	<2	<10	<2	10	<5	<50	70
MA11	<5	7	50	<20	<2	<10	<2	<10	<5	<50	15

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Cu-ppm aa	Pb-ppm aa	Mo-ppm aa
DLP111	N	N	N	70	.1	--	--	<5	12	<5	2
DLP112	N	N	N	70	1.4	--	--	5	24	<5	2
DLP113	N	N	N	70	2	--	--	<5	14	<5	2
DLP114	N	N	N	150	.06	--	--	<5	<5	<5	<2
DLP115	N	N	N	50	.08	--	--	<5	6	<5	2
DLP116	N	N	N	150	.04	--	--	<5	18	<5	2
DLY1	<50	7	<200	20	.05	.015	<10	<25	60	<25	--
DLY2	<50	5	<200	30	<.02	.03	<10	75	40	<25	--
DLY3	<50	7	<200	30	.54	.03	<10	225	40	<25	--
DLY4	<50	30	<200	150	.22	<.01	<10	75	50	<25	--
DLY5	<50	7	<200	15	.13	.015	<10	<25	30	<25	--
DLY6	<50	15	<200	70	.02	.05	<10	25	120	<25	--
DLY7	<50	20	<200	100	<.02	.12	<10	50	60	<25	--
DLY8	<50	15	<200	70	<.02	.06	<10	50	30	<25	--
FA1	N	N	N	100	N	--	--	8	5	<5	4
FA2	N	<10	N	N	N	--	--	5	<5	<5	2
FA3	N	N	N	N	N	--	--	<5	<5	<5	2
FA4	<50	15	N	100	N	--	--	12	<5	6	2
FR1	<50	10	N	200	N	--	--	9	11	12	<2
FR2	70	<10	N	200	N	--	--	<5	<5	6	2
FR3	N	<10	N	700	N	--	--	10	7	6	<2
FR4	N	<10	N	300	N	--	--	32	46	10	4
FR5	N	<10	N	300	N	--	--	20	22	6	<2
FR6	<50	50	N	70	N	--	--	13	<5	<5	2
FR7	N	15	N	30	N	--	--	11	<5	12	<2
K1	N	10	N	200	<.02	.03	10	25	110	<25	--
K2	N	N	N	50	<.02	.04	<10	40	90	<25	--
K3	N	N	N	70	<.02	.015	20	<25	65	<25	--
K4	N	N	N	150	<.02	.025	<10	<25	65	<25	--
K5	N	N	N	N	<.02	.04	<10	<25	65	<25	--
K6	N	N	N	70	<.02	.03	<10	25	120	<25	--
K7	N	10	200	50	<.02	.3	<10	150	90	<25	--
LO01	<50	20	N	300	N	--	--	14	10	10	2
LO02	<50	70	N	200	N	--	--	7	14	14	2
LO03	150	<10	N	150	N	--	--	<5	6	5	<2
LO04	N	50	N	150	N	--	--	33	24	12	2
LO05	200	70	<200	150	N	--	--	100	26	12	2
LO06	N	30	N	500	N	--	--	50	10	5	2
LO07	<50	<10	N	100	N	--	--	15	6	<5	2
LO08	70	50	N	200	N	--	--	5	<5	5	2
LO09	N	10	N	200	N	--	--	27	44	14	4
LO10	N	20	N	100	N	--	--	60	34	10	<2
LO11	N	30	N	200	N	--	--	69	24	20	2
LO12	N	10	N	100	N	--	--	42	20	5	<2
LO13	<50	50	N	300	N	--	--	84	14	10	2
LO14	50	<10	N	>1,000	N	--	--	8	8	14	<2
LO15	N	50	<200	200	N	--	--	78	44	6	<2
LO16	N	50	N	300	N	--	--	40	32	10	4
LO17	N	70	N	300	N	--	--	9	16	8	2
MA01	<50	15	<200	70	.06	3.2	<10	60	135	<25	--
MA02	<50	10	<200	30	.04	6.5	<10	35	10	<25	--
MA03	<50	5	<200	15	.06	3.2	<10	30	32	<25	--
MA04	<50	7	<200	150	.04	2.2	<10	40	45	<25	--
MA05	<50	<5	<200	150	.02	2.5	10	45	12	<25	--
MA06	<50	5	<200	500	.02	1.7	<10	45	20	<25	--
MA07	<50	5	<200	150	<.02	.85	<10	40	20	<25	--
MA08	<50	7	<200	150	<.02	.85	<10	32	30	<25	--
MA09	<50	<5	<200	150	.02	.4	<10	40	18	<25	--
MA10	<50	5	<200	150	<.02	.54	<10	30	15	<25	--
MA11	<50	5	<200	300	<.02	.4	<10	60	110	<25	--

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
MA12	33 57 34	84 30 51	.7	.07	<.05	.03	30	<10	70	<1
MA13	33 57 34	84 30 50	1.5	.15	.3	.07	200	<10	200	<1
MA14	33 57 34	84 30 50	7	.5	.1	.5	700	<10	200	<1
MA15	33 57 34	84 30 50	7	.7	.1	1	700	<10	300	3
MA16	33 57 34	84 30 50	7	.5	<.05	.7	700	15	200	2
MA17	33 57 30	84 30 52	1	.03	<.05	.07	70	<10	30	1
MA18	33 57 29	84 30 51	1.5	.05	.05	.03	50	<10	70	1
MA19	33 57 28	84 30 51	3	.07	<.05	.15	300	<10	70	2
MA20	33 58 18	84 30 10	3	.3	<.05	1	200	10	150	3
MA21	33 58 18	84 30 10	.7	.03	<.05	.07	70	<10	50	1
MA22	33 59 0	84 30 13	7	.07	.05	.7	1,000	10	70	1
MA23	33 59 0	84 30 13	7	.15	.07	.3	300	<10	70	3
MA24	33 59 0	84 30 13	3	.07	<.05	.2	150	<10	150	1
MA25	33 59 1	84 30 14	15	.07	<.05	.3	1,500	15	70	1
MP01	34 0 56	84 25 4	20	.1	<.05	.2	150	10	500	<1
MP02	34 0 56	84 25 4	5	.02	<.05	.2	700	10	70	<1
MP03	34 0 56	84 25 4	15	.5	<.05	.2	100	15	700	<1
MP04	34 3 56	84 27 16	7	.07	.05	.15	100	10	70	1
MP05	34 3 56	84 27 14	.5	.15	<.05	.15	300	<10	50	1
MP06	34 3 57	84 27 19	.7	.15	<.05	.03	70	<10	50	<1
MP07	34 3 55	84 27 24	10	.7	<.05	.5	30	15	1,500	1
MP08	34 3 55	84 27 24	1.5	.07	<.05	.15	20	<10	70	<1
MP09	34 4 28	84 27 42	1	.07	<.05	.07	20	<10	70	<1
MP10	34 4 28	84 27 42	1.5	.07	<.05	.3	70	<10	70	1
MP11	34 4 28	84 27 42	1.5	.07	<.05	.3	70	<10	70	1
MP12	34 4 28	84 27 42	5	.07	<.05	.3	150	<10	30	1
MP13	34 3 43	84 27 51	10	.5	.15	.3	>5,000	<10	200	2
MP14	34 3 36	84 27 39	15	3	7	.3	1,500	10	100	<1
MP15	34 3 34	84 27 36	10	.7	.05	.15	1,000	<10	150	1
MP16	34 3 27	84 27 33	15	1	3	.2	>5,000	15	150	1
MP17	34 2 9	84 27 59	1.5	.15	.05	.3	1,500	15	300	2
RO01	33 29 15	85 12 45	7	.3	<.05	.5	300	70	500	<1
RO02	33 27 16	85 11 47	10	1	<.05	1	300	70	1,500	2
RO03	33 27 16	85 11 47	.5	.02	<.05	.03	20	<10	70	N
RO05	33 26 27	85 11 47	7	.5	<.05	.7	300	70	300	1
RO06	33 26 27	85 11 35	.5	.05	<.05	.07	100	<10	100	N
RO07	33 25 16	85 11 50	10	.7	<.05	.7	500	10	1,500	1.5
RO08	33 23 24	85 11 0	5	2	<.05	.5	500	50	700	1
RO09	33 23 22	85 10 21	10	2	.05	.7	1,000	50	1,500	1.5
RO10	33 27 55	85 10 59	7	.7	.07	.7	500	50	500	1.5
RO11	33 25 12	85 7 47	7	.7	.05	.7	500	70	1,000	2
RO12	33 25 12	85 7 47	5	.3	<.05	.7	300	30	500	<1
RO13	33 27 36	85 7 37	10	1.5	.07	1	700	70	1,500	1.5
RO14	33 27 36	85 7 37	5	.7	.3	.5	500	10	1,000	<1
RO15	33 27 36	85 7 37	10	.03	<.05	.5	1,500	N	50	N
RO16	33 27 36	85 7 37	10	1	.2	.7	500	50	1,500	1
RO17	33 27 36	85 7 37	5	.5	1	.3	700	<10	1,000	<1
RO18	33 27 36	85 7 37	3	.7	1.5	.15	700	<10	200	1
RO19	33 27 43	85 8 8	3	.5	<.05	.3	1,000	70	>5,000	1
RO20	33 27 43	85 8 8	10	.3	<.05	.7	200	100	2,000	1
RO21	33 27 43	85 8 8	.5	.02	<.05	.03	500	<10	70	N
RO22	33 27 52	85 8 21	10	5	10	.5	2,000	<10	20	N
RO23	33 27 55	85 8 21	7	.7	<.05	.7	700	70	300	<1
RO24	33 27 57	85 9 50	5	.5	.3	.3	1,000	<10	100	<1
RO25	33 27 56	85 9 50	>20	.02	<.05	.05	20	N	50	<1
RO26	33 29 56	85 10 32	7	.3	<.05	.5	300	70	1,500	1.5
RO27	33 29 31	85 9 1	7	.5	<.05	.2	5,000	<10	300	1
RO28	33 29 5	85 8 8	5	.02	<.05	.3	700	<10	100	<1
RO29	33 29 19	85 8 4	5	.7	<.05	.3	700	<10	150	1
RO30	33 29 19	85 8 4	2	.3	<.05	.2	500	<10	100	<1

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s
MA12	<5	5	20	<20	<2	<10	10	<10	<5	<50	15
MA13	7	7	30	<20	<2	<10	15	30	<5	<50	20
MA14	10	30	70	20	<2	15	20	10	10	<50	50
MA15	10	50	20	20	<2	50	10	10	20	<50	70
MA16	15	70	20	<20	<2	20	10	20	15	<50	70
MA17	<5	5	15	<20	<2	10	5	<10	<5	<50	15
MA18	<5	5	50	<20	<2	<10	5	20	<5	<50	20
MA19	5	10	20	<20	10	15	30	20	10	<50	50
MA20	<5	15	15	<20	<2	20	7	<10	15	<50	50
MA21	<5	10	15	<20	<2	10	3	<10	<5	<50	10
MA22	5	150	15	<20	<2	10	20	<10	20	<50	200
MA23	<5	30	20	30	<2	15	10	<10	10	<50	30
MA24	<5	15	10	<20	<2	15	7	<10	5	<50	50
MA25	20	500	30	<20	<2	10	50	<10	50	<50	200
MP01	<5	100	150	<20	<2	10	3	70	30	<50	200
MP02	<5	70	70	<20	<2	<10	30	20	30	<50	200
MP03	<5	100	100	<20	<2	10	5	100	30	<50	300
MP04	<5	30	15	<20	<2	15	10	<10	7	<50	50
MP05	<5	<5	15	<20	<2	15	<2	<10	<5	<50	7
MP06	<5	<5	10	<20	<2	10	2	10	<5	<50	7
MP07	<5	150	30	30	<2	20	5	20	30	70	200
MP08	<5	7	15	<20	<2	15	<2	<10	5	<50	20
MP09	<5	15	15	<20	<2	15	2	<10	<5	<50	20
MP10	<5	15	10	<20	<2	15	<2	<10	5	<50	20
MP11	<5	20	7	<20	<2	20	<2	<10	7	<50	15
MP12	<5	20	15	<20	<2	15	15	<10	7	<50	30
MP13	50	70	70	70	<2	10	30	<10	20	<50	100
MP14	30	150	20	<20	<2	10	50	<10	50	100	300
MP15	7	100	15	<20	<2	<10	50	<10	30	<50	200
MP16	30	30	20	<20	<2	15	20	<10	15	<50	100
MP17	20	15	20	<20	<2	15	2	20	5	<50	30
RO01	5	50	15	50	N	15	30	15	15	<100	100
RO02	5	150	30	N	N	30	30	100	30	N	300
RO03	N	<5	10	20	N	N	5	N	<5	N	10
RO05	10	70	20	50	N	15	15	30	20	N	200
RO06	<5	5	10	30	N	<10	5	N	<5	N	15
RO07	7	150	30	70	N	20	30	70	30	100	300
RO08	15	100	30	70	N	15	50	20	20	N	150
RO09	30	200	50	100	N	20	50	30	30	<100	300
RO10	20	100	100	20	N	10	50	70	30	N	200
RO11	7	150	50	70	N	10	15	70	15	<100	200
RO12	5	50	20	<20	N	10	15	20	7	N	100
RO13	20	150	30	30	N	20	50	30	20	<100	200
RO14	5	30	7	<20	N	10	15	10	7	100	70
RO15	20	30	200	N	N	N	20	30	30	N	700
RO16	20	150	30	50	N	20	30	30	20	100	200
RO17	5	20	<5	20	N	<10	10	<10	5	200	70
RO18	<5	10	20	<20	N	N	10	15	<5	100	30
RO19	30	100	150	<20	20	<10	20	50	15	N	1,500
RO20	5	150	150	N	5	10	30	50	20	N	700
RO21	20	5	10	N	N	N	7	<10	<5	N	10
RO22	50	300	500	N	N	N	150	10	30	300	500
RO23	15	70	70	30	N	10	70	20	10	N	150
RO24	5	20	10	<20	N	N	10	30	5	N	30
RO25	200	1,000	70	N	N	N	100	50	30	N	500
RO26	5	100	30	30	N	10	20	30	20	<100	200
RO27	50	50	50	20	N	10	30	50	20	N	150
RO28	30	200	20	<20	N	N	100	10	30	N	300
RO29	15	70	50	20	N	<10	20	50	15	N	200
RO30	10	15	20	<20	N	N	10	10	7	N	70

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Cu-ppm aa	Pb-ppm aa	Mo-ppm aa
MA12	<50	5	<200	150	<.02	.4	10	60	12	<25	--
MA13	<50	5	<200	200	<.02	.4	10	30	20	<25	--
MA14	<50	15	<200	500	.02	.54	<10	65	50	<25	--
MA15	<50	15	<200	1,000	.06	.7	<10	60	30	<25	--
MA16	<50	10	<200	700	<.02	.23	<10	50	30	<25	--
MA17	<50	5	<200	100	.04	.14	<10	40	18	<25	--
MA18	<50	7	<200	50	.04	.09	<10	25	12	<25	--
MA19	<50	5	<200	200	<.02	.09	20	30	30	<25	--
MA20	<50	15	<200	1,000	.02	.14	<10	30	10	<25	--
MA21	<50	7	<200	700	.04	.07	10	45	<10	<25	--
MA22	<50	15	<200	150	.02	.35	<10	50	10	<25	--
MA23	<50	30	<200	500	.06	.3	<10	35	15	<25	--
MA24	<50	5	<200	200	.06	.2	<10	75	22	<25	--
MA25	<50	7	<200	70	.08	.32	<10	72	60	<25	--
MP01	<50	15	1,500	70	.2	.26	<10	45	265	<25	--
MP02	<50	5	<200	100	.08	.12	<10	40	90	<25	--
MP03	<50	20	<200	100	.04	.04	<10	40	150	<25	--
MP04	<50	15	<200	150	<.02	.09	<10	40	25	<25	--
MP05	<50	15	<200	300	.04	.04	<10	45	10	<25	--
MP06	<50	7	<200	150	.06	.1	<10	40	<10	<25	--
MP07	<50	15	<200	150	.2	.18	<10	40	100	<25	--
MP08	<50	7	<200	200	.04	.19	<10	35	15	<25	--
MP09	<50	5	<200	150	.06	.28	<10	30	<10	<25	--
MP10	<50	30	<200	700	.04	.32	<10	65	30	<25	--
MP11	<50	15	<200	1,000	.04	.22	<10	48	40	<25	--
MP12	<50	5	<200	100	.04	.4	<10	25	15	<25	--
MP13	<50	30	<200	100	.04	.42	<10	32	80	<25	--
MP14	<50	15	<200	70	<.02	.72	<10	40	30	<25	--
MP15	<50	15	<200	100	.02	.77	<10	50	50	<25	--
MP16	<50	30	<200	100	.2	.54	<10	135	140	<25	--
MP17	<50	10	<200	1,000	.08	.21	10	40	15	<25	--
R001	N	30	N	300	N	--	--	7	8	10	2
R002	<50	10	N	300	N	--	--	18	15	10	2
R003	N	<10	N	20	N	--	--	<5	<5	<5	2
R005	N	10	N	300	N	--	--	11	16	12	2
R006	<50	<10	N	30	N	--	--	<5	5	<5	3
R007	N	20	N	300	N	--	--	13	16	14	2
R008	50	50	N	300	N	--	--	84	14	10	2
R009	N	70	N	300	N	--	--	170	27	10	2
R010	<50	20	N	200	N	--	--	48	45	16	2
R011	70	50	N	200	N	--	--	32	22	12	2
R012	N	15	N	300	N	--	--	25	14	12	2
R013	N	50	N	300	N	--	--	83	22	<5	2
R014	N	20	N	200	N	--	--	48	5	<5	2
R015	N	10	700	50	N	--	--	290	44	20	<2
R016	N	70	N	300	N	--	--	70	30	6	2
R017	N	20	N	300	N	--	--	36	8	<5	2
R018	N	10	N	70	N	--	--	30	10	<5	2
R019	N	10	<200	150	N	--	--	64	57	10	12
R020	N	<10	<200	300	N	--	--	44	47	<5	4
R021	N	N	N	10	N	--	--	8	8	<5	2
R022	N	20	<200	30	N	--	--	14	240	<5	2
R023	N	30	N	500	N	--	--	60	22	10	2
R024	N	10	N	100	N	--	--	27	8	14	2
R025	N	10	N	10	N	--	--	82	26	30	2
R026	N	20	N	200	N	--	--	11	26	16	<2
R027	N	20	N	100	N	--	--	32	40	16	2
R028	N	<10	N	30	N	--	--	55	12	6	<2
R029	N	20	N	100	N	--	--	57	28	14	2
R030	N	10	N	150	N	--	--	17	13	6	2

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
RO31	33 29 27	85 8 1	7	.1	<.05	.15	700	<10	150	<1
RO32	33 29 27	85 8 1	.5	.02	<.05	.03	70	<10	50	N
RO33	33 29 39	85 8 31	10	1	<.05	.5	700	70	700	2
RO34	33 29 39	85 7 31	.5	.02	.05	.02	100	<10	30	N
SC01	34 12 55	84 34 0	10	2	.1	.5	700	70	700	1
SC02	34 12 55	84 34 0	7	1.5	N	.7	700	20	300	<1
SC03	34 12 55	84 34 0	1	.15	N	.15	200	N	70	N
SC04	34 12 56	84 33 48	10	2	.15	.5	700	50	700	1
SC05	34 12 45	84 33 1	10	1.5	N	.3	700	15	700	N
SC06	34 12 43	84 31 40	7	.2	<.05	.5	700	20	500	N
SC07	34 12 11	84 30 24	7	.7	<.05	.7	70	300	700	1
SC08	34 12 11	84 30 24	3	.07	.05	.2	1,500	20	300	N
SC09	34 12 11	84 30 24	3	.15	.05	.3	700	70	500	1
SC11	34 10 58	84 32 27	15	5	5	.7	1,000	N	30	N
SC12	34 10 43	84 32 12	3	.1	<.05	.5	300	20	300	1
SC13	34 10 23	84 30 38	7	.3	<.05	.5	300	15	700	1
SC14	34 10 26	84 30 47	7	1.5	<.05	.5	700	100	500	2
SC15	34 10 26	84 30 47	1	.15	<.05	.1	500	50	100	1
SC16	34 10 32	84 31 3	10	.2	<.05	.3	1,000	N	150	1
SC17	34 10 36	84 31 10	1	.1	<.05	.05	150	N	70	N
SC18	34 10 36	84 31 10	5	.7	<.05	.3	300	100	300	<1
SC19	34 10 36	84 31 10	10	2	.05	.3	1,000	N	300	<1
SC20	34 10 36	84 31 10	10	.5	3	.3	700	70	200	N
SC21	34 10 28	84 31 12	1.5	.1	N	.07	700	50	70	N
SC22	34 10 28	84 31 12	7	.2	<.05	.3	700	N	100	1
SC23	34 10 27	84 31 18	10	.7	N	.5	700	10	300	N
SC24	34 10 27	84 31 18	1	.07	N	.15	300	N	70	N
SC25	34 10 27	84 31 20	7	1.5	N	.5	700	10	300	1
SC26	34 10 27	84 31 20	.5	.07	.1	.03	300	N	70	N
SC27	34 10 27	84 31 22	10	1	<.05	.3	1,500	10	300	1
SC28	34 10 27	84 32 32	7	.5	<.05	.5	100	100	700	1
SC29	34 10 16	84 32 47	7	.3	.05	.5	700	50	700	1
SC30	34 9 39	84 32 10	10	.2	<.05	.5	500	70	700	1
SC31	34 9 34	84 31 55	7	1	N	.3	700	N	300	1
SC32	34 8 0	84 35 10	7	.3	N	.5	500	20	300	1
SC33	34 7 52	84 35 54	5	1	1.5	.15	700	N	150	N
SC34	34 12 54	84 30 17	5	.5	.03	.5	70	--	3,000	1.5
SC35	34 12 53	84 30 17	7	1.5	.15	.7	500	--	3,000	1.5
SC36	34 9 4	84 33 35	3	.7	.3	.2	150	--	500	1.5
SC37	34 9 15	84 33 23	10	.5	.07	.7	150	--	1,000	2
SC38	34 9 15	84 33 23	7	.3	.03	.3	300	--	500	1.5
SC39	34 8 41	84 33 39	7	3	3	.15	700	--	50	N
SC40	34 9 14	84 35 5	5	.3	.015	.15	30	--	500	N
SC42	34 7 31	84 36 8	7	.3	.03	.5	70	--	700	3
SC43	34 7 58	84 36 2	7	.5	.1	.7	200	--	2,000	1.5
SC44	34 7 59	84 36 3	7	5	3	.3	700	--	30	N
SC45	34 8 0	84 36 3	10	7	7	.7	700	--	30	N
SC46	34 8 4	84 36 8	1.5	.2	.2	.07	200	--	300	N
SC47	34 11 2	84 33 20	>10	5	7	.7	1,000	--	30	N
SC48	34 11 2	84 33 20	>10	7	3	.7	1,500	--	30	1.5
SC49	34 11 2	84 33 20	2	3	7	.015	1,000	--	100	N
SC50	34 11 2	84 33 20	1	.7	1.5	.15	150	--	300	1.5
SC51	34 10 40	84 34 35	7	.2	.07	.5	300	--	700	1
SC52	34 12 2	84 30 17	7	.3	<.05	.7	1,500	150	700	3
SC53	34 12 2	84 30 17	1.5	.03	<.05	.15	500	<10	100	<1
SCC01	34 9 41	84 33 17	15	<.02	<.05	.02	2,000	N	100	N
SCC02	34 9 41	84 33 17	10	.15	.05	.3	2,000	15	200	N
SCC03	34 9 41	84 33 17	7	.1	.07	.2	2,000	10	150	1
SCC04	34 9 50	84 33 15	15	3	5	.5	1,500	<10	150	N
SCC05	34 9 50	84 33 15	15	1.5	2	.3	1,000	N	100	N

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s
RO31	20	50	50	N	N	N	20	50	10	N	150
RO32	<5	5	7	<20	N	N	7	10	<5	N	10
RO33	20	100	50	50	N	10	30	30	20	<100	200
RO34	5	5	5	N	N	N	5	<10	<5	N	10
SC01	20	100	70	70	N	N	30	20	15	100	50
SC02	10	50	7	50	N	N	30	N	10	N	50
SC03	N	N	3	N	N	N	<2	N	N	N	10
SC04	15	100	15	70	N	10	30	15	15	150	70
SC05	30	70	30	100	N	10	30	<10	15	70	70
SC06	50	70	30	20	N	N	30	10	10	50	70
SC07	N	150	50	N	N	N	20	30	15	300	100
SC08	70	5	30	20	N	N	30	N	<5	N	20
SC09	30	30	100	70	N	10	30	10	15	70	30
SC11	30	150	50	N	N	N	30	N	30	70	150
SC12	10	30	15	20	N	10	15	10	10	N	70
SC13	15	70	20	N	N	15	20	15	15	70	70
SC14	20	70	10	30	N	15	30	10	15	70	70
SC15	15	7	15	20	N	N	7	N	5	N	20
SC16	30	30	100	20	N	N	15	N	20	N	200
SC17	<10	7	15	N	N	N	5	N	N	N	15
SC18	15	30	15	<20	N	N	30	N	10	N	70
SC19	15	100	20	20	N	10	30	10	15	150	70
SC20	30	10	10	N	N	N	20	<10	20	N	70
SC21	30	N	10	20	N	N	3	N	7	N	70
SC22	30	5	70	70	N	N	3	10	15	N	70
SC23	50	150	100	70	N	N	70	30	30	N	200
SC24	30	10	7	N	N	N	3	N	N	N	20
SC25	15	70	10	20	N	15	20	20	15	N	70
SC26	<10	N	5	N	N	N	2	N	N	N	15
SC27	30	30	70	20	N	N	20	20	15	N	100
SC28	N	70	30	N	5	10	20	15	15	100	100
SC29	15	70	70	30	N	10	15	20	15	50	100
SC30	10	70	20	50	N	10	15	15	15	N	70
SC31	15	30	10	20	N	10	15	20	7	N	30
SC32	15	70	30	N	N	15	20	10	15	70	70
SC33	15	20	30	N	N	N	7	10	10	150	50
SC34	3	70	50	N	10	10	5	150	--	70	150
SC35	15	100	70	70	N	10	20	70	--	100	200
SC36	5	30	30	N	N	N	7	100	--	100	100
SC37	7	100	20	70	N	20	15	70	--	200	200
SC38	20	100	70	50	N	10	20	70	--	70	150
SC39	20	150	70	N	N	N	50	20	--	70	200
SC40	5	30	20	N	N	N	10	15	--	15	100
SC42	7	70	20	50	N	20	30	70	--	70	150
SC43	15	150	70	N	N	10	15	50	--	200	300
SC44	20	150	150	N	N	N	20	15	--	150	150
SC45	70	300	30	N	N	N	150	20	--	200	500
SC46	3	2	20	N	N	N	N	15	--	30	20
SC47	30	300	3	N	N	N	70	70	--	300	500
SC48	100	300	300	N	N	N	30	20	--	15	500
SC49	N	1.5	50	N	N	N	N	20	--	70	N
SC50	N	2	1	N	N	10	N	30	--	100	15
SC51	10	100	50	N	N	10	20	50	--	70	150
SC52	30	150	70	<20	N	30	70	50	20	<100	150
SC53	15	10	15	<20	N	<10	10	10	<5	N	30
SCC01	30	5	15	N	N	N	20	N	N	N	30
SCC02	70	150	70	N	N	N	50	20	30	50	150
SCC03	70	150	70	N	N	N	50	N	20	N	70
SCC04	30	5	150	N	N	N	7	15	30	150	200
SCC05	50	5	15	N	N	N	7	20	15	70	70

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Cu-ppm aa	Pb-ppm aa	Mo-ppm aa
RO31	N	10	N	100	N	--	--	21	47	36	2
RO32	N	<10	N	10	N	--	--	6	5	12	3
RO33	N	30	<200	150	N	--	--	90	55	12	4
RO34	N	N	N	10	N	--	--	5	5	<5	4
SC01	N	30	N	150	<.02	.03	<10	120	80	<25	--
SC02	N	30	N	300	<.02	.015	10	80	65	<25	--
SC03	N	5	N	150	<.02	.015	<10	25	17	<25	--
SC04	N	30	N	70	<.02	.08	<10	65	32	<25	--
SC05	N	30	N	70	<.02	.025	<10	100	210	<25	--
SC06	N	N	N	150	<.02	.04	80	<25	80	<25	--
SC07	N	N	N	70	<.02	.025	<10	<25	80	<25	--
SC08	N	N	N	50	<.02	.07	<10	<25	150	<25	--
SC09	N	7	N	150	<.02	.06	<10	<25	120	<25	--
SC11	N	20	N	70	<.02	.04	<10	<25	130	<25	--
SC12	N	10	N	150	<.02	.06	<10	25	28	<25	--
SC13	N	N	N	150	<.02	.04	<10	25	50	<25	--
SC14	N	20	N	150	<.02	.025	<10	75	33	<25	--
SC15	N	7	N	30	<.02	.03	<10	<25	14	<25	--
SC16	N	15	N	100	<.02	.015	<10	55	120	<25	--
SC17	N	5	N	15	<.02	.025	<10	<25	11	<25	--
SC18	N	7	N	150	<.02	.025	<10	50	32	<25	--
SC19	N	15	N	100	<.02	.08	<10	85	65	<25	--
SC20	N	<5	N	30	.98	.015	<10	<25	<10	<25	--
SC21	N	5	N	10	<.02	.03	<10	<25	17	<25	--
SC22	N	20	N	100	<.02	.025	<10	<25	80	<25	--
SC23	N	30	N	150	<.02	<.01	<10	40	80	<25	--
SC24	N	5	N	30	<.02	.03	<10	<25	16	<25	--
SC25	N	30	N	150	<.02	.015	10	95	19	<25	--
SC26	N	5	N	N	<.02	.025	<10	<25	15	<25	--
SC27	N	20	N	100	<.02	.025	20	70	90	<25	--
SC28	N	7	N	150	.02	<.01	60	<25	16	<25	--
SC29	N	N	N	100	<.02	<.01	<10	<25	25	<25	--
SC30	N	15	N	150	<.02	.015	10	85	28	<25	--
SC31	N	15	N	150	<.02	.015	<10	80	50	<25	--
SC32	N	7	N	200	<.02	.06	<10	<25	17	<25	--
SC33	N	5	N	50	<.02	.08	<10	45	120	<25	--
SC34	N	30	N	200	.02	.9	10	<25	50	<25	--
SC35	N	50	N	200	<.02	.85	<10	110	25	<25	--
SC36	N	20	N	70	<.02	.8	10	70	50	<25	--
SC37	N	30	N	500	<.02	.95	<10	<25	15	<25	--
SC38	N	20	N	150	<.02	1.2	<10	30	25	<25	--
SC39	N	50	N	20	<.02	.63	10	<25	25	<25	--
SC40	N	N	N	50	<.02	1.2	10	25	18	<25	--
SC42	N	30	N	500	.02	1.2	30	30	15	<25	--
SC43	N	30	N	200	<.02	1.2	<10	90	25	<25	--
SC44	N	30	N	50	<.02	.85	<10	40	120	<25	--
SC45	N	70	N	50	<.02	.63	<10	25	15	<25	--
SC46	N	15	N	100	<.02	.75	<10	30	15	<25	--
SC47	N	50	N	70	<.02	.53	<10	70	14	<25	--
SC48	N	50	500	50	<.02	.8	10	110	210	<25	--
SC49	N	20	N	10	.02	.75	30	25	25	<25	--
SC50	N	30	N	200	<.02	.48	<10	<25	15	<25	--
SC51	N	15	N	300	<.02	1.6	<10	<25	25	<25	--
SC52	N	<10	<200	200	N	--	--	26	30	<5	2
SC53	N	<10	N	30	N	--	--	7	8	<5	2
SCC01	N	7	N	N	<.02	.07	<10	<25	65	<25	--
SCC02	N	<5	N	100	<.02	.015	<10	35	80	<25	--
SCC03	N	N	N	100	.03	.015	<10	<25	65	<25	--
SCC04	N	10	N	50	.33	.04	<10	350	190	<25	--
SCC05	N	5	N	30	524	.12	<10	35	90	<25	--

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
SCC06	34 9 50	84 33 15	10	3	3	.5	700	N	200	N
SCC07	34 9 47	84 33 18	10	.1	N	.3	1,500	30	300	1
SCC08	34 9 47	84 33 18	5	.03	<.05	.15	2,000	30	300	<1
SCC09	34 9 47	84 33 18	10	.15	N	.2	3,000	70	700	2
SCC10	34 9 47	84 33 18	10	.15	N	.2	3,000	15	700	1
SCC11	34 9 47	84 33 17	7	.2	N	.2	1,500	70	300	1
SCC12	34 9 47	84 33 17	3	.1	N	.07	700	20	150	N
SCC13	34 9 47	84 33 17	10	.2	N	.2	5,000	70	500	2
SCC14	34 9 47	84 33 18	10	.1	N	.2	2,000	200	300	1
SCC15	34 9 47	84 33 18	10	.1	N	.3	5,000	200	700	1
SCC16	34 9 47	84 33 24	15	.5	N	.5	2,000	N	70	N
SCC17	34 9 47	84 33 24	10	1	.05	.2	5,000	N	500	2
SCC18	34 9 47	84 33 24	10	1	.07	.2	5,000	N	700	2
SCC19	34 9 47	84 33 24	10	.7	<.05	.3	1,500	N	70	N
SCC20	34 9 47	84 33 24	10	.5	N	.2	5,000	20	700	2
SCC21	34 9 47	84 33 24	10	.3	N	.3	3,000	100	700	3
SCC22	34 9 48	84 33 20	5	.3	N	.15	700	10	150	N
SCC23	34 9 49	84 33 19	15	.2	N	.2	3,000	300	500	1
SCC24	34 9 49	84 33 19	7	.2	N	.15	1,500	200	500	1
SCC25	34 9 49	84 33 18	15	.2	<.05	.5	700	100	70	N
SCC26	34 9 49	84 33 18	15	.3	<.05	.7	1,000	70	70	N
ST01	34 4 45	84 45 20	5	1.5	.07	.3	70	10	700	N
ST02	34 4 45	84 45 20	1	.15	.05	.07	150	N	150	N
ST03	34 1 45	84 51 25	7	.3	N	.2	300	50	300	1
ST04	34 1 45	84 51 25	3	.07	N	.15	1,000	N	300	N
ST05	34 1 45	84 52 20	15	5	3	.2	1,500	N	N	N
ST06	34 1 45	84 51 15	5	.7	N	.3	500	20	700	1
ST07	34 1 45	84 51 15	2	.03	N	.03	1,500	N	70	N
ST08	34 1 45	84 51 15	7	.3	N	.5	1,000	15	300	N
ST09	34 1 45	84 51 15	7	N	N	.05	1,000	10	70	N
ST10	34 1 45	84 51 15	7	.7	N	.3	200	20	500	1
ST11	34 1 45	84 51 15	10	.15	N	.7	700	N	300	N
ST12	34 2 35	84 50 10	7	.5	N	.3	100	30	300	N
ST13	34 2 35	84 50 10	.3	.02	N	.05	50	N	70	N
ST14	34 2 42	84 50 0	5	.7	N	.3	200	30	300	1
ST15	34 2 42	84 50 0	5	.7	N	.3	200	20	700	N
ST16	34 3 0	84 45 56	10	>10	.1	.15	1,500	<10	100	<1
ST17	34 2 24	84 46 10	3	1.5	2	.5	1,000	<10	1,500	3
ST18	34 2 24	84 46 10	.3	.07	.15	.03	30	N	300	<1
ST19	34 2 20	84 46 37	10	1.5	<.05	1	1,500	15	1,500	2
ST20	34 2 20	84 46 37	.7	.07	<.05	.7	50	N	100	<1
ST21	34 1 22	84 47 20	10	1	<.05	>1	1,500	30	1,500	1.5
ST22	34 3 11	84 47 0	10	>10	3	.1	1,500	<10	15	<1
ST23	34 3 20	84 47 22	10	2	5	.5	1,500	30	500	1.5
ST24	34 3 32	84 48 10	7	1.5	<.05	.5	1,500	15	700	3
ST25	34 3 32	84 48 10	1	.2	<.05	.07	1,000	N	300	<1
ST26	34 3 40	84 48 25	15	3	10	>1	5,000	<10	70	<1
ST27	34 3 40	84 48 25	1.5	.5	.3	.2	1,500	N	70	<1
ST28	34 4 8	84 49 36	10	1.5	<.05	1	2,000	30	1,500	3
ST29	34 4 8	84 49 36	.7	.1	<.05	.15	1,000	<10	150	<1
ST30	34 0 19	84 54 59	7	.5	<.05	.5	>5,000	30	700	2
ST31	34 0 19	84 54 59	2	.15	<.05	.07	>5,000	15	500	<1
ST32	34 0 17	84 55 9	3	.5	<.05	1	30	200	1,500	2
T01	34 15 12	84 25 5	7	1.5	.07	.5	500	30	300	1
T02	34 15 52	84 21 36	7	1.5	.05	.5	500	30	700	1
T03	34 16 8	84 22 3	5	.5	N	.5	70	150	500	1
T04	34 16 8	84 22 3	3	.1	N	.15	70	10	200	N
T05	34 16 34	84 22 18	7	1.5	.07	.3	300	20	300	1
T06	34 15 25	84 21 38	5	.3	N	.2	300	10	50	N
T07	34 15 12	84 21 40	7	.7	N	.5	300	10	700	N

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s
SCC06	20	5	70	N	N	N	5	N	20	150	150
SCC07	50	70	20	N	N	N	20	N	15	N	70
SCC08	20	20	20	N	N	N	20	N	10	N	70
SCC09	70	30	50	N	N	N	30	10	15	N	70
SCC10	50	15	150	N	N	N	30	10	10	N	70
SCC11	30	70	30	N	N	N	20	10	20	N	70
SCC12	50	N	20	N	N	N	2	N	5	N	20
SCC13	70	20	70	N	N	10	50	N	10	N	100
SCC14	70	15	100	N	N	N	20	N	10	N	100
SCC15	70	30	150	N	N	N	50	10	15	N	150
SCC16	70	20	70	N	N	N	30	15	30	N	300
SCC17	30	30	100	50	N	N	50	30	15	N	150
SCC18	50	30	150	70	N	15	30	20	15	N	100
SCC19	30	70	70	30	N	N	20	10	70	N	200
SCC20	30	30	150	30	N	N	50	30	10	N	70
SCC21	30	100	70	50	N	N	30	15	15	N	70
SCC22	20	<5	10	N	N	N	5	N	7	N	20
SCC23	70	70	150	N	N	N	70	10	15	N	100
SCC24	15	20	20	N	N	10	15	10	15	N	70
SCC25	15	50	15	N	N	N	10	N	30	N	300
SCC26	20	10	20	N	N	N	10	15	30	N	200
ST01	10	150	15	20	N	10	30	10	15	70	100
ST02	N	5	15	N	N	N	2	N	N	N	20
ST03	10	70	70	30	N	N	15	20	10	50	100
ST04	20	10	30	70	N	N	3	N	5	N	70
ST05	50	30	1,000	N	N	N	15	30	30	300	150
ST06	50	70	20	50	N	15	30	20	15	N	100
ST07	100	5	30	N	N	N	7	N	N	N	20
ST08	70	20	150	N	N	N	20	N	30	N	300
ST09	100	20	20	N	N	N	10	N	N	N	70
ST10	10	70	30	N	N	10	30	15	15	N	100
ST11	50	70	100	N	N	N	20	N	30	N	150
ST12	10	150	30	N	N	15	30	10	20	N	150
ST13	N	N	20	N	N	N	N	N	N	N	20
ST14	15	50	20	N	N	10	30	10	15	50	100
ST15	15	70	20	20	N	15	20	N	15	N	100
ST16	150	>5,000	5	<20	N	<10	3,000	<10	15	N	150
ST17	<5	N	30	30	N	15	10	70	10	150	70
ST18	N	15	15	20	N	<10	<5	<10	N	N	10
ST19	20	150	100	70	N	30	15	30	20	N	150
ST20	N	10	7	<20	N	<10	N	<10	<5	<100	10
ST21	15	200	50	30	N	30	15	30	30	<100	200
ST22	150	5,000	5	<20	N	10	1,500	<10	15	N	30
ST23	15	70	30	20	N	10	15	20	15	200	150
ST24	15	7	30	50	N	15	10	30	7	N	70
ST25	10	<5	15	20	N	10	5	15	<5	N	15
ST26	70	150	100	<20	N	10	100	10	70	<100	700
ST27	10	5	15	<20	N	<10	10	<10	5	N	30
ST28	30	150	50	150	N	20	20	15	20	N	150
ST29	30	15	20	<20	N	<10	<5	<10	<5	N	15
ST30	30	70	150	30	N	20	20	30	15	N	150
ST31	30	50	20	70	N	<10	15	15	<5	<100	50
ST32	N	200	50	70	20	15	10	30	30	150	300
T01	15	70	30	30	N	10	30	15	15	50	70
T02	20	70	20	150	N	10	30	20	15	150	70
T03	N	70	20	N	N	15	7	10	10	70	50
T04	N	7	20	N	N	N	5	N	5	N	20
T05	30	70	30	50	N	10	50	20	10	<50	70
T06	<10	N	10	N	N	N	N	N	10	N	15
T07	10	70	50	70	N	N	30	30	20	50	70

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Cu-ppm aa	Pb-ppm aa	Mo-ppm aa
SCC06	N	10	N	30	.18	.1	<10	<25	120	<25	--
SCC07	N	5	N	50	.07	<.01	<10	25	65	<25	--
SCC08	N	7	N	30	.05	<.01	<10	40	30	<25	--
SCC09	N	5	N	70	<.02	.015	<10	25	80	<25	--
SCC10	N	10	N	70	.07	.025	<10	30	110	<25	--
SCC11	N	7	N	150	.02	.015	<10	85	65	<25	--
SCC12	N	10	N	70	<.02	.015	<10	450	23	<25	--
SCC13	N	7	N	100	<.02	.05	<10	700	90	<25	--
SCC14	N	7	N	100	.57	<.01	10	50	120	<25	--
SCC15	N	7	N	150	6.8	.015	<10	30	90	<25	--
SCC16	N	20	N	70	<.02	.03	<10	45	80	<25	--
SCC17	N	30	N	70	<.02	.03	<10	95	110	<25	--
SCC18	N	30	N	100	<.02	.04	<10	70	110	<25	--
SCC19	N	50	N	100	<.02	.025	<10	30	80	<25	--
SCC20	N	30	N	100	<.02	<.01	10	45	80	<25	--
SCC21	N	30	N	100	.04	.015	<10	50	80	<25	--
SCC22	N	20	N	150	.18	.06	<10	25	65	<25	--
SCC23	N	7	N	100	.49	<.01	<10	45	160	<25	--
SCC24	N	10	N	100	.02	.03	<10	<25	18	<25	--
SCC25	N	5	N	70	<.02	.015	<10	<25	4	<25	--
SCC26	N	7	N	50	.08	<.01	40	<25	19	<25	--
ST01	N	15	N	100	.17	.06	<10	70	80	<25	--
ST02	N	7	N	20	<.02	.04	<10	<25	30	<25	--
ST03	N	10	N	100	<.02	<.01	<10	25	150	<25	--
ST04	N	5	N	70	<.02	.03	<10	<25	80	<25	--
ST05	N	10	N	15	.02	.17	<10	70	2,000	<25	--
ST06	N	15	N	200	.17	.08	10	50	65	<25	--
ST07	N	7	N	N	.09	.03	10	25	130	<25	--
ST08	N	10	N	100	9.34	.06	<10	35	230	<25	--
ST09	N	5	N	10	.08	.05	<10	25	90	<25	--
ST10	N	7	N	200	.02	.03	<10	25	19	<25	--
ST11	N	10	N	100	3.95	.015	10	25	160	<25	--
ST12	N	5	N	200	.05	<.01	20	50	130	<25	--
ST13	N	N	N	N	<.02	.05	<10	<25	50	<25	--
ST14	N	<5	N	200	.1	.04	20	45	50	<25	--
ST15	N	15	N	200	<.02	.06	10	55	65	<25	--
ST16	N	<10	<200	<10	N	--	--	21	<5	<5	<2
ST17	N	30	N	300	N	--	--	29	<5	<5	6
ST18	N	<10	N	<10	N	--	--	10	<5	<5	8
ST19	N	70	300	700	N	--	--	130	50	18	4
ST20	N	<10	N	<10	N	--	--	8	<5	<5	6
ST21	N	15	<200	300	N	--	--	21	22	14	4
ST22	N	<10	N	<10	N	--	--	40	<5	12	4
ST23	N	15	N	150	N	--	--	43	6	8	2
ST24	N	30	N	150	N	--	--	21	<5	24	4
ST25	N	10	N	<10	N	--	--	7	<5	20	6
ST26	N	70	N	200	N	--	--	20	51	<5	3
ST27	N	<10	N	<10	.02	--	--	9	14	<5	2
ST28	N	>200	N	300	N	--	--	58	28	8	2
ST29	N	15	N	<10	N	--	--	8	<5	<5	2
ST30	N	30	N	100	N	--	--	37	69	22	<2
ST31	N	10	N	50	N	--	--	12	28	20	4
ST32	N	30	N	200	N	--	--	20	40	14	16
T01	N	15	N	150	.02	.04	<10	95	90	<25	--
T02	N	20	N	150	<.02	<.01	<10	45	120	<25	--
T03	N	5	N	150	<.02	<.01	<10	<25	25	<25	--
T04	N	N	N	100	<.02	<.01	<10	<25	20	<25	--
T05	N	50	<200	200	<.02	.015	<10	145	90	<25	--
T06	N	7	N	50	<.02	.015	<10	45	10	<25	--
T07	N	5	N	150	<.02	.015	<10	<25	21	<25	--

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
T08	34 15 40	84 19 10	10	1.5	N	.5	1,000	N	300	N
T09	34 15 48	84 18 55	7	1.5	N	.2	1,500	50	300	1
T10	34 17 25	84 18 28	1.5	.15	N	.2	50	10	300	N
T11	34 17 35	84 18 5	10	1.5	N	.7	700	30	500	N
T12F	34 17 30	84 17 55	10	10	3	.15	1,500	N	15	N
T12W	34 17 30	84 17 55	7	>10	2	.1	700	--	30	N
T13	34 17 35	84 17 8	7	.15	.05	.05	70	15	300	N
T14	34 17 35	84 17 8	3	.07	.2	.15	150	N	70	N
T15	34 17 35	84 17 8	<.05	.02	.07	.015	50	20	30	N
T16	34 17 44	84 17 8	7	3	3	.3	700	N	70	N
T17	34 17 35	84 17 8	7	.2	<.05	.15	70	15	200	N
T18	34 17 32	84 16 25	5	1.5	1	.3	500	N	300	1
T19	34 17 32	84 16 25	5	1	.7	.5	500	--	300	1
T20	34 17 32	84 16 25	1.5	.015	<	.07	20	--	70	N
T21	34 17 32	84 16 25	5	.7	.03	.3	500	--	700	N
T22	34 17 32	84 16 25	5	1.5	3	.15	700	--	500	N
T23	34 17 32	84 16 25	1	.3	.5	.07	150	--	300	N
T24	34 17 20	84 16 32	5	.2	.03	.15	300	--	500	1.5
T25	34 17 20	84 16 32	10	.1	.007	.5	1,000	--	70	1.5
T26	34 17 20	84 16 32	5	.3	.02	.3	500	--	700	1
T27	34 17 25	84 16 22	7	1	.7	.3	500	--	700	1.5
T28	34 19 50	84 15 52	7	.7	.03	.5	300	--	700	1
T29	34 19 25	84 15 57	7	.3	.07	.5	500	--	700	1.5
T30	34 18 30	84 16 12	7	.7	.1	.5	500	--	1,000	1.5
T31	34 17 35	84 16 18	7	.7	.03	.3	500	--	700	1
T32	34 17 35	84 16 18	2	.015	.007	.02	30	--	100	N
T33	34 17 35	84 16 18	5	.3	.015	.1	700	--	100	N
T34	34 17 12	84 17 5	5	.7	.03	.5	500	--	700	1
T35	34 17 12	84 17 5	.7	.015	.007	.01	50	--	70	N
T36	34 16 42	84 17 50	5	1	.05	.3	700	--	200	N
T39	34 16 9	84 15 35	7	.7	<.05	1	2,000	<10	500	1.5
T40	34 16 9	84 15 35	3	.3	<.05	.7	700	<10	300	<1
TA01	33 40 14	85 15 35	10	.5	<.05	.7	200	150	1,500	2
TA02	33 40 14	85 15 35	.7	.02	<.05	.03	30	<10	70	N
TA03	33 42 43	85 16 16	10	.7	<.05	.3	3,000	100	300	1
TA04	33 42 44	85 16 17	3	.05	<.05	.1	700	20	100	N
TA05	33 42 46	85 16 17	1	.07	<.05	.07	70	<10	300	N
TA06	33 42 47	85 16 18	5	.5	<.05	.15	700	20	500	2
TA07	33 42 47	85 16 18	5	.3	<.05	.7	300	50	700	1
TA08	33 42 47	85 16 18	7	.3	<.05	.3	3,000	30	300	<1
TA09	33 44 17	85 15 32	7	.07	<.05	.5	300	70	500	3
TA10	33 44 17	85 15 32	1	.05	<.05	.1	200	<10	70	<1
TA11	33 44 21	85 15 58	5	.7	N	.5	200	70	700	2
TA12	33 44 21	85 15 58	3	.2	<.05	.15	500	10	300	1.5
TA13	33 44 28	85 16 27	7	.7	N	.5	1,500	50	700	5
TA14	33 44 28	85 16 27	1	.05	<.05	.05	5,000	<10	100	<1
TA15	33 44 36	85 18 8	7	.7	<.05	.5	500	70	700	5
TA16	33 44 25	85 20 5	7	.7	<.05	.7	700	70	700	3
TA17	33 44 18	85 17 27	7	.5	<.05	.7	500	70	1,000	2
TA18	33 44 18	85 17 27	5	.3	<.05	.7	200	50	1,500	2
TA19	33 43 52	85 17 32	7	.3	<.05	.3	2,000	15	200	1
TA20	33 43 24	85 17 35	5	.2	<.05	.7	300	70	300	1.5
TA21	33 43 24	85 17 35	.5	.02	<.05	.05	300	<10	70	N
TA22	33 42 45	85 17 53	2	.5	<.05	.5	150	100	1,000	3
TA23	33 42 45	85 17 53	7	.5	<.05	.5	20	70	1,500	2
TA24	33 42 45	85 17 53	.7	.02	<.05	.02	70	<10	100	N
TA25	33 42 20	85 18 12	7	.7	<.05	.7	200	70	2,000	2
TA26	33 42 1	85 18 14	7	1.5	<.05	1	5,000	<10	500	2
TA27	33 42 0	85 18 14	7	.5	<.05	.7	1,000	10	1,500	2
TA28	33 42 0	85 18 14	5	.3	<.05	.7	300	20	700	1.5

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s
T08	30	70	70	50	N	10	50	20	20	N	150
T09	30	30	15	N	N	N	50	10	20	N	150
T10	N	N	7	20	N	N	N	N	N	N	10
T11	30	100	70	20	N	15	70	10	20	70	70
T12F	70	2,000	30	N	N	N	300	N	30	N	70
T12W	70	1,000	100	N	N	N	700	10	--	10	150
T13	20	5	15	N	N	N	<2	30	5	N	10
T14	N	N	20	N	N	N	<2	70	7	N	15
T15	70	N	30	N	N	N	<2	300	N	N	10
T16	30	5	20	N	N	N	3	15	20	150	150
T17	N	N	200	N	N	N	<2	30	10	N	20
T18	15	50	20	30	N	10	30	30	15	100	50
T19	15	50	50	30	N	10	20	100	--	150	100
T20	10	3	30	N	N	N	3	30	--	N	10
T21	10	50	70	30	N	10	15	70	--	30	100
T22	10	20	70	N	N	N	7	30	--	100	150
T23	5	5	70	N	N	N	3	50	--	30	30
T24	10	20	30	N	N	10	20	700	--	N	100
T25	100	70	150	30	N	N	100	500	--	N	300
T26	15	70	20	30	N	10	30	30	--	20	100
T27	10	50	30	70	N	15	20	50	--	70	100
T28	15	50	20	150	N	15	30	50	--	30	100
T29	30	100	50	N	N	10	20	30	--	70	150
T30	20	70	30	70	N	15	30	30	--	150	150
T31	15	70	50	N	N	10	15	20	--	15	100
T32	5	2	150	N	N	N	N	10	--	N	10
T33	20	30	150	30	N	N	10	15	--	N	150
T34	15	70	50	30	N	10	20	15	--	15	150
T35	15	3	70	N	N	N	N	N	--	N	10
T36	20	50	50	30	N	10	30	15	--	10	150
T39	50	100	100	30	N	20	50	50	20	N	150
T40	15	50	20	30	N	15	20	15	10	N	100
TA01	<5	150	50	20	15	10	20	50	30	<100	300
TA02	<5	5	5	N	N	N	5	N	<5	N	15
TA03	50	150	30	N	N	N	50	30	30	N	200
TA04	5	10	20	N	N	N	30	<10	15	N	15
TA05	<5	5	7	20	N	N	5	<10	5	N	15
TA06	20	150	20	N	N	N	50	30	30	N	200
TA07	<5	30	15	N	N	10	10	20	10	N	100
TA08	70	200	50	N	N	N	70	20	30	N	300
TA09	<5	70	50	N	N	10	20	20	20	N	200
TA10	5	5	7	N	N	N	7	<10	<5	N	15
TA11	<5	100	30	70	N	15	15	20	20	<100	300
TA12	5	20	10	50	N	<10	10	<10	5	N	30
TA13	30	100	30	100	N	10	30	30	20	<100	200
TA14	500	<5	20	100	N	N	50	10	<5	N	15
TA15	30	100	50	70	N	15	30	70	20	N	200
TA16	10	70	10	70	N	20	15	10	30	N	200
TA17	7	100	50	20	N	15	30	30	20	N	300
TA18	<5	50	30	30	N	10	10	50	20	N	200
TA19	30	150	100	N	N	N	70	50	30	N	300
TA20	5	30	20	N	N	15	20	15	15	N	100
TA21	20	<5	5	N	N	N	7	10	<5	N	10
TA22	<5	100	30	20	7	10	15	70	20	N	300
TA23	<5	100	50	<20	5	10	15	30	30	<100	200
TA24	10	5	10	N	N	N	7	<10	<5	N	15
TA25	5	100	50	50	15	15	15	70	20	<100	300
TA26	70	100	100	70	N	10	70	50	30	N	300
TA27	150	150	150	70	10	10	50	50	20	N	500
TA28	<5	50	30	N	N	10	20	15	15	N	100

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Cu-ppm aa	Pb-ppm aa	Mo-ppm aa
T08	N	30	N	150	<.02	.015	<10	125	90	<25	--
T09	N	5	N	100	<.02	<.01	<10	75	80	<25	--
T10	N	7	N	200	<.02	.03	160	<25	65	<25	--
T11	N	15	N	150	<.02	.03	10	96	120	<25	--
T12F	N	5	N	N	<.02	.1	<10	25	90	<25	--
T12W	N	15	N	10	<.02	.58	<10	<25	25	<25	--
T13	N	15	N	70	<.02	.16	<10	<25	80	<25	--
T14	N	15	300	100	.03	.28	<10	45	24	<25	--
T15	N	5	700	10	.03	2.5	20	210	110	30	--
T16	N	15	N	50	<.02	.36	<10	35	22	<25	--
T17	N	20	200	100	.02	.3	10	120	310	<25	--
T18	N	20	N	150	.03	.28	<10	95	80	<25	--
T19	N	30	N	200	<.02	.56	<10	70	25	<25	--
T20	N	N	N	20	.9	.73	10	<25	25	<25	--
T21	N	30	N	100	.02	.85	<10	130	50	<25	--
T22	N	30	N	70	.73	.53	<10	80	50	<25	--
T23	N	10	N	70	.04	.53	<10	<25	80	<25	--
T24	N	N	N	70	<.02	.8	<10	25	15	60	--
T25	N	10	N	20	.04	1.5	<10	40	50	25	--
T26	N	20	N	300	.04	.94	<10	40	15	<25	--
T27	N	50	N	200	<.02	.75	<10	110	25	<25	--
T28	N	70	N	500	<.02	.8	<10	145	15	<25	--
T29	N	<10	N	150	<.02	1.2	<10	<25	25	<25	--
T30	N	70	N	200	<.02	.69	<10	80	25	<25	--
T31	N	15	N	150	<.02	1.5	<10	70	25	<25	--
T32	N	N	N	10	.05	1.2	<10	<25	120	<25	--
T33	N	20	N	20	<.02	1.2	<10	40	50	<25	--
T34	N	30	N	150	.02	1.4	<10	80	25	<25	--
T35	N	N	N	N	<.02	.83	<10	<25	80	<25	--
T36	N	30	N	100	<.02	.85	<10	130	25	<25	--
T39	N	70	<200	500	N	--	--	76	37	24	2
T40	N	20	N	100	N	--	--	33	8	12	<2
TA01	N	<10	N	200	N	--	--	10	32	16	12
TA02	N	N	N	10	N	--	--	<5	6	<5	2
TA03	N	<10	N	150	N	--	--	20	24	16	2
TA04	N	<10	N	200	N	--	--	5	5	<5	<2
TA05	N	<10	N	20	N	--	--	<5	5	<5	<2
TA06	N	<10	N	150	N	--	--	15	18	20	<2
TA07	N	10	N	300	N	--	--	12	8	8	<2
TA08	N	N	N	70	N	--	--	32	41	10	2
TA09	N	10	N	300	N	--	--	15	23	8	<2
TA10	N	<10	N	10	N	--	--	<5	<5	<5	<2
TA11	N	30	N	300	N	--	--	11	17	<5	<2
TA12	N	15	N	50	N	--	--	13	8	8	<2
TA13	N	50	N	200	N	--	--	15	19	18	<2
TA14	N	30	N	10	N	--	--	50	33	10	2
TA15	N	30	N	300	N	--	--	21	26	30	<2
TA16	N	50	N	300	N	--	--	8	<5	<5	2
TA17	N	10	N	200	N	--	--	13	30	8	2
TA18	N	<10	N	300	N	--	--	<5	8	20	2
TA19	N	<10	N	70	N	--	--	26	36	20	2
TA20	N	15	N	1,000	N	--	--	9	5	8	<2
TA21	N	<10	N	20	N	--	--	<5	<5	8	<2
TA22	N	20	N	150	N	--	--	<5	30	48	<2
TA23	N	20	N	150	N	--	--	9	31	20	8
TA24	N	N	N	N	N	--	--	<5	12	<5	<2
TA25	N	<10	N	200	N	--	--	9	25	14	6
TA26	N	70	N	300	N	--	--	84	95	20	<2
TA27	N	10	N	200	N	--	--	26	92	22	4
TA28	N	<10	N	200	N	--	--	11	9	8	<2

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
TA29	33 41 5	85 17 54	7	.7	<.05	.7	1,000	70	700	3
TA30	33 41 5	85 17 54	.7	.07	<.05	.5	70	10	200	N
TA31	33 40 36	85 17 29	1.5	.3	<.05	.2	70	70	1,000	2
TA32	33 40 36	85 17 29	1	.03	<.05	.07	1,000	<10	50	N
TA33	33 40 36	85 17 29	3	.15	<.05	.15	500	50	100	<1
TA34	33 40 0	85 16 58	7	.7	N	.7	200	70	1,500	1.5
TA35	33 40 0	85 16 58	.5	.03	<.05	.03	30	<10	100	N
TA36	33 39 9	85 17 12	10	.5	<.05	.7	100	70	2,000	2
TA37	33 39 9	85 17 12	.7	.1	<.05	.07	20	70	500	N
TA38	33 43 54	85 16 58	15	.7	N	1	500	70	1,500	3
TA39	33 43 54	85 16 58	.3	.2	<.05	.03	700	<10	150	N
TA40	33 43 25	85 16 50	5	.1	<.05	.7	150	50	300	1
TA41	33 43 25	85 16 50	5	.1	<.05	.7	300	70	300	<1
TA42	33 43 20	85 16 49	.7	.03	<.05	.07	700	<10	70	N
TA43	33 42 56	85 16 47	10	1	N	.7	2,000	150	700	1
TA44	33 42 56	85 16 47	2	.3	<.05	.15	1,000	50	150	<1
TA45	33 42 52	85 16 40	5	.1	<.05	.5	300	50	300	<1
TA46	33 42 52	85 16 40	10	.3	N	.7	1,500	100	500	1
TA47	33 42 53	85 16 40	15	.15	<.05	.7	500	20	100	<1
TA48	33 42 39	85 17 14	15	3	<.05	.5	1,000	<10	N	N
TA49	33 42 44	85 17 3	5	2	<.05	.07	500	<10	100	N
TA50	33 42 33	85 16 57	3	.2	<.05	.15	700	<10	70	<1
TA51	33 42 33	85 16 57	10	.1	<.05	.1	700	<10	20	<1
TA52	33 42 30	85 16 56	10	3	7	.7	1,500	<10	50	N
TA53	33 42 32	85 16 56	2	.2	<.05	.2	700	<10	150	<1
TA54	33 42 45	85 16 44	10	2	<.05	.5	1,000	10	50	<1
TA55	33 42 33	85 16 19	10	5	10	.7	2,000	<10	70	N
TA56	33 41 20	85 15 43	10	.5	<.05	.7	3,000	20	1,000	1.5
TA57	33 41 20	85 15 43	1.5	.1	<.05	.03	500	<10	150	N
TA58	33 40 44	85 15 46	10	.7	<.05	1	300	70	2,000	2
TA59	33 40 44	85 15 46	.5	.03	<.05	.05	30	<10	100	N
TA60	33 41 40	85 17 25	5	.7	<.05	.3	50	20	2,000	1.5
TA61	33 41 40	85 17 25	3	.1	<.05	.1	30	15	500	<1
TA62	33 42 17	85 17 35	7	.7	<.05	.7	700	200	700	2
TA63	33 42 17	85 17 35	3	.7	<.05	.15	300	10	300	1.5
TA64	33 42 17	85 17 35	10	.3	<.05	.5	3,000	<10	70	1
TA65	33 37 36	85 16 20	10	1	.07	1	300	200	500	1
V01	33 43 56	84 57 52	3	1	2	.3	300	<10	300	1
V02	33 31 11	84 57 0	3	.5	<.05	.3	500	50	200	<1
V03	33 31 11	84 57 0	5	.2	<.05	.5	200	<10	200	<1
V04	33 31 32	84 58 38	7	.7	<.05	.5	1,000	50	500	2
V05	33 31 32	84 58 38	.5	.05	<.05	.03	100	<10	50	<1
V06	33 36 40	84 57 47	7	1.5	<.05	.7	1,500	30	1,000	2
V07	33 36 40	84 57 47	1	.07	<.05	.2	1,000	N	150	<1
V08	33 36 18	84 55 18	5	.3	<.05	1	1,500	70	700	1.5
V09	33 36 18	84 55 18	.07	.07	<.05	.15	300	N	150	<1
V10	33 35 23	84 53 5	7	.7	<.05	1	1,500	30	1,000	1.5
V11	33 35 15	84 51 50	7	.7	<.05	.7	300	30	1,500	3
V12	33 34 30	84 50 50	3	1.5	<.05	.7	2,000	300	1,000	1.5
V13	33 37 40	84 46 36	3	.2	<.05	1	500	30	700	1.5
V14	33 37 41	84 46 30	5	.5	.07	1	700	70	700	1.5
V15	33 37 42	84 46 40	5	.5	<.05	.7	1,500	70	700	1.5
V16	33 37 42	84 46 48	1.5	.2	.15	.2	1,000	N	1,000	3
V17	33 44 35	84 52 50	7	.03	<.05	1	1,500	N	30	<1
V18	33 44 54	84 53 15	1.5	.15	.7	.15	100	N	150	<1
V19	33 44 55	84 53 52	7	.7	3	.5	700	N	500	<1
V20	33 44 15	84 50 35	15	.02	<.05	.015	5,000	15	70	<1
V21	33 44 10	84 53 20	7	.7	.7	1	2,000	10	700	1
V22	33 44 10	84 53 20	5	1	3	.3	1,500	<10	700	2
V23	33 42 40	84 57 15	10	.7	<.05	.7	700	70	700	1.5

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s
TA29	30	100	50	<20	N	20	20	30	20	N	150
TA30	N	5	7	N	N	<10	10	10	5	N	30
TA31	<5	50	70	20	20	N	15	200	10	N	200
TA32	50	5	7	20	N	N	7	<10	<5	N	10
TA33	5	15	20	N	N	N	20	<10	15	N	20
TA34	5	150	50	N	10	20	30	50	30	N	300
TA35	N	<5	5	50	N	N	5	10	<5	N	20
TA36	<5	100	70	N	10	<10	15	30	20	N	300
TA37	N	5	5	N	5	N	5	N	5	N	30
TA38	5	100	20	N	N	15	30	30	30	N	200
TA39	50	5	5	N	N	N	7	N	<5	N	10
TA40	<5	30	10	<20	N	<10	15	<10	15	N	100
TA41	5	20	7	N	N	15	10	N	7	N	70
TA42	10	5	7	N	N	N	10	N	<5	N	20
TA43	30	150	150	30	N	N	70	30	30	N	300
TA44	10	10	10	N	N	N	20	N	5	N	70
TA45	<5	30	7	N	N	N	15	N	5	N	50
TA46	50	150	150	N	N	<10	50	30	20	N	300
TA47	20	200	150	N	N	N	200	N	30	N	200
TA48	30	300	1,000	N	N	N	70	<10	30	N	500
TA49	5	5	7	N	<5	N	5	N	7	N	15
TA50	10	5	20	<20	N	N	5	10	20	N	20
TA51	7	5	10	N	N	N	<5	10	20	N	30
TA52	50	150	150	N	N	N	70	N	50	150	500
TA53	7	5	30	N	N	N	15	<10	15	N	15
TA54	30	500	200	N	N	N	150	30	30	N	300
TA55	50	300	70	N	N	N	70	30	50	200	700
TA56	50	150	150	N	N	10	70	50	30	N	300
TA57	5	15	10	N	N	N	10	N	5	N	20
TA58	<5	150	30	<20	7	20	20	70	30	100	300
TA59	<5	5	7	N	N	N	5	<10	<5	N	10
TA60	<5	100	100	70	20	15	10	70	30	100	700
TA61	<5	20	30	20	7	N	7	<10	10	N	150
TA62	50	150	50	N	N	20	70	30	30	<100	300
TA63	7	20	20	<20	N	N	10	20	10	N	500
TA64	50	100	500	<20	N	N	50	150	30	N	300
TA65	30	150	150	20	N	20	70	50	30	<100	200
V01	5	5	7	<20	<2	<10	3	<10	5	1,500	30
V02	7	50	30	N	N	10	15	30	10	N	100
V03	5	70	50	20	N	<10	30	70	20	N	200
V04	30	70	70	70	N	10	70	20	20	N	150
V05	5	<5	<5	N	N	N	5	N	<5	N	10
V06	30	70	15	70	N	20	20	15	30	<100	150
V07	15	10	10	20	N	<10	10	<10	5	<100	30
V08	30	100	30	100	N	20	30	20	15	100	150
V09	10	15	10	30	N	<10	10	<10	<5	<100	20
V10	30	150	30	30	N	20	30	20	30	<100	150
V11	<5	150	30	100	N	15	15	70	30	<100	150
V12	30	150	70	150	N	15	20	30	30	<100	150
V13	<5	150	30	50	N	20	15	15	20	<100	200
V14	30	150	30	50	N	15	20	20	20	<100	200
V15	30	150	30	70	N	15	30	10	15	<100	150
V16	N	<10	10	20	N	15	5	30	7	<100	20
V17	150	500	150	<20	N	10	100	<10	70	N	300
V18	<5	N	5	<20	N	<10	<5	10	N	200	30
V19	10	50	50	20	N	<10	15	10	<5	1,500	70
V20	N	70	30	20	N	<10	10	<10	N	N	30
V21	20	100	50	30	N	15	15	10	15	150	150
V22	15	<5	20	<20	N	10	<5	30	10	200	70
V23	30	200	30	20	N	20	50	50	30	<100	200

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Cu-ppm aa	Pb-ppm aa	Mo-ppm aa
TA29	N	20	N	300	N	--	--	19	17	12	<2
TA30	N	N	N	30	N	--	--	<5	<5	16	<2
TA31	N	10	N	70	N	--	--	<5	50	200	20
TA32	N	10	N	100	N	--	--	8	<5	12	<2
TA33	N	<10	N	150	N	--	--	12	<5	<5	<2
TA34	N	<10	N	300	N	--	--	7	25	16	8
TA35	N	<10	N	10	N	--	--	<5	<5	<5	2
TA36	N	<10	N	200	N	--	--	8	28	10	4
TA37	N	<10	N	20	N	--	--	<5	<5	<5	4
TA38	300	20	N	500	N	--	--	15	<5	10	<2
TA39	50	<10	N	N	N	--	--	5	<5	<5	<2
TA40	N	30	N	500	N	--	--	<5	5	<5	2
TA41	N	20	N	500	N	--	--	8	<5	<5	<2
TA42	N	<10	N	30	N	--	--	<5	<5	<5	2
TA43	N	30	N	150	N	--	--	81	58	20	2
TA44	N	<10	N	30	N	--	--	25	16	16	2
TA45	70	N	N	300	.08	--	--	7	<5	<5	3
TA46	<50	20	N	150	N	--	--	31	50	28	<2
TA47	N	N	N	30	.2	--	--	20	65	10	<2
TA48	50	N	200	70	.5	--	--	310	960	10	<2
TA49	N	N	N	150	.04	--	--	27	<5	<5	4
TA50	N	<10	N	70	N	--	--	7	10	8	2
TA51	N	<10	N	70	N	--	--	16	9	16	2
TA52	N	30	N	70	N	--	--	28	78	<5	4
TA53	<50	50	N	100	.1	--	--	11	8	8	2
TA54	70	10	200	50	N	--	--	230	140	20	<2
TA55	<50	50	<200	70	N	--	--	39	43	6	2
TA56	<50	10	N	150	N	--	--	29	46	16	<2
TA57	N	<10	N	20	N	--	--	5	6	<5	2
TA58	50	<10	N	300	N	--	--	9	22	10	4
TA59	<50	N	N	10	N	--	--	<5	<5	<5	2
TA60	70	30	N	200	N	--	--	10	78	14	8
TA61	N	<10	N	50	N	--	--	10	47	5	4
TA62	70	<10	N	300	N	--	--	17	33	6	<2
TA63	N	30	N	200	N	--	--	10	8	8	2
TA64	N	20	300	100	N	--	--	150	180	74	<2
TA65	50	20	N	300	N	--	--	80	74	12	2
V01	<50	<5	<200	150	.02	.06	<10	150	80	<25	--
V02	N	30	N	500	N	--	--	34	18	10	3
V03	N	10	N	150	N	--	--	24	25	32	4
V04	N	50	<200	150	N	--	--	180	31	10	2
V05	N	N	N	30	N	--	--	9	<5	<5	3
V06	N	30	<200	300	N	--	--	35	8	6	2
V07	N	<10	N	100	N	--	--	7	6	<5	<2
V08	N	30	<200	300	N	--	--	9	27	<5	2
V09	N	<10	N	70	N	--	--	<5	5	<5	2
V10	N	50	N	300	N	--	--	29	19	6	<2
V11	N	30	<200	150	N	--	--	15	30	16	<2
V12	N	100	<200	150	N	--	--	83	32	10	2
V13	N	10	<200	500	N	--	--	7	14	6	8
V14	N	30	<200	300	N	--	--	21	22	10	2
V15	N	70	<200	700	N	--	--	56	17	10	2
V16	N	20	N	150	N	--	--	28	<5	8	2
V17	N	30	N	70	N	--	--	46	68	10	2
V18	N	N	N	70	N	--	--	12	<5	10	<2
V19	N	N	N	150	.02	--	--	35	<5	<5	3
V20	N	<10	N	<10	N	--	--	7	14	<5	2
V21	N	200	N	700	N	--	--	52	23	6	3
V22	N	15	N	70	N	--	--	44	<5	8	3
V23	N	<10	N	300	N	--	--	26	20	20	2

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
V24	33 42 40	84 57 15	2	.07	.07	.15	150	15	200	<1
V25	33 42 22	84 57 10	15	<.02	<.05	.007	>5,000	<10	150	<1
V26	33 41 18	84 57 5	15	.2	<.05	.7	>5,000	700	1,000	1.5
V27	33 43 55	84 54 5	15	.3	<.05	1	>5,000	30	700	1.5
V28	33 43 55	84 54 5	.3	<.02	<.05	.03	500	N	70	<1
WH1	33 27 57	84 58 24	.7	.5	.15	.05	300	<10	70	5
WH2	33 28 5	84 56 4	.7	.3	<.05	.03	200	<10	300	<1
WH3	33 29 10	84 54 25	10	7	1.5	.2	1,000	<10	70	<1

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s
V24	<5	30	20	20	N	<10	15	10	5	<100	30
V25	<5	10	30	20	N	15	15	10	<5	N	15
V26	70	70	150	20	N	15	30	30	20	N	200
V27	30	150	100	<20	N	15	30	100	30	<100	200
V28	<5	7	20	<20	N	<10	2	<10	<5	<100	15
WH1	<5	5	5	70	10	70	5	30	10	N	10
WH2	15	5	7	N	N	10	5	70	15	N	10
WH3	30	300	50	N	N	N	100	50	30	<100	300

Table 3. - Analysis of rock and saprolite samples.--Continued

Sample	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Au-ppm aa	Hg-ppm inst	As-ppm aa	Zn-ppm aa	Cu-ppm aa	Pb-ppm aa	Mo-ppm aa
V24	N	<10	N	70	N	--	--	6	7	<5	<2
V25	N	<10	N	N	N	--	--	9	6	<5	2
V26	N	<10	N	150	.02	--	--	15	48	24	2
V27	N	N	N	300	N	--	--	19	36	54	2
V28	N	N	N	N	N	--	--	<5	<5	<5	3
WH1	N	70	N	200	N	--	--	35	<5	6	4
WH2	N	10	N	150	N	--	--	18	5	44	2
WH3	N	15	200	20	N	--	--	94	49	6	4

Table 4. Southwest Dahlonega belt. Amphibolite and related rocks.

Lab No.	W-239378	W-239379	W-239380	W-239381	W-239382	W-239392	W-239394	W-239396	W-239400
Map No.	AC1	AC5	AC8	AC11	AC18	DL4	DL45	DLY8	RO22
Lat.	34° 5'N	34° 4'N	34° 5'N	34° 7'N	34° 6'N	33°51'N	33°58'N	33°55'N	33°27'N
Long.	84°42'W	84°43'W	84°43'W	84°40'W	84°42'W	84°59'W	84°52'W	84°58'W	85° 7'W
SiO_2 (%)	47.80	46.60	46.90	47.20	49.30	58.50	49.70	51.00	45.60
TiO_2	0.11	0.19	1.29	1.30	1.05	1.53	2.05	0.56	0.86
Al_2O_3	16.50	16.00	15.00	14.90	14.80	12.50	14.50	16.80	16.70
Fe_2O_3	2.14	2.34	6.11	4.33	3.97	7.24	7.13	2.80	8.05
FeO	3.20	5.50	7.50	7.80	7.60	7.00	8.00	5.60	4.00
MnO	0.09	0.13	0.21	0.18	0.21	0.63	0.22	0.12	0.36
MgO	10.70	11.20	7.60	8.20	8.48	3.18	5.49	5.27	5.24
CaO	17.80	15.30	11.60	12.10	9.70	3.56	8.16	10.20	16.70
Na_2O	0.41	0.94	2.98	2.78	3.76	5.20	3.69	2.64	2.06
K_2O	0.02	0.08	0.07	0.14	0.08	0.10	0.21	0.05	0.08
P_2O_5	<0.05	<0.05	0.11	0.11	0.09	0.27	0.19	0.09	0.10
FeS_2	<0.01	0.41	<0.01	0.06	0.02	<0.01	<0.01	<0.01	<0.01
H_2O^+	0.85	1.70	1.30	0.83	1.30	0.90	1.60	3.20	0.54
H_2O^-	0.15	0.13	0.38	0.17	0.20	0.30	0.78	0.09	0.08
CO_2	0.02	0.34	<0.01	1.40	0.44	0.01	<0.01	3.20	1.20
Σ	99.79	100.86	101.05	101.50	101.00	100.92	101.72	101.62	101.58
B (ppm)	2.0	6.0	89	3.0	2.0	120	16.0	<2.0	2.0
Cl	40	70	<40	<40	40	<40	<40	<40	<40
Sc	48	44	48	46	41	25.2	43	26.6	36
Cr	834	127	300	330	310	5.3	104	75	228
Co	33	59	44	46	45	56	45	29	43
Ni	160	92	62	95	93	<10	39	27	72
Cu	68	190	120	86	86	170	91	33	280
Zn	58	58	164	100	123	330	105	75	217
As	1.02	<2	<3	<3	<3	<4	4.3	<3	<4
Rb	4.0	4.0	<2	<2	5.0	<2	4.0	<2	2.0
Sr	87	95	216	187	175	79	119	330	330
Y	10	11	28	26	26	59	49	14	18
Zr	18	20	76	74	67	148	132	72	53
Nb	<1.0	<1.0	2.9	2.7	2.4	3.0	5.5	3.0	<1.0
Sb	0.190	0.180	0.240	<0.4	0.210	<0.3	0.240	<0.3	0.47
Cs	<0.5	<0.5	<0.5	<0.5	<0.5	<0.4	<0.5	<0.4	<0.4
Ba	9	9	51	11	32	21	53	20	19
La	1.09	0.93	3.7	3.59	2.65	7.0	7.5	10.4	5.1
Ce	1.80	1.79	9.4	9.5	7.2	18.0	17.5	20.2	12.5
Nd	<6	<27	<80	<29	7.3	15.9	14.9	<15	<12
Sm	0.48	0.60	2.99	2.94	2.32	5.5	5.1	2.57	2.66
Eu	0.177	0.231	1.07	1.02	0.79	1.56	1.60	0.62	0.91
Tb	0.121	0.160	0.68	0.67	0.55	1.30	1.10	0.37	0.54
Yb	0.49	0.62	2.94	2.61	2.22	5.7	4.4	1.39	2.26
Lu	0.082	0.106	0.46	0.39	0.34	0.87	0.65	0.216	0.34
Hf	0.230	0.45	1.96	1.94	1.44	3.7	3.3	1.76	1.47
Ta	<0.04	<0.04	0.24	0.25	0.18	0.24	0.42	0.25	0.075
Th	0.13	<0.2	0.23	0.29	0.24	1.02	0.47	3.7	0.96
U	<0.5	<0.2	<0.3	<0.3	<0.3	<0.5	0.23	1.6	0.22
Pd (ppb)	<0.5	<0.5	<0.5	1.0	3.6	<0.5	<0.5	<0.5	<0.5
Pt	<1.0	<1.0	<1.0	3.2	3.7	<1.0	<1.0	<1.0	<1.0
Au	<23	<19	<26	<26	<27	<27	<28	<23	<24

Table 4. Southwest Dahlonega belt. Amphibolite and related rocks.

Lab No.	W-239386	W-239401	W-239387	W-239388	W-239389	W-239383	W-239391	W-239397	W-239398
Map No.	SC44	SC45	SC47	SC48	SCC6	ST5	T16	TA52	TA55
Lat.	34° 7'N	34° 7'N	34°11'N	34°11'N	34° 9'N	34° 1'N	34°17'N	33°42'N	33°42'N
Long.	84°35'W	84°35'W	84°33'W	84°33'W	84°33'W	84°52'W	84°17'W	85°16'W	85°16'W
SiO_2 (%)	49.20	48.90	44.70	36.60	52.10	33.90	53.30	48.00	49.20
TiO_2	1.49	1.25	1.62	1.67	1.01	0.77	1.32	1.44	1.40
Al_2O_3	15.00	15.10	15.20	16.10	17.40	16.50	15.20	14.20	14.50
Fe_2O_3	6.40	5.23	5.03	10.49	4.16	9.63	4.57	7.17	7.06
FeO	7.50	7.20	10.40	14.80	6.80	7.80	7.20	6.80	5.00
MnO	0.20	0.18	0.27	0.36	0.16	0.28	0.16	0.19	0.23
MgO	7.05	7.81	7.57	10.10	3.95	7.54	3.96	6.28	5.81
CaO	10.00	10.60	11.00	6.21	7.18	7.85	8.80	11.30	11.40
Na_2O	2.66	3.38	2.29	1.29	3.92	0.27	3.38	2.68	3.34
K_2O	0.11	0.09	0.28	0.34	0.64	<0.02	0.23	0.13	0.10
P_2O_5	0.16	0.13	0.15	0.13	<0.05	0.11	0.10	0.13	0.07
FeS_2	<0.01	<0.01	<0.01	0.13	<0.01	10.10	2.81	<0.01	<0.01
H_2O^+	0.92	0.76	0.97	4.20	0.87	5.10	1.10	1.60	1.70
H_2O^-	0.38	0.34	0.12	0.40	0.07	0.32	0.44	0.88	0.89
CO_2	0.01	0.01	1.50	0.02	2.90	0.26	0.01	0.02	0.01
Σ	101.07	100.98	101.10	102.84	101.16	100.43	102.58	100.83	100.71
B (ppm)	3.0	2.00	3.0	5.0	8.0	2.00	8.0	6.0	8.0
Cl	<40	<40	60	90	<40	<40	40	<40	<40
Sc	45	47	49	49	31	38	39	45	49
Cr	185	310	300	290	5.8	39	6.1	128	179
Co	50	47	41	48	25.4	48	38	44	39
Ni	43	80	60	21	<10	10	<10	53	50
Cu	140	39	<10	160	66	2100	19	110	68
Zn	109	99	182	265	85	124	89	111	149
As	<5	<5	1.40	2.70	<3	4.6	<4	<4	4.9
Rb	<2	<2	7	11	17	4	<2	2	2
Sr	164	187	213	23	151	360	243	167	233
Y	38	29	33	36	19	21	36	37	49
Zr	96	63	106	103	49	45	87	90	79
Nb	3.3	1.6	6.3	5.7	1.9	<1.0	1.6	4.4	3.5
Sb	<0.3	<0.3	<0.3	0.27	<0.3	0.36	0.25	0.50	0.62
Cs	<0.5	<0.5	<0.5	0.65	0.30	<0.5	<0.5	<0.5	<0.5
Ba	24	20	25	34	283	5	64	32	53
La	5.9	3.5	6.0	4.6	3.9	6.3	7.6	6.2	11.2
Ce	12.8	7.8	15.4	10.1	8.5	12.0	16.0	11.4	11.8
Nd	12.5	<10	11.0	<8	5.7	11.5	12.5	9.5	14.9
Sm	3.9	2.70	3.6	2.90	2.18	2.63	4.2	3.4	4.5
Eu	1.28	0.94	1.44	0.77	0.74	0.93	1.35	1.16	1.55
Tb	0.90	0.70	0.76	0.79	0.48	0.51	0.91	0.79	1.01
Yb	3.8	2.76	3.1	2.8	1.89	1.74	3.9	3.4	4.2
Lu	0.61	0.41	0.46	0.45	0.247	0.31	0.59	0.51	0.63
Hf	2.49	1.60	2.50	2.47	1.44	1.09	2.34	2.24	1.97
Ta	0.30	0.205	0.43	0.42	0.234	0.053	0.127	0.32	0.260
Th	0.40	<0.30	0.46	0.34	0.99	0.91	1.15	0.43	0.38
U	<0.5	<0.5	<0.4	0.33	0.66	0.38	<0.5	<1	0.32
Pd (ppb)	36	2.3	0.7	<0.5	<0.5	<0.5	<0.5	0.8	<0.5
Pt	11.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Au	<27	<28	<25	18	254	62	<22	<26	<28

Table 4. Southwest Dahlonega belt. Soapstone, chlorite-amphibolite schist, mica schist.

Lab No.	W-239399	W-239362	W-239393	W-239395	W-239384	W-239385	W-239390	W-239363	W-239366
Map No.	BO4	BO14	DL23	DLP84	ST16	ST22	T12F	SCC4	T14
Lat.	33°31'N	33°32'N	33°45'N	33°45'N	34° 2'N	34° 3'N	34°17'N	34° 9'N	34°16'N
Long.	85°16'W	85°15'W	84°53'W	84°52'W	84°46'W	84°46'W	84°18'W	84°33'W	84°16'W
SiO_2 (%)	45.00	45.60	45.90	50.70	49.50	35.50	49.70	46.00	77.80
TiO_2	0.41	0.29	<0.02	0.03	0.16	0.08	0.34	1.01	0.37
Al_2O_3	11.50	9.13	9.39	5.95	5.48	16.80	5.48	16.70	10.60
Fe_2O_3	3.44	1.80	2.91	2.57	7.26	1.43	4.33	2.98	2.77
FeO	7.40	7.90	7.70	7.30	2.60	7.50	5.60	6.30	1.20
MnO	0.17	0.18	0.14	0.16	0.11	0.13	0.18	0.18	0.02
MgO	17.60	20.70	25.90	26.70	23.70	26.30	21.00	3.77	0.17
CaO	9.24	8.91	2.34	2.88	0.09	3.27	9.83	8.31	0.55
Na_2O	0.97	0.44	0.30	0.23	0.05	0.09	0.39	3.65	5.49
K_2O	0.11	0.04	<0.02	<0.02	<0.02	<0.02	0.03	0.93	0.30
P_2O_5	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
FeS_2	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.27	0.24
H_2O^+	3.60	4.30	5.20	3.10	6.50	8.90	2.80	0.81	0.52
H_2O^-	0.50	0.08	0.30	0.11	0.80	0.21	0.38	0.15	0.16
CO_2	0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.02	8.30	0.01
Σ	100.02	99.46	100.08	99.73	96.26	100.22	100.08	100.36	100.20
B (ppm)	16	2	4	5	7	2	4	8	3
Cl	<40	<40	70	<40	<40	<40	60	<40	<40
Sc	36	32	3.9	5.8	9.2	11.0	41	31	8.4
Cr	1730	2080	1870	1410	18600	2270	1610	6.3	<3.0
Co	77	78	106	94	106	93	72	27.5	0.56
Ni	550	630	830	760	1500	930	550	<10	<10
Cu	30	33	38	15	<10	<10	58	160	12
Zn	78	76	50	60	144	76	80	78	640
As	<4	<1	<2	<2	0.89	3.1	3.2	<2	5.6
Rb	4	<2	<2	<2	2	<2	<2	29	<2
Sr	20	30	6	5	5	4	13	219	37
Y	42	14	7	8	8	7	11	19	57
Zr	35	34	15	17	19	17	27	50	170
Nb	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	2.5	3.0
Sb	<0.4	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	0.77
Cs	<0.3	<0.6	<0.3	<0.3	0.28	<0.3	<0.5	0.51	0.180
Ba	8	7	15	4	35	14	16	202	79
La	46	5.3	0.63	6.6	2.80	1.20	4.1	3.5	3.4
Ce	13.9	10.0	4.2	11.5	<8.0	3.0	4.7	8.3	6.9
Nd	46	<6	<5	7.2	<11	<6	4.8	<40	<22
Sm	10.6	1.28	0.106	1.64	0.55	0.39	1.39	2.00	1.82
Eu	2.40	0.37	0.073	0.42	0.076	0.057	0.39	0.65	0.54
Tb	1.45	0.220	<0.08	0.153	<0.15	0.069	0.271	0.45	1.00
Yb	4.2	1.20	<0.25	0.65	0.36	0.210	0.95	2.00	6.0
Lu	0.61	0.160	<0.12	0.116	<0.21	<0.13	0.144	0.290	0.81
Hf	0.68	0.63	<0.22	0.096	0.40	0.200	0.46	1.40	4.7
Ta	0.055	<0.22	<0.025	0.015	0.160	0.090	0.058	0.170	0.260
Th	1.00	1.00	0.150	0.079	<0.4	0.100	0.32	0.98	1.10
U	<0.5	0.41	<0.3	<0.3	0.58	<0.32	<0.4	0.65	0.65
Pd (ppb)	0.7	—	28.0	1.4	<0.5	<0.5	<0.5	—	—
Pt	<1.0	—	16.0	<1.0	<1.0	<1.0	<1.0	—	—
Au	<24	<10	7.2	9.8	7.6	8.5	<20	640	<13