

DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Tables showing analyses of semiquantitative spectrometry and atomic-absorption spectrophotometry of rock samples collected in the Ugashik, Bristol Bay, and western part of the Karluk quadrangles, Alaska

by

Frederic H. Wilson¹, and Richard M. O'Leary²

Open file Report 87-419

To accompany MF-1539C, Maps and tables showing data and analyses of semiquantitative emission spectrometry and atomic-absorption spectrophotometry of rock samples, Ugashik, Bristol Bay, and part of Karluk quadrangles, Alaska.

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature.

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Introduction

The accompanying tables list chemical analyses of 337 rock samples that were collected in 1979, 1980, and 1981 in conjunction with geologic mapping in the Ugashik, Bristol Bay, and part of Karluk quadrangles. This work was conducted under the auspices of the Alaska Mineral Resource Assessment Program (AMRAP). This report is to accompany Wilson and O'Leary (1986) which inadvertently is missing most of the data tables listed here. Together the two reports contain the complete data from all samples collected for the Ugashik AMRAP.

Sample data is coded by sample type and source, by rock type and name, the outcrop form, and the 1:63,360 quadrangle from which the sample was collected. They are also coded to indicate whether the sample is "background" or "mineralized", and whether the collection is for a primary, resample, replicate analysis, or is a collection for reanalysis. The sample coding is described in Wilson and O'Leary (1986).

Samples were collected by the following investigators, with their respective two letter identifying code shown in parentheses: W.H. Allaway (AY), James E. Case (CE), D.P. Cox (CX), Robert L. Detterman (DT), John W. Miller (JM), James R. Riehle (RJ), T.G. Theodore (MK), Nora B. Shew (SH), Frederic H. Wilson (WS), and M. Elizabeth Yount (YB). These identifying codes are used in Wilson and O'Leary (1986) and in Table 1 herein.

Analytical methodology

The samples were analyzed with a DC-arc emission spectrograph using a six-step, semiquantitative method described by Grimes and Maranzino (1968). In addition, atomic absorption spectrophotometry was used to determine copper, lead, gold, silver, and zinc. Instrumental mercury and specific ion fluorine analyses were also

performed on some samples. Analysts were: R.M. O'Leary, D. Risoli, A. Grunsky, J. Hurrell, D.M. Hopkins, G.W. Day, and Stephen Sutley.

The semiquantitative emission spectrographic analyses have values reported in six steps per order of magnitude. These steps are the approximate midpoints of the class intervals shown below:

Reported value	Class interval
1.0	0.83 --- 1.2
1.5	1.2 --- 1.8
2.0	1.8 --- 2.6
3.0	2.6 --- 3.8
5.0	3.8 --- 5.6
7.0	5.6 --- 8.3

Matooka and Grimes (1976) evaluated the precision of semiquantitative emission spectrographic analyses; repeatability of a determination within plus and minus one and two reported values is approximately 83 and 96 percent respectively. Analyses done by AA are not reported on a six step scale; the quantitative values reflect both the higher precision and lower determination limits of this method.

References cited

- Grimes, D.J., and Maranzino, A.P., 1968, Direct-current arc and alternating-current spark emission spectrographic field methods for the semiquantitative analysis of geologic materials: U.S. Geological Survey Circular 591, 6p.
- Matooka, J.M., and Grimes, D.J., 1976, Analytical precision of one-sixth order semiquantitative spectrographic analysis: U.S. Geological Survey Circular 738, 25 p.
- Wilson, F.H., and O'Leary, R.M., 1986, Maps and tables showing data and analyses of semiquantitative emission spectrometry and atomic-absorption spectrophotometry of rock samples, Ugashik, Bristol Bay, and part of Karluk quadrangles, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-1539C, 3 sheets, scale 1:250,000.

Sample No.	Latitude (N.)	Longitude (W.)	F _e	Mg	Ca	Tl	Mn	Ag	As	Au	B	Ba	Be
79MK16	57 3 19	157 12 53	2.0	.20	<.05	.070	<10	N	<1.0	700	<1.0	61.0	
79MK17	57 3 16	157 12 50	3.0	.20	<.05	.070	<10	N	500	100	N	N	
79MK18	57 3 16	157 12 44	10.0	3.00	1.50	.700	300	<.5	100	150	N	N	
79MK19	57 3 37	157 13 23	2.0	1.00	.700	1.00	300	<.5	100	150	N	N	
79MK20	57 3 37	157 13 26	1.0	.15	.20	.070	<10	<.5	100	150	N	N	
79MK21	57 3 38	157 13 26	-.5	-.15	-.05	-.070	<10	N	500	100	N	N	
79MK22	57 3 38	157 13 20	5.0	1.50	.30	.300	150	<.5	700	1.0	N	N	
79MK23	57 3 39	157 13 14	3.0	2.00	<.05	.500	70	700	1.0	N	N	N	
79MK25	57 3 46	157 12 50	10.0	2.00	1.50	.500	300	300	700	1.0	N	N	
79MK26	57 3 55	157 12 45	10.0	3.00	700	3,000	N	N	500	500	N	N	
79MK27	57 3 55	157 12 45	10.0	3.00	700	300	1.0	300	300	300	N	N	
79MK28	57 4 07	157 12 18	15.0	5.00	2.00	>1,000	N	N	300	300	<1.0	N	
79MK30	57 4 12	157 12 07	15.0	3.00	2.00	>1,000	200	N	300	300	<1.0	N	
79MK31	57 4 13	157 11 57	10.0	2.00	1.00	-700	500	500	200	200	<1.0	N	
79MK32	57 4 13	157 11 57	10.0	2.00	3.00	300	N	N	200	200	<1.0	N	
79MK33	57 4 14	157 11 51	15.0	.70	.07	.500	150	N	100	100	<1.0	N	
79MK34	57 4 15	157 11 45	3.0	2.00	.50	.700	150	N	700	700	<1.0	N	
79MK35	57 4 04	157 11 52	2.0	.20	<.05	.070	<10	N	500	500	<1.0	N	
79MK36	57 3 53	157 12 11	1.0	.20	<.05	.050	<10	N	500	500	<1.0	N	
79MK37	57 3 40	157 12 39	7.0	3.00	2.00	.700	500	N	N	300	300	<1.0	
79MK24	57 3 46	157 12 50	10.0	2.00	1.50	.500	300	N	N	1.000	1.000	N	
79MK29	57 4 11	157 12 11	15.0	3.00	2.00	1,000	N	N	700	700	<1.0	N	
79MK29	57 4 11	157 12 11	10.0	3.00	2.00	.700	700	N	N	500	500	<1.0	
79CE65A	57 16 20	156 43 10	3.0	1.00	1.50	.500	1,000	N	N	1.000	1.000	N	
79CE082A	57 2 29	157 2 42	3.0	7.00	1.50	.200	3,000	N	N	700	700	<1.0	
79DT083	57 3 48	157 10 50	3.0	1.50	1.00	.700	3,000	N	N	500	500	<1.0	
79DT091A	57 3 9	157 0 19	5.0	2.00	3.00	1,000	500	N	N	200	200	<1.0	
79AS011B	57 3 54	157 1 3	3.0	1.00	.15	.500	700	N	N	100	100	<1.0	
79DT131	57 4 25	156 21 41	10.0	3.00	>1,000	1,000	N	N	20	500	<1.0	N	
79DT099	57 3 42	156 53 32	10.0	1.50	.70	.700	700	N	N	20	500	1.0	
79DT091B	57 3 9	157 0 19	5.0	2.00	.700	.700	N	N	30	500	1.0	N	
79AS503	57 0 33	157 3 23	5.0	2.00	.500	700	N	N	20	300	1.0	N	
79CE089A	57 1 16	156 49 1	3.0	1.50	.300	700	N	N	300	300	<1.0	N	
79AS11A	57 3 54	157 1 3	7.0	2.00	.30	1,000	1,000	N	N	50	500	1.0	
79CE086A	57 17 16	157 16 5	10.0	5.00	>1,000	1,000	N	N	10	100	<1.0	N	
79CE085A	57 17 49	157 18 12	10.0	2.00	>1,000	1,000	N	N	20	200	1.0	N	
79CE075B	57 2 31	157 13 22	10.0	2.00	.700	1,000	N	N	30	300	1.0	N	
79AS011C	57 3 54	157 1 3	5.0	2.00	.500	700	N	N	30	300	1.0	N	
79DT077	57 0 2	157 49 40	15.0	3.00	1,000	1,000	N	N	50	500	1.0	N	
79CE072A	57 1 8	157 11 3	5.0	2.00	.500	1,000	N	N	15	300	1.0	N	
79DT0100	57 4 20	156 53 10	10.0	.70	<.05	.500	200	N	N	20	200	1.0	
79CE077	57 1 53	157 5 57	10.0	2.00	<.10	.300	1,000	N	N	30	150	1.0	
79AS008	57 3 30	157 1 53	20.0	<.05	<.05	.015	30	N	N	<10	100	1.0	
19DT099A	57 4 5	156 53 30	10.0	.70	<.05	.700	700	N	N	700	700	N	

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Sample No.	Bi	Cd	Co	Cr	Cu	La	Mo	Nb	Ni	Pb	Sb	Sc	Sa
79MK16	N	5	<5	<10	20	<20	5	N	N	<5	15	15	15
79MK17	N	10	10	10	10	20	5	N	N	<10	20	20	20
79MK18	<10	15	100	300	N	N	50	50	50	N	10	10	10
79MK19	N	5	20	100	N	N	5	N	N	N	20	20	20
79MK20	N	8	N	N	N	N	N	N	N	N	7	10	10
79MK21	N	N	N	N	N	N	N	N	N	N	N	N	N
79MK22	N	N	N	N	N	N	N	N	N	N	N	N	N
79MK23	N	N	N	N	N	N	N	N	N	N	N	N	N
79MK25	N	N	N	N	N	N	N	N	N	N	N	N	N
79MK26	N	N	N	N	N	N	N	N	N	N	N	N	N
79MK27	N	N	N	N	N	N	N	N	N	N	N	N	N
79MK28	N	N	N	N	N	N	N	N	N	N	N	N	N
79MK30	N	N	N	N	N	N	N	N	N	N	N	N	N
79MK31	N	N	N	N	N	N	N	N	N	N	N	N	N
79MK32	N	N	N	N	N	N	N	N	N	N	N	N	N
79MK33	N	N	N	N	N	N	N	N	N	N	N	N	N
79MK34	N	N	N	N	N	N	N	N	N	N	N	N	N
79MK35	N	N	N	N	N	N	N	N	N	N	N	N	N
79MK36	N	N	N	N	N	N	N	N	N	N	N	N	N
79MK37	N	N	N	N	N	N	N	N	N	N	N	N	N
79MK24	N	N	N	N	N	N	N	N	N	N	N	N	N
79MK24	N	N	N	N	N	N	N	N	N	N	N	N	N
79MK29	N	N	N	N	N	N	N	N	N	N	N	N	N
79MK29	N	N	N	N	N	N	N	N	N	N	N	N	N
79CE082A	N	N	N	N	N	N	N	N	N	N	N	N	N
79DT083	N	N	N	N	N	N	N	N	N	N	N	N	N
79DT091A	N	N	N	N	N	N	N	N	N	N	N	N	N
79MS011B	N	N	N	N	N	N	N	N	N	N	N	N	N
79DT131	N	N	N	N	N	N	N	N	N	N	N	N	N
79DT099	N	N	N	N	N	N	N	N	N	N	N	N	N
79DT091B	N	N	N	N	N	N	N	N	N	N	N	N	N
79MS503	N	N	N	N	N	N	N	N	N	N	N	N	N
79CE089A	N	N	N	N	N	N	N	N	N	N	N	N	N
79MS11A	N	N	N	N	N	N	N	N	N	N	N	N	N
79CE086A	N	N	N	N	N	N	N	N	N	N	N	N	N
79CE085A	N	N	N	N	N	N	N	N	N	N	N	N	N
79CE075B	N	N	N	N	N	N	N	N	N	N	N	N	N
79MS011C	N	N	N	N	N	N	N	N	N	N	N	N	N
19DT077	N	N	N	N	N	N	N	N	N	N	N	N	N
79CE072A	N	N	N	N	N	N	N	N	N	N	N	N	N
79OT100	N	N	N	N	N	N	N	N	N	N	N	N	N
79CE077	N	N	N	N	N	N	N	N	N	N	N	N	N
79MS008	N	N	N	N	N	N	N	N	N	N	N	N	N
79DT099A	N	N	N	N	N	N	N	N	N	N	N	N	N
	150	150	150	150	150	150	150	150	150	150	150	150	150

Sample No.	Sr	V	U	Y	Zn	Zr	Th	AA-Au	INST-BG	AA-Cu	AA-Pb	AA-Zn	AA-Ag
790K16	<100	70	20	30	30	30	<.02	15	10	5	-	-	-
790K17	<100	10	30	30	30	30	<.02	15	5	20	-	-	-
790K18	100	500	200	N	20	20	<.02	800	5	20	-	-	-
790K19	500	200	N	30	30	30	<.02	40	5	50	-	-	-
790K20	150	20	N	30	20	20	<.02	600	10	40	-	-	-
790K21	<100	50	20	N	20	20	<.02	1,400	15	25	<5	-	-
790K22	100	150	N	N	N	N	<.02	35	5	25	-	-	-
790K23	N	100	N	N	N	N	<.02	95	5	50	-	-	-
790K25	300	200	N	N	N	N	<.02	600	10	40	-	-	-
790K26	500	300	N	20	N	N	<.02	1,200	10	35	-	-	-
790K27	100	300	N	10	10	10	<.02	35	10	120	-	-	-
790K28	700	700	N	30	30	30	<.02	300	10	45	-	-	-
790K30	100	700	N	30	30	30	<.02	260	10	50	-	-	-
790K31	200	200	N	N	N	N	<.02	120	10	55	-	-	-
790K32	700	150	N	10	N	N	<.02	100	10	35	-	-	-
790K33	N	100	N	N	N	N	<.02	100	5	15	-	-	-
790K34	200	200	N	<10	N	N	<.02	100	5	40	-	-	-
790K35	N	N	N	20	N	N	<.02	15	10	5	-	-	-
790K36	N	N	N	30	N	N	<.02	.02	5	5	<5	-	-
790K37	500	200	N	20	N	N	<.02	.02	140	10	35	-	-
790K24	700	200	N	30	70	70	<.02	50	5	40	-	-	-
790K24	500	300	N	20	N	N	<.02	50	5	40	-	-	-
790K29	300	500	N	30	100	100	<.02	50	10	55	-	-	-
790K29	300	300	N	30	50	50	<.02	50	10	50	-	-	-
790E65A	1,000	100	N	N	N	N	<.02	25	10	35	-	-	-
790E082A	100	70	N	<10	N	N	<.02	15	5	15	-	-	-
790T083	200	200	N	10	500	500	<.02	100	5	40	-	-	-
790T091A	500	300	N	20	70	70	<.02	85	25	60	-	-	-
790SD111A	1,000	150	N	N	30	50	<.02	35	30	35	-	-	-
790T131	300	300	N	N	N	N	<.02	65	20	90	-	-	-
790T099	700	200	N	15	N	150	<.05	15	35	60	-	-	-
790T091B	1,000	200	N	10	N	100	<.05	10	15	65	-	-	-
790S503	1,000	200	N	10	N	150	<.05	10	15	65	-	-	-
790E089A	200	300	N	N	N	N	<.05	10	10	15	-	-	-
790S11A	200	300	N	N	N	N	<.05	10	10	15	-	-	-
790C086A	700	500	N	20	<200	70	<.05	10	15	65	-	-	-
790C085A	700	300	N	30	N	100	<.05	10	15	50	-	-	-
790C073B	700	150	N	15	<200	50	<.05	10	15	40	-	-	-
79045011C	1,000	150	N	10	N	70	<.05	10	15	40	-	-	-
790T077	1,000	300	N	30	<200	100	<.05	10	10	15	-	-	-
790C072A	500	150	N	10	N	150	<.05	10	10	15	-	-	-
790T100	<100	150	N	10	N	100	<.05	10	10	15	-	-	-
790C077	<100	150	N	20	N	200	<.05	10	10	15	-	-	-
79045008	N	N	N	N	N	N	N	1.50	1.50	1.50	-	-	-
790T099A	100	200	N	N	N	N	N	N	N	N	N	N	N

Sample No.	SI-F	Material Class	Sample Type	Sample Source	Rock Type	FC1	FC2	FC3	FC4	FC5	FC6
79MK16	--	11	37	37	37	37	37	37	37	37	37
79MK17	--	11	37	37	37	37	37	37	37	37	37
79MK18	--	11	37	37	37	37	37	37	37	37	37
79MK19	--	11	37	37	37	37	37	37	37	37	37
79MK20	--	11	37	37	37	37	37	37	37	37	37
79MK21	<100	11	37	37	37	37	37	37	37	37	37
79MK22	200	11	37	37	37	37	37	37	37	37	37
79MK23	<100	11	37	37	37	37	37	37	37	37	37
79MK25	--	11	37	37	37	37	37	37	37	37	37
79MK26	100	11	37	37	37	37	37	37	37	37	37
79MK27	--	11	37	37	37	37	37	37	37	37	37
79MK28	--	11	37	37	37	37	37	37	37	37	37
79MK30	--	11	37	37	37	37	37	37	37	37	37
79MK31	--	11	37	37	37	37	37	37	37	37	37
79MK32	--	11	37	37	37	37	37	37	37	37	37
79MK33	--	11	37	37	37	37	37	37	37	37	37
79MK34	--	11	37	37	37	37	37	37	37	37	37
79MK35	--	11	37	37	37	37	37	37	37	37	37
79MK36	--	11	37	37	37	37	37	37	37	37	37
79MK37	--	11	37	37	37	37	37	37	37	37	37
79MK24	--	11	37	37	37	37	37	37	37	37	37
79MK24	--	11	37	37	37	37	37	37	37	37	37
79MK29	--	11	37	37	37	37	37	37	37	37	37
79MK29	--	11	37	37	37	37	37	37	37	37	37
79CE86SA	--	11	11	11	12	12	3	11	11	11	11
79CE082A	--	11	11	11	35	11	4	11	14	17	36
79DT083	--	11	11	11	12	11	4	11	12	11	13
79DT091A	--	11	11	11	12	11	4	11	11	11	13
79WS011B	--	11	12	11	12	11	4	11	14	37	36
79DT131	--	11	12	11	12	13	2	11	11	11	15
79DT099	--	11	11	11	14	11	3	11	11	11	22
79DT091B	--	11	11	11	14	11	4	11	12	15	22
79WS503	--	11	11	11	14	11	4	12	11	14	22
79CE089A	--	11	11	11	12	11	3	11	11	11	11
79WS11A	--	11	11	11	12	11	4	11	12	11	15
79CE086A	--	11	11	11	14	12	4	11	11	15	20
79CE085A	--	11	11	11	14	12	4	11	11	16	20
79CE075B	--	11	11	11	12	11	4	11	11	11	15
79WS011C	--	11	11	11	14	11	4	11	11	12	22
79DT077	--	11	11	11	14	11	6	11	12	15	13
79CE072A	--	11	11	11	14	11	4	11	11	16	36
79DT100	--	11	11	11	14	11	3	11	13	16	22
79CE077	--	11	11	11	12	11	4	11	11	11	15
79WS008	100	11	11	11	12	11	4	11	14	12	13
79DT099A	--	11	11	11	14	11	3	11	12	14	22

Sample No.	Latitude (N.)	Longitude (W.)	Fe	Mg	Ca	Tl	Mn	Ag	As	Au	B	Ba	Be
79CE040	57 14 23	157 2 35	2.0	1.00	.05	.200	1,500	1.5	20	500	<1.0		
79CE045B	57 2 18	157 14 34	1.00	2.00	1.50	.500	1,000	1.0	50	1,000			
79CE045C	57 2 15	157 14 48	5.0	1.50	1.00	.300	700	N	30	700	<1.0		
79CE047A	57 2 9	157 15 11	3.0	1.00	.07	.200	700	N	N	500	1.0		
79CE048	57 2 12	157 15 26	7.0	3.00	1.50	.500	1,000	N	N	50	1,000	1.0	
79CE050A	57 2 37	157 7 4	3.0	3.00	1.00	.500	500	N	N	15	700	1.0	
79CE050B	57 2 37	157 7 4	2.0	.15	1.50	.300	300	N	N	50	150	1.0	
79CE052A	57 2 3	157 7 41	3.0	.30	1.00	.500	500	N	N	200	1.5		
79CE055A	57 0 46	157 8 42	5.0	1.50	2.00	.300	700	N	N	30	1,000	1.0	
79CE057	57 2 33	157 19 11	1.0	.15	.05	.300	30	N	N	50	70	1.0	
79CE059B	57 2 34	157 19 37	.5	.10	.15	.070	500	N	N	100	300	2.0	
79CE060A	57 1 30	157 19 52	5.0	1.50	1.00	.700	700	N	N	10	1,000	1.0	
79YB045	57 3 18	157 24 28	3.0	.70	1.00	1,000	1,000	<.5	50	1,000	1.5		
79YB046A	57 3 23	157 24 15	1.0	2.00	.700	1,000	1,000	N	N	20	200	1.0	
79YB049A	57 0 29	157 24 17	2.0	.70	5.00	.200	2,000	N	N	30	500	<1.0	
79YB049B	57 0 29	157 21 17	5.0	1.50	.20	.500	700	<.5	50	1,000	1.5		
79YB052	57 0 48	157 22 19	5.0	2.00	1.00	.500	1,000	N	N	20	500	1.0	
79DT045A	57 3 7	157 15 24	5.0	1.00	.50	.300	1,500	<.5	15	200	1.0		
79DT045B	57 3 7	157 15 24	15.0	.70	3.00	.200	3,000	1.0	10	300	<1.0		
79DT045D	57 2 56	157 15 30	10.0	5.00	5.00	1,000	1,000	N	N	10	300	<1.0	
79DT045E	57 3 0	157 16 5	1.5	.07	.15	.050	700	<.5	50	1,000	1.5		
79DT048	57 4 0	157 8 20	5.0	3.00	2.00	.700	1,000	N	N	15	200	1.0	
79DT049A	57 3 45	157 8 45	3.0	1.50	1.00	.300	500	N	N	10	300	<1.0	
79DT050	57 1 38	157 5 58	5.0	2.00	2.00	.500	700	N	N	20	500	1.0	
79DT054	57 2 15	157 24 15	10.0	3.00	1.000	2,000	2,000	N	N	10	300	<1.0	
79DT049B	57 3 45	157 8 45	3.0	1.00	1.50	.500	300	N	N	30	1,500	1.5	
79DT045P	57 3 0	157 16 5	1.5	.15	.70	.070	2,000	N	N	70	700	1.0	
79CE051A	57 2 20	157 7 37	3.0	2.00	1.50	.500	1,000	N	N	50	700	2.0	
79DT066A	57 17 40	156 42 12	5.0	1.00	1.50	.700	700	N	N	20	500	1.0	
79DT067A	57 17 8	156 41 29	5.0	2.00	.700	1,000	N	N	20	500	1.0		
79MK1	57 1 17	157 14 23	15.0	5.00	1.50	1,000	500	<.5	150	150	<1.0		
79MK2	57 1 15	157 14 24	20.0	2.00	.15	.500	300	-7	300	300	<1.0		
79MK3	57 2 59	157 14 25	10.0	.07	<.05	.100	10	N	N	150	150	N	
79MK4	57 2 59	157 14 25	10.0	.15	<.05	.300	<10	N	N	300	300	N	
79MK5	57 2 54	157 14 31	15.0	3.00	2.00	1,000	500	N	N	500	<1.0		
79MK6	57 2 51	157 14 31	.5	.20	.50	.100	10	N	N	200	<1.0		
79MK7	57 2 53	157 14 29	10.0	3.00	.50	.700	500	N	N	300	<1.0		
79MK8	57 2 51	157 14 23	10.0	.03	<.05	.700	<10	N	N	300	<1.0		
79MK9	57 2 51	157 14 23	15.0	.05	<.05	.500	<10	N	N	300	<1.0		
79MK10	57 2 38	157 14 25	10.0	2.00	.70	.500	300	N	N	50	300	<1.0	
79MK11	57 2 59	157 14 0	1.5	-.15	-.07	.070	<10	N	N	200	<1.0		
79MK12	57 3 5	157 13 33	1.5	.15	-.05	.070	<10	N	N	150	150	N	
79MK13	57 3 9	157 13 30	2.0	-.20	-.05	.070	<10	N	N	300	<1.0		
79MK14	57 3 10	157 13 14	2.0	-.15	-.05	.100	<10	N	N	70	700	<1.0	
79MK15	57 3 21	157 12 55	1.0	.20	.10	.100	<10	N	N	300	300	<1.0	

Sample No.	Si	Ca	Co	Cr	Cu	La	Mn	Nb	Pb	Sb	Sc	Sn
79CE040	N	5	20	50	N	N	N	10	70	15	50	15
79CE045B	N	20	150	150	30	7	N	100	<10	50	30	30
79CE045C	N	10	50	30	<20	N	N	50	15	30	15	15
79CE047A	N	7	30	10	N	N	N	30	10	20	20	20
79CE048	N	20	100	<20	N	N	N	20	10	10	10	10
79CE050A	N	15	50	20	<20	N	N	20	50	10	30	30
79CE050B	N	10	20	15	<20	N	N	30	<10	20	20	20
79CE052A	N	10	50	<20	N	N	N	70	<10	20	20	20
79CE055A	N	10	70	5	<20	N	N	70	10	20	20	20
79CE057	N	5	70	15	N	N	N	20	30	10	50	50
79CE059B	N	N	N	N	N	N	N	20	50	10	30	30
79CE060A	N	15	70	30	<20	N	N	20	50	5	50	5
79YB045	N	50	30	N	N	N	N	5	30	50	50	50
79YB046A	N	20	7	30	N	N	N	20	30	15	50	50
79YB049A	N	7	70	20	N	N	N	50	<10	20	20	20
79YB049B	N	20	150	150	20	N	N	100	20	30	30	30
79YB052	N	20	100	50	<20	N	N	70	10	20	20	20
79DT045A	N	10	50	100	N	N	N	30	10	20	20	20
79DT045B	N	70	70	300	N	N	N	20	30	10	20	20
79DT045E	N	N	N	N	N	N	N	100	20	30	30	30
79DT048	N	N	N	N	N	N	N	70	10	20	20	20
79DT049A	N	N	N	N	N	N	N	100	10	20	20	20
79DT050	N	N	N	N	N	N	N	20	10	20	20	20
79DT054	N	N	N	N	N	N	N	20	10	20	20	20
79DT058	N	N	N	N	N	N	N	20	10	20	20	20
79DT059D	N	N	N	N	N	N	N	20	10	20	20	20
79DT064B	N	N	N	N	N	N	N	20	10	20	20	20
79DT064P	N	N	N	N	N	N	N	20	10	20	20	20
79DT065A	N	N	N	N	N	N	N	20	10	20	20	20
79DT066A	N	N	N	N	N	N	N	20	10	20	20	20
79DT067A	N	N	N	N	N	N	N	20	10	20	20	20
79HK1	N	15	100	500	N	N	N	100	15	30	30	30
79HK2	N	150	70	3,000	N	5	N	100	15	30	30	30
79HK3	N	15	15	20	N	10	N	20	10	20	20	20
79HK4	N	20	10	100	N	20	N	20	10	20	20	20
79HK5	N	10	100	N	N	15	N	20	10	20	20	20
79HK6	N	N	N	N	N	N	N	20	10	20	20	20
79HK7	N	N	N	N	N	N	N	20	10	20	20	20
79HK8	N	10	70	150	N	20	N	20	10	20	20	20
79HK9	N	10	50	15	N	5	N	20	10	20	20	20
79HK10	N	5	70	15	N	1,500	N	20	10	20	20	20
79HK11	N	<10	10	200	<20	5	N	20	10	20	20	20
79HK12	N	<10	15	<20	<20	5	N	20	10	20	20	20
79HK13	N	<10	7	<20	5	N	N	20	10	20	20	20
79HK14	N	<10	20	N	<20	5	N	20	10	20	20	20
79HK15	N	<10	15	<20	N	5	N	20	10	20	20	20

Sample No.	Sr	V	W	Y	Zn	Zr	Th	AA-Au	INST-Hg	AA-Cu	AA-Pb	AA-Zn	AA-Ag
79CE040	N	150	10	200	70	100	N	N	N	N	65	140	190
79CE045B	500	500	70	N	N	N	20	<200	100	50	50	20	45
79CE045C	200	300	15	<200	70	100	15	<200	70	10	30	35	85
79CE047A	<100	100	30	<200	100	100	30	<200	100	10	10	10	50
79CE048	1,000	300	N	N	N	N	30	N	N	N	55	20	85
79CE050A	1,000	200	20	N	N	N	150	150	20	15	50	50	—
79CE050B	200	150	20	<200	100	100	150	150	25	15	45	45	—
79CE052A	300	200	20	<200	100	100	30	30	35	15	60	60	—
79CE055A	700	300	20	<200	100	100	100	100	10	20	60	60	—
79CE057	N	100	N	<200	70	100	N	N	N	N	95	15	—
79CE059B	100	15	N	20	<200	50	N	N	N	C5	15	10	10
79CE060A	500	300	50	<200	100	100	150	150	30	25	100	100	—
79VB045	700	300	20	<200	150	150	150	150	25	35	20	20	—
79VB046A	150	300	50	<200	150	150	150	150	10	30	40	40	—
79VB049A	100	200	N	<200	70	100	N	N	N	N	25	25	—
79XB049B	200	500	20	<200	150	150	150	150	100	35	110	110	—
79XB052	500	300	30	N	N	N	N	N	N	N	55	55	—
79DT045A	150	150	10	200	70	70	70	70	100	20	40	40	—
79DT045B	100	100	10	500	50	50	50	50	160	45	20	150	—
79DT045D	700	500	50	700	150	150	150	150	50	30	400	400	—
79DT045E	<100	N	N	N	15	1,000	N	N	N	N	N	N	—
79DT048	1,500	300	30	30	100	100	100	100	100	20	60	60	—
79DT049A	300	300	30	<200	70	100	100	100	100	10	120	120	—
79DT050	500	300	20	<200	100	100	100	100	10	5	5	5	—
79DT054	200	700	N	200	150	150	150	150	10	15	95	95	—
79DT049B	200	200	10	N	100	100	100	100	100	10	10	10	—
79DT045F	100	<10	N	20	2,000	50	50	50	50	30	30	30	—
79CE051A	1,500	300	20	N	150	150	150	150	30	15	35	35	—
79DT066A	500	300	20	<200	100	100	100	100	10	15	60	60	—
79DT067A	300	500	N	N	100	N	N	N	N	N	15	15	—
79MK1	300	500	30	N	50	100	100	100	100	10	1,200	1,200	—
79MK2	<100	200	20	N	50	50	50	50	30	30	30	30	—
79MK3	N	150	N	N	N	<10	N	N	N	N	15	15	—
79MK4	N	N	N	N	N	20	N	N	N	N	25	25	—
79MK5	700	500	N	N	N	50	N	N	N	N	60	60	—
79MK6	200	20	20	N	50	50	50	50	15	15	15	15	—
79MK7	150	300	20	N	70	70	70	70	15	15	15	15	—
79MK8	N	50	N	N	50	50	50	50	10	10	10	10	—
79MK9	<100	70	N	N	N	N	N	N	N	N	N	N	—
79MK10	100	200	N	<50	20	N	N	N	N	N	N	N	—
79MK11	100	20	N	N	30	N	N	N	N	N	N	N	—
79MK12	150	30	N	N	15	N	N	N	N	N	N	N	—
79MK13	N	<100	N	N	20	N	N	N	N	N	N	N	—
79MK14	N	50	N	N	10	N	N	N	N	N	N	N	—
79MK15	<100	30	N	N	30	N	N	N	N	N	N	N	—

Sample No.	SI-F	Material Class	Sample Type	Sample Source	Rock Type	FC1	FC2	FC3	FC4	FC5	FC6
79CE040	--	11	11	11	14	11	4	11	14	15	36
79CE045B	--	11	11	11	12	11	4	11	11	11	14
79CE045C	--	11	11	11	12	11	4	11	11	11	13
79CE047A	--	11	11	11	12	11	4	11	11	11	13
79CE048	--	11	11	11	12	11	4	11	11	11	15
79CE050A	--	11	11	11	14	11	4	11	12	14	36
79CE050B	--	11	11	11	14	11	4	11	13	14	36
79CE052A	--	11	11	11	14	11	4	11	13	14	22
79CE055A	--	11	11	11	14	11	4	11	12	15	22
79CE057	--	11	11	11	12	11	4	11	11	11	14
79CE059B	--	11	11	11	14	11	4	11	12	15	36
79CE060A	--	11	11	11	12	11	4	11	11	11	14
79YB045	--	11	11	11	13	11	5	11	14	37	37
79YB046A	--	11	11	11	14	11	5	11	14	15	37
79YB049A	--	11	11	11	12	11	5	11	11	11	13
79YB049B	--	11	11	11	12	11	5	11	11	11	14
79YB052	--	11	11	13	12	11	5	11	11	11	13
79DT045A	--	11	11	13	14	11	4	11	12	12	37
79DT045B	--	11	11	11	12	11	4	11	11	11	37
79DT045D	--	11	11	11	14	11	4	11	12	15	37
79DT045E	--	11	11	11	14	11	4	11	12	15	37
79DT048	--	11	11	11	14	11	4	11	12	15	22
79DT049A	--	11	11	11	12	11	4	11	12	12	37
79DT050	--	11	11	11	14	11	4	11	11	16	37
79DT054	--	11	11	11	14	11	5	11	12	15	37
79DT049B	--	11	11	11	12	11	4	11	12	11	37
79DT045F	--	11	11	11	14	11	4	11	12	15	37
79CE051A	--	11	11	11	14	11	4	11	11	14	22
79DT066A	--	11	11	11	12	12	3	11	11	11	13
79DT067A	--	11	11	11	14	12	3	11	12	15	37
79MK1	--	11	37	37	37	37	37	37	37	37	37
79MK2	--	11	37	37	37	37	37	37	37	37	37
79MK3	<100	11	37	37	37	37	37	37	37	37	37
79MK4	100	11	37	37	37	37	37	37	37	37	37
79MK5	300	11	37	37	37	37	37	37	37	37	37
79MK6	200	11	37	37	37	37	37	37	37	37	37
79MK7	600	11	37	37	37	37	37	37	37	37	37
79MK8	400	11	37	37	37	37	37	37	37	37	37
79MK9	<100	11	37	37	37	37	37	37	37	37	37
79MK10	--	11	37	37	37	37	37	37	37	37	37
79MK11	100	11	37	37	37	37	37	37	37	37	37
79MK12	<100	11	37	37	37	37	37	37	37	37	37
79MK13	--	11	37	37	37	37	37	37	37	37	37
79MK14	--	11	37	37	37	37	37	37	37	37	37
79MK15	--	11	37	37	37	37	37	37	37	37	37

Sample No.	Latitude (N.)	Longitude (W.)	Fe	Mg	Ca	Ti	Mn	Ag	As	Au	B	Ba	Be
79YB001A	57 6 17	157 25 25	5.0	1.00	2.00	.300	1,000	N	N	N	10	1,500	1.0
79YB003A	57 6 43	157 24 45	1.5	.20	2.00	.200	150	N	N	N	N	5,000	2.0
79YB005	57 7 48	157 24 37	5.0	2.00	1.50	.700	1,000	N	N	N	<10	700	1.0
79YB006C	57 8 16	157 28 59	5.0	1.50	1.50	.500	700	N	N	N	<10	1,000	1.0
79DT001	57 7 38	157 14 20	5.0	3.00	1.00	1,000	500	N	N	N	20	700	1.0
79DT002	57 8 10	157 14 30	5.0	1.00	1.50	.700	300	N	N	N	10	1,000	1.0
79DT004	57 8 39	157 15 10	5.0	.70	.20	.500	1,000	N	N	N	30	1,500	1.0
79DT005	57 10 0	157 19 42	3.0	.50	.50	.500	500	N	N	N	10	1,000	1.0
79DT006	57 10 39	157 20 50	5.0	3.00	3.00	1,000	700	N	N	N	10	300	1.0
79YB008A	57 6 13	157 25 55	7.0	1.50	1.00	.700	1,000	N	N	N	<10	700	<1.0
79YB009A	57 6 13	157 26 5	.7	.15	1.50	.150	100	N	N	N	N	3,000	2.0
79DT007	57 6 53	157 36 29	5.0	5.00	3.00	1,000	1,000	N	N	N	<10	200	1.0
79DT010	57 8 12	157 38 1	5.0	5.00	3.00	1,000	700	N	N	N	<10	300	<1.0
79DT016A	57 2 12	157 38 13	10.0	2.00	3.00	>1,000	1,500	N	N	N	10	1,000	1.5
79DT016B	57 2 12	157 38 13	3.0	1.50	1.00	.300	1,000	N	N	N	<10	300	2.0
79DT017A	57 2 36	157 39 43	5.0	2.00	1.50	.500	1,000	N	N	N	10	700	1.0
79DT017B	57 2 36	157 39 43	2.0	.50	1.00	.300	500	N	N	N	N	1,500	2.0
79DT019	57 3 15	157 39 29	5.0	2.00	1.50	1,000	1,000	N	N	N	10	1,000	1.0
79YB016	57 3 45	157 31 24	10.0	3.00	2.00	1,000	1,500	N	N	N	10	500	<1.0
79YB018	57 3 31	157 31 28	5.0	2.00	.70	.300	700	C.5	N	N	15	700	1.0
79DT020	57 13 9	156 58 51	3.0	1.50	2.00	.200	1,500	N	N	N	N	700	1.0
79DT024	57 12 2	156 58 30	3.0	1.50	10.00	.200	2,000	N	N	N	70	500	1.0
79DT029	57 12 0	156 58 50	3.0	2.00	2.00	.500	1,500	N	N	N	30	500	1.0
79YB031B	57 13 45	157 4 32	2.0	1.50	1.00	.200	700	N	N	N	20	500	1.0
79YB031C	57 13 47	157 4 34	3.0	1.50	2.00	.300	500	N	N	N	<10	300	1.0
79YB035	57 14 43	157 4 58	5.0	1.50	2.00	.300	500	N	N	N	10	300	<1.0
79YB040	57 15 17	157 1 41	2.0	1.00	1.50	.150	500	N	N	N	15	500	1.0
79CE004B	57 3 50	157 21 59	3.0	1.50	.20	.500	700	N	N	N	10	300	<1.0
79CE007	57 5 48	157 21 50	3.0	1.00	.50	.300	500	N	N	N	20	500	<1.0
79CE009A	57 9 12	157 31 7	5.0	3.00	3.00	.500	700	N	N	N	<10	300	1.0
79CE012A	57 9 8	157 32 50	5.0	3.00	2.00	.700	500	N	N	N	<10	200	<1.0
79CE017A	57 5 12	157 42 45	3.0	2.00	2.00	.500	500	N	N	N	<10	200	1.0
79CE018A	57 5 21	157 43 1	3.0	2.00	2.00	.300	500	N	N	N	<10	150	<1.0
79CE020A	57 5 57	157 43 4	5.0	2.00	3.00	.300	700	N	N	N	<10	100	<1.0
79CE021A	57 6 17	157 43 2	1.5	.20	.50	.100	200	N	N	N	10	300	<1.0
79CE022A	57 2 1	157 35 32	5.0	.50	1.00	1,000	700	N	N	N	<10	200	<1.0
79CE022B	57 2 2	157 35 30	3.0	1.50	1.00	.200	700	N	N	N	<10	500	<1.0
79CE022D	57 2 7	157 35 24	3.0	1.00	5.00	.200	>5,000	N	N	N	<10	200	<1.0
79CE020F	52 2 7	157 35 13	3.0	1.50	1.00	.500	500	N	N	N	<10	200	<1.0
79CE023	57 7 45	157 6 17	1.5	.15	1.50	.200	1,000	N	N	N	50	100	<1.0
79CE023C	57 7 44	157 6 7	3.0	.70	.70	.300	300	N	N	N	70	300	1.0
79CE026B	57 7 54	157 5 38	3.0	1.50	.30	.300	700	N	N	N	20	500	<1.0
79CE033A	57 8 53	157 3 20	5.0	1.50	2.00	.300	700	N	N	N	10	300	<1.0
79CE037	57 16 3	157 10 8	5.0	2.00	2.00	.500	1,000	N	N	N	<10	200	<1.0
79CE040A	57 14 26	157 2 39	2.0	1.00	1.50	.200	1,500	.7	N	N	10	700	1.0

Sample No.	Bi	Cd	Co	Cr	Cu	La	Mo	Nb	Ni	Pb	Sb	Sc	Sn
79YB001A	N	N	10	20	50	<20	N	N	10	<10	N	30	N
79YB003A	N	N	5	<10	7	30	N	N	10	20	N	10	N
79YB005	N	N	20	30	50	N	N	N	20	15	N	50	N
79YB006C	N	N	10	30	30	<20	10	N	20	10	N	50	N
79DT001	N	N	20	30	100	20	N	<20	50	<10	N	50	N
79DT002	N	N	10	50	50	<20	N	N	30	10	N	30	N
79DT004	N	N	15	50	20	<20	10	N	70	10	N	20	N
79DT005	N	N	7	20	10	N	N	N	15	<10	N	30	N
79DT006	N	N	20	100	70	<20	N	<20	70	<10	N	50	N
79YB008A	N	N	20	50	30	N	N	N	30	15	N	50	N
79YB009A	N	N	N	<10	5	20	N	N	5	10	N	10	N
79DT007	N	N	30	200	100	N	N	<20	200	10	N	50	N
79DT010	N	N	50	200	50	N	N	N	150	<10	N	50	N
79DT016A	N	N	30	20	100	30	N	N	15	<10	N	70	N
79DT016B	N	N	10	10	7	N	N	N	15	15	N	20	N
79DT017A	N	N	20	100	50	N	N	N	30	10	N	30	N
79DT017B	N	N	5	<10	<5	20	N	N	5	15	N	10	N
79DT019	N	N	15	30	100	20	N	<20	10	15	N	30	N
79YB016	N	N	20	50	20	30	N	N	20	15	N	50	N
79YB018	N	N	7	20	15	20	N	<20	10	20	N	20	N
79DT020	N	N	10	70	7	N	<5	N	30	<10	N	20	N
79DT024	N	N	15	100	50	N	10	N	50	10	N	30	N
79DT029	N	N	15	150	20	20	N	N	100	10	N	30	N
79YB031B	N	N	10	150	30	N	N	N	70	10	N	20	N
79YB031C	N	N	10	50	150	N	N	N	20	N	N	30	N
79YB035	N	N	7	150	50	N	<5	N	100	<10	N	20	N
79YB040	N	N	7	30	30	N	<5	N	30	<10	N	15	N
79CE004B	N	N	15	20	20	N	N	N	20	15	N	30	N
79CE007	N	N	5	20	15	N	N	N	15	15	N	30	N
79CE009A	N	N	20	200	100	N	N	N	200	<10	N	30	N
79CE012A	N	N	30	150	100	N	N	N	150	<10	N	50	N
79CE017A	N	N	20	150	70	N	N	<20	200	N	N	30	N
79CE018A	N	N	15	100	30	N	N	N	50	N	N	30	N
79CE020A	N	N	20	100	20	N	N	N	150	N	N	50	N
79CE021A	N	N	5	<10	7	N	N	N	15	N	N	10	N
79CE022A	N	N	7	20	150	<20	N	N	20	<10	N	70	N
79CE022B	N	N	7	30	15	N	N	N	20	10	N	20	N
79CE022D	N	N	5	20	7	50	N	N	15	<10	N	30	N
79CE020F	N	N	7	20	10	N	N	N	10	<10	N	30	N
79CE023	N	N	5	20	10	N	N	N	20	N	N	15	N
79CE023C	N	N	7	70	30	<20	N	N	70	15	N	20	N
79CE026B	N	N	10	30	50	N	N	N	70	<10	N	20	N
79CE033A	N	N	15	15	15	N	N	N	15	<10	N	30	N
79CE037	N	N	20	100	50	N	N	N	50	10	N	50	N
79CE040A	N	N	10	50	50	N	N	N	20	<10	N	20	N

Sample No.	Sr	V	W	Y	Zn	Zr	Th	AA-Au	INST-Hg	AA-Cu	AA-Pb	AA-Zn	AA-Ag
79YB001A	700	300	N	30	<200	100	N	N	--	50	30	75	--
79YB003A	1,000	70	N	70	<200	200	N	N	--	5	35	45	--
79YB005	200	300	N	50	N	150	N	N	--	25	20	90	--
79YB006C	500	300	N	50	<200	200	N	N	--	25	10	60	--
79DT001	500	500	N	30	N	150	N	N	--	45	25	75	--
79DT002	500	300	N	30	<200	100	N	N	--	35	20	100	--
79DT004	100	200	N	50	<200	100	N	N	--	20	20	90	--
79DT005	200	150	N	30	N	100	N	N	--	15	20	75	--
79DT006	1,000	300	N	30	N	100	N	N	--	40	15	45	--
79YB008A	300	300	N	50	N	100	N	N	--	20	20	95	--
79YB009A	1,000	50	N	50	N	150	N	N	--	5	35	45	--
79DT007	700	300	N	50	<200	150	N	N	--	50	15	50	--
79DT010	700	500	N	30	N	100	N	N	--	50	20	45	--
79DT016A	500	500	N	70	<200	150	N	N	--	60	30	70	--
79DT016B	150	100	N	30	<200	150	N	N	--	5	20	45	--
79DT017A	200	300	N	30	<200	70	N	N	--	35	20	20	--
79DT017B	700	50	N	50	<200	150	N	N	--	5	25	50	--
79DT019	500	300	N	70	<200	150	N	N	--	60	25	100	--
79YB016	300	500	N	100	<200	150	N	N	--	10	25	90	--
79YB018	200	150	N	70	N	200	N	N	--	15	20	60	--
79DT020	500	200	N	20	<200	100	N	N	--	10	20	45	--
79DT024	500	200	N	50	<200	100	N	N	--	30	30	60	--
79DT029	200	200	N	50	<200	200	N	N	--	10	15	30	--
79YB031B	200	200	N	15	500	70	N	N	--	30	25	400	--
79YB031C	700	500	N	20	<200	70	N	N	--	100	15	65	--
79YB035	500	300	N	15	<200	100	N	N	--	40	20	45	--
79YB040	500	200	N	15	<200	100	N	N	--	55	25	85	--
79CE004B	200	300	N	20	<200	100	N	N	--	30	30	100	--
79CE007	200	300	N	15	N	100	N	N	--	20	15	35	--
79CE009A	700	300	N	20	<200	70	N	N	--	30	20	35	--
79CE012A	500	500	N	30	<200	100	N	N	--	55	20	50	--
79CE017A	700	300	N	20	<200	100	N	N	--	30	15	35	--
79CE018A	500	200	N	20	<200	70	N	N	--	45	20	35	--
79CE020A	300	300	N	20	<200	70	N	N	--	70	20	40	--
79CE021A	200	50	N	<10	N	70	N	N	--	15	10	35	--
79CE022A	500	500	N	50	200	100	N	N	--	250	25	120	--
79CE022B	200	300	N	30	N	70	N	N	--	25	25	70	--
79CE022D	200	200	N	50	N	50	N	N	--	15	35	65	--
79CE020F	300	300	N	20	<200	100	N	N	--	15	25	70	--
79CE023	100	100	N	10	N	20	N	N	--	20	15	50	--
79CE023C	100	200	N	30	<200	100	N	N	--	55	30	120	--
79CE026B	100	200	N	20	<200	50	N	N	--	60	25	85	--
79CE033A	500	300	N	30	<200	100	N	N	--	15	15	15	--
79CE037	500	500	N	30	<200	70	N	N	--	55	30	40	--
79CE040A	700	200	N	20	500	50	N	N	--	55	15	360	--

Sample No.	SI-P	Material Class	Sample Type	Sample Source	Rock Type	FC1	FC2	FC3	FC4	FC5	FC6
79YB001A	11	11	12	11	5	11	13	13	11	11	11
79YB003A	11	11	14	11	5	11	13	11	11	11	11
79YB005	11	11	12	11	5	11	12	12	11	11	11
79YB006C	200	11	14	11	5	11	14	15	15	37	37
79DT001	—	11	14	11	4	11	11	37	37	37	37
79DT002	200	11	14	11	4	11	11	37	37	37	37
79DT004	—	11	14	11	4	11	11	37	37	37	37
79DT005	—	11	14	11	4	11	11	37	37	37	37
79DT006	—	11	14	11	4	11	11	37	37	37	37
79YB008A	—	11	14	11	4	11	11	37	37	37	37
79YB009A	—	11	14	11	4	11	11	37	37	37	37
79DT007	—	11	14	11	5	11	11	16	20	20	20
79DT010	—	11	14	11	5	11	11	16	20	20	20
79DT016A	—	11	14	11	5	11	11	16	20	20	20
79DT016B	—	11	14	11	5	11	11	16	20	20	20
79DT017A	—	11	14	11	5	11	11	16	20	20	20
79DT017B	—	11	14	11	5	11	11	16	20	20	20
79DT019	—	11	14	11	5	11	11	16	20	20	20
79YB016	—	11	14	11	5	11	11	16	20	20	20
79YB018	—	11	14	11	5	11	11	16	20	20	20
79DT020	—	11	14	11	5	11	11	16	20	20	20
79DT024	200	11	14	11	5	11	11	16	20	20	20
79DT029	—	11	14	11	5	11	11	16	20	20	20
79YB031B	—	11	14	11	5	11	11	16	20	20	20
79YB031C	—	11	14	11	5	11	11	16	20	20	20
79YB035	—	11	14	11	5	11	11	16	20	20	20
79YB040	—	11	14	11	5	11	11	16	20	20	20
79CE004B	—	11	14	11	5	11	11	16	20	20	20
79CE007	—	11	14	11	5	11	11	16	20	20	20
79CE009A	—	11	14	11	5	11	11	16	20	20	20
79CE012A	11	14	14	11	4	11	11	16	14	14	14
79CE017A	11	14	14	11	4	11	11	16	14	14	14
79CE018A	11	14	14	11	4	11	11	16	14	14	14
79CE022D	11	14	14	11	4	11	11	16	14	14	14
79CE020A	11	14	14	11	4	11	11	16	14	14	14
79CE021A	11	14	14	11	4	11	11	16	14	14	14
79CE022A	11	14	14	11	4	11	11	16	14	14	14
79CE017A	11	14	14	11	4	11	11	16	14	14	14
79CE022B	11	14	14	11	4	11	11	16	14	14	14
79CE020F	11	14	14	11	4	11	11	16	14	14	14
79CB023	11	14	14	11	4	11	11	16	14	14	14
79CE023C	11	14	14	11	4	11	11	16	14	14	14
79CE026B	12	12	12	11	4	11	11	16	14	14	14
79CE033A	11	14	14	11	4	11	11	16	14	14	14
79CE037	11	14	14	11	4	11	11	16	14	14	14
79CE040A	11	14	14	11	4	11	11	16	14	14	14

Sample No.	LATITUDE (N.)	LONGITUDE (W.)	Fe	Mg	Ca	Tl	Mn	Ag	As	Au	B	Ba	Be
79CE073A	57 1 53	157 13 55	10.0	3.00	3.00	.700	1,000	N	N	N	15	200	<1.0
79DT084	57 3 39	157 10 41	7.0	3.00	1.50	.700	1,500	N	N	N	10	300	1.0
79WS007	57 0 55	157 24 6	10.0	2.00	.50	.300	500	N	N	N	50	700	1.5
79CE079	57 1 25	157 6 1	5.0	.50	<.05	.700	200	N	N	N	70	300	<1.0
79WS009	57 0 48	157 7 47	10.0	1.00	2.00	.700	300	N	N	N	<10	300	<1.0
79DT103	57 5 58	156 48 40	7.0	2.00	2.00	.700	500	N	N	N	N	200	1.0
79DT103A	57 4 41	156 48 41	10.0	2.00	1.50	.500	700	N	N	N	N	500	1.0
79CE094A	57 5 45	156 53 17	10.0	3.00	3.00	.700	700	N	N	N	N	300	1.0
79DT113	57 36 19	156 41 55	15.0	3.00	5.00	>1,000	1,000	N	N	N	10	200	<1.0
79DT128	57 31 56	156 46 40	15.0	2.00	3.00	1,000	1,000	N	N	N	30	200	<1.0
79DT129	57 32 20	156 46 30	15.0	3.00	1.50	>1,000	1,000	N	N	N	20	150	<1.0
79YB053A	57 16 30	156 45 35	3.0	.70	1.00	.300	500	N	N	N	N	300	1.0
79YB065	57 6 42	156 52 10	10.0	3.00	1.00	.700	700	N	N	N	50	300	<1.0
79YB066	57 5 59	156 53 53	10.0	1.50	.15	.500	200	N	N	N	100	500	1.5
79YB067	57 5 38	156 50 49	10.0	2.00	5.00	1,000	700	N	N	N	20	500	1.0
79YB069	57 4 14	156 45 15	3.0	.70	1.00	.700	700	N	N	N	N	100	1.0
79DT143C	57 10 0	156 56 43	10.0	2.00	1.50	.500	500	N	N	N	20	300	1.0
80DT166A	57 45 50	155 18 50	3.0	3.00	.70	.150	300	<.5	N	N	20	300	<1.0
80DT167A	57 45 38	155 18 50	3.0	1.50	2.00	.100	500	7.0	N	N	30	1,000	<1.0
80DT168A	57 45 25	155 17 10	1.5	.30	2.00	.070	200	1.0	N	N	30	300	1.0
80CE108	57 41 51	155 37 28	3.0	2.00	1.50	.300	500	N	N	N	20	300	1.0
80CE109	57 41 18	155 36 35	3.0	1.50	1.50	.300	500	N	N	N	15	500	1.0
80CE113	57 46 6	155 36 55	2.0	2.00	2.00	.300	300	<.5	N	N	20	500	<1.0
80CE114	57 45 0	155 36 40	3.0	3.00	1.00	.500	500	N	N	N	30	700	1.0
80CE114A	57 45 0	155 36 40	2.0	.50	1.50	.150	300	<.5	N	N	20	500	1.0
80CE115A	57 45 22	155 37 0	7.0	2.00	1.50	.700	500	<.5	N	N	15	500	<1.0
80CE117A	57 47 8	155 32 21	1.5	.50	.70	.100	300	<.5	N	N	20	1,500	1.0
80CE118	57 47 13	155 32 54	1.0	.20	10.00	.070	150	N	N	N	10	N	N
80CE122	57 26 55	156 3 5	2.0	.50	1.00	.200	200	<.5	N	N	150	200	<1.0
80CE127	57 29 28	156 3 1	1.5	.30	1.00	.100	300	<.5	N	N	20	1,000	1.0
80DT185	57 28 19	156 4 51	2.0	1.00	1.50	.150	1,000	<.5	N	N	30	1,500	<1.0
80DT187	57 28 26	156 4 50	2.0	1.00	1.00	.200	1,000	N	N	N	20	1,000	<1.0
80DT189	57 28 29	156 5 30	7.0	2.00	3.00	.500	1,000	<.5	N	N	10	500	<1.0
80DT192	57 29 23	156 6 43	5.0	2.00	2.00	.500	1,000	<.5	N	N	300	700	<1.0
80AY16	57 26 46	156 2 47	3.0	1.50	3.00	.300	1,000	N	N	N	15	300	<1.0
80AY16A	57 26 48	156 2 52	5.0	1.00	2.00	.100	300	.7	N	N	50	300	<1.0
80AY18	57 27 0	156 2 53	7.0	3.00	3.00	.300	1,500	N	N	N	50	200	<1.0
80AY19	57 27 22	156 2 10	7.0	2.00	3.00	.300	1,000	<.5	N	N	15	300	<1.0
80AY22	57 29 33	156 3 11	1.5	.30	.10	.100	200	<.5	N	N	30	500	<1.0
80AY24	57 34 7	156 6 11	1.5	.30	2.00	.100	200	N	N	N	300	700	1.0
80AY25	57 34 17	156 5 41	3.0	2.00	3.00	.300	700	N	N	N	15	300	<1.0
80AY30A	57 18 50	156 20 10	3.0	1.50	1.50	.200	700	N	N	N	30	500	<1.0
80AY34	57 19 16	156 21 52	2.0	1.50	1.00	.200	500	<.5	N	N	50	700	<1.0
80AY37	57 25 38	156 34 37	1.5	.70	1.00	.100	500	N	N	N	20	700	1.0
80AY38	57 25 40	156 33 18	2.0	.70	1.00	.150	700	N	N	N	20	500	<1.0

Sample No.	Bk	Cd	Co	Cr	Cu	La	Mo	Nb	Ni	Pb	Sb	Sc	Sn
79CE073A	20	20	30	30	30	30	15	10	<10	20	30	15	10
79DT084	15	50	50	50	50	50	15	10	10	10	30	5	10
79MS007	5	15	30	30	30	30	5	30	30	30	30	5	15
79ES009	5	150	10	10	10	10	10	10	10	10	10	5	20
79DT103	10	50	20	20	20	20	15	15	15	15	20	15	15
79DT103A	15	50	30	30	30	30	15	15	15	15	20	15	15
79CE094A	15	100	20	20	20	20	15	15	15	15	20	15	15
79DT113	10	50	30	30	30	30	15	15	15	15	20	15	15
79DT128	10	50	30	30	30	30	15	15	15	15	20	15	15
79DT129	50	150	20	20	20	20	<20	<20	<20	<20	<20	<20	<20
79IB053A	5	20	70	70	70	70	N	N	N	N	N	N	N
79IB065	20	100	30	30	30	30	N	N	N	N	N	N	N
79IB066	15	100	30	30	30	30	N	N	N	N	N	N	N
79TB067	15	30	10	10	10	10	<20	<20	<20	<20	<20	<20	<20
79YB069	<5	<10	5	5	5	5	N	N	N	N	N	N	N
79DT143C	7	70	30	30	30	30	N	N	N	N	N	N	N
800T166A	30	50	50	50	50	50	N	N	N	N	N	N	N
800T167A	20	30	30	30	30	30	<20	<20	<20	<20	<20	<20	<20
800T168A	7	100	50	50	50	50	<20	<20	<20	<20	<20	<20	<20
80CE108	30	100	50	50	50	50	N	N	N	N	N	N	N
80CE109	20	50	30	30	30	30	N	N	N	N	N	N	N
80CE113	30	100	50	50	50	50	N	N	N	N	N	N	N
80CE114	30	150	70	70	70	70	N	N	N	N	N	N	N
80CE114A	10	70	30	30	30	30	<20	<20	<20	<20	<20	<20	<20
80CE115A	50	100	50	50	50	50	N	N	N	N	N	N	N
80CE117A	7	50	30	30	30	30	N	N	N	N	N	N	N
80CE118	5	10	7	7	7	7	N	N	N	N	N	N	N
80CE122	5	50	30	30	30	30	<20	<20	<20	<20	<20	<20	<20
80CE127	5	20	30	30	30	30	N	N	N	N	N	N	N
800T185	7	30	30	30	30	30	N	N	N	N	N	N	N
80DT187	7	50	50	50	50	50	<20	<20	<20	<20	<20	<20	<20
80DT189	30	300	150	150	150	150	<20	<20	<20	<20	<20	<20	<20
80DT192	15	70	30	30	30	30	N	N	N	N	N	N	N
80AY16	15	70	30	30	30	30	N	N	N	N	N	N	N
80AY16A	5	70	700	700	700	700	N	N	N	N	N	N	N
80AY18	30	50	50	50	50	50	<20	<20	<20	<20	<20	<20	<20
80AY19	30	15	10	10	10	10	N	N	N	N	N	N	N
80AY22	5	10	20	20	20	20	N	N	N	N	N	N	N
80AY24	5	20	15	<20	<20	<20	N	N	N	N	N	N	N
80AY25	5	15	15	15	15	15	N	N	N	N	N	N	N
80AY30A	30	150	70	70	70	70	N	N	N	N	N	N	N
80AY34	20	70	50	50	50	50	N	N	N	N	N	N	N
80AY37	10	50	20	20	20	20	N	N	N	N	N	N	N
80AY38	20	20	<20	<20	<20	<20	N	N	N	N	N	N	N

Sample No.	Sr	V	W	Y	Zn	Zr	Th	AA-Au	INST-Ng	AA-Cu	AA-Pb	AA-Zn	AA-Ag
79CE073A	700	300	20	N	70	25	15	25	—	—	—	—	—
79DT084	500	150	20	N	70	45	45	60	—	—	—	—	—
79WS07	200	50	30	N	300	35	35	20	25	—	—	—	—
79MS09	300	300	200	N	50	20	10	85	150	—	—	—	—
79DT103	1,000	200	10	N	150	40	20	70	45	—	—	—	—
79DT103A	700	200	10	N	100	30	15	15	45	—	—	—	—
79CE094A	1,000	200	20	N	100	25	25	55	—	—	—	—	—
79DT113	700	300	20	N	30	30	30	20	70	—	—	—	—
79DT128	500	300	20	N	50	30	30	20	70	—	—	—	—
79DT129	300	700	20	N	20	<200	100	30	25	120	—	—	—
79YB053A	1,500	70	10	N	10	10	N	N	N	N	N	N	N
79YB065	200	300	20	N	50	<200	100	70	30	120	—	—	—
79YB066	<100	300	30	N	100	<200	100	60	35	130	—	—	—
79YB067	700	300	20	N	100	100	25	25	60	—	—	—	—
79YB069	200	100	30	N	150	5	15	40	—	—	—	—	—
79DT143C	500	300	20	N	50	45	25	65	—	—	—	—	—
80DT166A	300	300	30	N	70	30	30	70	—	—	—	—	—
80DT167A	200	300	15	N	50	20	20	10	35	—	—	—	—
800T168A	100	150	20	<200	50	60	15	15	—	—	—	—	—
80CE108	500	200	30	<200	70	50	20	70	—	—	—	—	—
80CE109	700	200	30	<200	70	20	15	60	—	—	—	—	—
80CE113	500	200	30	N	70	35	15	60	—	—	—	—	—
80CE114	300	200	50	<200	100	45	20	85	—	—	—	—	—
80CE114A	1,000	150	15	N	70	20	10	30	—	—	—	—	—
80CE115A	500	300	30	<200	100	35	15	80	—	—	—	—	—
80CE117A	1,000	150	10	N	50	20	15	20	—	—	—	—	—
80CE118	700	70	N	N	50	<5	15	10	—	—	—	—	—
80CE122	700	150	N	N	70	25	15	15	—	—	—	—	—
80CE127	1,000	100	N	<10	N	25	15	40	—	—	—	—	—
80DT185	1,000	150	10	N	50	20	30	35	—	—	—	—	—
80DT187	700	150	15	<200	70	45	20	95	—	—	—	—	—
80DT189	300	300	30	<200	100	120	15	55	—	—	—	—	—
800T192	300	500	50	<200	100	95	35	55	—	—	—	—	—
80AY16	500	300	50	N	70	30	10	40	—	—	—	—	—
80AY16A	500	150	10	N	50	20	30	35	—	—	—	—	—
80AY18	500	500	20	N	30	45	10	15	15	—	—	—	—
80AY19	500	300	30	N	50	35	15	35	—	—	—	—	—
80AY22	300	100	<10	N	70	25	55	55	—	—	—	—	—
80AY24	1,000	100	10	N	50	15	25	55	—	—	—	—	—
80AY25	500	500	50	N	100	40	10	15	15	—	—	—	—
80AY26A	300	200	30	N	100	90	20	75	75	—	—	—	—
80AY26	500	200	30	N	100	60	20	95	95	—	—	—	—
80AY37	700	150	<10	N	50	20	10	25	25	—	—	—	—
80AY38	700	150	N	N	200	15	15	10	10	—	—	—	—

Sample No.	SI-F	Material Class	Sample Type	Sample Source	Rock Type	FC1	PC2	FC3	FC4	PC5	FC6
79CE073A	—	11	11	14	11	12	16	36	11	11	11
79DT084	—	11	11	14	11	12	15	22	11	11	11
79ES007	—	12	11	13	11	14	14	37	2	11	11
79CE079	—	11	11	12	11	14	14	11	11	11	11
79ES009	—	11	11	11	11	14	11	16	36	11	11
79DT103	—	11	11	14	11	11	16	20	22	22	22
79DT103A	—	11	11	14	11	11	16	16	20	20	20
79CE094A	—	11	11	14	11	11	16	16	22	22	22
79DT113	—	11	11	14	11	11	16	16	16	16	16
79DT128	—	11	11	12	12	13	13	13	13	13	13
79DT129	—	11	11	14	12	13	13	13	13	13	13
79XB053A	—	11	11	14	12	12	13	13	13	13	13
79TB065	—	11	11	12	11	11	11	11	11	11	11
79TB066	—	11	11	12	11	11	11	11	11	11	11
79TB067	—	11	11	12	12	13	13	13	13	13	13
79YB069	—	11	11	11	11	11	11	11	11	11	11
79DT143C	—	11	11	11	11	11	11	11	11	11	11
80DT166A	—	11	11	11	11	11	11	11	11	11	11
80DT167A	—	11	11	11	11	11	11	11	11	11	11
80DT168A	200	11	11	11	11	14	14	14	15	20	20
80CE108	—	11	11	11	11	12	13	13	13	13	13
80CE109	—	11	11	11	11	12	13	13	13	13	13
80CE113	—	11	11	11	11	14	14	14	14	20	20
80CE114	—	11	11	11	11	12	14	14	14	20	20
80CE114A	—	11	11	11	11	14	14	14	14	20	20
80CE115A	—	11	11	11	11	12	13	13	13	13	13
80CE117A	—	11	11	11	11	12	13	13	13	13	13
80CE118	—	11	11	11	11	12	14	14	14	14	14
80CE122	—	11	11	11	11	14	14	14	14	14	14
80CE127	—	11	11	11	11	12	14	14	14	14	14
80DT185	100	11	11	11	11	12	14	14	14	14	14
80DT187	—	11	11	11	11	13	12	12	12	12	12
80DT189	—	11	11	12	11	11	11	11	11	11	11
80DT192	—	11	11	12	11	11	11	11	11	11	11
80AX16	—	11	11	14	12	12	11	11	11	11	11
80AX16A	200	11	11	11	11	14	14	14	14	14	14
80AX18	—	11	11	14	12	11	11	11	11	11	11
80AX19	—	11	11	14	12	11	11	11	11	11	11
80AX22	—	11	11	14	12	11	11	11	11	11	11
80AX24	—	11	11	14	12	11	11	11	11	11	11
80AX25	—	11	11	14	12	11	11	11	11	11	11
80AX30A	—	11	11	14	12	11	11	11	11	11	11
80AX34	—	11	11	14	12	11	11	11	11	11	11
80AX37	—	11	11	14	12	12	12	12	12	12	12
80AX38	—	11	11	14	12	12	12	12	12	12	12

Sample No.	Latitude (N.)	Longitude (W.)	Fe	Mg	Ca	Ti	Mn	Ag	As	Au	B	Ba	Be
80AY39	57 25 18	156 32 54	1.5	1.00	.70	.100	500	<.5	N	N	20	700	<1.0
80AY40	57 27 7	156 32 48	1.5	.70	1.50	.150	500	N	N	N	15	700	<1.0
80AY41	57 27 50	156 34 14	2.0	1.00	2.00	.200	700	N	N	N	15	700	<1.0
80DT211A	57 22 24	156 32 40	3.0	2.00	5.00	.300	1,500	N	N	N	30	500	<1.0
80AY48	57 27 12	156 16 15	7.0	2.00	.70	.500	1,000	N	N	N	20	300	<1.0
80CE154	57 11 20	156 20 11	3.0	1.50	1.50	.300	1,000	N	N	N	15	300	<1.0
80CE155	57 11 20	156 20 29	5.0	1.50	1.00	.700	700	<.5	N	N	30	700	<1.0
80CE156A	57 11 27	156 21 9	3.0	1.50	10.00	.150	5,000	N	N	N	70	1,500	1.0
80CE156B	57 11 27	156 21 9	7.0	3.00	3.00	.300	1,000	N	N	N	20	700	<1.0
80AY15	57 26 33	156 02 26	5.0	2.00	3.00	.300	1,500	N	N	N	15	200	<1.0
80CE133A	57 34 42	156 02 55	5.0	2.00	2.00	.500	1,000	N	N	N	20	500	<1.0
80CE158	57 11 42	156 21 22	7.0	.70	3.00	.500	700	.5	N	N	30	1,000	1.0
80CE159	57 11 54	156 22 18	5.0	1.50	.70	.700	300	<.5	N	N	70	700	1.0
80AY53	57 12 38	156 23 7	5.0	2.00	3.00	.500	700	<.5	N	N	15	1,500	<1.0
80WS201	57 26 14	156 3 42	7.0	3.00	5.00	.500	700	N	N	N	10	200	N
80WS202	57 26 26	156 4 22	3.0	1.00	1.50	.300	500	<.5	N	N	10	500	<1.0
80WS203A	57 26 27	156 4 50	5.0	1.00	1.50	.500	500	<.5	N	N	10	1,000	N
80WS203B	57 26 27	156 4 50	7.0	.50	2.00	.700	700	.7	N	N	15	300	N
80AY54	57 26 13	156 3 42	>20.0	1.50	<.05	.300	1,000	.7	1,000	N	<10	100	N
80AY57A	57 26 2	156 5 53	7.0	2.00	2.00	.700	1,000	<.5	N	N	20	500	N
80CE160A	57 19 17	156 32 34	7.0	3.00	1.00	.700	1,000	N	N	N	20	300	N
80CE162A	57 19 44	156 32 10	10.0	.70	.20	1,000	300	N	N	N	30	70	<1.0
80WS205	57 32 32	156 5 40	5.0	1.50	2.00	.500	500	N	N	N	10	300	N
80WS206A	57 32 25	156 5 35	5.0	1.50	2.00	.500	700	N	N	N	15	500	N
80WS206B	57 32 20	156 5 31	>20.0	.50	1.00	.300	200	N	N	N	10	200	N
80WS207	57 32 16	156 5 26	7.0	2.00	3.00	.700	1,500	N	N	N	<10	300	N
80DT229	57 8 9	156 24 40	5.0	1.50	3.00	.500	1,000	N	N	N	10	700	<1.0
80DT230	57 9 3	156 21 40	3.0	.70	1.00	.500	1,000	N	N	N	15	700	<1.0
80DT232A	57 9 3	156 21 40	7.0	2.00	1.50	.500	700	N	N	N	15	200	N
80CE165	57 12 53	156 22 15	15.0	1.50	1.00	.200	700	.5	1,000	N	10	200	N
80CE139	57 18 28	156 25 43	10.0	3.00	5.00	.700	1,000	N	N	N	<10	150	N
80WS209	57 11 20	156 20 2	5.0	1.50	2.00	.500	1,500	<.5	N	N	30	700	1.0
80WS211	57 10 22	156 20 10	5.0	2.00	2.00	.500	1,000	N	N	N	10	500	<1.0
80WS212	57 10 10	156 20 35	7.0	2.00	3.00	.500	1,500	N	N	N	<10	200	N
80WS213	57 10 58	156 20 50	3.0	1.50	3.00	.300	700	<.5	N	N	10	500	<1.0
80WS214	57 10 8	156 23 44	2.0	1.50	1.50	.200	500	N	N	N	15	700	1.0
80WS215	57 9 40	156 27 1	5.0	.30	.07	.700	700	<.5	N	N	50	300	1.0
80WS216	57 10 56	156 27 54	2.0	1.50	2.00	.200	300	N	N	N	50	1,000	<1.0
80WS217B	57 11 55	156 23 30	5.0	3.00	3.00	.300	700	N	N	N	30	1,500	<1.0
80WS217C	57 11 55	156 23 30	3.0	1.00	.07	.500	300	.7	N	N	70	700	<1.0
80DT246	57 13 1	156 26 30	3.0	2.00	2.00	.500	700	<.5	N	N	30	700	<1.0
80DT248	57 13 18	156 26 19	3.0	2.00	1.00	.300	200	N	N	N	50	300	<1.0
80DT250	57 13 46	156 25 30	7.0	3.00	5.00	.500	1,000	<.5	N	N	15	200	<1.0
80DT251A	57 11 19	156 21 50	3.0	2.00	2.00	.300	1,000	N	N	N	15	300	<1.0
80DT252	57 5 58	156 21 35	7.0	3.00	3.00	.500	1,500	N	N	N	10	300	<1.0

Sample No.	Bi	Cd	Co	Cr	Cu	La	Mo	Nb	Ne	Pb	Sb	Sc	Sn
80AY39	N	N	15	100	30	N	N	N	50	<10	N	20	N
80AY40	N	N	7	10	20	N	N	N	7	<10	N	15	N
80AY41	N	N	20	30	15	<20	N	<20	15	10	N	15	N
80DT211A	N	N	30	150	70	<20	N	N	50	20	N	50	N
80AY45	N	N	30	100	70	N	N	N	30	10	N	50	N
80CE154	N	N	15	20	20	<20	N	N	7	150	N	50	30
80CE155	N	N	30	100	30	30	N	N	20	50	N	50	N
80CE156A	N	N	20	200	30	50	N	N	50	30	N	30	N
80CE156B	N	N	50	50	50	N	N	N	30	70	N	70	N
80AY15	N	N	30	50	70	N	N	N	20	10	N	50	N
80CE133A	N	N	30	200	100	20	N	N	50	20	N	50	N
80CE158	N	N	30	70	20	20	N	N	30	30	N	30	N
80CE159	N	N	20	200	50	20	N	N	50	15	N	50	N
80AY53	N	N	30	300	15	50	N	N	50	20	N	30	N
80WS201	N	N	20	150	30	N	N	N	30	10	N	50	N
80WS202	N	N	10	20	30	<20	N	N	10	<10	N	20	N
80WS203A	N	N	15	50	70	N	N	N	15	10	N	20	N
80WS203B	N	N	30	70	700	<20	N	N	30	15	N	20	N
80AY54	N	N	70	70	100	<20	<5	N	20	15	N	50	N
80AY57A	N	N	30	200	150	<20	N	N	50	20	N	50	N
80CE160A	N	N	30	70	50	<20	N	N	30	15	N	50	N
80CE162A	N	N	50	150	200	20	N	N	70	15	N	70	N
80WS205	N	N	7	10	20	N	N	N	7	<10	N	30	N
80WS206A	N	N	20	10	20	N	N	N	10	10	N	30	N
80WS206B	N	N	70	150	300	20	<5	N	50	10	N	50	N
80WS207	N	N	15	30	50	N	N	N	15	10	N	70	N
80DT229	N	N	20	50	70	30	N	N	20	15	N	30	N
80DT230	N	N	10	N	30	N	N	N	5	<10	N	20	N
80DT232A	N	N	30	30	50	N	N	N	15	<10	N	50	N
80CE165	N	N	20	50	70	30	<5	N	20	50	N	30	N
80CE139	N	N	50	500	100	N	N	N	70	N	N	70	N
80WS209	N	N	7	<10	7	N	N	N	7	<10	N	50	N
80WS211	N	N	20	50	20	N	N	N	15	10	N	50	N
80WS212	N	N	30	50	50	N	N	N	15	<10	N	50	N
80WS213	N	N	10	50	50	<20	N	N	10	10	N	50	N
80WS214	N	N	20	30	70	50	S	N	15	10	N	30	N
80WS215	N	N	30	70	50	30	N	<20	50	<10	N	50	N
80WS216	N	N	7	15	15	20	N	N	5	<10	N	30	N
80WS217B	N	N	30	500	70	70	N	N	70	15	N	50	N
80WS217C	N	N	20	150	50	50	N	<20	50	30	N	30	N
80DT246	N	N	30	300	100	20	N	N	50	15	N	50	N
80DT248	N	N	30	200	100	N	N	N	70	15	N	30	N
80DT250	N	N	50	70	100	<20	N	N	30	10	N	70	N
80DT251A	N	N	30	100	70	20	N	N	30	10	N	50	N
80DT252	N	N	15	200	70	N	N	N	30	50	N	70	N

Sample No.	Sr	V	W	Y	Zn	Zr	Th	AA-Au	INST-Hg	AA-Cu	AA-Pb	AA-Zn	AA-Alg
80AY39	300	150	N	<10	70	30	10	10	10	35	10	25	35
80AY40	1,000	150	N	10	70	15	10	15	15	15	10	55	55
80AY41	700	150	N	<200	70	70	70	70	70	70	70	70	70
80DT211A	300	200	N	30	30	30	30	30	30	20	20	75	75
80AY43	300	300	N	30	30	<200	100	100	100	100	100	100	100
80CE154	500	200	N	50	100	150	150	150	150	30	30	80	80
80CE155	500	300	N	30	<200	70	70	70	70	30	30	90	90
80CE156A	700	200	N	50	50	70	70	70	70	30	30	35	35
80CE156B	700	500	N	30	500	50	50	50	50	50	75	380	380
80AY45	500	300	N	30	<200	70	70	70	70	10	10	85	85
80CE153A	300	200	N	30	10	10	10	10	10	10	10	10	10
80CE158	700	150	N	20	100	100	100	100	100	100	100	100	100
80CE159	300	200	N	30	<200	100	100	100	100	100	100	100	100
80AY53	2,000	200	N	15	<200	100	100	100	100	100	100	100	100
80WS201	500	300	N	50	N	50	N	N	N	N	N	N	N
80WS202	200	150	N	30	N	150	N	N	N	N	N	N	N
80WS203A	700	200	N	20	N	100	N	N	N	N	N	N	N
80WS203B	700	150	N	20	N	100	N	N	N	N	N	N	N
80AY54	300	300	N	30	<200	100	100	100	100	100	100	100	100
80AY57A	300	300	N	30	<200	100	100	100	100	100	100	100	100
80CE160A	500	300	N	50	N	100	N	N	N	N	N	N	N
80CE162A	200	300	N	30	<200	100	100	100	100	100	100	100	100
80WS205	300	150	N	30	N	150	N	N	N	N	N	N	N
80WS206A	300	150	N	30	N	150	N	N	N	N	N	N	N
80WS206B	300	200	N	50	N	150	N	N	N	N	N	N	N
80WS207	500	200	N	30	N	50	N	N	N	N	N	N	N
80DT229	500	150	N	30	N	150	N	N	N	N	N	N	N
80DT230	500	100	N	30	N	100	N	N	N	N	N	N	N
80DT232A	700	200	N	30	<200	150	N	N	N	N	N	N	N
80CE165	100	100	N	50	200	50	N	N	N	N	N	N	N
80CE139	300	300	N	50	<200	70	70	70	70	10	10	20	20
80WS209	500	100	N	50	N	100	N	N	N	N	N	N	N
80MS211	700	200	N	30	N	150	N	N	N	N	N	N	N
80MS212	500	200	N	20	N	50	N	N	N	N	N	N	N
80MS213	500	300	N	30	N	100	N	N	N	N	N	N	N
80MS214	300	200	N	50	<200	200	200	200	200	20	20	20	20
80MS215	500	200	N	50	N	200	200	200	200	20	20	20	20
80MS216	500	200	N	50	N	200	200	200	200	20	20	20	20
80WS217B	1,500	300	N	50	<200	200	200	200	200	20	20	20	20
80WS217C	<100	200	N	50	<200	150	N	N	N	N	N	N	N
80DT246	500	300	N	30	<200	100	100	100	100	10	10	40	40
80DT248	500	300	N	20	<200	100	100	100	100	15	15	60	60
80DT250	700	500	N	30	<200	100	100	100	100	20	20	45	45
80DT251A	500	300	N	30	<200	100	100	100	100	25	25	45	45
80DT252	700	500	N	30	<200	100	100	100	100	30	30	60	60

Sample No.	SL-F	Material Class	Sample Type	Sample Source	Rock Type	FC1	FC2	FC3	FC4	FC5	FC6
80AY39	11	11	11	12	12	2	11	11	11	11	11
80AY40	11	11	11	12	12	2	11	11	11	11	11
80AY41	11	11	11	14	12	2	11	11	11	11	25
80DT211A	11	11	12	12	12	2	11	11	11	15	12
80AY45	11	11	11	12	12	1	11	11	11	11	11
80CE154	11	11	11	14	11	2	11	11	14	22	22
80CE155	11	11	11	12	11	2	11	11	11	11	36
80CE156A	11	11	11	12	11	2	11	11	11	11	36
80CE156B	11	11	11	14	11	2	11	14	15	15	—
80AY15	—	—	—	—	—	—	—	—	—	—	—
80CE133A	11	11	11	11	11	11	13	13	15	37	37
80CE158	11	11	11	11	11	2	11	14	13	37	37
80CE159	11	11	11	12	11	2	11	12	15	37	37
80AY53	11	11	11	14	11	2	11	12	15	37	37
80MS201	11	11	11	14	12	1	11	14	17	2	—
80MS202	11	11	11	14	12	1	11	12	14	2	—
80MS203A	11	11	11	12	12	1	11	11	14	11	—
80MS203B	11	11	11	12	12	1	11	14	11	11	37
80AY54	11	11	11	14	12	1	11	14	15	15	15
80AY57A	11	11	11	12	12	1	11	11	11	11	—
80CE160A	11	11	11	12	12	2	11	11	11	13	—
80CE162A	11	11	11	12	12	2	11	11	11	13	—
80MS205	11	11	11	14	13	1	11	11	14	24	24
80MS206A	11	11	11	14	12	13	1	11	12	11	22
80MS206B	11	11	11	12	12	13	1	11	14	11	15
80MS207	11	11	11	14	13	1	11	11	11	11	—
80RT229	11	11	11	14	11	2	11	11	14	24	24
80DT230	11	11	11	14	11	2	11	11	14	27	27
80DT232A	11	11	11	14	11	2	11	11	14	27	27
80CE165	11	11	11	14	11	2	11	14	17	36	36
80CE139	11	11	11	14	12	2	11	12	15	20	20
80MS209	11	11	11	14	11	2	11	11	15	22	22
80MS211	11	11	11	14	11	2	11	12	14	22	22
80MS212	11	11	11	14	11	2	11	14	15	25	25
80MS213	11	11	12	11	12	1	11	12	11	12	—
80MS214	11	11	11	14	11	2	11	12	14	25	25
80MS215	11	11	11	14	11	2	11	12	14	25	25
80MS216	11	11	11	14	11	2	11	12	14	25	25
80MS217B	11	11	11	14	11	2	11	12	15	22	22
80MS217C	11	11	11	14	11	2	11	12	15	22	22
80DT246	11	11	11	14	11	2	11	12	15	37	37
80DT248	11	11	11	14	12	11	12	12	15	15	15
80DT250	11	11	11	14	12	11	12	12	15	13	13
80DT251A	11	11	11	14	12	11	12	12	15	27	27
80DT252	11	11	11	14	12	11	12	12	15	27	27

Sample No.	Latitude (N.)	Longitude (W.)	Re	Mg	Ca	T1	tau	Ag	As	Au	R	Ba	Be
80MS217	57 11 58	156 23 26	3.0	2.00	1.50	.300	700				30	1,000	<1.0
80DT246A	57 13 1	156 26 30	3.0	2.00	1.50	.300	1,000				20	500	<1.0
80MS219	57 6 35	156 38 40	2.0	.70	1.00	.500	300				15	150	1.0
80MS220	57 6 41	156 37 58	1.5	1.00	1.00	.500	500				30	700	1.5
80MS221	57 6 36	156 37 20	1.0	2.00	1.50	.500	500				15	300	1.0
80MS222	57 10 35	156 37 5	7.0	1.00	1.00	.500	700				30	200	<1.0
80MS224	57 0 35	156 28 22	.1	.02	<.05	1.000	2,000				15	700	<1.0
80AY62	57 6 18	156 38 25	1.5	1.00	.70	.500	1,000				30	700	2.0
80AY63	57 6 23	156 38 15	2.0	1.00	.70	.500	300				70	300	1.0
80AY64	57 6 27	156 38 11	1.5	1.00	1.00	.500	N				30	1,500	1.5
80AY65B	57 6 27	156 38 11	1.5	1.00	.70	.500	N				30	1,000	1.0
80AY66	57 6 32	156 38 4	2.0	1.50	3.00	.700	500				20	500	1.0
80AY67	57 6 30	156 37 10	2.0	1.00	.10	.700	200				30	700	1.0
80AY68	57 10 0	156 40 20	5.0	1.50	.30	.500	300	N			30	700	<1.0
80CE191C	57 16 7	156 28 7	1.5	1.50	.70	.500	500	N			30	1,500	<1.0
80MS227	57 3 3	156 33 43	5.0	1.50	2.00	.200	1,000	N			20	500	<1.0
80MS228	57 11 39	156 23 57	3.0	3.00	1.50	.300	700	N			20	1,000	<1.0
80MS229	57 11 18	156 23 24	3.0	2.00	.200	.200	500	N			15	5,000	<1.0
80CX003	57 2 15	156 30 16	.3	.03	<.05	.500	30	N			15	200	<1.0
80CX004	57 2 0	156 30 25	1.0	.02	<.05	.700	70	N			15	500	<1.0
80CX005	57 1 51	156 30 9	5.0	<.02	<.05	.700	20	N			15	200	<1.0
80CX006	57 1 33	156 28 33	10.0	<.02	<.05	.500	70	N			10	300	<1.0
80CX010	57 1 45	156 28 40	15.0	<.02	<.05	.300	20	N			15	300	<1.0
80AY69	57 11 49	156 24 10	2.0	1.50	2.00	.100	300	N			20	700	<1.0
80AY69A	57 11 49	156 24 10	2.0	1.00	.05	.300	200	N			20	300	<1.0
80AY70	57 11 40	156 23 59	5.0	2.00	2.00	.200	500	N			20	300	1.0
80DT261	57 25 18	157 0 50	3.0	2.00	3.00	.700	500	N			20	500	1.0
80CT192A	57 25 53	156 52 49	5.0	3.00	3.00	1.000	700	N			15	150	<1.0
80CE197A	57 26 45	156 56 20	2.0	1.00	1.00	.150	300	N			20	2,000	1.0
80CX14	57 14 26	157 4 41	2.0	1.50	.300	.150	200	N			15	700	1.0
80MS230	57 13 45	157 4 33	2.0	2.00	2.00	.150	300	N			10	300	<1.0
80MS231	57 13 50	157 4 30	3.0	1.50	1.00	.200	500	N			10	500	<1.0
80MS232	57 13 52	157 4 45	2.0	1.50	1.50	.100	500	N			15	1,000	<1.0
80MS232B	57 13 52	157 4 45	2.0	1.00	1.00	.300	200	N			15	500	<1.0
80MS233	57 14 10	157 5 0	3.0	3.00	.500	.700	1,000	N			10	300	1.0
80MS234	57 14 22	157 5 6	5.0	2.00	.500	.700	200	N			15	300	<1.0
80MS235	57 14 33	157 4 55	3.0	2.00	1.50	.200	500	N			15	1,000	1.0
80MS236	57 14 36	157 4 51	2.0	1.50	3.00	.150	300	N			15	1,500	<1.0
80CE198A	57 23 20	156 26 20	2.0	1.00	3.00	.300	200	N			15	1,000	1.0
80AY75	57 31 23	156 16 15	1.5	.50	.70	.070	300	N			20	500	<1.0
80DT271	57 14 45	156 42 35	3.0	3.00	.300	.300	300	N			15	300	<1.0
80CX26	57 36 47	155 34 46	2.0	1.00	1.00	.150	300	N			10	500	<1.0

Sample No.	B ₁	Cd	Co	Cr	Cu	La	Mn	Nb	Ni	Pb	Sb	Sc	Sn
80MS217	30	150	50	20	N	N	30	15	10	50	20	30	30
80DT246A	30	150	50	20	N	N	5	7	10	50	20	50	50
80MS219	5	20	7	30	N	N	7	5	10	70	30	70	70
80MS220	7	30	7	30	N	N	5	5	10	50	30	70	70
80MS221	15	70	5	N	N	N	5	5	10	50	30	70	70
80MS223	50	500	30	N	N	N	50	50	10	<20	20	20	20
80MS224	50	150	70	N	N	N	5	5	10	<20	20	20	20
80AY62	5	10	5	N	N	N	5	5	10	<20	20	20	20
80AY63	10	20	10	N	N	N	10	10	10	<20	20	20	20
80AY63A	7	50	50	N	N	N	7	7	10	<20	20	20	20
80AY63B	7	70	10	N	N	N	7	7	10	<20	20	20	20
80AY64	20	150	30	N	N	N	20	20	10	<20	20	20	20
80AY66	30	200	50	N	N	N	30	30	15	10	10	10	10
80AY67	5	30	50	N	N	N	5	5	10	<20	20	20	20
80AY68	10	100	50	N	N	N	10	10	10	<10	10	10	10
80CE191C	20	70	30	N	N	N	20	20	20	10	10	10	10
80MS227	30	70	50	N	N	N	30	30	20	10	10	10	10
80MS228	30	300	100	N	N	N	30	30	20	10	10	10	10
80MS229	<10	30	300	N	N	N	5	5	10	<20	20	20	20
80CX003	N	N	N	N	N	N	5	5	10	<20	20	20	20
80CX004	N	N	N	N	N	N	5	5	10	<20	20	20	20
80CX005	15	5	5	N	N	N	10	10	10	<20	20	20	20
80CX008	5	5	5	N	N	N	5	5	10	<20	20	20	20
80CX010	50	100	50	N	N	N	50	50	10	<20	20	20	20
80AY69	10	150	10	N	N	N	10	10	10	<10	10	10	10
80AY69A	7	200	50	N	N	N	7	7	10	<10	10	10	10
80AY70	50	300	200	N	N	N	50	50	10	<10	10	10	10
80DT263	30	150	100	N	N	N	30	30	10	<10	10	10	10
80CE192A	50	300	50	N	N	N	50	50	10	<10	10	10	10
80CE197A	20	150	10	N	N	N	20	20	10	<10	10	10	10
80CX14	15	70	70	N	N	N	15	15	10	<10	10	10	10
80MS230	20	200	200	N	N	N	20	20	10	<10	10	10	10
80MS231	20	150	200	N	N	N	20	20	10	<10	10	10	10
80MS232	20	200	10	N	N	N	20	20	10	<10	10	10	10
80MS232B	15	70	70	N	N	N	15	15	10	<10	10	10	10
80MS233	30	100	50	N	N	N	30	30	10	<10	10	10	10
80MS234	30	100	20	N	N	N	30	30	10	<10	10	10	10
80MS235	15	70	200	N	N	N	15	15	10	<10	10	10	10
80MS236	30	150	15	N	N	N	30	30	10	<10	10	10	10
80CE198A	20	10	150	N	N	N	20	20	10	<10	10	10	10
80AY75	7	70	20	N	N	N	7	7	10	<10	10	10	10
80AY76	50	150	50	N	N	N	50	50	10	<10	10	10	10
80DT271	30	50	50	N	N	N	30	30	10	<10	10	10	10
80CX26	20	20	150	N	N	N	20	20	10	<10	10	10	10

Sample No.	Si	V	W	Y	Zn	Zr	Th	Al-Alu	INST-HG	Al-Cu	Al-Pb	Al-Zn	Al-Ag
80MS217	1,000	300	15	100	45	15	45						
80DT246A	500	300	30	70	50	15	85						
80MS219	500	150	N	70	200	20	15						
80MS220	500	150	N	30	200	25	25						
80MS221	700	200	N	20	150	15	50						
80MS223	300	300	N	50	200	30	30	30	15	5	5	5	5
80MS222	500	300	N	200	100	200	<100						
80MS224	N	20	N	N	150	N	N						
80AY62	500	100	N	N	50	200	N						
80AY63	300	150	N	N	50	200	N						
80AY63A	700	150	N	50	15	5	15						
80AY63B	300	150	N	50	150	5	15						
80AY64	1,000	200	N	30	150	20	20						
80AY66	200	300	N	50	100	20	20						
80AY67	500	100	N	50	150	10	20						
80AY68	200	300	N	30	<200	40	20						
80CE191C	1,000	200	N	20	<200	35	20						
80MS227	1,500	200	N	30	<200	50	20						
80MS228	1,000	300	N	20	100	110	20						
80MS229	1,500	150	N	20	70	15	30						
80CX003	150	50	N	N	100	5	15						
80CX004	200	70	N	N	150	5	15						
80CX005	N	30	N	N	200	60	30						
80CX008	N	20	N	N	200	55	10						
80CX010	<100	20	N	10	100	45	10						
80AY69	1,500	70	N	10	<200	40	20						
80AY69A	N	100	N	10	100	70	20						
80AY70	1,000	100	N	15	<200	110	20						
80DT23	700	100	N	50	<200	40	10						
80CE192A	300	150	N	30	200	45	10						
80CE197A	200	70	N	20	N	30	<.05						
80CX14	700	70	N	30	N	30	<.05						
80MS230	700	100	N	20	<200	60	20						
80MS231	500	100	N	20	<200	15	25						
80MS232	700	70	N	20	N	170	20						
80MS232B	700	70	N	30	N	30	15						
80MS233	2,000	150	N	20	N	30	15						
80MS234	700	150	N	30	<200	15	20						
80MS235	500	100	N	20	N	15	25						
80MS236	1,000	100	N	20	N	15	25						
80CE198A	700	70	N	30	<200	15	20						
80AY75	500	150	N	10	N	25	25						
80AY76	1,500	100	N	20	N	25	25						
80DT271	100	70	N	30	N	25	25						
80CX26	300	70	N	15	N	25	25						

Sample No.	SI-F	Material Class	Sample Type	Sample Source	Rock Type	FC1	FC2	FC3	FC4	FC5	FC6
80MS217	--	II	II	I4	I1	2	11	12	14	22	
80UT246A	--	II	II	I4	I1	2	11	12	15	37	
80MS219	200	II	II	I2	II	2	11	14	37	37	
80MS220	--	II	II	I4	II	2	11	12	15	36	
80MS221	--	II	II	I4	I1	2	11	14	14	37	
80MS223	--	II	II	I2	I1	2	11	13	11	14	
80MS222	--	II	II	I6	I1	2	11	14	11	14	
80MS224	<100	II	II	I4	I1	2	11	11	37	37	
80AY62	--	II	II	I4	I1	2	11	14	16	37	
80AY63	--	II	II	I4	I1	2	11	12	16	37	
80AY63A	--	II	II	I4	I1	2	11	14	16	37	
80AY63B	--	II	II	I4	I1	2	11	12	16	37	
80AY64	--	II	II	I4	I1	2	11	13	15	37	
80AY66	--	II	II	I4	I1	2	11	12	16	37	
80AY67	--	II	II	I4	I1	2	11	12	16	37	
80AY68	--	II	II	I2	I1	2	11	11	15	37	
80CE191C	--	II	II	I2	I1	2	11	11	11	11	
80MS227	--	II	II	I2	I2	2	12	12	14	24	
80MS228	--	II	II	I2	I2	2	11	12	14	22	
80MS229	--	II	II	I4	I1	2	11	12	15	22	
80CX003	300	II	II	I4	I1	2	37	37	37	37	
80CX004	1,000	II	II	I4	I1	2	37	37	37	37	
80CX005	200	II	II	I4	I1	2	37	37	37	37	
80CX008	100	II	II	I2	I1	2	37	37	37	37	
80CK010	--	II	II	I2	I1	2	37	37	37	37	
80AY69	--	II	II	I4	I1	2	11	12	15	36	
80AY69A	--	II	II	I4	I1	2	11	11	11	15	
80AY70	--	II	II	I4	I2	4	11	14	15	36	
80UT263	--	II	II	I4	I2	3	11	11	15	36	
80CB192A	--	II	II	I4	I2	3	11	12	15	36	
80CE197A	--	II	II	I2	I2	3	11	11	11	15	
80CX14	--	II	II	I7	I1	4	37	37	37	37	
80MS230	--	II	II	I4	I1	4	11	14	14	36	
80MS231	200	II	II	I7	I1	4	11	14	37	37	
80MS232	--	II	II	I4	I1	4	11	13	15	22	
80MS2328	--	II	II	I4	I1	4	11	12	15	22	
80MS233	--	II	II	I4	I1	4	11	13	15	22	
80MS234	--	II	II	I4	I1	4	11	12	15	22	
80MS235	--	II	II	I4	I1	4	11	14	15	22	
80MS236	--	II	II	I4	I1	4	11	12	14	36	
80CE198A	--	II	II	I4	I2	2	11	12	15	22	
80AY75	--	II	II	I2	I3	1	11	11	11	12	
80AY76	--	II	II	I4	I3	1	11	12	15	22	
80UT271	--	II	II	I4	I3	1	11	12	16	22	
80CX26	--	II	II	I2	I3	1	11	14	14	14	

Sample No.	Latitude (N.)	Longitude (W.)	Fe	Mg	Ca	Ti	Mn	Ag	As	Au	B	Ba	Be
80CX36	57 42 32	155 23 11	1.5	1.00	15.00	.050	2,000	N	N	N	<10	700	N
80MS240	57 53 48	155 7 10	2.0	1.00	3.00	.070	500	N	N	N	10	300	<1.0
60MS240B	57 53 48	155 7 10	2.0	.70	.50	.100	300	N	N	N	15	500	<1.0
80MS240C	57 53 48	155 7 10	1.5	.70	.70	.070	200	N	N	N	15	500	1.0
80MS241	57 54 28	155 9 15	2.0	1.00	1.50	.100	500	N	N	N	15	300	<1.0
80MS241A	57 54 28	155 9 15	3.0	2.00	1.00	.300	500	N	N	N	20	500	<1.0
80MS243	57 53 11	155 4 8	1.5	.15	.20	.070	200	N	N	N	50	300	1.0
80MS243A	57 54 28	155 4 8	5.0	3.00	7.00	.150	2,000	N	N	N	15	700	<1.0
80MS244	57 45 37	155 17 28	2.0	2.00	2.00	.100	300	N	N	N	20	300	<1.0
80MS248	57 52 35	155 4 47	2.0	1.50	2.00	.100	500	N	N	N	20	200	<1.0
80MS250	57 51 35	155 8 31	3.0	1.50	3.00	.200	700	N	N	N	15	700	1.0
80CX37C	57 53 12	155 5 33	2.0	1.50	2.00	.100	300	N	N	N	15	300	<1.0
80CX38	57 53 18	155 5 54	3.0	1.50	2.00	.200	300	N	N	N	10	500	1.0
80WS256	57 52 39	156 32 21	5.0	3.00	3.00	.300	700	<.5	N	N	20	700	<1.0
80YB127	57 34 13	155 50 36	3.0	1.00	1.50	.300	500	N	N	N	15	700	1.0
80CX46	57 44 49	155 42 20	3.0	1.50	1.50	.200	500	N	N	N	20	500	<1.0
80CX12B	57 14 22	157 3 47	2.0	2.00	2.00	.150	300	N	N	N	15	500	<1.0
80MS245B	57 53 6	155 4 15	3.0	1.50	1.50	.200	300	N	N	N	15	500	1.0
80CE213A	59 59 33	155 5 30	3.0	1.50	.70	.200	300	N	N	N	15	700	<1.0
81WS270	57 43 7	156 23 56	5.0	1.00	2.00	.300	2,000	N	N	N	30	1,000	2.0
81WS266	57 57 47	155 45 57	7.0	2.00	5.00	.500	1,500	N	N	N	20	300	N
81WS269	57 42 2	156 23 47	5.0	2.00	5.00	.500	1,500	N	N	N	20	700	1.0
81WS271	57 43 27	156 22 10	5.0	1.50	3.00	.300	1,500	N	N	N	30	700	1.0
81YB133	57 52 20	155 24 32	7.0	1.50	5.00	.700	1,500	N	N	N	70	700	1.0
81SH001	57 27 15	156 2 43	7.0	5.00	.500	1,500	N	N	N	20	200	N	
81WS272A	57 27 31	156 2 33	7.0	2.00	2.00	.500	1,500	N	N	N	70	700	1.0
81WS272B	57 27 31	156 2 33	3.0	.70	2.00	.300	700	N	N	N	70	700	2.0
81SH002	57 42 4	156 49 15	3.0	1.00	2.00	.300	1,000	N	N	N	<10	1,000	2.0
81WS275	57 38 10	156 59 19	7.0	10.00	5.00	.700	1,500	N	N	N	10	700	N
81WS275B	57 38 10	156 59 19	7.0	10.00	5.00	.700	2,000	N	N	N	10	700	1.0
81WS279A	57 14 40	156 41 34	5.0	2.00	2.00	.500	700	N	N	N	70	700	1.0
81WS279B	57 14 40	156 41 34	7.0	10.00	20.00	.200	3,000	N	N	N	500	300	3.0
81WS279C	57 14 40	156 41 34	5.0	5.00	.500	1,000	N	N	N	10	200	2.0	
81WS279D	57 14 40	156 41 34	5.0	10.00	.500	2,000	N	N	N	10	150	1.0	
81CE259B	57 10 39	156 27 7	5.0	.50	.50	.700	1,000	N	N	N	500	1,000	3.0
81RJ26B	57 8 40	156 34 36	7.0	10.00	5.00	.500	1,500	N	N	N	70	2,000	1.0
81JM15	57 11 15	156 20 39	7.0	5.00	.700	1,500	N	N	N	70	1,000	1.0	
81WS281	57 11 39	156 37 56	7.0	10.00	5.00	.500	1,500	N	N	N	20	700	1.0
81WS282	57 10 55	156 37 38	3.0	1.00	2.00	.300	1,000	N	N	N	50	2,000	2.0
81WS283	57 4 46	156 34 15	7.0	2.00	5.00	.500	1,500	N	N	N	50	1,000	2.0
81SH003	57 10 34	156 37 4	5.0	2.00	3.00	.500	700	N	N	N	50	1,000	2.0
81WS287	57 8 0	156 32 19	5.0	2.00	3.00	.300	1,000	N	N	N	50	1,000	1.0
81WS289A	57 7 35	156 24 44	10.0	10.00	5.00	.700	3,000	N	N	N	20	700	1.0
81DT318	57 31 18	156 11 40	10.0	5.00	5.00	.700	2,000	N	N	N	20	700	1.0
81DT328	57 9 20	157 30 40	7.0	1.00	.700	1,000	N	N	N	70	1,000	1.0	

Sample No.	Bi	Cd	Co	Cr	Cu	La	Mn	Nb	Ni	Pb	Sb	Sc	Sn
80CX36	10	20	10	10	10	N	N	10	10	N	N	N	N
80MS240	20	15	15	15	15	N	N	15	15	N	N	15	15
80MS240C	20	7	7	7	7	N	N	20	20	N	N	20	20
80MS241	10	15	15	15	15	N	N	10	10	N	N	10	10
80MS241A	N	N	N	N	N	N	N	N	N	N	N	N	N
80MS243	30	20	20	20	20	N	N	10	10	N	N	5	5
80MS243A	20	50	30	30	30	N	N	20	20	N	N	30	30
80MS244	20	30	30	30	30	N	N	10	10	N	N	50	50
80MS246	20	50	7	N	N	N	N	15	15	N	N	N	N
80MS250	30	70	30	<20	N	N	N	20	10	N	N	N	N
80CX37C	15	150	500	500	500	N	N	50	50	N	N	<10	<10
80CX38	20	100	20	20	20	N	N	30	30	N	N	30	30
80MS256	30	150	50	20	20	N	N	15	15	N	N	70	70
80YB127	20	50	30	20	20	N	N	20	10	N	N	30	30
80CX46	20	200	50	>20	N	N	N	10	10	N	N	50	50
80CX128	15	300	100	30	30	N	N	10	10	N	N	30	30
80MS245B	20	70	70	20	20	N	N	30	30	N	N	30	30
80CE213A	N	N	N	N	N	N	N	30	30	N	N	N	N
81MS270	N	N	N	N	N	N	N	10	10	N	N	N	N
81MS266	N	N	N	N	N	N	N	50	50	N	N	N	N
81MS269	N	N	N	N	N	N	N	50	50	N	N	N	N
81MS271	N	N	N	N	N	N	N	20	20	N	N	N	N
81YB138	N	N	N	N	N	N	N	50	50	N	N	N	N
81SH001	N	N	N	N	N	N	N	70	70	N	N	N	N
81MS272A	N	N	N	N	N	N	N	20	20	N	N	N	N
81MS272B	N	N	N	N	N	N	N	5	5	N	N	N	N
81SH002	N	N	N	N	N	N	N	50	50	N	N	N	N
81MS275	N	N	N	N	N	N	N	1,000	1,000	N	N	N	N
81MS275B	N	N	N	N	N	N	N	70	70	N	N	N	N
81MS279A	N	N	N	N	N	N	N	15	15	N	N	N	N
81MS279B	N	N	N	N	N	N	N	10	10	N	N	N	N
81MS279C	N	N	N	N	N	N	N	10	10	N	N	N	N
81MS279D	N	N	N	N	N	N	N	10	10	N	N	N	N
81CE259B	N	N	N	N	N	N	N	10	10	N	N	N	N
81RJ26B	50	50	50	50	50	N	N	100	100	N	N	20	20
81LJM15	50	70	150	100	100	N	N	20	20	N	N	15	15
81MS281	15	100	50	50	50	N	N	20	20	N	N	30	30
81MS282	100	100	100	100	100	N	N	20	20	N	N	30	30
81MS283	100	50	20	20	20	N	N	5	5	N	N	20	20
81SH003	20	50	100	100	100	N	N	10	10	N	N	30	30
81MS287	20	50	20	20	20	N	N	10	10	N	N	20	20
81MS289A	50	150	20	20	20	N	N	100	100	N	N	30	30
81DT318	150	200	200	200	200	N	N	10	10	N	N	30	30
81DT328	50	50	50	50	50	N	N	100	100	N	N	20	20

Sample No.	Si	V	W	Y	Zn	Zr	Th	AA-Au	INST-Hg	AA-Cu	AA-Pb	AA-Zn	AA-Ag
80CX36	500	30	N	N	N	N	N	10	30	5	40	—	—
80MS240	700	150	N	N	N	N	70	10	10	20	30	15	—
80MS240B	300	150	N	N	N	N	100	70	N	N	65	25	—
80MS240C	500	150	N	N	N	N	70	N	N	N	15	15	—
80MS241	700	150	N	N	N	N	70	70	N	N	45	45	—
80MS241A	500	300	N	N	30	N	100	100	N	N	75	20	—
80MS241B	200	70	N	N	<10	N	70	70	N	N	100	10	—
80MS243A	700	150	N	N	30	N	70	N	N	N	15	15	—
80MS244	300	200	N	N	20	N	70	N	N	N	25	20	—
80MS246	700	200	N	N	10	N	70	N	N	N	40	40	—
80MS250	700	200	N	N	30	N	70	N	N	N	55	20	—
80CX37C	700	200	N	N	15	N	70	N	N	N	55	20	—
80CX38	700	200	N	N	30	N	100	N	N	N	15	15	—
80MS256	300	300	N	N	30	<200	70	N	N	N	220	15	—
80Y8127	500	200	N	N	30	<200	100	N	N	N	350	10	—
80CX46	500	200	N	N	30	N	70	N	N	N	45	45	—
80CX12B	700	200	N	N	20	N	100	N	N	N	10	10	—
80MS245B	300	200	N	N	30	N	100	N	N	N	65	15	—
80CE213A	200	100	N	N	20	N	100	N	N	N	10	10	—
81WS270	700	100	N	N	30	N	200	N	N	N	35	15	—
81WS266	500	300	N	N	30	N	150	N	N	N	40	40	—
81WS269	700	200	N	N	30	N	200	N	N	N	50	20	—
81WS271	700	200	N	N	30	N	200	N	N	N	50	15	—
81Y8138	700	300	N	N	50	N	200	N	N	N	80	15	—
81SH001	500	300	N	N	20	N	200	N	N	N	20	5	—
81WS272A	700	200	N	N	30	N	200	N	N	N	30	5	—
81WS272B	1,000	100	N	N	N	N	70	N	N	N	45	45	—
81SH002	1,000	100	N	N	20	N	200	N	N	N	10	10	—
81WS275	1,000	300	<50	N	50	N	200	N	N	N	5	5	—
81WS275B	1,000	300	N	N	50	N	200	N	N	N	5	5	—
81WS279A	500	300	N	N	30	<200	200	N	N	N	35	10	—
81WS279B	2,000	100	N	N	70	<200	150	N	N	N	140	10	—
81WS279C	700	100	N	N	10	N	500	N	N	N	15	15	—
81CE259B	300	300	N	N	30	N	300	N	N	N	60	60	—
81RJ268	2,000	300	N	N	10	N	300	N	N	N	10	10	—
81JH15	1,000	300	N	N	70	N	300	N	N	N	15	15	—
81WS281	1,500	300	N	N	50	N	300	N	N	N	5	5	—
81WS282	1,500	200	N	N	10	N	200	N	N	N	25	25	—
81WS283	500	300	N	N	70	N	300	N	N	N	10	10	—
81SH003	500	200	N	N	50	N	300	N	N	N	15	15	—
81WS287	500	200	N	N	50	N	300	N	N	N	10	20	—
81WS289A	1,000	300	N	N	50	N	500	N	N	N	15	15	—
81DT318	1,000	300	N	N	30	N	150	N	N	N	40	40	—
81DT328	100	200	N	N	30	N	300	N	N	N	130	15	—

Sample No.	SI-F	Material Class	Sample Type	Sample Source	Rock Type	FC1	FC2	FC3	FC4	FC5	FC6
80CX36	--	11	12	11	14	13	4	37	14	17	37
80WS240	--	11	11	11	14	14	4	12	12	14	22
80WS240B	200	11	12	11	12	14	4	11	14	11	13
80WS240C	100	11	12	11	14	14	4	11	14	37	37
80WS241	--	11	11	11	14	14	4	11	12	15	22
80WS241A	--	11	11	11	12	14	4	11	37	11	13
80WS243	--	11	11	11	14	14	4	11	14	15	37
80WS243A	--	11	12	11	12	14	4	11	14	17	37
80WS244	--	11	11	11	11	14	4	12	12	16	22
80WS246	--	11	11	11	14	14	4	11	12	15	22
80WS250	--	11	11	11	12	14	4	11	11	11	11
80CX37C	--	11	12	11	14	14	4	11	14	14	27
80CX38	200	11	12	11	13	14	4	11	14	37	18
80WS256	--	11	11	11	14	14	2	11	11	14	24
80YB127	--	11	11	11	12	13	6	11	11	12	13
80CX46	--	11	12	11	12	13	6	11	14	11	13
80CX128	--	11	12	11	17	11	4	37	37	37	37
80WS245B	--	11	11	11	12	14	4	11	14	11	12
80CE213A	--	11	11	11	12	14	4	11	11	11	11
81WS270	--	11	11	11	14	13	2	11	12	14	36
81WS266	--	11	11	11	14	14	6	11	13	15	22
81WS269	--	11	11	11	14	13	2	11	12	15	36
81WS271	--	11	11	11	14	13	2	11	12	19	36
81YB138	--	11	11	11	14	14	5	11	11	14	36
81SH001	--	11	11	11	14	12	1	11	11	14	25
81WS272A	--	11	11	11	12	12	1	11	14	11	16
81WS272B	--	11	11	11	14	12	1	11	14	14	25
81SH002	--	11	11	11	14	13	3	11	11	14	24
81WS275	300	11	11	11	14	13	3	11	12	16	22
81WS275B	--	11	11	11	14	13	3	12	11	16	22
81WS279A	--	11	11	11	12	11	3	11	11	12	15
81WS279B	--	16	11	11	35	11	3	11	13	17	36
81WS279C	--	16	11	11	35	11	3	11	13	17	36
81WS279D	--	16	11	11	35	11	3	11	13	17	36
81CE259B	--	11	11	11	14	11	2	11	14	15	36
81RJ26B	--	11	11	11	14	11	2	11	12	14	25
81JM15	--	11	11	11	14	11	2	11	12	19	22
81WS281	--	11	11	11	14	11	2	11	12	15	36
81WS282	--	11	11	11	14	11	2	11	12	15	22
81WS283	--	11	11	11	14	11	2	11	11	14	25
81SH003	--	11	11	11	14	11	2	11	14	15	36
81WS287	--	11	11	11	14	11	2	11	11	14	27
81WS289A	--	11	11	11	14	11	2	11	11	15	22
81DT318	--	11	11	11	14	13	1	11	12	11	37
81DT328	--	11	12	11	13	11	2	11	13	11	37

Sample No.	Latitude (N.)	Longitude (W.)	Fe	Mg	Ca	T1	Mn	Ag	As	Au	B	Be	
81DT33b	57 10	30 12	5.0	2.00	.70	.700	700	N	N	N	30	700	
81DT33j	57 10	11 15	5.0	.30	.20	.300	700	N	N	N	30	2,000	
81DT33j	57 10	11 15	5.0	.30	.20	.300	500	N	N	N	300	N	
81DT340	57 11	0 15	10.0	1.00	2.00	.300	500	N	N	N	30	1.0	
81YB151B	57 9	57 15	7.0	2.00	5.00	.500	1,000	N	N	N	20	2,000	
81YB151C	57 9	57 15	10.0	10.00	.700	2,000	N	N	N	N	50	300	
81SH7	57 10	30 10	5.0	1.50	1.50	.500	700	N	N	N	20	1.0	
81SH8	57 2	57 15	5.0	2.00	.500	1,000	N	N	N	N	10	500	
81SH11	57 1	46 15	5.0	3.00	2.00	.500	2,000	N	N	N	100	1.0	
81SH17	57 1	53 15	2.0	1.50	1.00	.200	500	N	N	N	20	500	
81SH18	57 1	2 15	5.0	2.00	.500	700	<.5	N	N	N	20	1.0	
81WS286	57 4	34 15	2.2	.03	.05	.700	50	N	N	N	10	50	
81WS292	57 1	45 15	5.0	2.00	.500	1,500	N	N	N	N	<10	N	
81WS293A	57 7	38 15	3.0	1.00	2.00	.500	1,500	N	N	N	10	700	
81WS293B	57 7	38 15	1.50	1.00	.500	1,500	N	N	N	N	20	<1.0	
81WS294A	57 7	39 15	5.0	3.00	.70	.500	1,500	N	N	N	N	20	<1.0
81WS294B	57 7	39 15	5.0	2.00	1.50	.500	1,500	N	N	N	20	200	
81WS294C	57 7	39 15	5.0	2.00	1.50	.500	1,000	N	N	N	50	500	
81WS297B	57 10	53 15	1.5	2.00	1.50	.200	300	N	N	N	50	500	
81WS304	57 5	40 15	5.0	2.00	1.50	.700	2,000	N	N	N	10	500	
81CE267	57 17	19 15	3.0	1.50	1.00	.300	1,000	N	N	N	50	700	
81CE273A	57 11	35 15	7.0	1.50	.05	.500	1,500	N	N	N	70	1.0	
81DT355	57 2	45 15	5.0	1.00	.700	.300	<.5	N	N	N	50	150	

Sample No.	B1	Cd	Ca	Cr	Cu	La	Mo	Nb	Ni	Pb	Sb	Sc	Sn
81DT336	N	N	N	N	30	150	100	N	N	70	30	30	30
81DT337	N	N	N	N	10	10	30	5	20	10	10	10	10
81DT340	N	N	N	N	70	100	300	N	N	70	10	20	20
81YB151B	N	N	N	N	30	150	150	20	15	70	10	20	20
81YB151C	N	N	N	N	50	700	10	N	N	150	N	50	N
81SH7	N	N	N	N	20	20	20	N	N	7	<10	N	20
81SR8	N	N	N	N	20	30	30	20	N	10	100	N	20
81SH11	N	N	N	N	20	150	20	N	N	70	50	N	20
81SH17	N	N	N	N	15	30	15	20	5	30	<10	N	10
81SH18	N	N	N	N	20	50	20	N	N	30	10	N	15
81WS286	N	N	N	N	20	<5	100	N	N	20	15	N	30
81WS292	N	N	N	N	20	50	<5	N	N	10	10	N	20
81WS293A	N	N	N	N	20	7	N	N	N	70	50	N	20
81WS293B	N	N	N	N	20	50	100	N	N	20	10	N	20
81WS294A	N	N	N	N	20	50	50	N	N	30	10	N	10
81WS294B	N	N	N	N	20	50	50	N	N	30	10	N	10
81WS294C	N	N	N	N	20	50	50	N	N	30	10	N	10
81WS297B	N	N	N	N	10	100	5	N	N	30	10	N	10
81WS304	N	N	N	N	20	20	30	N	N	30	10	N	20
81CE267	N	N	N	N	20	50	50	N	N	30	10	N	10
81CE271A	N	N	N	N	<5	100	300	N	N	30	10	N	20
81DT355	N	N	N	N	20	30	15	N	N	50	15	N	20

Sample No.	Sr	V	W	X	Zn	Zr	Tn	Al-Al	INST-Hg	Al-Cu	Al-Pb	Al-Zn	Al-Ag
81DT136	500	300	N	30	<200	200	N	N	70	15	35	--	--
81DT137	200	150	N	10	<200	300	N	N	20	20	65	--	--
81DT140	500	200	N	30	N	100	N	N	340	15	10	--	--
81VB151B	2,000	300	N	30	N	300	N	N	75	15	20	--	--
81VB151C	1,000	500	N	30	<200	70	N	N	5	15	15	--	--
81SH7	300	200	N	30	N	200	N	N	20	10	15	--	--
81SH8	500	200	N	50	N	200	N	N	30	25	30	--	--
81SH1	500	200	N	20	300	150	N	N	25	35	175	--	--
81SH17	500	100	N	10	N	100	N	N	20	20	30	--	--
81SH8	700	200	N	15	N	100	N	N	20	45	--	--	--
81WS286	N	20	N	<10	N	300	N	N	10	10	N	--	--
81WS292	500	200	N	20	N	200	N	N	70	15	40	--	--
81WS293A	500	150	N	30	N	150	N	N	45	15	45	--	--
81WS293B	500	200	N	20	N	100	N	N	35	35	35	--	--
81WS294A	300	200	N	20	<200	70	N	N	30	30	85	--	--
81WS294B	300	200	N	30	N	100	N	N	40	35	50	--	--
81WS294C	300	200	N	20	N	100	N	N	35	25	90	--	--
81WS297B	1,000	100	N	<10	N	150	N	N	45	10	N	--	--
81WS306	500	150	N	30	N	150	N	N	35	25	50	--	--
81CE267	300	150	N	20	N	100	N	N	65	25	50	--	--
81CE273A	200	150	N	20	200	150	N	N	30	30	220	--	--
81DT755	300	150	N	15	N	<.05	N	N	--	--	--	--	--

Sample No.	SI-P	Material Class	Sample Type	Sample Source	Rock Type	PC1	PC2	PC3	PC4	PC5	PC6
81DT335	--	11	12	11	14	11	2	11	12	14	37
81DT337	200	11	12	11	14	11	2	11	12	14	25
81DT340	--	11	12	11	23	11	2	11	11	19	37
81YB151B	300	11	13	11	14	11	2	11	13	15	37
81YB151C	300	11	14	11	14	11	2	11	13	15	37
81SH7	--	11	11	11	14	11	2	11	11	14	25
81SH8	--	11	11	11	14	11	2	11	11	14	27
81SH11	--	11	11	11	14	11	4	11	12	15	22
81SH17	--	11	11	11	14	11	3	11	11	19	22
81SH18	--	11	11	11	14	11	3	11	11	19	22
81WS285	--	11	11	11	35	11	2	11	11	19	36
81WS292	--	11	11	11	14	11	2	11	11	15	22
81WS293A	--	11	11	11	14	11	2	11	12	15	22
81WS293B	--	11	11	11	13	11	2	11	14	14	25
81WS294A	--	11	11	11	14	11	2	11	14	16	22
81WS294B	--	11	11	11	12	11	2	11	14	11	13
81WS294C	--	11	11	11	14	11	2	11	14	16	22
81WS297B	--	11	11	11	35	11	2	11	12	16	22
81WS304	--	11	11	11	13	11	3	11	12	11	36
81CE267	--	11	11	11	12	12	2	11	11	11	15
81CE273A	--	11	11	11	14	11	2	11	14	15	36
81DT355	--	11	11	11	14	11	3	11	12	15	22