UNITED STATES DEPARTMENT OF THE INTERIOR

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CHEMICAL ANALYSES OF STREAM SEDIMENT SAMPLES FROM THE SADLEROCHIT-JAGO RIVERS AREA, MT. MICHELSON AND DEMARCATION POINT QUADRANGLES, ALASKA

Compiled by

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Open-file report

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This report is preliminary
and has not been edited or
reviewed for conformity with
Geological Survey standards

Analytical data for 144 stream sediment samples from the southeastern part of the Mt. Michelson quadrangle and the southwestern part of the Demarcation Point quadrangle are given on Table 1. Statistical data on the frequency distribution of 30 elements are given in Tables 2 and 3. The sample localities are shown on Figure 1.

Most of the samples were collected in 1969 by H. N. Reiser, R. L. Detterman, W. P. Brosgé, E. G. Sable and J. T. Dutro, Jr.; six samples were collected in 1958 and 1968. Samples were collected from the active stream channel wherever possible; where this was not possible, samples were collected from bank or terrace deposits adjacent to the channel. Samples that may include sediments derived from granitic outcrops or granitic glacial debris are identified by the letters "gr" following the sample number.

Analyses for gold, silver and zinc were by the atomic absorption method and are accurate to ±100 percent. Arsenic and antimony analyses were by field colorimetric methods, and are accurate to ±30 to 50 percent. Mercury analyses were by the atomic absorption (instrumental) method. The data for the other elements are by six-step semiquantitative spectrographic analysis. The spectrographic analyses were reported in percentage (pct) or parts per million (ppm) to the nearest number in the series 1.0, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1, etc. The precision of a reported value is approximately plus 100 percent or minus 50 percent. Minimum limits of detection for each element are given on pages 2 and 3. Analyses were done by L. W. Bailey, E. F. Cooley, K. J. Curry, J. G. Frisken, C. L. Jacobson, H. D. King, R. W. Leinz, R. L. Miller, E. L. Mosier, D. J. Muffler, D. G. Murrey, S. L. Noble, M. S. Rickard, R. B. Tripp and J. G. Viets.

The analytical data have been processed by means of a computer program known as GEOSUM. The GEOSUM program is designed primarily for summarizing and tabulating geochemical data from semiquantitative spectrographic analyses (commonly referred to as six-step spectrographic analyses) by the laboratories of the U.S. Geological Survey

The program output consists of: (a) a tabulation of the data (Table 1), (b) histograms and cumulative frequency distributions for all elements (Table 2), and (c) a statistical summary which includes geometric means and geometric deviations (Table 3).

Explanation of Table 1

The results of the analyses of the stream sediment samples are given in Table 1 as analytical values such as 7.0000 ppm, 10.0000 percent, etc., or as qualified values expressed as a letter. These letter codes are N = not detected, L = less than specified limit of detection, G = greater than value shown, B = no data. The terms T = trace, and H = interference do not occur in these data. Note that the right-most zero digits for each analytical value may or may not be significant. The specified limits of detection are as follows:

Specified limits of detection

FE PCT	MG PCT	CA PCT	TI PCT	MN PPM	AG PPM
0.05000	0.02000	0.05000	0.00200	10.00000	0.50000
AS PPM	1/ AU PPM	B PPM	BA PPM	BE PPM	BI PPM
0.20000	0.02000	10.00000	20.00000	1.00000	10.00000
CO PPM	CR PPM	CU PPM	LA PPM	MO PPM	NB PPM
5.00000	5.00000	5.00000	20.00000	5.00000	10.00000

1/ Because of insufficient sample material the lower limit for Au was 0.04 in 2 samples, and 0.1 in 2 samples.

Specified limits of detection (Continued)

NI PPM	PB PPM	SB PPM	SC PPM	SN PPM	SR PPM
5.00000	10.00000	0.50000	5.00000	10.00000	100.00000

V PPM	W PPM	Y PPM	ZN PPM	ZR PPM	HG PPM
10.00000	50.00000	10.00000	25.00000	10.00000	0.01000

Explanation of Table 2

Histograms showing the frequency distribution of the reported elements in all of the samples are given in Table 2. The histograms for bismuth, gold, molybdenum, silver and tungsten have been omitted because so few values for these metals were reported. Data for gold, silver, arsenic, antimony, and zinc that were determined by atomic absorption and colorimetric methods have been recast by the GEOSUM program into the six-step form of the spectrographic analyses.

In addition to the histograms representing all 144 samples separate sets of histograms were computed for the group of 75 samples from streams that drain the granitic terrane and the group of 69 samples from streams that drain the sedimentary and metamorphic terrane of the rest of the area. These additional histograms are given for arsenic, beryllium, copper, lead, tin and zinc. Statistical data for all the metals from each of the different provenances are summarized in Table 3.

Semiquantitative spectrographic analyses by the U.S. Geological Survey are reported as geometric midpoints (1.0, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1, etc.) of geometric brackets having the boundaries 1.2, 0.83, 0.56, 0.38, 0.26, 0.18, 0.12, 0.083, etc. The frequency distribution and histograms are on logarithmic scales and are computed using these brackets as class intervals, for example:

Reported value (ppm)	Limits	
1.0	.83	1.2
1.5	1.2	1.8
2.0	1.8	2.6
3.0	2.6	3.8
5.0	3.8	5.6
7.0	5.6	8.3
10.0	8.3	12.0

On the histograms the analytical values are shown as powers of 10, for example:

7.0E-01 means 7.0×10^{-1} or 0.7

7.0E 00 means 7.0×10^{0} or 7.0

7.0E 01 means 7.0×10^{1} or 70.0

7.0E 02 means 7.0×10^{2} or 700.0

7.0E 03 means 7.0×10^{3} or 7,000.0

The histograms are constructed of X's, each of which represents 1 percent of the total number of samples (144 in most cases, 75 or 69 in the others).

The geometric mean is the antilogarithm of the arithmetic mean of the logs of the analyses and is an estimate of "central tendency," or of a characteristic value, for a frequency distribution that is approximately symmetrical on a log scale, and is therefore useful for characterizing many geochemical distributions. The geometric mean is not an estimate of geochemical abundance. The geometric deviation is the antilogarithm of the standard deviation of the logs of the analyses. See Miesch (1967 and 1963, p. 20-23) for further discussion and explanation of geometric deviation. The validity of these statistics as estimates of geochemical distribution in the

area depends on how representative the samples are. The statistics may change when more samples are collected.

The histograms and the statistics given below them are derived only from data values within the ranges of analytical determination ("analytical values"). The histograms are, therefore, incomplete, and the statistics are biased if data values qualified with N, L, G, T, or H codes are present. Statistical estimates that are unbiased in this regard are given in Table 3.

Explanation of Table 3

In the computations performed to produce the statistical summaries in Table 3 all elements are ignored where one or more of the unqualified data values is qualified with the G (greater than) code. Data values qualified with B or H are not used in the computations. Where none of the data values for an element are qualified the mean and deviation should be the same as those given in Table 2. Where data are qualified with the codes N, L, or T, the estimates of geometric mean and deviation are based on a method by A. J. Cohen for treating censored distributions. The application of this method to geochemical problems is described in USGS Professional Paper 574-B. The estimates are unbiased in a strict sense only where the data are derived from a lognormal parent population, but experiments have shown that large departures from this requirement may not greatly invalidate the results. Acceptance and use of the estimates, however, is the responsibility of the individual.

REFERENCES

Miesch, A. T., 1963, Distribution of elements in Colorado Plateau uranium deposits---a preliminary report: U.S. Geol. Survey Bull. 1147-E, p. E1-E57.

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Reiser, H. N., and Tailleur, I. L., 1969, Preliminary geologic map of Mt. Michelson Quadrangle, Alaska: U.S. Geol. Survey open-file report, 1:250,000 map.

Sable, E. G., 1965, Geology of the Romanzof Mountains, Brooks Range, northeastern Alaska: U.S. Geol. Survey open-file report, 218 p.

Map No

Table 1

SADLEROCHIT-JAGO STR SEDS

Analyses of 144 samples

Map No	SAMPLE	FE PCT.	MG PCT.	CA PCT.	TI PCT.	MN PPM.	AG PPM.	AS PPM.	AU PPM.	B PPM.	BA PPM.
1	69ADT33	3.0000	2.0000	10.0000	0.0700	150.0000	0.0 L	0.0 L	0.0400L	30.0000	300.0000
2	69ADT32	5.0000	0.7000	1.5000	0.7000	150.0000	0.0 N	10.0000	0.0200L	100.0000	700.0000
3	69ADT45	3.0000	0.5000	0.5000	0.3000	150.0000	0.0 N	0.0 L	0.0200L	100.0000	300.0000
4	69ADT50	5.0000	1.0000	5.0000	0.5000	100.0000	0.0 N	0.0 L	0.0 B	70.0000	300.0000
5	69ADT49	5.0000	1.0000	0.7000	0.5000	100.0000	0.0 N	0.0 L	0.1000L	100.0000	500.0000
6	69ADT107	5.0000	0.5000	0.7000	0.5000	100.0000	0.0 N	10.0000	0.0200L	100.0000	1000.0000
7	69ADT68	5.0000	0.7000	0.5000	0.5000	200.0000	0.0 N	10.0000	0.1000L	50.0000	700.0000
8	69ADT67	2.0000	1.5000	10.0000	0.1500	150.0000	0.0 N	10.0000	0.0400L	30.0000	150.0000
9	69ADT135	3.0000	1.0000	5.0000	0.5000	300.0000	0.0 N	10.0000	0.0200L	100.0000	700.0000
10	69ADT139	3.0000	2.0000	20.0000	0.3000	150.0000	0.0 N	10.0000	0.0200L	150.0000	1000.0000
11	69ADT87	3.0000	1.0000	5.0000	0.3000	500.0000	0.0 N	10.0000	0.0200L	70.0000	500.0000
12	69ARR79 gr	1.5000	0.7000	1.5000	0.2000	150.0000	0.0 N	10.0000	0.0200L	50.0000	150.0000
13	69ARR152 gr	3.0000	1.0000	1.5000	0.5000	300.0000	0.0 N	15.0000	0.0200L	70.0000	300.0000
14	69ARR78	7.0000	1.5000	7.0000	0.5000	200.0000	0.0 N	15.0000	0.0200L	70.0000	1000.0000
15	69ABE26	3.0000	5.0000	7.0000	0.3000	150.0000	0.0 L	20.0000	0.0200L	70.0000	500.0000
16	69ABE25	5.0000	3.0000	7.0000	0.5000	200.0000	0.0 N	20.0000	0.0200L	50.0000	700.0000
17	69ARR153 gr	3.0000	0.7000	0.7000	0.5000	300.0000	0.0 N	10.0000	0.0200L	100.0000	300.0000
18	69ARR162 gr	5.0000	0.7000	0.2000	0.7000	300.0000	0.0 N	10.0000	0.0200L	150.0000	700.0000
19	69ADU32	5.0000	1.0000	0.1000	0.5000	700.0000	0.0 N	10.0000L	0.0200L	70.0000	700.0000
20	69ADT11	7.0000	1.5000	15.0000	0.7000	1000.0000	0.0 N	10.0000	0.0200L	70.0000	700.0000
21	69ABE5	5.0000	0.7000	0.0700	0.5000	1000.0000	0.0 N	20.0000	0.0200L	70.0000	700.0000
22	69ABE73	2.0000	1.0000	3.0000	0.2000	70.0000	0.0 N	10.0000	0.0200L	30.0000	150.0000
23	69ABE74	3.0000	1.0000	3.0000	0.3000	200.0000	0.0 N	10.0000	0.0200L	50.0000	300.0000
24	69ABE79	1.5000	1.0000	7.0000	0.1000	100.0000	0.0 N	10.0000L	0.0200L	50.0000	100.0000
25	69ARR143 gr	3.0000	1.0000	1.5000	0.5000	300.0000	0.0 N	10.0000	0.0200L	50.0000	300.0000
26	69ASA9S gr	0.5000	0.1000	0.7000	0.1500	300.0000	0.0 N	10.0000	0.0200L	20.0000	100.0000
27	69ASA8S gr	1.5000	1.5000	20.0000	0.1500	1000.0000	0.0 L	10.0000	0.0200L	70.0000	0.0 L
28	69ASA10S gr	1.0000	0.5000	0.7000	0.1500	300.0000	0.0 N	10.0000	0.0200L	70.0000	100.0000
29	69ASA11S gr	2.0000	1.5000	20.0000	0.1500	300.0000	0.0 N	10.0000	0.0200L	20.0000	100.0000
30	69ARR154	5.0000	0.7000	0.3000	0.7000	300.0000	0.0 N	15.0000	0.0200L	100.0000	700.0000
31	69ARR155 gr	2.0000	1.5000	15.0000	0.3000	200.0000	0.0 N	15.0000	0.0200L	100.0000	200.0000
32	69ARR163 gr	3.0000	1.0000	0.7000	0.5000	150.0000	0.0 N	10.0000	0.0200L	150.0000	1000.0000
33	69ARR164 gr	5.0000	1.0000	0.7000	0.7000	300.0000	0.0 L	10.0000	0.0200L	100.0000	1000.0000
34	69ARR165 gr	5.0000	1.0000	2.0000	0.7000	300.0000	0.0 N	40.0000	0.0200L	70.0000	700.0000
35	69ARR166 gr	3.0000	3.0000	3.0000	0.3000	500.0000	0.0 N	50.0000	0.0200L	70.0000	300.0000
36	69ARR156 gr	1.5000	0.3000	0.7000	0.2000	1000.0000	0.0 N	10.0000	0.0200L	150.0000	150.0000
37	69ARR157 gr	3.0000	0.7000	0.5000	0.3000	1500.0000	0.0 L	10.0000	0.0200L	70.0000	200.0000
38	69ASA10T gr	5.0000	0.7000	0.0 L	0.5000	70.0000	0.0 L	40.0000	0.0200L	70.0000	150.0000
39	69ASA14S gr	1.5000	1.0000	7.0000	0.2000	300.0000	0.0 N	20.0000	0.0200L	30.0000	100.0000
40	69ASA13S gr	1.5000	3.0000	5.0000	0.3000	500.0000	0.0 N	20.0000	0.0200L	20.0000	100.0000
41	58ASA10S gr	3.0000	2.0000	2.0000	0.3000	700.0000	0.0 N	20.0000	0.0200L	70.0000	1000.0000
42	69ADT140	5.0000	1.0000	0.1500	0.7000	1000.0000	0.0 N	40.0000	0.0200L	50.0000	500.0000
43	69ADT141	3.0000	0.7000	0.0500	0.5000	700.0000	0.0 N	10.0000	0.0200L	70.0000	500.0000
44	69ARR202	3.0000	0.7000	0.1500	0.5000	1000.0000	0.0 N	20.0000	0.0200L	70.0000	700.0000
45	69ADT17	3.0000	0.7000	0.0 L	0.7000	300.0000	0.0 N	10.0000	0.0200L	30.0000	500.0000
46	69ARR3	5.0000	1.0000	0.0700	0.7000	500.0000	0.0 N	10.0000	0.0200L	50.0000	700.0000
47	69ADT116	5.0000	0.7000	0.1500	0.5000	500.0000	0.0 N	0.0 N	0.0200L	50.0000	700.0000
48	69ARR6	5.0000	0.7000	0.0700	0.7000	300.0000	0.0 N	10.0000	0.0200L	50.0000	700.0000
49	69ADT117	5.0000	1.0000	0.2000	0.7000	500.0000	0.0 N	10.0000	0.0200L	70.0000	700.0000
50	69ADT118	5.0000	1.0000	0.0700	0.7000	300.0000	0.0 N	10.0000	0.0200L	70.0000	700.0000

SADLEROCHIT-JAGO STR SEDS

Map No	SAMPLE	BE PPM.	BI PPM.	CO PPM.	CR PPM.	CU PPM.	LA PPM.	MO PPM.	NB PPM.	NI PPM.	PB PPM.
1	69ADT33	0.0 L	0.0 N	0.0 N	70.0000	0.0 L	0.0 N	0.0 N	0.0 L	30.0000	20.0000
2	69ADT32	1.0000	0.0 N	7.0000	150.0000	30.0000	0.0 L	0.0 L	10.0000	70.0000	15.0000
3	69ADT45	1.0000	0.0 N	7.0000	150.0000	20.0000	0.0 L	0.0 L	0.0 L	70.0000	0.0 L
4	69ADT50	0.0 L	0.0 N	7.0000	150.0000	10.0000	20.0000	0.0 L	0.0 L	70.0000	15.0000
5	69ADT49	0.0 L	0.0 N	10.0000	150.0000	30.0000	20.0000	0.0 L	10.0000	100.0000	30.0000
6	69ADT107	1.5000	0.0 N	15.0000	150.0000	70.0000	20.0000	0.0 L	10.0000	50.0000	20.0000
7	69ADT68	1.0000	0.0 N	20.0000	150.0000	20.0000	0.0 L	0.0 L	10.0000	70.0000	0.0 L
8	69ADT67	0.0 N	0.0 N	0.0 N	70.0000	0.0 L	0.0 N	0.0 N	0.0 L	30.0000	10.0000
9	69ADT135	2.0000	0.0 N	30.0000	100.0000	20.0000	20.0000	0.0 L	15.0000	100.0000	30.0000
10	69ADT139	1.5000	0.0 N	15.0000	150.0000	30.0000	20.0000	0.0 L	10.0000	70.0000	20.0000
11	69ADT87	1.0000	0.0 N	10.0000	150.0000	70.0000	20.0000	0.0 L	10.0000	50.0000	30.0000
12	69ARR79 gr	1.5000	0.0 N	0.0 L	15.0000	0.0 L	30.0000	0.0 N	0.0 L	15.0000	30.0000
13	69ARR152 gr	2.0000	0.0 N	20.0000	70.0000	30.0000	20.0000	0.0 N	15.0000	50.0000	15.0000
14	69ARR78	1.0000	0.0 N	20.0000	150.0000	20.0000	0.0 L	0.0 L	0.0 L	100.0000	20.0000
15	69ABE26	1.5000	0.0 N	7.0000	150.0000	10.0000	0.0 L	0.0 N	0.0 L	50.0000	30.0000
16	69ABE25	1.0000	0.0 N	10.0000	150.0000	15.0000	30.0000	0.0 L	10.0000	100.0000	30.0000
17	69ARR153 gr	5.0000	0.0 N	10.0000	30.0000	15.0000	70.0000	0.0 N	20.0000	30.0000	15.0000
18	69ARR162 gr	3.0000	0.0 N	20.0000	150.0000	30.0000	50.0000	0.0 L	15.0000	100.0000	30.0000
19	69ADU32	2.0000	0.0 N	15.0000	70.0000	30.0000	50.0000	0.0 N	10.0000	30.0000	30.0000
20	69ADT11	1.5000	0.0 N	15.0000	150.0000	50.0000	30.0000	0.0 L	10.0000	70.0000	30.0000
21	69ABE5	1.0000	0.0 N	20.0000	150.0000	70.0000	30.0000	0.0 L	10.0000	70.0000	15.0000
22	69ABE73	1.0000	0.0 N	5.0000	70.0000	15.0000	0.0 L	0.0 N	0.0 L	30.0000	10.0000
23	69ABE74	0.0 L	0.0 N	10.0000	70.0000	15.0000	20.0000	0.0 L	10.0000	30.0000	10.0000
24	69ABE79	1.0000	0.0 N	0.0 N	30.0000	0.0 L	0.0 L	0.0 L	20.0000	20.0000	10.0000
25	69ARR143 gr	1.0000	0.0 N	10.0000	30.0000	30.0000	30.0000	0.0 L	0.0 L	30.0000	15.0000
26	69ASA9S gr	2.0000	0.0 N	0.0 N	10.0000	5.0000	0.0 L	0.0 N	10.0000	5.0000	50.0000
27	69ASA8S gr	3.0000	0.0 L	0.0 L	20.0000	7.0000	0.0 L	0.0 N	0.0 L	20.0000	500.0000
28	69ASA10S gr	7.0000	0.0 N	0.0 N	10.0000	0.0 L	0.0 L	0.0 N	15.0000	15.0000	70.0000
29	69ASA11S gr	1.5000	0.0 N	7.0000	70.0000	0.0 L	0.0 L	0.0 N	0.0 L	30.0000	100.0000
30	69ARR154	2.0000	0.0 N	20.0000	150.0000	15.0000	20.0000	0.0 L	20.0000	100.0000	15.0000
31	69ARR155 gr	3.0000	0.0 N	5.0000	70.0000	7.0000	20.0000	0.0 N	15.0000	30.0000	70.0000
32	69ARR163 gr	2.0000	0.0 N	20.0000	100.0000	20.0000	30.0000	0.0 N	10.0000	50.0000	20.0000
33	69ARR164 gr	3.0000	0.0 N	20.0000	150.0000	30.0000	30.0000	0.0 L	15.0000	70.0000	50.0000
34	69ARR165 gr	3.0000	0.0 N	15.0000	150.0000	20.0000	70.0000	0.0 L	15.0000	150.0000	30.0000
35	69ARR166 gr	3.0000	0.0 N	10.0000	70.0000	7.0000	150.0000	0.0 L	15.0000	30.0000	70.0000
36	69ARR156 gr	15.0000	0.0 N	0.0 L	0.0 L	5.0000	70.0000	0.0 L	150.0000	5.0000	70.0000
37	69ARR157 gr	10.0000	0.0 L	10.0000	10.0000	7.0000	50.0000	0.0 L	30.0000	15.0000	500.0000
38	69ASA107 gr	5.0000	0.0 N	0.0 N	10.0000	0.0 L	100.0000	0.0 L	30.0000	0.0 N	300.0000
39	69ASA14S gr	1.5000	0.0 N	0.0 N	15.0000	0.0 L	50.0000	0.0 L	10.0000	5.0000	100.0000
40	69ASA13S gr	1.5000	0.0 N	0.0 N	30.0000	0.0 L	0.0 L	0.0 L	15.0000	10.0000	150.0000
41	56ASA105 gr	2.0000	0.0 N	10.0000	50.0000	150.0000	70.0000	0.0 N	20.0000	15.0000	70.0000
42	69ADT140	1.5000	0.0 N	20.0000	70.0000	70.0000	50.0000	0.0 L	10.0000	50.0000	15.0000
43	69ADT141	2.0000	0.0 N	15.0000	70.0000	20.0000	70.0000	0.0 L	10.0000	30.0000	10.0000
44	69ARR202	3.0000	0.0 N	15.0000	50.0000	50.0000	50.0000	0.0 L	10.0000	30.0000	70.0000
45	69ADT17	0.0 N	0.0 N	10.0000	100.0000	30.0000	20.0000	0.0 N	0.0 L	30.0000	20.0000
46	69ARR3	1.0000	0.0 N	10.0000	150.0000	20.0000	50.0000	0.0 N	10.0000	50.0000	30.0000
47	69ADT116	1.5000	0.0 N	15.0000	70.0000	15.0000	20.0000	0.0 N	10.0000	30.0000	30.0000
48	69ARR6	1.0000	0.0 N	10.0000	70.0000	15.0000	20.0000	0.0 N	10.0000	30.0000	30.0000
49	69ADT117	1.5000	0.0 N	10.0000	70.0000	15.0000	30.0000	0.0 L	10.0000	30.0000	15.0000
50	69ADT118	1.5000	0.0 N	15.0000	70.0000	15.0000	30.0000	0.0 N	10.0000	30.0000	20.0000

SADLEROCHIT-JAGO STR SEDS

Map No	SAMPLE	SB PPM.	SC PPM.	SN PPM.	SR PPM.	V PPM.	W PPM.	Y PPM.	ZN PPM.	ZR PPM.	HG PPM.
1	69ADT33	1.0000	0.0 L	0.0 N	100.0000	70.0000	0.0 N	10.0000	25.0000L	70.0000	0.0100
2	69ADT32	1.0000	15.0000	0.0 N	0.0 L	150.0000	0.0 N	20.0000	60.0000	200.0000	0.0400
3	69ADT45	2.0000	15.0000	0.0 N	100.0000	150.0000	0.0 N	20.0000	70.0000	200.0000	0.0900
4	69ADT50	1.0000	15.0000	0.0 N	100.0000	150.0000	0.0 N	20.0000	50.0000	100.0000	0.1500
5	69ADT49	1.0000	15.0000	0.0 N	0.0 L	150.0000	0.0 N	20.0000	70.0000	100.0000	0.0900
6	69ADT107	3.0000	10.0000	0.0 N	150.0000	200.0000	0.0 N	15.0000	90.0000	100.0000	0.2000
7	69ADT68	2.0000	15.0000	0.0 N	0.0 L	200.0000	0.0 N	15.0000	100.0000	300.0000	0.0300
8	69ADT67	2.0000	5.0000	0.0 N	200.0000	50.0000	0.0 N	15.0000	34.0000	70.0000	0.0300
9	69ADT135	0.0 B	15.0000	0.0 N	150.0000	150.0000	0.0 N	30.0000	25.0000L	200.0000	0.0600
10	69ADT139	0.0 B	10.0000	0.0 N	500.0000	150.0000	0.0 N	50.0000	25.0000L	70.0000	0.1300
11	69ADT87	0.0 B	10.0000	0.0 N	150.0000	150.0000	0.0 N	20.0000	0.0 B	100.0000	0.0600
12	69ARR79 gr	1.0000	5.0000	0.0 N	0.0 L	30.0000	0.0 N	30.0000	25.0000L	70.0000	0.0100L
13	69ARR152 gr	1.0000L	10.0000	0.0 L	100.0000	100.0000	0.0 N	15.0000	85.0000	500.0000	0.0600
14	69ARR78	4.0000	15.0000	0.0 N	150.0000	200.0000	0.0 N	20.0000	27.0000	150.0000	0.0500
15	69ABE26	6.0000	10.0000	0.0 N	150.0000	150.0000	0.0 N	20.0000	50.0000	100.0000	0.0600
16	69ABE25	3.0000	15.0000	0.0 N	300.0000	200.0000	0.0 N	20.0000	50.0000	150.0000	0.0900
17	69ARR153 gr	2.0000	5.0000	0.0 N	100.0000	50.0000	0.0 N	50.0000	60.0000	500.0000	0.0200
18	69ARR162 gr	0.0 B	15.0000	70.0000	150.0000	200.0000	0.0 N	30.0000	60.0000	500.0000	0.2200
19	69ADU32	1.0000	15.0000	0.0 N	100.0000	150.0000	0.0 N	15.0000	40.0000	500.0000	0.0300
20	69ADT11	2.0000	15.0000	0.0 N	0.0 L	200.0000	0.0 N	15.0000	50.0000	300.0000	0.0400
21	69ABE5	2.0000	15.0000	0.0 N	0.0 L	150.0000	0.0 N	15.0000	60.0000	150.0000	0.0800
22	69ABE73	1.0000L	5.0000	0.0 N	150.0000	50.0000	0.0 N	10.0000	70.0000	70.0000	0.1200
23	69ABE74	1.0000	5.0000	0.0 N	150.0000	50.0000	0.0 N	15.0000	50.0000	100.0000	0.0700
24	69ABE79	1.0000	0.0 L	0.0 N	150.0000	20.0000	0.0 N	15.0000	25.0000L	50.0000	0.0300
25	69ARR143 gr	1.0000L	7.0000	0.0 N	100.0000	70.0000	0.0 N	15.0000	65.0000	100.0000	0.0800
26	69ASA9S gr	1.0000L	0.0 N	10.0000	0.0 L	20.0000	0.0 N	20.0000	25.0000L	100.0000	0.2000L
27	69ASA8S gr	2.0000	0.0 L	0.0 L	200.0000	30.0000	0.0 N	50.0000	44.0000	100.0000	0.0100L
28	69ASA10S gr	1.0000	0.0 N	15.0000	0.0 L	20.0000	0.0 N	30.0000	25.0000L	300.0000	0.0100L
29	69ASA11S gr	2.0000	10.0000	0.0 L	200.0000	30.0000	0.0 N	20.0000	40.0000L	70.0000	0.0100L
30	69ARR154	1.0000	15.0000	0.0 N	100.0000	200.0000	0.0 N	30.0000	160.0000	1000.0000	0.0500
31	69ARR155 gr	1.0000	5.0000	0.0 L	150.0000	70.0000	0.0 N	30.0000	40.0000	300.0000	0.0100L
32	69ARR163 gr	0.0 B	15.0000	0.0 N	150.0000	200.0000	0.0 N	20.0000	50.0000	300.0000	0.2600
33	69ARR164 gr	0.0 B	15.0000	0.0 N	150.0000	200.0000	0.0 N	30.0000	30.0000	300.0000	0.0200
34	69ARR165 gr	2.0000	10.0000	0.0 N	100.0000	150.0000	0.0 N	30.0000	150.0000	1000.0000	0.0500
35	69ARR166 gr	3.0000	7.0000	0.0 L	100.0000	70.0000	0.0 N	30.0000	100.0000	150.0000	0.0100L
36	69ARR156 gr	1.0000L	5.0000	10.0000	0.0 L	15.0000	0.0 L	150.0000	30.0000	1000.0000	0.0200
37	69ARR157 gr	0.0 B	10.0000	30.0000	0.0 L	30.0000	0.0 L	70.0000	40.0000	70.0000	0.0200
38	69ASA107 gr	3.0000	15.0000	30.0000	0.0 L	70.0000	50.0000	70.0000	25.0000L	300.0000	0.0100
39	69ASA14S gr	1.0000	0.0 L	10.0000	150.0000	20.0000	0.0 N	70.0000	25.0000L	300.0000	0.0100L
40	69ASA13S gr	1.0000	0.0 L	0.0 L	0.0 L	30.0000	0.0 N	30.0000	80.0000	300.0000	0.0100L
41	58ASA105 gr	0.0 N	15.0000	0.0 L	300.0000	70.0000	0.0 N	30.0000	0.0 N	200.0000	0.0 B
42	69ADT140	4.0000	15.0000	0.0 N	100.0000	150.0000	0.0 N	20.0000	76.0000	150.0000	0.0800
43	69ADT141	2.0000	15.0000	0.0 N	0.0 L	150.0000	0.0 N	15.0000	54.0000	150.0000	0.0300
44	69ARR202	2.0000	15.0000	0.0 N	100.0000	150.0000	0.0 N	30.0000	70.0000	500.0000	0.1000
45	69ADT17	1.0000	15.0000	0.0 N	0.0 N	100.0000	0.0 N	15.0000	36.0000	300.0000	0.0100
46	69ARR3	1.0000	15.0000	0.0 N	0.0 L	150.0000	0.0 N	20.0000	25.0000	300.0000	0.0200
47	69ADT116	2.0000	10.0000	0.0 N	0.0 L	100.0000	0.0 N	10.0000	40.0000	100.0000	0.0300
48	69ARR6	1.0000	15.0000	0.0 N	0.0 L	70.0000	0.0 N	10.0000	25.0000	300.0000	0.0200
49	69ADT117	1.0000	10.0000	0.0 N	100.0000	100.0000	0.0 N	15.0000	40.0000	300.0000	0.0300
50	69ADT118	3.0000	10.0000	0.0 N	100.0000	100.0000	0.0 N	15.0000	40.0000	100.0000	0.0200

SADLEROCHIT-JAGO STR SEDS

Map No	SAMPLE	FE PCT.	MG PCT.	CA PCT.	TI PCT.	MN PPM.	AG PPM.	AS PPM.	AU PPM.	B PPM.	BA PPM.
51	69ABE75	3.0000	0.7000	0.0700	0.3000	150.0000	0.0 N	10.0000	0.0200L	30.0000	300.0000
52	69ABE78	3.0000	0.7000	0.0 L	0.3000	300.0000	0.0 N	10.0000	0.0200L	50.0000	300.0000
53	69ABE76	3.0000	0.7000	0.5000	0.3000	200.0000	0.0 N	15.0000	0.0200L	70.0000	300.0000
54	69ARR120 gr	5.0000	1.0000	1.5000	0.7000	700.0000	0.0 N	20.0000	0.0200L	20.0000	300.0000
55	68ARR45 gr	5.0000	2.0000	20.0000	0.1000	1000.0000	0.0 N	40.0000	0.0400	50.0000	150.0000
56	69ABE104 gr	3.0000	0.7000	1.5000	0.5000	300.0000	0.0 N	20.0000	0.0200L	70.0000	300.0000
57	69ABE80 gr	2.0000	0.7000	1.0000	0.1500	500.0000	0.0 N	40.0000	0.0200L	70.0000	100.0000
58	69ASA2S gr	7.0000	1.0000	10.0000	0.5000	1000.0000	0.0 L	40.0000	0.0200L	50.0000	150.0000
59	69ASA3S gr	2.0000	0.5000	0.1500	0.2000	1000.0000	0.0 N	40.0000	0.0200L	50.0000	100.0000
60	69ASA12S gr	5.0000	1.5000	1.5000	0.5000	300.0000	0.0 L	60.0000	0.0200L	50.0000	150.0000
61	69ASA1S gr	3.0000	1.0000	7.0000	0.1500	1000.0000	0.0 L	60.0000	0.0200L	30.0000	150.0000
62	68ARR42 gr	5.0000	2.0000	7.0000	1.0000	700.0000	0.0 N	100.0000	0.0200	30.0000	500.0000
63	69ABE82 gr	2.0000	0.7000	5.0000	0.1500	700.0000	0.0 N	40.0000	0.0200L	70.0000	150.0000
64	69ASA4S gr	2.0000	1.0000	5.0000	0.2000	700.0000	0.0 L	40.0000	0.0200L	30.0000	100.0000
65	69ASA6S gr	3.0000	0.7000	0.1500	0.5000	500.0000	0.0 L	40.0000	0.0200L	70.0000	300.0000
66	69ABE81 gr	1.0000	0.3000	0.1500	0.1000	150.0000	0.0 N	40.0000	0.0200L	70.0000	150.0000
67	69ASA5S gr	2.0000	0.2000	0.1000	0.3000	300.0000	0.0 L	60.0000	0.0200L	30.0000	100.0000
68	69ASA7S gr	3.0000	0.7000	0.0700	0.3000	500.0000	0.0 N	20.0000	0.0200L	50.0000	300.0000
69	69ABE83 gr	2.0000	0.5000	0.1000	0.5000	150.0000	0.0 N	40.0000	0.0200L	50.0000	300.0000
70	69ABE108 gr	3.0000	0.7000	0.0700	0.7000	300.0000	0.0 N	20.0000	0.0200L	50.0000	300.0000
71	69ARR158 gr	1.5000	0.1000	0.1500	0.2000	700.0000	0.0 N	10.0000L	0.0200L	150.0000	100.0000
72	69ARR159 gr	2.0000	0.2000	0.1500	0.1500	500.0000	0.0 N	20.0000	0.0200L	70.0000	150.0000
73	69ARR182 gr	3.0000	0.7000	0.7000	0.7000	500.0000	0.0 N	10.0000L	0.0200L	70.0000	300.0000
74	69ARR171 gr	3.0000	1.0000	0.1500	0.5000	500.0000	0.0 N	10.0000L	0.0200L	70.0000	500.0000
75	69ARR170 gr	3.0000	0.5000	0.1500	0.2000	700.0000	0.0 N	10.0000L	0.0200L	30.0000	200.0000
76	69ARR168 gr	2.0000	0.3000	0.1500	0.2000	700.0000	0.0 N	10.0000L	0.0200L	150.0000	150.0000
77	69ARR169 gr	2.0000	0.2000	0.1500	0.2000	1000.0000	0.0 N	10.0000L	0.0200L	100.0000	150.0000
78	69ARR167 gr	3.0000	1.0000	1.0000	0.3000	300.0000	1.5000	10.0000	0.0200L	150.0000	500.0000
79	69ARR172 gr	3.0000	0.3000	0.1500	0.3000	700.0000	0.0 L	10.0000	0.0200L	50.0000	150.0000
80	69ARR173 gr	5.0000	1.0000	0.1500	0.3000	1500.0000	0.0 L	100.0000	0.0200L	70.0000	150.0000
81	69ARR174 gr	2.0000	2.0000	5.0000	0.2000	700.0000	0.0 N	40.0000	0.0200L	100.0000	150.0000
82	68ARR11A gr	7.0000	3.0000	1.5000	0.7000	1500.0000	0.0 N	20.0000	0.0200	50.0000	700.0000
83	68ARR11B gr	5.0000	2.0000	1.5000	0.7000	500.0000	0.0 N	40.0000	0.0200L	50.0000	700.0000
84	69ARR135 gr	5.0000	1.5000	1.0000	0.7000	1000.0000	0.0 N	10.0000	0.0200L	100.0000	700.0000
85	69ADT130	1.5000	0.3000	0.0700	0.3000	150.0000	0.0 N	10.0000	0.0200L	70.0000	300.0000
86	69ADT132	3.0000	0.7000	0.7000	0.3000	200.0000	0.0 N	10.0000L	0.0200L	100.0000	300.0000
87	69ADT131	5.0000	1.0000	0.5000	0.5000	300.0000	0.0 N	10.0000	0.0200L	30.0000	300.0000
88	69ADT120	5.0000	1.0000	0.1000	0.5000	500.0000	0.0 N	10.0000	0.0200L	150.0000	700.0000
89	69ADT119	5.0000	1.0000	0.1500	1.0000	300.0000	0.0 N	10.0000	0.0200L	100.0000	700.0000
90	69ADT125	5.0000	0.7000	0.0700	0.5000	500.0000	0.0 N	10.0000L	0.0200L	150.0000	700.0000
91	69ADT124	5.0000	0.7000	0.0700	0.7000	500.0000	0.0 N	10.0000	0.0200L	70.0000	700.0000
92	69ADT121	3.0000	0.7000	0.1500	0.5000	150.0000	0.0 N	10.0000	0.0200L	70.0000	300.0000
93	69ADT127	5.0000	1.0000	0.1500	0.5000	300.0000	0.0 N	10.0000	0.0200L	150.0000	700.0000
94	69ADT126	5.0000	1.0000	2.0000	0.7000	500.0000	0.0 N	10.0000L	0.0200L	150.0000	700.0000
95	68ARR47A	5.0000	2.0000	10.0000	0.3000	1000.0000	0.0 N	0.0 L	0.0400	50.0000	300.0000
96	9ABE107A gr	5.0000	1.0000	0.7000	0.7000	1000.0000	0.0 N	10.0000	0.0200L	100.0000	500.0000
97	69ABE107 gr	3.0000	0.7000	0.1500	0.7000	500.0000	0.0 N	20.0000	0.0200L	70.0000	300.0000
98	69ABE106 gr	7.0000	1.0000	1.5000	0.7000	1000.0000	0.0 N	20.0000	0.0200L	100.0000	700.0000
99	69ABE105 gr	3.0000	0.7000	0.0700	0.7000	300.0000	0.0 N	20.0000	0.0200L	50.0000	300.0000
100	69ABE115 gr	3.0000	0.7000	0.2000	0.5000	200.0000	0.0 N	40.0000	0.0200L	50.0000	300.0000

SADLEROCHIT-JAGO STR SEDS

Map No	SAMPLE	BE PPM.	BI PPM.	CO PPM.	CR PPM.	CU PPM.	LA PPM.	MO PPM.	NB PPM.	NI PPM.	PB PPM.
51	69ABE75	1.0000	0.0 N	7.0000	30.0000	20.0000	30.0000	0.0 N	10.0000	30.0000	10.0000
52	69ABE78	1.0000	0.0 N	10.0000	50.0000	20.0000	20.0000	0.0 L	0.0 L	30.0000	10.0000
53	69ABE76	1.5000	0.0 N	7.0000	50.0000	15.0000	30.0000	0.0 L	10.0000	30.0000	15.0000
54	69ARR120 gr	0.0 N	0.0 N	15.0000	100.0000	30.0000	0.0 L	0.0 L	10.0000	30.0000	15.0000
55	68ARR45 gr	5.0000	20.0000	20.0000	70.0000	20.0000	50.0000	10.0000	10.0000	50.0000	150.0000
56	69ABE104 gr	3.0000	0.0 N	10.0000	50.0000	10.0000	30.0000	0.0 N	10.0000	30.0000	20.0000
57	69ABE80 gr	7.0000	0.0 N	5.0000	30.0000	15.0000	30.0000	0.0 L	10.0000	20.0000	100.0000
58	69ASA2S gr	5.0000	0.0 N	20.0000	150.0000	50.0000	70.0000	0.0 L	10.0000	50.0000	150.0000
59	69ASA3S gr	5.0000	0.0 N	0.0 L	10.0000	30.0000	50.0000	0.0 N	30.0000	15.0000	150.0000
60	69ASA12S gr	3.0000	0.0 N	15.0000	300.0000	70.0000	20.0000	0.0 L	15.0000	70.0000	150.0000
61	69ASA1S gr	1.5000	0.0 L	10.0000	50.0000	30.0000	0.0 L	0.0 L	10.0000	20.0000	300.0000
62	68ARR42 gr	0.0 L	0.0 N	20.0000	150.0000	10.0000	70.0000	0.0 L	10.0000	50.0000	20.0000
63	69ABE82 gr	3.0000	0.0 N	0.0 L	30.0000	7.0000	0.0 L	0.0 L	10.0000	20.0000	30.0000
64	69ASA4S gr	1.5000	0.0 N	0.0 L	50.0000	15.0000	0.0 N	0.0 L	0.0 L	15.0000	70.0000
65	69ASA6S gr	3.0000	0.0 N	10.0000	70.0000	15.0000	20.0000	0.0 L	15.0000	30.0000	30.0000
66	69ABE81 gr	5.0000	0.0 N	0.0 L	15.0000	5.0000	50.0000	0.0 L	0.0 L	15.0000	50.0000
67	69ASA5S gr	7.0000	0.0 L	0.0 N	10.0000	7.0000	20.0000	0.0 L	20.0000	15.0000	70.0000
68	69ASA7S gr	2.0000	0.0 N	10.0000	50.0000	30.0000	30.0000	0.0 N	15.0000	30.0000	30.0000
69	69ABE83 gr	5.0000	0.0 N	0.0 L	30.0000	7.0000	20.0000	0.0 N	0.0 L	20.0000	70.0000
70	69ABE108 gr	3.0000	0.0 N	15.0000	50.0000	15.0000	30.0000	0.0 N	10.0000	30.0000	15.0000
71	69ARR158 gr	7.0000	0.0 N	0.0 N	0.0 L	0.0 L	150.0000	0.0 N	30.0000	5.0000	70.0000
72	69ARR159 gr	70.0000	0.0 N	0.0 L	10.0000	5.0000	100.0000	0.0 L	20.0000	5.0000	70.0000
73	69ARR182 gr	1.0000	0.0 N	15.0000	30.0000	50.0000	50.0000	0.0 N	10.0000	30.0000	15.0000
74	69ARR171 gr	5.0000	0.0 N	0.0 L	30.0000	30.0000	70.0000	0.0 N	15.0000	20.0000	30.0000
75	69ARR170 gr	3.0000	0.0 L	0.0 L	15.0000	10.0000	100.0000	0.0 L	15.0000	10.0000	200.0000
76	69ARR168 gr	10.0000	0.0 N	0.0 L	10.0000	5.0000	30.0000	0.0 L	30.0000	5.0000	70.0000
77	69ARR169 gr	10.0000	0.0 N	0.0 L	15.0000	5.0000	0.0 L	0.0 L	20.0000	10.0000	70.0000
78	69ARR167 gr	3.0000	0.0 N	20.0000	50.0000	50.0000	50.0000	0.0 L	15.0000	30.0000	150.0000
79	69ARR172 gr	7.0000	0.0 N	5.0000	10.0000	10.0000	100.0000	7.0000	15.0000	10.0000	150.0000
80	69ARR173 gr	15.0000	0.0 L	10.0000	10.0000	30.0000	100.0000	7.0000	20.0000	10.0000	300.0000
81	69ARR174 gr	15.0000	0.0 N	5.0000	10.0000	7.0000	50.0000	0.0 N	15.0000	15.0000	100.0000
82	68ARR11A gr	0.0 L	0.0 N	20.0000	150.0000	30.0000	100.0000	5.0000	10.0000	70.0000	50.0000
83	68ARR11B gr	0.0 L	0.0 N	20.0000	70.0000	10.0000	100.0000	0.0 L	10.0000	30.0000	100.0000
84	69ARR135 gr	2.0000	0.0 N	15.0000	70.0000	30.0000	50.0000	0.0 L	15.0000	50.0000	30.0000
85	69ADT130	1.0000	0.0 N	0.0 L	30.0000	10.0000	0.0 L	0.0 N	10.0000	15.0000	10.0000
86	69ADT132	7.0000	0.0 N	15.0000	30.0000	10.0000	20.0000	0.0 L	10.0000	30.0000	15.0000
87	69ADT131	1.0000	0.0 N	15.0000	50.0000	30.0000	0.0 L	0.0 L	10.0000	50.0000	10.0000
88	69ADT120	1.0000	0.0 N	20.0000	70.0000	20.0000	30.0000	0.0 L	10.0000	50.0000	30.0000
89	69ADT119	1.5000	0.0 N	15.0000	100.0000	15.0000	50.0000	0.0 N	15.0000	30.0000	15.0000
90	69ADT125	3.0000	0.0 N	20.0000	70.0000	30.0000	20.0000	0.0 L	15.0000	30.0000	30.0000
91	69ADT124	1.5000	0.0 N	15.0000	30.0000	15.0000	20.0000	0.0 N	15.0000	30.0000	15.0000
92	69ADT121	1.0000	0.0 N	10.0000	70.0000	30.0000	20.0000	0.0 N	10.0000	30.0000	10.0000
93	69ADT127	1.5000	0.0 N	30.0000	70.0000	20.0000	30.0000	0.0 N	10.0000	50.0000	30.0000
94	69ADT126	2.0000	0.0 N	20.0000	70.0000	15.0000	50.0000	0.0 L	10.0000	50.0000	20.0000
95	68ARR47A	2.0000	0.0 L	20.0000	70.0000	20.0000	70.0000	5.0000	15.0000	30.0000	150.0000
96	9ABE107A gr	2.0000	0.0 N	30.0000	100.0000	30.0000	50.0000	0.0 N	10.0000	70.0000	30.0000
97	69ABE107 gr	2.0000	0.0 N	10.0000	50.0000	10.0000	50.0000	0.0 N	10.0000	30.0000	20.0000
98	69ABE106 gr	2.0000	0.0 N	15.0000	150.0000	30.0000	30.0000	0.0 N	10.0000	70.0000	15.0000
99	69ABE105 gr	1.5000	0.0 N	10.0000	50.0000	10.0000	30.0000	0.0 N	10.0000	30.0000	15.0000
100	69ABE115 gr	5.0000	0.0 N	15.0000	30.0000	10.0000	50.0000	0.0 N	15.0000	30.0000	30.0000

SADLEROCHIT-JAGO STR SEDS

Map No	SAMPLE	SB PPM.	SC PPM.	SN PPM.	SR PPM.	V PPM.	W PPM.	Y PPM.	ZN PPM.	ZR PPM.	HG PPM.
51	69ABE75	1.0000L	7.0000	0.0 N	0.0 L	30.0000	0.0 N	15.0000	45.0000	300.0000	0.0200
52	69ABE78	1.0000	7.0000	0.0 N	0.0 L	70.0000	0.0 N	10.0000	50.0000	100.0000	0.0300
53	69ABE76	2.0000	7.0000	0.0 N	100.0000	70.0000	0.0 N	15.0000	80.0000	300.0000	0.0600
54	69ARR120 gr	1.0000	10.0000	0.0 N	0.0 L	100.0000	0.0 N	30.0000	25.0000L	500.0000	0.0300
55	68ARR45 gr	2.0000	15.0000	70.0000	500.0000	70.0000	0.0 N	20.0000	270.0000	20.0000	0.3000
56	69ABE104 gr	2.0000	7.0000	0.0 N	0.0 L	30.0000	0.0 N	200.0000G	26.0000	700.0000	0.0200
57	69ABE80 gr	1.0000	0.0 L	15.0000	100.0000	20.0000	0.0 L	50.0000	25.0000L	100.0000	0.0300
58	69ASA2S gr	6.0000	15.0000	15.0000	300.0000	100.0000	0.0 N	70.0000	44.0000	70.0000	0.0100L
59	69ASA3S gr	1.0000	0.0 L	30.0000	0.0 L	30.0000	0.0 N	200.0000	60.0000	70.0000	0.0200
60	69ASA12S gr	1.0000	15.0000	15.0000	100.0000	150.0000	0.0 N	20.0000	88.0000	200.0000	0.1200
61	69ASA1S gr	1.0000L	7.0000	30.0000	700.0000	30.0000	100.0000	30.0000	150.0000	70.0000	0.0100L
62	68ARR42 gr	3.0000	15.0000	0.0 N	100.0000	150.0000	0.0 N	20.0000	400.0000	300.0000	0.2200
63	69ABE82 gr	2.0000	5.0000	30.0000	300.0000	50.0000	0.0 L	70.0000	25.0000	70.0000	0.0800
64	69ASA4S gr	2.0000	0.0 L	30.0000	300.0000	30.0000	0.0 N	15.0000	100.0000	30.0000	0.0100L
65	69ASA6S gr	1.0000	7.0000	10.0000	0.0 L	70.0000	0.0 N	20.0000	30.0000	300.0000	0.0100L
66	69ABE81 gr	1.0000	0.0 L	15.0000	0.0 L	20.0000	0.0 L	50.0000	25.0000L	70.0000	0.0300
67	69ASA5S gr	1.0000	0.0 N	15.0000	0.0 L	30.0000	50.0000	50.0000	25.0000	300.0000	0.0100L
68	69ASA7S gr	1.0000	10.0000	0.0 L	0.0 L	50.0000	0.0 N	20.0000	30.0000	150.0000	0.0100L
69	69ABE83 gr	1.0000L	5.0000	300.0000	0.0 L	30.0000	0.0 N	20.0000	25.0000L	300.0000	0.0200
70	69ABE108 gr	1.0000	7.0000	0.0 N	0.0 L	50.0000	0.0 N	20.0000	70.0000	300.0000	0.0100L
71	69ARR158 gr	1.0000L	0.0 L	15.0000	0.0 L	15.0000	0.0 L	50.0000	30.0000	100.0000	0.0200
72	69ARR159 gr	1.0000L	0.0 L	10.0000	0.0 L	15.0000	0.0 N	70.0000	35.0000	500.0000	0.0100
73	69ARR182 gr	0.0 B	10.0000	0.0 N	100.0000	50.0000	0.0 N	50.0000	60.0000	1000.0000	0.0100L
74	69ARR171 gr	0.0 B	7.0000	0.0 L	150.0000	70.0000	0.0 N	30.0000	55.0000	300.0000	0.0400
75	69ARR170 gr	0.0 B	7.0000	15.0000	0.0 L	30.0000	0.0 L	30.0000	60.0000	300.0000	0.0200
76	69ARR168 gr	0.0 B	5.0000	15.0000	100.0000	20.0000	0.0 L	50.0000	65.0000	70.0000	0.0100L
77	69ARR169 gr	0.0 B	5.0000	10.0000	0.0 L	20.0000	0.0 N	70.0000	60.0000	70.0000	1.3000
78	69ARR167 gr	0.0 B	7.0000	20.0000	0.0 L	70.0000	0.0 N	30.0000	30.0000	1000.0000	0.0100L
79	69ARR172 gr	2.0000	7.0000	15.0000	0.0 L	20.0000	0.0 N	70.0000	100.0000	150.0000	0.0100L
80	69ARR173 gr	2.0000	15.0000	30.0000	0.0 L	50.0000	0.0 N	100.0000	190.0000	70.0000	0.0500
81	69ARR174 gr	2.0000	7.0000	0.0 L	100.0000	30.0000	0.0 N	70.0000	65.0000	200.0000	0.0400
82	68ARR11A gr	3.0000	15.0000	0.0 N	100.0000	150.0000	0.0 N	20.0000	100.0000	200.0000	0.5000
83	68ARR11B gr	2.0000	15.0000	0.0 N	100.0000	70.0000	0.0 N	20.0000	70.0000	200.0000	0.2800
84	69ARR135 gr	2.0000	15.0000	0.0 N	100.0000	150.0000	0.0 N	20.0000	60.0000	300.0000	0.0100L
85	69ADT130	1.0000L	7.0000	0.0 N	0.0 L	30.0000	0.0 N	20.0000	30.0000	150.0000	0.1600
86	69ADT132	1.0000L	7.0000	0.0 N	100.0000	30.0000	0.0 N	15.0000	40.0000	200.0000	0.1200
87	69ADT131	1.0000L	10.0000	0.0 N	0.0 L	150.0000	0.0 N	15.0000	25.0000L	100.0000	0.2000
88	69ADT120	1.0000L	10.0000	0.0 N	0.0 L	100.0000	0.0 N	15.0000	40.0000	200.0000	0.0300
89	69ADT119	1.0000L	15.0000	0.0 N	100.0000	100.0000	0.0 N	15.0000	35.0000	300.0000	0.0100L
90	69ADT125	2.0000	15.0000	0.0 N	100.0000	100.0000	0.0 N	30.0000	50.0000	300.0000	0.1300
91	69ADT124	2.0000	10.0000	0.0 N	100.0000	70.0000	0.0 N	15.0000	40.0000	300.0000	0.0300
92	69ADT121	1.0000L	7.0000	0.0 N	0.0 L	50.0000	0.0 N	15.0000	40.0000	300.0000	0.0300
93	69ADT127	1.0000L	10.0000	0.0 N	0.0 L	100.0000	0.0 N	15.0000	60.0000	200.0000	0.0400
94	69ADT126	2.0000	15.0000	0.0 N	300.0000	100.0000	0.0 N	20.0000	60.0000	200.0000	0.0700
95	68ARR47A	1.0000	15.0000	70.0000	300.0000	70.0000	0.0 N	30.0000	70.0000	150.0000	0.2600
96	9ABE107A gr	1.0000	15.0000	0.0 N	150.0000	150.0000	0.0 N	50.0000	80.0000	200.0000	0.0900
97	69ABE107 gr	2.0000	7.0000	0.0 N	0.0 L	30.0000	0.0 N	30.0000	28.0000	700.0000	0.0200
98	69ABE106 gr	2.0000	15.0000	0.0 N	150.0000	150.0000	0.0 N	15.0000	60.0000	300.0000	0.0800
99	69ABE105 gr	2.0000	7.0000	0.0 N	0.0 L	30.0000	0.0 N	15.0000	26.0000	150.0000	0.0100L
100	69ABE115 gr	3.0000	7.0000	0.0 N	0.0 L	30.0000	0.0 N	30.0000	25.0000	500.0000	0.0100

SADLEROCHIT-JAGO STR SEDS

Map No	SAMPLE	FE PCT	MG PCT	CA PCT	TI PCT.	MN PPM.	AG PPM.	AS PPM.	AU PPM.	B PPM.	BA PPM.
101	69ABE116 gr	3.0000	0.7000	0.1500	0.5000	300.0000	0.0 N	20.0000	0.0200L	30.0000	300.0000
*102	9ABE116A gr	3.0000	1.0000	0.2000	0.7000	300.0000	0.0 N	100.0000	0.0200L	50.0000	300.0000
106	69ABE112 gr	5.0000	1.0000	0.2000	0.7000	1000.0000	0.0 N	30.0000	0.0200L	100.0000	700.0000
107	9ABE112J gr	5.0000	1.0000	0.1000	0.5000	700.0000	0.0 N	40.0000	0.0200L	50.0000	500.0000
108	69ABE113 gr	3.0000	0.7000	0.1000	0.5000	200.0000	0.0 N	30.0000	0.0200L	30.0000	300.0000
109	9ABE113A gr	5.0000	1.0000	0.1500	0.7000	500.0000	0.0 N	50.0000	0.0200L	70.0000	700.0000
110	69ABE84	3.0000	0.7000	0.1500	0.3000	150.0000	0.0 N	30.0000	0.0200L	50.0000	300.0000
111	69ABE86	3.0000	0.7000	0.1000	0.5000	200.0000	0.0 N	30.0000	0.0200L	30.0000	300.0000
112	69ABE85	3.0000	0.7000	0.2000	0.3000	200.0000	0.0 N	15.0000	0.0200L	70.0000	300.0000
113	69ARR179 gr	2.0000	0.7000	0.7000	0.7000	500.0000	0.0 N	0.0 N	0.0200L	100.0000	300.0000
114	69ARR181 gr	3.0000	0.7000	0.7000	0.7000	300.0000	0.0 N	10.0000L	0.0200L	100.0000	300.0000
115	69ARR180 gr	3.0000	1.0000	0.7000	0.7000	500.0000	0.0 N	10.0000	0.0200L	100.0000	500.0000
116	69ARR161 gr	3.0000	0.7000	0.7000	0.7000	300.0000	0.0 N	0.0 N	0.0200L	100.0000	500.0000
117	69ARR160 gr	5.0000	1.0000	0.5000	0.7000	300.0000	0.0 N	0.0 N	0.0200L	100.0000	700.0000
118	69ARR175 gr	3.0000	1.0000	0.1500	0.3000	1000.0000	0.0 N	80.0000	0.0200L	100.0000	700.0000
119	69ARR176 gr	5.0000	1.0000	0.2000	0.7000	1000.0000	0.0 N	10.0000L	0.0200L	70.0000	700.0000
120	69ARR177	3.0000	1.0000	0.2000	0.7000	300.0000	0.0 N	10.0000	0.0200L	50.0000	300.0000
121	69ARR178	3.0000	0.5000	0.1500	0.5000	300.0000	0.0 N	10.0000	0.0200L	70.0000	300.0000
122	69ARR133	5.0000	0.7000	0.0700	0.5000	300.0000	0.0 N	10.0000	0.0200L	30.0000	300.0000
123	69ARR134	5.0000	1.5000	1.0000	0.5000	1000.0000	0.0 L	10.0000	0.0200L	70.0000	700.0000
124	69ARR132	15.0000	1.5000	0.0700	1.0000	700.0000	0.0 N	20.0000	0.0200L	70.0000	700.0000
125	69ARR131 gr	1.5000	1.0000	0.7000	0.3000	500.0000	0.0 L	30.0000	0.0200L	10.0000	300.0000
126	9ARR131A gr	5.0000	1.5000	1.0000	0.7000	1500.0000	0.0 L	40.0000	0.0200L	70.0000	300.0000
127	69ARR129 gr	2.0000	0.7000	0.5000	0.3000	700.0000	0.0 N	10.0000	0.0200L	30.0000	300.0000
128	69ADT129	3.0000	1.0000	0.2000	0.5000	300.0000	0.0 N	10.0000L	0.0200L	100.0000	500.0000
129	69ABE87	3.0000	1.5000	0.7000	0.3000	500.0000	0.0 N	10.0000	0.0200L	50.0000	300.0000
130	69ABE43A	5.0000	1.0000	0.7000	1.0000	700.0000	0.0 N	20.0000	0.0200L	30.0000	500.0000
131	69ABE88	5.0000	2.0000	1.5000	0.7000	500.0000	0.0 N	15.0000	0.0200L	30.0000	300.0000
132	69ABE99	5.0000	1.5000	0.7000	0.7000	700.0000	0.0 N	40.0000	0.0200L	70.0000	700.0000
133	69ABE92	5.0000	0.7000	0.1500	0.7000	1500.0000	0.0 N	30.0000	0.0200L	150.0000	300.0000
134	69ABE93	3.0000	0.7000	0.0700	0.7000	700.0000	0.0 N	10.0000	0.0200L	70.0000	300.0000
135	69ABE98	5.0000	1.0000	0.3000	0.7000	500.0000	0.0 N	20.0000	0.0200L	70.0000	700.0000
136	69ABE94	7.0000	1.5000	1.0000	1.0000	1500.0000	0.0 N	20.0000	0.0200L	150.0000	700.0000
137	69ABE97	5.0000	1.0000	0.3000	0.7000	300.0000	0.0 N	10.0000	0.0200L	100.0000	700.0000
138	69ABE95	3.0000	1.5000	0.7000	0.7000	1500.0000	0.0 N	10.0000	0.0200L	70.0000	700.0000
139	69ABE96	7.0000	1.5000	2.0000	0.7000	1500.0000	0.0 N	20.0000	0.0200L	70.0000	300.0000
140	69ARR130	3.0000	1.0000	5.0000	0.7000	300.0000	0.0 N	20.0000	0.0200L	70.0000	500.0000
141	69ABE40	3.0000	3.0000	15.0000	0.3000	300.0000	0.0 N	10.0000	0.0200L	20.0000	150.0000
142	69ABE89	3.0000	2.0000	20.0000	0.3000	300.0000	0.0 N	10.0000L	0.0200L	50.0000	150.0000
143	69ABE91	10.0000	1.5000	0.5000	1.0000	1000.0000	0.0 N	10.0000L	0.0200L	70.0000	700.0000
144	69ABE90	10.0000	1.5000	0.7000	1.0000	1000.0000	0.0 N	10.0000L	0.0200L	70.0000	700.0000
*103	69ABE110 gr	3.0000	0.7000	0.1500	0.5000	300.0000	0.0 N	30.0000	0.0200L	70.0000	300.0000
104	69ABE114 gr	3.0000	0.7000	0.1500	0.7000	500.0000	0.0 N	60.0000	0.0200L	70.0000	700.0000
105	69ABE111 gr	5.0000	0.7000	0.1000	0.7000	300.0000	0.0 N	40.0000	0.0200L	70.0000	700.0000

SADLEROCHIT-JAGO STR SEDS

Map No	SAMPLE	BE PPM.	BI PPM.	CO PPM.	CR PPM.	CU PPM.	LA PPM.	MO PPM.	NB PPM.	NI PPM.	PB PPM.
101	69ABE116 gr	3.0000	0.0 N	15.0000	30.0000	15.0000	150.0000	0.0 N	15.0000	30.0000	30.0000
102	9ABE116A gr	1.5000	0.0 N	20.0000	70.0000	15.0000	30.0000	0.0 N	15.0000	30.0000	20.0000
*106	69ABE112 gr	5.0000	0.0 N	20.0000	70.0000	30.0000	50.0000	0.0 N	10.0000	50.0000	150.0000
107	9ABE112J gr	3.0000	0.0 N	20.0000	70.0000	20.0000	50.0000	0.0 N	10.0000	50.0000	150.0000
108	69ABE113 gr	1.5000	0.0 N	15.0000	30.0000	10.0000	50.0000	0.0 N	10.0000	30.0000	30.0000
109	9ABE113A gr	1.5000	0.0 N	20.0000	70.0000	20.0000	50.0000	0.0 N	10.0000	50.0000	20.0000
110	69ABE84	1.0000	0.0 N	5.0000	30.0000	10.0000	0.0 L	0.0 N	10.0000	30.0000	20.0000
111	69ABE86	1.0000	0.0 N	10.0000	30.0000	7.0000	0.0 L	0.0 N	0.0 L	30.0000	15.0000
112	69ABE85	1.0000	0.0 N	10.0000	30.0000	15.0000	20.0000	0.0 L	10.0000	30.0000	15.0000
113	69ARR179 gr	1.0000	0.0 N	50.0000	20.0000	30.0000	0.0 L	0.0 N	15.0000	30.0000	20.0000
114	69ARR181 gr	1.0000	0.0 N	15.0000	30.0000	10.0000	30.0000	0.0 N	15.0000	30.0000	10.0000
115	69ARR180 gr	1.0000	0.0 N	10.0000	70.0000	15.0000	30.0000	0.0 N	15.0000	30.0000	0.0 L
116	69ARR161 gr	1.0000	0.0 N	20.0000	50.0000	20.0000	20.0000	0.0 N	15.0000	30.0000	10.0000
117	69ARR160 gr	1.5000	0.0 N	20.0000	70.0000	15.0000	50.0000	0.0 N	20.0000	30.0000	15.0000
118	69ARR175 gr	3.0000	0.0 L	15.0000	70.0000	30.0000	30.0000	0.0 L	15.0000	30.0000	150.0000
119	69ARR176 gr	1.5000	0.0 N	20.0000	70.0000	30.0000	30.0000	0.0 L	10.0000	50.0000	30.0000
120	69ARR177	1.5000	0.0 N	15.0000	70.0000	50.0000	70.0000	0.0 N	10.0000	30.0000	20.0000
121	69ARR178	1.5000	0.0 N	15.0000	30.0000	15.0000	0.0 L	0.0 N	10.0000	30.0000	10.0000
122	69ARR133	0.0 L	0.0 N	10.0000	70.0000	10.0000	30.0000	0.0 L	10.0000	30.0000	20.0000
123	69ARR134	1.0000	0.0 N	15.0000	100.0000	50.0000	20.0000	0.0 L	10.0000	50.0000	30.0000
124	69ARR132	1.0000	0.0 N	20.0000	150.0000	30.0000	50.0000	0.0 L	10.0000	50.0000	30.0000
125	69ARR131 gr	1.5000	0.0 N	5.0000	100.0000	7.0000	30.0000	0.0 L	0.0 L	7.0000	150.0000
126	9ARR131A gr	1.5000	0.0 N	15.0000	70.0000	100.0000	20.0000	0.0 L	10.0000	50.0000	30.0000
127	69ARR129 gr	0.0 L	0.0 N	10.0000	50.0000	50.0000	0.0 N	0.0 N	0.0 L	30.0000	20.0000
128	69ADT129	1.5000	0.0 N	10.0000	70.0000	30.0000	20.0000	0.0 N	0.0 L	30.0000	20.0000
129	69ABE87	1.0000	0.0 N	10.0000	70.0000	30.0000	20.0000	0.0 N	10.0000	50.0000	15.0000
130	69ABE43A	1.5000	0.0 N	15.0000	100.0000	30.0000	50.0000	0.0 L	15.0000	30.0000	30.0000
131	69ABE88	1.0000	0.0 N	20.0000	150.0000	50.0000	0.0 L	0.0 L	10.0000	70.0000	10.0000
132	69ABE99	2.0000	0.0 N	30.0000	150.0000	50.0000	70.0000	0.0 L	15.0000	100.0000	20.0000
133	69ABE92	2.0000	0.0 N	30.0000	70.0000	100.0000	20.0000	5.0000	10.0000	100.0000	20.0000
134	69ABE93	2.0000	0.0 N	20.0000	70.0000	70.0000	20.0000	0.0 L	15.0000	70.0000	15.0000
135	69ABE98	1.5000	0.0 N	30.0000	100.0000	50.0000	30.0000	0.0 L	15.0000	70.0000	15.0000
136	69ABE94	3.0000	0.0 N	30.0000	150.0000	70.0000	70.0000	0.0 L	20.0000	150.0000	20.0000
137	69ABE97	1.5000	0.0 N	20.0000	70.0000	15.0000	50.0000	0.0 N	15.0000	70.0000	0.0 L
138	69ABE95	2.0000	0.0 N	20.0000	100.0000	100.0000	50.0000	0.0 L	15.0000	70.0000	15.0000
139	69ABE96	1.5000	0.0 N	30.0000	100.0000	70.0000	30.0000	0.0 L	10.0000	100.0000	20.0000
140	69ARR130	1.0000	0.0 N	10.0000	100.0000	15.0000	30.0000	0.0 N	10.0000	30.0000	30.0000
141	69ABE40	0.0 N	0.0 N	7.0000	150.0000	0.0 L	0.0 L	0.0 L	0.0 L	50.0000	0.0 L
142	69ABE89	1.0000	0.0 N	10.0000	150.0000	10.0000	20.0000	0.0 N	10.0000	70.0000	10.0000
143	69ABE91	2.0000	0.0 N	30.0000	200.0000	50.0000	50.0000	0.0 L	15.0000	150.0000	20.0000
144	69ABE90	2.0000	0.0 N	30.0000	200.0000	30.0000	50.0000	0.0 L	15.0000	150.0000	30.0000
*103	69ABE110 gr	3.0000	0.0 N	10.0000	30.0000	15.0000	50.0000	0.0 N	10.0000	30.0000	50.0000
104	69ABE114 gr	2.0000	0.0 N	20.0000	50.0000	15.0000	50.0000	0.0 N	15.0000	50.0000	30.0000
105	69ABE111 gr	1.5000	0.0 N	20.0000	70.0000	20.0000	50.0000	0.0 N	10.0000	50.0000	30.0000

SADLEROCHIT-JAGO STR SEDS

Map No	SAMPLE	SB PPM.	SC PPM.	SN PPM.	SR PPM.	V PPM.	W PPM.	Y PPM.	ZN PPM.	ZR PPM.	HG PPM.
101	69ABE116 gr	1.0000L	7.0000	0.0 N	0.0 L	30.0000	0.0 L	20.0000	34.0000	500.0000	0.0100L
102	9ABE116A gr	1.0000L	7.0000	0.0 N	0.0 L	70.0000	0.0 N	15.0000	44.0000	700.0000	0.0200
*106	69ABE112 gr	1.0000L	15.0000	0.0 L	0.0 L	100.0000	0.0 N	30.0000	90.0000	150.0000	0.0200
107	9ABE112J gr	1.0000L	15.0000	10.0000	0.0 L	70.0000	0.0 N	20.0000	90.0000	150.0000	0.0200
108	69ABE113 gr	1.0000L	7.0000	0.0 L	0.0 L	30.0000	0.0 N	20.0000	34.0000	500.0000	0.0100L
109	9ABE113A gr	1.0000	15.0000	0.0 N	0.0 L	100.0000	0.0 N	20.0000	32.0000	500.0000	0.0100L
110	69ABE84	1.0000L	5.0000	0.0 N	0.0 L	30.0000	0.0 N	10.0000	120.0000	300.0000	0.0100L
111	69ABE86	1.0000	5.0000	0.0 N	0.0 L	50.0000	0.0 N	10.0000	80.0000	300.0000	0.0100L
112	69ABE85	1.0000	5.0000	0.0 N	0.0 L	50.0000	0.0 N	10.0000	70.0000	200.0000	0.0100L
113	69ARR179 gr	0.0 B	7.0000	0.0 N	100.0000	50.0000	0.0 N	20.0000	60.0000	1000.0000	0.0100L
114	69ARR181 gr	0.0 B	10.0000	0.0 N	100.0000	50.0000	0.0 N	20.0000	50.0000	1000.0000	0.0100L
115	69ARR180 gr	0.0 B	10.0000	0.0 N	100.0000	70.0000	0.0 N	30.0000	40.0000	1000.0000G	0.0100L
116	69ARR161 gr	1.0000L	7.0000	0.0 N	100.0000	30.0000	0.0 N	20.0000	70.0000	1000.0000	0.0100L
117	69ARR160 gr	1.0000L	15.0000	0.0 N	0.0 L	100.0000	0.0 N	20.0000	75.0000	1000.0000	0.0100L
118	69ARR175 gr	0.0 B	10.0000	15.0000	100.0000	100.0000	0.0 N	50.0000	65.0000	200.0000	0.0500
119	69ARR176 gr	0.0 B	15.0000	0.0 N	100.0000	150.0000	0.0 N	15.0000	60.0000	200.0000	0.0100L
120	69ARR177	3.0000	15.0000	0.0 N	0.0 L	70.0000	0.0 N	20.0000	56.0000	300.0000	0.0100L
121	69ARR178	2.0000	7.0000	0.0 N	0.0 L	50.0000	0.0 N	20.0000	40.0000	700.0000	0.0100
122	69ARR133	2.0000	10.0000	0.0 N	0.0 L	70.0000	0.0 N	15.0000	25.0000	300.0000	0.0200
123	69ARR134	3.0000	10.0000	0.0 N	0.0 L	150.0000	0.0 N	15.0000	46.0000	200.0000	0.1200
124	69ARR132	1.0000L	15.0000	0.0 N	0.0 L	150.0000	0.0 N	15.0000	25.0000	500.0000	0.0100L
125	69ARR131 gr	1.0000	0.0 L	0.0 N	100.0000	50.0000	0.0 N	10.0000	25.0000L	70.0000	0.0100
126	9ARR131A gr	3.0000	15.0000	0.0 N	0.0 L	150.0000	0.0 N	10.0000	40.0000	200.0000	0.0500
127	69ARR129 gr	3.0000	5.0000	0.0 N	0.0 L	50.0000	0.0 N	10.0000	25.0000	70.0000	0.0900
128	69ADT129	0.0 B	10.0000	0.0 N	0.0 L	70.0000	0.0 N	15.0000	50.0000	200.0000	0.0900
129	69ABE87	4.0000	7.0000	0.0 N	100.0000	100.0000	0.0 N	10.0000	75.0000	70.0000	0.0800
130	69ABE43A	1.0000L	15.0000	0.0 N	0.0 L	150.0000	0.0 N	20.0000	25.0000L	500.0000	0.0300
131	69ABE88	3.0000	15.0000	0.0 N	150.0000	150.0000	0.0 N	15.0000	80.0000	70.0000	0.1300
132	69ABE99	6.0000	20.0000	0.0 N	100.0000	200.0000	0.0 N	30.0000	30.0000	300.0000	0.1100
133	69ABE92	4.0000	15.0000	0.0 N	100.0000	300.0000	0.0 N	30.0000	70.0000	200.0000	0.4000
134	69ABE93	3.0000	15.0000	0.0 N	100.0000	200.0000	0.0 N	20.0000	40.0000	200.0000	0.2000
135	69ABE98	1.0000	15.0000	0.0 N	100.0000	150.0000	0.0 N	20.0000	60.0000	1000.0000	0.0100L
136	69ABE94	4.0000	20.0000	0.0 N	100.0000	300.0000	0.0 N	70.0000	70.0000	300.0000	0.2400
137	69ABE97	1.0000	15.0000	0.0 N	100.0000	150.0000	0.0 N	20.0000	40.0000	700.0000	0.0200
138	69ABE95	3.0000	15.0000	0.0 N	100.0000	200.0000	0.0 N	30.0000	50.0000	500.0000	0.1000
139	69ABE96	1.0000L	20.0000	0.0 N	200.0000	200.0000	0.0 N	20.0000	30.0000	100.0000	0.0500
140	69ARR130	2.0000	10.0000	0.0 N	700.0000	70.0000	0.0 N	15.0000	25.0000L	150.0000	0.0400
141	69ABE40	1.0000	10.0000	0.0 N	300.0000	150.0000	0.0 N	15.0000	25.0000L	70.0000	0.0600
142	69ABE89	4.0000	10.0000	0.0 N	300.0000	100.0000	0.0 N	15.0000	60.0000	70.0000	0.0600
143	69ABE91	4.0000	20.0000	0.0 N	100.0000	200.0000	0.0 N	30.0000	80.0000	500.0000	0.2200
144	69ABE90	3.0000	20.0000	0.0 N	150.0000	200.0000	0.0 N	30.0000	50.0000	300.0000	0.1400
*103	69ABE110 gr	1.0000	7.0000	0.0 N	0.0 L	50.0000	0.0 N	20.0000	36.0000	500.0000	0.0100
104	69ABE114 gr	1.0000	10.0000	0.0 N	0.0 L	50.0000	0.0 N	20.0000	30.0000	700.0000	0.0100
105	69ABE111 gr	1.0000L	10.0000	0.0 N	0.0 L	100.0000	0.0 N	15.0000	36.0000	1000.0000G	0.0100L

Table 2 Histograms

FREQUENCY TABLE FOR COLUMN 1 (FE PCT.)

LIMITS LOWER	UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8E-02 -	5.6E-02	0	0	0.0	0.0
5.6E-02 -	8.3E-02	0	0	0.0	0.0
8.3E-02 -	1.2E-01	0	0	0.0	0.0
1.2E-01 -	1.8E-01	0	0	0.0	0.0
1.8E-01 -	2.6E-01	0	0	0.0	0.0
2.6E-01 -	3.8E-01	0	0	0.0	0.0
3.8E-01 -	5.6E-01	1	1	0.69	0.69
5.6E-01 -	8.3E-01	0	1	0.0	0.69
8.3E-01 -	1.2E 00	2	3	1.39	2.08
1.2E 00 -	1.8E 00	9	12	6.25	8.33
1.8E 00 -	2.6E 00	16	28	11.11	19.44
2.6E 00 -	3.8E 00	56	84	38.89	58.33
3.8E 00 -	5.6E 00	50	134	34.72	93.06
5.6E 00 -	8.3E 00	7	141	4.86	97.92
8.3E 00 -	1.2E 01	2	143	1.39	99.31
1.2E 01 -	1.8E 01	1	144	0.69	100.00

HISTOGRAM FOR COLUMN 1 (FE PCT.)

```
5.0E-01 X
7.0E-01
1.0E 00 X
1.5E 00 XXXXXX
2.0E 00 XXXXXXXXXXX
3.0E 00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
5.0E 00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.0E 00 XXXXX
1.0E 01 X
1.5E 01 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	0	0	0	0	0	144
0.0	0.0			0.0	0.0	

MAXIMUM = 1.50000E 01

MINIMUM = 5.00000E-01

GEOMETRIC MEAN = 3.41773E 00

GEOMETRIC DEVIATION = 1.62484E 00

FREQUENCY TABLE FOR COLUMN 2 (MG PCT.)

LIMITS LOWER	UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
1.8E-02 -	2.6E-02	0	0	0.0	0.0
2.6E-02 -	3.8E-02	0	0	0.0	0.0
3.8E-02 -	5.6E-02	0	0	0.0	0.0
5.6E-02 -	8.3E-02	0	0	0.0	0.0
8.3E-02 -	1.2E-01	2	2	1.39	1.39
1.2E-01 -	1.8E-01	0	2	0.0	1.39
1.8E-01 -	2.6E-01	3	5	2.08	3.47
2.6E-01 -	3.8E-01	5	10	3.47	6.94
3.8E-01 -	5.6E-01	7	17	4.86	11.81
5.6E-01 -	8.3E-01	46	63	31.94	43.75
8.3E-01 -	1.2E 00	47	110	32.64	76.39
1.2E 00 -	1.8E 00	18	128	12.50	88.89
1.8E 00 -	2.6E 00	10	138	6.94	95.83
2.6E 00 -	3.8E 00	5	143	3.47	99.31
3.8E 00 -	5.6E 00	1	144	0.69	100.00

HISTOGRAM FOR COLUMN 2 (MG PCT.)

```
1.0E-01 X
1.5E-01
2.0E-01 XX
3.0E-01 XXX
5.0E-01 XXXXX
7.0E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.0E 00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.5E 00 XXXXXXXXXXXXX
2.0E 00 XXXXXXX
3.0E 00 XXX
5.0E 00 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	0	0	0	0	0	144
0.0	0.0			0.0	0.0	

MAXIMUM = 5.00000E 00

MINIMUM = 1.00000E-01

GEOMETRIC MEAN = 8.98700E-01

GEOMETRIC DEVIATION = 1.80190E 00

FREQUENCY TABLE FOR COLUMN 3 (CA PCT.)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8E-02 -	5.6E-02	1	1	0.69	0.69
5.6E-02 -	8.3E-02	14	15	9.72	10.42
8.3E-02 -	1.2E-01	8	23	5.56	15.97
1.2E-01 -	1.8E-01	26	49	18.06	34.03
1.8E-01 -	2.6E-01	9	58	6.25	40.28
2.6E-01 -	3.8E-01	3	61	2.08	42.36
3.8E-01 -	5.6E-01	8	69	5.56	47.92
5.6E-01 -	8.3E-01	21	90	14.58	62.50
8.3E-01 -	1.2E 00	6	96	4.17	66.67
1.2E 00 -	1.8E 00	11	107	7.64	74.31
1.8E 00 -	2.6E 00	4	111	2.78	77.08
2.6E 00 -	3.8E 00	3	114	2.08	79.17
3.8E 00 -	5.6E 00	8	122	5.56	84.72
5.6E 00 -	8.3E 00	7	129	4.86	89.58
8.3E 00 -	1.2E 01	4	133	2.78	92.36
1.2E 01 -	1.8E 01	3	136	2.08	94.44
1.8E 01 -	2.6E 01	5	141	3.47	97.92

HISTOGRAM FOR COLUMN 3 (CA PCT.)

```
5.0E-02 X
7.0E-02 XXXXXXXXXX
1.0E-01 XXXXXX
1.5E-01 XXXXXXXXXXXXXXXXXX
2.0E-01 XXXXXX
3.0E-01 XX
5.0E-01 XXXXXX
7.0E-01 XXXXXXXXXXXXXX
1.0E 00 XXXX
1.5E 00 XXXXXXXX
2.0E 00 XXX
3.0E 00 XX
5.0E 00 XXXXXX
7.0E 00 XXXXX
1.0E 01 XXX
1.5E 01 XX
2.0E 01 XXX
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	3	0	0	0	0	141
0.0	2.08			0.0	0.0	

MAXIMUM = 2.00000E 01

MINIMUM = 5.00000E-02

GEOMETRIC MEAN = 6.09705E-01

GEOMETRIC DEVIATION = 5.26495E 00

FREQUENCY TABLE FOR COLUMN 4 (TI PCT.)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
1.8E-03 -	2.6E-03	0	0	0.0	0.0
2.6E-03 -	3.8E-03	0	0	0.0	0.0
3.8E-03 -	5.6E-03	0	0	0.0	0.0
5.6E-03 -	8.3E-03	0	0	0.0	0.0
8.3E-03 -	1.2E-02	0	0	0.0	0.0
1.2E-02 -	1.8E-02	0	0	0.0	0.0
1.8E-02 -	2.6E-02	0	0	0.0	0.0
2.6E-02 -	3.8E-02	0	0	0.0	0.0
3.8E-02 -	5.6E-02	0	0	0.0	0.0
5.6E-02 -	8.3E-02	1	1	0.69	0.69
8.3E-02 -	1.2E-01	3	4	2.08	2.78
1.2E-01 -	1.8E-01	9	13	6.25	9.03
1.8E-01 -	2.6E-01	11	24	7.64	16.67
2.6E-01 -	3.8E-01	29	53	20.14	36.81
3.8E-01 -	5.6E-01	38	91	26.39	63.19
5.6E-01 -	8.3E-01	46	137	31.94	95.14
8.3E-01 -	1.2E 00	7	144	4.86	100.00

HISTOGRAM FOR COLUMN 4 (TI PCT.)

```
7.0E-02 X

1.0E-01 XX

1.5E-01 XXXXXX

2.0E-01 XXXXXXXX

3.0E-01 XXXXXXXXXXXXXXXXXXXX

5.0E-01 XXXXXXXXXXXXXXXXXXXXXXXXXX

7.0E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1.0E 00 XXXXX
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	0	0	0	0	0	144
0.0	0.0			0.0	0.0	

MAXIMUM = 1.00000E 00

MINIMUM = 7.00000E-02

GEOMETRIC MEAN = 4.28589E-01

GEOMETRIC DEVIATION = 1.77016E 00

FREQUENCY TABLE FOR COLUMN 5 (MN PPM.)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3E 00 -	1.2E 01	0	0	0.0	0.0
1.2E 01 -	1.8E 01	0	0	0.0	0.0
1.8E 01 -	2.6E 01	0	0	0.0	0.0
2.6E 01 -	3.8E 01	0	0	0.0	0.0
3.8E 01 -	5.6E 01	0	0	0.0	0.0
5.6E 01 -	8.3E 01	2	2	1.39	1.39
8.3E 01 -	1.2E 02	4	6	2.78	4.17
1.2E 02 -	1.8E 02	14	20	9.72	13.89
1.8E 02 -	2.6E 02	11	31	7.64	21.53
2.6E 02 -	3.8E 02	40	71	27.78	49.31
3.8E 02 -	5.6E 02	26	97	18.06	67.36
5.6E 02 -	8.3E 02	18	115	12.50	79.86
8.3E 02 -	1.2E 03	21	136	14.58	94.44
1.2E 03 -	1.8E 03	8	144	5.56	100.00

HISTOGRAM FOR COLUMN 5 (MN PPM.)

```
7.0E 01 X

1.0E 02 XXX

1.5E 02 XXXXXXXXXX

2.0E 02 XXXXXXXX

3.0E 02 XXXXXXXXXXXXXXXXXXXXXXXXXXXX

5.0E 02 XXXXXXXXXXXXXXXXXX

7.0E 02 XXXXXXXXXXXXX

1.0E 03 XXXXXXXXXXXXXX

1.5E 03 XXXXXX
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	0	0	0	0	0	144
0.0	0.0			0.0	0.0	

MAXIMUM = 1.50000E 03

MINIMUM = 7.00000E 01

GEOMETRIC MEAN = 4.10653E 02

GEOMETRIC DEVIATION = 2.05669E 00

FREQUENCY TABLE FOR COLUMN 7 (AS PPM.) *144 samples*

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
1.8E-01 -	2.6E-01	0	0	0.0	0.0
2.6E-01 -	3.8E-01	0	0	0.0	0.0
3.8E-01 -	5.6E-01	0	0	0.0	0.0
5.6E-01 -	8.3E-01	0	0	0.0	0.0
8.3E-01 -	1.2E 00	0	0	0.0	0.0
1.2E 00 -	1.8E 00	0	0	0.0	0.0
1.8E 00 -	2.6E 00	0	0	0.0	0.0
2.6E 00 -	3.8E 00	0	0	0.0	0.0
3.8E 00 -	5.6E 00	0	0	0.0	0.0
5.6E 00 -	8.3E 00	0	0	0.0	0.0
8.3E 00 -	1.2E 01	52	52	36.11	36.11
1.2E 01 -	1.8E 01	7	59	4.86	40.97
1.8E 01 -	2.6E 01	23	82	15.97	56.94
2.6E 01 -	3.8E 01	7	89	4.86	61.81
3.8E 01 -	5.6E 01	21	110	14.58	76.39
5.6E 01 -	8.3E 01	5	115	3.47	79.86
8.3E 01 -	1.2E 02	3	118	2.08	81.94

HISTOGRAM FOR COLUMN 7 (AS PPM.)

```
1.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1.5E 01 XXXXX

2.0E 01 XXXXXXXXXXXXXXXX

3.0E 01 XXXXX

5.0E 01 XXXXXXXXXXXXXXX

7.0E 01 XXX

1.0E 02 XX
```

N	L	H	B	T	G	ANALYTICAL VALUES
4	22	0	0	0	0	118
2.78	15.28			0.0	0.0	

MAXIMUM = 1.00000E 02

MINIMUM = 1.00000E 01

GEOMETRIC MEAN = 1.84357E 01

GEOMETRIC DEVIATION = 1.93859E 00

FREQUENCY TABLE FOR COLUMN 7 (AS PPM.)

69 samples, sed-metased. sources

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
1.8E-01 -	2.6E-01	0	0	0.0	0.0
2.6E-01 -	3.8E-01	0	0	0.0	0.0
3.8E-01 -	5.6E-01	0	0	0.0	0.0
5.6E-01 -	8.3E-01	0	0	0.0	0.0
8.3E-01 -	1.2E 00	0	0	0.0	0.0
1.2E 00 -	1.8E 00	0	0	0.0	0.0
1.8E 00 -	2.6E 00	0	0	0.0	0.0
2.6E 00 -	3.8E 00	0	0	0.0	0.0
3.8E 00 -	5.6E 00	0	0	0.0	0.0
5.6E 00 -	8.3E 00	0	0	0.0	0.0
8.3E 00 -	1.2E 01	34	34	49.28	49.28
1.2E 01 -	1.8E 01	5	39	7.25	56.52
1.8E 01 -	2.6E 01	10	49	14.49	71.01
2.6E 01 -	3.8E 01	3	52	4.35	75.36
3.8E 01 -	5.6E 01	2	54	2.90	78.26

HISTOGRAM FOR COLUMN 7 (AS PPM.)

```
1.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1.5E 01 XXXXXXX

2.0E 01 XXXXXXXXXXXXXX

3.0E 01 XXXX

5.0E 01 XXX
```

N	L	H	B	T	G	ANALYTICAL VALUES
1	14	0	0	0	0	54
1.45	20.29			0.0	0.0	

MAXIMUM = 4.00000E 01

MINIMUM = 1.00000E 01

GEOMETRIC MEAN = 1.32083E 01

GEOMETRIC DEVIATION = 1.50692E 00

FREQUENCY TABLE FOR COLUMN 7 (AS PPM.)

75 samples, granitic sources

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
1.8E-01 -	2.6E-01	0	0	0.0	0.0
2.6E-01 -	3.8E-01	0	0	0.0	0.0
3.8E-01 -	5.6E-01	0	0	0.0	0.0
5.6E-01 -	8.3E-01	0	0	0.0	0.0
8.3E-01 -	1.2E 00	0	0	0.0	0.0
1.2E 00 -	1.8E 00	0	0	0.0	0.0
1.8E 00 -	2.6E 00	0	0	0.0	0.0
2.6E 00 -	3.8E 00	0	0	0.0	0.0
3.8E 00 -	5.6E 00	0	0	0.0	0.0
5.6E 00 -	8.3E 00	0	0	0.0	0.0
8.3E 00 -	1.2E 01	18	18	24.00	24.00
1.2E 01 -	1.8E 01	2	20	2.67	26.67
1.8E 01 -	2.6E 01	13	33	17.33	44.00
2.6E 01 -	3.8E 01	4	37	5.33	49.33
3.8E 01 -	5.6E 01	19	56	25.33	74.67
5.6E 01 -	8.3E 01	5	61	6.67	81.33
8.3E 01 -	1.2E 02	3	64	4.00	85.33

HISTOGRAM FOR COLUMN 7 (AS PPM.)

```
1.0E 01 XXXXXXXXXXXXXXXXXXXXXXX

1.5E 01 XXX

2.0E 01 XXXXXXXXXXXXXXXXX

3.0E 01 XXXXX

5.0E 01 XXXXXXXXXXXXXXXXXXXXXXXX

7.0E 01 XXXXXXX

1.0E 02 XXXX
```

N	L	H	B	T	G	ANALYTICAL VALUES
3	8	0	0	0	0	64
4.00	10.67			0.0	0.0	

MAXIMUM = 1.00000E 02

MINIMUM = 1.00000E 01

GEOMETRIC MEAN = 2.44257E 01

GEOMETRIC DEVIATION = 2.02322E 00

FREQUENCY TABLE FOR COLUMN 9 (B PPM.)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3E 00 -	1.2E 01	1	1	0.69	0.69
1.2E 01 -	1.8E 01	0	1	0.0	0.69
1.8E 01 -	2.6E 01	5	6	3.47	4.17
2.6E 01 -	3.8E 01	19	25	13.19	17.36
3.8E 01 -	5.6E 01	30	55	20.83	38.19
5.6E 01 -	8.3E 01	51	106	35.42	73.61
8.3E 01 -	1.2E 02	25	131	17.36	90.97
1.2E 02 -	1.8E 02	13	144	9.03	100.00

HISTOGRAM FOR COLUMN 9 (B PPM.)

```
1.0E 01 X

1.5E 01

2.0E 01 XXX

3.0E 01 XXXXXXXXXXXXX

5.0E 01 XXXXXXXXXXXXXXXXXXXXX

7.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1.0E 02 XXXXXXXXXXXXXXXXX

1.5E 02 XXXXXXXXX
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	0	0	0	0	0	144
0.0	0.0			0.0	0.0	

MAXIMUM = 1.50000E 02

MINIMUM = 1.00000E 01

GEOMETRIC MEAN = 6.28215E 01

GEOMETRIC DEVIATION = 1.67124E 00

FREQUENCY TABLE FOR COLUMN 10 (BA PPM.)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
1.8E 01 -	2.6E 01	0	0	0.0	0.0
2.6E 01 -	3.8E 01	0	0	0.0	0.0
3.8E 01 -	5.6E 01	0	0	0.0	0.0
5.6E 01 -	8.3E 01	0	0	0.0	0.0
8.3E 01 -	1.2E 02	11	11	7.64	7.64
1.2E 02 -	1.8E 02	19	30	13.19	20.83
1.8E 02 -	2.6E 02	3	33	2.08	22.92
2.6E 02 -	3.8E 02	46	79	31.94	54.86
3.8E 02 -	5.6E 02	16	95	11.11	65.97
5.6E 02 -	8.3E 02	42	137	29.17	95.14
8.3E 02 -	1.2E 03	6	143	4.17	99.31

HISTOGRAM FOR COLUMN 10 (BA PPM.)

```
1.0E 02 XXXXXXXX

1.5E 02 XXXXXXXXXXXXX

2.0E 02 XX

3.0E 02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

5.0E 02 XXXXXXXXXXX

7.0E 02 XXXXXXXXXXXXXXXXXXXXXXXXXXXX

1.0E 03 XXXX
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	1	0	0	0	0	143
0.0	0.69			0.0	0.0	

MAXIMUM = 1.00000E 03

MINIMUM = 1.00000E 02

GEOMETRIC MEAN = 3.56064E 02

GEOMETRIC DEVIATION = 1.93438E 00

FREQUENCY TABLE FOR COLUMN 11 (BE PPM.) *144 samples*

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3E-01 -	1.2E 00	32	32	22.22	22.22
1.2E 00 -	1.8E 00	34	66	23.61	45.83
1.8E 00 -	2.6E 00	22	88	15.28	61.11
2.6E 00 -	3.8E 00	20	108	13.89	75.00
3.8E 00 -	5.6E 00	10	118	6.94	81.94
5.6E 00 -	8.3E 00	6	124	4.17	86.11
8.3E 00 -	1.2E 01	3	127	2.08	88.19
1.2E 01 -	1.8E 01	3	130	2.08	90.28
1.8E 01 -	2.6E 01	0	130	0.0	90.28
2.6E 01 -	3.8E 01	0	130	0.0	90.28
3.8E 01 -	5.6E 01	0	130	0.0	90.28
5.6E 01 -	8.3E 01	1	131	0.69	90.97

HISTOGRAM FOR COLUMN 11 (BE PPM.)

```
1.0E 00 XXXXXXXXXXXXXXXXXXXXX

1.5E 00 XXXXXXXXXXXXXXXXXXXXXXXX

2.0E 00 XXXXXXXXXXXXXXX

3.0E 00 XXXXXXXXXXXXXX

5.0E 00 XXXXXXX

7.0E 00 XXXX

1.0E 01 XX

1.5E 01 XX

2.0E 01

3.0E 01

5.0E 01

7.0E 01 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
4	9	0	0	0	0	131
2.78	6.25			0.0	0.0	

MAXIMUM = 7.00000E 01

MINIMUM = 1.00000E 00

GEOMETRIC MEAN = 2.11388E 00

GEOMETRIC DEVIATION = 2.09908E 00

FREQUENCY TABLE FOR COLUMN 11 (BE PPM.) *69 samples, sed.-metased. sources*

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3E-01 -	1.2E 00	26	26	37.68	37.68
1.2E 00 -	1.8E 00	19	45	27.54	65.22
1.8E 00 -	2.6E 00	12	57	17.39	82.61
2.6E 00 -	3.8E 00	3	60	4.35	86.96
3.8E 00 -	5.6E 00	0	60	0.0	86.96
5.6E 00 -	8.3E 00	1	61	1.45	88.41

HISTOGRAM FOR COLUMN 11 (BE PPM.)

```
1.0E 00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1.5E 00 XXXXXXXXXXXXXXXXXXXXXXXXXXX

2.0E 00 XXXXXXXXXXXXXXXXX

3.0E 00 XXXX

5.0E 00

7.0E 00 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
3	5	0	0	0	0	61
4.35	7.25			0.0	0.0	

MAXIMUM = 7.00000E 00

MINIMUM = 1.00000E 00

GEOMETRIC MEAN = 1.41705E 00

GEOMETRIC DEVIATION = 1.46933E 00

FREQUENCY TABLE FOR COLUMN 11 (BE PPM.) *75 samples, granitic sources*

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3E-01 -	1.2E 00	6	6	8.00	8.00
1.2E 00 -	1.8E 00	15	21	20.00	28.00
1.8E 00 -	2.6E 00	10	31	13.33	41.33
2.6E 00 -	3.8E 00	17	48	22.67	64.00
3.8E 00 -	5.6E 00	10	58	13.33	77.33
5.6E 00 -	8.3E 00	5	63	6.67	84.00
8.3E 00 -	1.2E 01	3	66	4.00	88.00
1.2E 01 -	1.8E 01	3	69	4.00	92.00
1.8E 01 -	2.6E 01	0	69	0.0	92.00
2.6E 01 -	3.8E 01	0	69	0.0	92.00
3.8E 01 -	5.6E 01	0	69	0.0	92.00
5.6E 01 -	8.3E 01	1	70	1.33	93.33

HISTOGRAM FOR COLUMN 11 (BE PPM.)

```
1.0E 00 XXXXXXXX

1.5E 00 XXXXXXXXXXXXXXXXXXX

2.0E 00 XXXXXXXXXXXXX

3.0E 00 XXXXXXXXXXXXXXXXXXXXXX

5.0E 00 XXXXXXXXXXXXX

7.0E 00 XXXXXXX

1.0E 01 XXXX

1.5E 01 XXXX

2.0E 01

3.0E 01

5.0E 01

7.0E 01 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
1	4	0	0	0	0	70
1.33	5.33			0.0	0.0	

MAXIMUM = 7.00000E 01

MINIMUM = 1.00000E 00

GEOMETRIC MEAN = 2.99532E 00

GEOMETRIC DEVIATION = 2.22902E 00

FREQUENCY TABLE FOR COLUMN 13 (CO PPM.)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8E 00 -	5.6E 00	7	7	4.86	4.86
5.6E 00 -	8.3E 00	8	15	5.56	10.42
8.3E 00 -	1.2E 01	32	47	22.22	32.64
1.2E 01 -	1.8E 01	29	76	20.14	52.78
1.8E 01 -	2.6E 01	33	109	22.92	75.69
2.6E 01 -	3.8E 01	10	119	6.94	82.64
3.8E 01 -	5.6E 01	1	120	0.69	83.33

HISTOGRAM FOR COLUMN 13 (CO PPM.)

```
5.0E 00 XXXXX

7.0E 00 XXXXXX

1.0E 01 XXXXXXXXXXXXXXXXXXXXX

1.5E 01 XXXXXXXXXXXXXXXXXXX

2.0E 01 XXXXXXXXXXXXXXXXXXXXXXX

3.0E 01 XXXXXXX

5.0E 01 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
10	14	0	0	0	0	120
6.94	9.72			0.0	0.0	

MAXIMUM = 5.00000E 01

MINIMUM = 5.00000E 00

GEOMETRIC MEAN = 1.39004E 01

GEOMETRIC DEVIATION = 1.60520E 00

FREQUENCY TABLE FOR COLUMN 14 (CR PPM.)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8E 00 -	5.6E 00	0	0	0.0	0.0
5.6E 00 -	8.3E 00	0	0	0.0	0.0
8.3E 00 -	1.2E 01	11	11	7.64	7.64
1.2E 01 -	1.8E 01	5	16	3.47	11.11
1.8E 01 -	2.6E 01	2	18	1.39	12.50
2.6E 01 -	3.8E 01	22	40	15.28	27.78
3.8E 01 -	5.6E 01	16	56	11.11	38.89
5.6E 01 -	8.3E 01	42	98	29.17	68.06
8.3E 01 -	1.2E 02	13	111	9.03	77.08
1.2E 02 -	1.8E 02	28	139	19.44	96.53
1.8E 02 -	2.6E 02	2	141	1.39	97.92
2.6E 02 -	3.8E 02	1	142	0.69	98.61

HISTOGRAM FOR COLUMN 14 (CR PPM.)

```
1.0E 01 XXXXXXXX

1.5E 01 XXX

2.0E 01 X

3.0E 01 XXXXXXXXXXXXXX

5.0E 01 XXXXXXXXXXX

7.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXXX

1.0E 02 XXXXXXXXX

1.5E 02 XXXXXXXXXXXXXXXXXX

2.0E 02 X

3.0E 02 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	2	0	0	0	0	142
0.0	1.39			0.0	0.0	

MAXIMUM = 3.00000E 02

MINIMUM = 1.00000E 01

GEOMETRIC MEAN = 5.82438E 01

GEOMETRIC DEVIATION = 2.23994E 00

FREQUENCY TABLE FOR COLUMN 15 (CU PPM.) *144 samples*

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8E 00 -	5.6E 00	6	6	4.17	4.17
5.6E 00 -	8.3E 00	10	16	6.94	11.11
8.3E 00 -	1.2E 01	17	33	11.81	22.92
1.2E 01 -	1.8E 01	27	60	18.75	41.67
1.8E 01 -	2.6E 01	18	78	12.50	54.17
2.6E 01 -	3.8E 01	31	109	21.53	75.69
3.8E 01 -	5.6E 01	12	121	8.33	84.03
5.6E 01 -	8.3E 01	8	129	5.56	89.58
8.3E 01 -	1.2E 02	3	132	2.08	91.67
1.2E 02 -	1.8E 02	1	133	0.69	92.36

HISTOGRAM FOR COLUMN 15 (CU PPM.)

```
5.0E 00 XXXX

7.0E 00 XXXXXXX

1.0E 01 XXXXXXXXXXXX

1.5E 01 XXXXXXXXXXXXXXXXXXX

2.0E 01 XXXXXXXXXXXXX

3.0E 01 XXXXXXXXXXXXXXXXXXXXXX

5.0E 01 XXXXXXXX

7.0E 01 XXXXXX

1.0E 02 XX

1.5E 02 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	11	0	0	0	0	133
0.0	7.64			0.0	0.0	

MAXIMUM = 1.50000E 02

MINIMUM = 5.00000E 00

GEOMETRIC MEAN = 2.03123E 01

GEOMETRIC DEVIATION = 2.09813E 00

FREQUENCY TABLE FOR COLUMN 15 (CU PPM.) *69 samples, sed-metased sources*

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8E 00 -	5.6E 00	0	0	0.0	0.0
5.6E 00 -	8.3E 00	1	1	1.45	1.45
8.3E 00 -	1.2E 01	7	8	10.14	11.59
1.2E 01 -	1.8E 01	16	24	23.19	34.78
1.8E 01 -	2.6E 01	11	35	15.94	50.72
2.6E 01 -	3.8E 01	13	48	18.84	69.57
3.8E 01 -	5.6E 01	8	56	11.59	81.16
5.6E 01 -	8.3E 01	7	63	10.14	91.30
8.3E 01 -	1.2E 02	2	65	2.90	94.20

HISTOGRAM FOR COLUMN 15 (CU PPM.)

```
7.0E 00 X

1.0E 01 XXXXXXXXXX

1.5E 01 XXXXXXXXXXXXXXXXXXXXXX

2.0E 01 XXXXXXXXXXXXXXXX

3.0E 01 XXXXXXXXXXXXXXXXXXX

5.0E 01 XXXXXXXXXXXX

7.0E 01 XXXXXXXXXX

1.0E 02 XXX
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	4	0	0	0	0	65
0.0	5.80			0.0	0.0	

MAXIMUM = 1.00000E 02

MINIMUM = 7.00000E 00

GEOMETRIC MEAN = 2.48388E 01

GEOMETRIC DEVIATION = 1.93210E 00

FREQUENCY TABLE FOR COLUMN 15 (CU PPM.) *75 samples, granitic sources*

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8E 00 -	5.6E 00	6	6	8.00	8.00
5.6E 00 -	8.3E 00	9	15	12.00	20.00
8.3E 00 -	1.2E 01	10	25	13.33	33.33
1.2E 01 -	1.8E 01	11	36	14.67	48.00
1.8E 01 -	2.6E 01	7	43	9.33	57.33
2.6E 01 -	3.8E 01	18	61	24.00	81.33
3.8E 01 -	5.6E 01	4	65	5.33	86.67
5.6E 01 -	8.3E 01	1	66	1.33	88.00
8.3E 01 -	1.2E 02	1	67	1.33	89.33
1.2E 02 -	1.8E 02	1	68	1.33	90.67

HISTOGRAM FOR COLUMN 15 (CU PPM.)

```
5.0E 00 XXXXXXXX

7.0E 00 XXXXXXXXXXXX

1.0E 01 XXXXXXXXXXXXX

1.5E 01 XXXXXXXXXXXXXXX

2.0E 01 XXXXXXXXX

3.0E 01 XXXXXXXXXXXXXXXXXXXXXXX

5.0E 01 XXXXX

7.0E 01 X

1.0E 02 X

1.5E 02 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	7	0	0	0	0	68
0.0	9.33			0.0	0.0	

MAXIMUM = 1.50000E 02

MINIMUM = 5.00000E 00

GEOMETRIC MEAN = 1.67589E 01

GEOMETRIC DEVIATION = 2.15676E 00

FREQUENCY TABLE FOR COLUMN 16 (LA PPM.)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
1.8E 01 -	2.6E 01	31	31	21.53	21.53
2.6E 01 -	3.8E 01	30	61	20.83	42.36
3.8E 01 -	5.6E 01	33	94	22.92	65.28
5.6E 01 -	8.3E 01	12	106	8.33	73.61
8.3E 01 -	1.2E 02	7	113	4.86	78.47
1.2E 02 -	1.8E 02	3	116	2.08	80.56

HISTOGRAM FOR COLUMN 16 (LA PPM.)

```
2.0E 01 XXXXXXXXXXXXXXXXXXXXX

3.0E 01 XXXXXXXXXXXXXXXXXXXX

5.0E 01 XXXXXXXXXXXXXXXXXXXXXX

7.0E 01 XXXXXXXX

1.0E 02 XXXXX

1.5E 02 XX
```

N	L	H	B	T	G	ANALYTICAL VALUES
4	24	0	0	0	0	116
2.78	16.67			0.0	0.0	

MAXIMUM = 1.50000E 02

MINIMUM = 2.00000E 01

GEOMETRIC MEAN = 3.80946E 01

GEOMETRIC DEVIATION = 1.71729E 00

FREQUENCY TABLE FOR COLUMN 18 (NB PPM.)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3E 00 -	1.2E 01	68	68	47.22	47.22
1.2E 01 -	1.8E 01	39	107	27.08	74.31
1.8E 01 -	2.6E 01	10	117	6.94	81.25
2.6E 01 -	3.8E 01	5	122	3.47	84.72
3.8E 01 -	5.6E 01	0	122	0.0	84.72
5.6E 01 -	8.3E 01	0	122	0.0	84.72
8.3E 01 -	1.2E 02	0	122	0.0	84.72
1.2E 02 -	1.8E 02	1	123	0.69	85.42

HISTOGRAM FOR COLUMN 18 (NB PPM.)

```
1.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1.5E 01 XXXXXXXXXXXXXXXXXXXXXXXXXX

2.0E 01 XXXXXXX

3.0E 01 XXX

5.0E 01

7.0E 01

1.0E 02

1.5E 02 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	21	0	0	0	0	123
0.0	14.58			0.0	0.0	

MAXIMUM = 1.50000E 02

MINIMUM = 1.00000E 01

GEOMETRIC MEAN = 1.28604E 01

GEOMETRIC DEVIATION = 1.44939E 00

FREQUENCY TABLE FOR COLUMN 19 (NI PPM.)

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8E 00 -	5.6E 00	6	6	4.17	4.17
5.6E 00 -	8.3E 00	1	7	0.69	4.86
8.3E 00 -	1.2E 01	5	12	3.47	8.33
1.2E 01 -	1.8E 01	10	22	6.94	15.28
1.8E 01 -	2.6E 01	7	29	4.86	20.14
2.6E 01 -	3.8E 01	57	86	39.58	59.72
3.8E 01 -	5.6E 01	26	112	18.06	77.78
5.6E 01 -	8.3E 01	18	130	12.50	90.28
8.3E 01 -	1.2E 02	9	139	6.25	96.53
1.2E 02 -	1.8E 02	4	143	2.78	99.31

HISTOGRAM FOR COLUMN 19 (NI PPM.)

```
5.0E 00 XXXX

7.0E 00 X

1.0E 01 XXX

1.5E 01 XXXXXXX

2.0E 01 XXXXX

3.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

5.0E 01 XXXXXXXXXXXXXXXXXX

7.0E 01 XXXXXXXXXXXXX

1.0E 02 XXXXXX

1.5E 02 XXX
```

N	L	H	B	T	G	ANALYTICAL VALUES
1	0	0	0	0	0	143
0.69	0.0			0.0	0.0	

MAXIMUM = 1.50000E 02

MINIMUM = 5.00000E 00

GEOMETRIC MEAN = 3.41040E 01

GEOMETRIC DEVIATION = 2.05974E 00

FREQUENCY TABLE FOR COLUMN 20 (PB PPM.) *144 samples*

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3E 00 -	1.2E 01	15	15	10.42	10.42
1.2E 01 -	1.8E 01	25	40	17.36	27.78
1.8E 01 -	2.6E 01	24	64	16.67	44.44
2.6E 01 -	3.8E 01	34	98	23.61	68.06
3.8E 01 -	5.6E 01	5	103	3.47	71.53
5.6E 01 -	8.3E 01	13	116	9.03	80.56
8.3E 01 -	1.2E 02	5	121	3.47	84.03
1.2E 02 -	1.8E 02	12	133	8.33	92.36
1.8E 02 -	2.6E 02	1	134	0.69	93.06
2.6E 02 -	3.8E 02	3	137	2.08	95.14
3.8E 02 -	5.6E 02	2	139	1.39	96.53

HISTOGRAM FOR COLUMN 20 (PB PPM.)

```
1.0E 01 XXXXXXXXXX

1.5E 01 XXXXXXXXXXXXXXXXX

2.0E 01 XXXXXXXXXXXXXXXXX

3.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXX

5.0E 01 XXX

7.0E 01 XXXXXXXXX

1.0E 02 XXX

1.5E 02 XXXXXXXX

2.0E 02 X

3.0E 02 XX

5.0E 02 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	5	0	0	0	0	139
0.0	3.47			0.0	0.0	

MAXIMUM = 5.00000E 02

MINIMUM = 1.00000E 01

GEOMETRIC MEAN = 3.21897E 01

GEOMETRIC DEVIATION = 2.51793E 00

FREQUENCY TABLE FOR COLUMN 20 (PB PPM.) 69 samples, sed-metased. sources

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3E 00 -	1.2E 01	13	13	18.84	18.84
1.2E 01 -	1.8E 01	16	29	23.19	42.03
1.8E 01 -	2.6E 01	16	45	23.19	65.22
2.6E 01 -	3.8E 01	18	63	26.09	91.30
3.8E 01 -	5.6E 01	0	63	0.0	91.30
5.6E 01 -	8.3E 01	1	64	1.45	92.75
8.3E 01 -	1.2E 02	0	64	0.0	92.75
1.2E 02 -	1.8E 02	1	65	1.45	94.20

HISTOGRAM FOR COLUMN 20 (PB PPM.)

```
1.0E 01 XXXXXXXXXXXXXXXXXX

1.5E 01 XXXXXXXXXXXXXXXXXXXXXX

2.0E 01 XXXXXXXXXXXXXXXXXXXXXX

3.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXXX

5.0E 01

7.0E 01 X

1.0E 02

1.5E 02 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	4	0	0	0	0	65
0.0	5.80			0.0	0.0	

MAXIMUM = 1.50000E 02

MINIMUM = 1.00000E 01

GEOMETRIC MEAN = 1.90835E 01

GEOMETRIC DEVIATION = 1.64921E 00

FREQUENCY TABLE FOR COLUMN 20 (PB PPM.) 75 samples, granitic sources

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3E 00 -	1.2E 01	2	2	2.67	2.67
1.2E 01 -	1.8E 01	9	11	12.00	14.67
1.8E 01 -	2.6E 01	8	19	10.67	25.33
2.6E 01 -	3.8E 01	16	35	21.33	46.67
3.8E 01 -	5.6E 01	5	40	6.67	53.33
5.6E 01 -	8.3E 01	12	52	16.00	69.33
8.3E 01 -	1.2E 02	5	57	6.67	76.00
1.2E 02 -	1.8E 02	11	68	14.67	90.67
1.8E 02 -	2.6E 02	1	69	1.33	92.00
2.6E 02 -	3.8E 02	3	72	4.00	96.00
3.8E 02 -	5.6E 02	2	74	2.67	98.67

HISTOGRAM FOR COLUMN 20 (PB PPM.)

```
1.0E 01 XXX

1.5E 01 XXXXXXXXXXXX

2.0E 01 XXXXXXXXXXX

3.0E 01 XXXXXXXXXXXXXXXXXXXX

5.0E 01 XXXXXXX

7.0E 01 XXXXXXXXXXXXXXXX

1.0E 02 XXXXXXX

1.5E 02 XXXXXXXXXXXXXXX

2.0E 02 X

3.0E 02 XXXX

5.0E 02 XXX
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	1	0	0	0	0	74
0.0	1.33			0.0	0.0	

MAXIMUM = 5.00000E 02

MINIMUM = 1.00000E 01

GEOMETRIC MEAN = 5.09519E 01

GEOMETRIC DEVIATION = 2.63059E 00

* FREQUENCY TABLE FOR COLUMN 21 (SB PPM.)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8E-01 -	5.6E-01	0	0	0.0	0.0
5.6E-01 -	8.3E-01	0	0	0.0	0.0
8.3E-01 -	1.2E 00	38	38	30.40	30.40
1.2E 00 -	1.8E 00	0	38	0.0	30.40
1.8E 00 -	2.6E 00	31	69	24.80	55.20
2.6E 00 -	3.8E 00	16	85	12.80	68.00
3.8E 00 -	5.6E 00	7	92	5.60	73.60
5.6E 00 -	8.3E 00	3	95	2.40	76.00

HISTOGRAM FOR COLUMN 21 (SB PPM.)

```
1.0E 00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1.5E 00

2.0E 00 XXXXXXXXXXXXXXXXXXXXXXXXX

3.0E 00 XXXXXXXXXXXXX

5.0E 00 XXXXXX

7.0E 00 XX
```

N	L	H	B	T	G	ANALYTICAL VALUES
1	29	0	19	0	0	95
0.80	23.20			0.0	0.0	

MAXIMUM = 6.00000E 00

MINIMUM = 1.00000E 00

GEOMETRIC MEAN = 1.76816E 00

GEOMETRIC DEVIATION = 1.69936E 00

* Analytical values for antimony are by the colorimetric method and were reported as whole numbers only. Consequently, the value 1.5 ppm does not exist in the data, and the histogram appears to be bimodal when the values are recast into the six-step scale.

FREQUENCY TABLE FOR COLUMN 22 (SC PPM.)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
3.8E 00 -	5.6E 00	15	15	10.42	10.42
5.6E 00 -	8.3E 00	28	43	19.44	29.86
8.3E 00 -	1.2E 01	29	72	20.14	50.00
1.2E 01 -	1.8E 01	52	124	36.11	86.11
1.8E 01 -	2.6E 01	5	129	3.47	89.58

HISTOGRAM FOR COLUMN 22 (SC PPM.)

```
5.0E 00 XXXXXXXXXX

7.0E 00 XXXXXXXXXXXXXXXXXXX

1.0E 01 XXXXXXXXXXXXXXXXXXXX

1.5E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

2.0E 01 XXX
```

N	L	H	B	T	G	ANALYTICAL VALUES
3	12	0	0	0	0	129
2.08	8.33			0.0	0.0	

MAXIMUM = 2.00000E 01

MINIMUM = 5.00000E 00

GEOMETRIC MEAN = 1.03280E 01

GEOMETRIC DEVIATION = 1.50786E 00

FREQUENCY TABLE FOR COLUMN 23 (SN PPM.) *144 samples*

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3E 00 -	1.2E 01	7	7	4.86	4.86
1.2E 01 -	1.8E 01	11	18	7.64	12.50
1.8E 01 -	2.6E 01	1	19	0.69	13.19
2.6E 01 -	3.8E 01	7	26	4.86	18.06
3.8E 01 -	5.6E 01	0	26	0.0	18.06
5.6E 01 -	8.3E 01	3	29	2.08	20.14
8.3E 01 -	1.2E 02	0	29	0.0	20.14
1.2E 02 -	1.8E 02	0	29	0.0	20.14
1.8E 02 -	2.6E 02	0	29	0.0	20.14
2.6E 02 -	3.8E 02	1	30	0.69	20.83

HISTOGRAM FOR COLUMN 23 (SN PPM.)

```
1.0E 01 XXXXX

1.5E 01 XXXXXXXX

2.0E 01 X

3.0E 01 XXXXX

5.0E 01

7.0E 01 XX

1.0E 02

1.5E 02

2.0E 02

3.0E 02 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
102	12	0	0	0	0	30
70.83	8.33			0.0	0.0	

MAXIMUM = 3.00000E 02

MINIMUM = 1.00000E 01

GEOMETRIC MEAN = 2.08771E 01

GEOMETRIC DEVIATION = 2.17029E 00

FREQUENCY TABLE FOR COLUMN 23 (SN PPM.) *69 samples, sed.-metased. sources*

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3E 00 -	1.2E 01	0	0	0.0	0.0
1.2E 01 -	1.8E 01	0	0	0.0	0.0
1.8E 01 -	2.6E 01	0	0	0.0	0.0
2.6E 01 -	3.8E 01	0	0	0.0	0.0
3.8E 01 -	5.6E 01	0	0	0.0	0.0
5.6E 01 -	8.3E 01	1	1	1.45	1.45

HISTOGRAM FOR COLUMN 23 (SN PPM.)

7.0E 01 X

N	L	H	B	T	G	ANALYTICAL VALUES
68	0	0	0	0	0	1
98.55	0.0			0.0	0.0	

MAXIMUM = 7.00000E 01

MINIMUM = 7.00000E 01

GEOMETRIC MEAN = 6.99999E 01

GEOMETRIC DEVIATION = 9.99900E 48

FREQUENCY TABLE FOR COLUMN 23 (SN PPM.) *75 samples, granitic sources*

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3E 00 -	1.2E 01	7	7	9.33	9.33
1.2E 01 -	1.8E 01	11	18	14.67	24.00
1.8E 01 -	2.6E 01	1	19	1.33	25.33
2.6E 01 -	3.8E 01	7	26	9.33	34.67
3.8E 01 -	5.6E 01	0	26	0.0	34.67
5.6E 01 -	8.3E 01	2	28	2.67	37.33
8.3E 01 -	1.2E 02	0	28	0.0	37.33
1.2E 02 -	1.8E 02	0	28	0.0	37.33
1.8E 02 -	2.6E 02	0	28	0.0	37.33
2.6E 02 -	3.8E 02	1	29	1.33	38.67

HISTOGRAM FOR COLUMN 23 (SN PPM.)

```
1.0E 01 XXXXXXXXX

1.5E 01 XXXXXXXXXXXXXXX

2.0E 01 X

3.0E 01 XXXXXXXXX

5.0E 01

7.0E 01 XXX

1.0E 02

1.5E 02

2.0E 02

3.0E 02 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
34	12	0	0	0	0	29
45.33	16.00			0.0	0.0	

MAXIMUM = 3.00000E 02

MINIMUM = 1.00000E 01

GEOMETRIC MEAN = 2.00241E 01

GEOMETRIC DEVIATION = 2.12444E 00

FREQUENCY TABLE FOR COLUMN 24 (SR PPM.)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3E 01 -	1.2E 02	44	44	30.56	30.56
1.2E 02 -	1.8E 02	18	62	12.50	43.06
1.8E 02 -	2.6E 02	4	66	2.78	45.83
2.6E 02 -	3.8E 02	9	75	6.25	52.08
3.8E 02 -	5.6E 02	2	77	1.39	53.47
5.6E 02 -	8.3E 02	2	79	1.39	54.86

HISTOGRAM FOR COLUMN 24 (SR PPM.)

```
1.0E 02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1.5E 02 XXXXXXXXXXXXX

2.0E 02 XXX

3.0E 02 XXXXXX

5.0E 02 X

7.0E 02 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
1	64	0	0	0	0	79
0.69	44.44			0.0	0.0	

MAXIMUM = 7.00000E 02

MINIMUM = 1.00000E 02

GEOMETRIC MEAN = 1.40866E 02

GEOMETRIC DEVIATION = 1.64283E 00

FREQUENCY TABLE FOR COLUMN 25 (V PPM.)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3E 00 -	1.2E 01	0	0	0.0	0.0
1.2E 01 -	1.8E 01	3	3	2.08	2.08
1.8E 01 -	2.6E 01	9	12	6.25	8.33
2.6E 01 -	3.8E 01	23	35	15.97	24.31
3.8E 01 -	5.6E 01	19	54	13.19	37.50
5.6E 01 -	8.3E 01	23	77	15.97	53.47
8.3E 01 -	1.2E 02	19	96	13.19	66.67
1.2E 02 -	1.8E 02	31	127	21.53	88.19
1.8E 02 -	2.6E 02	15	142	10.42	98.61
2.6E 02 -	3.8E 02	2	144	1.39	100.00

HISTOGRAM FOR COLUMN 25 (V PPM.)

```
1.5E 01 XX

2.0E 01 XXXXXX

3.0E 01 XXXXXXXXXXXXXXX

5.0E 01 XXXXXXXXXXXXX

7.0E 01 XXXXXXXXXXXXXXX

1.0E 02 XXXXXXXXXXXXX

1.5E 02 XXXXXXXXXXXXXXXXXXXXX

2.0E 02 XXXXXXXXXX

3.0E 02 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	0	0	0	0	0	144
0.0	0.0			0.0	0.0	

MAXIMUM = 3.00000E 02

MINIMUM = 1.50000E 01

GEOMETRIC MEAN = 7.36303E 01

GEOMETRIC DEVIATION = 2.11997E 00

FREQUENCY TABLE FOR COLUMN 27 (Y PPM.)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3E 00 -	1.2E 01	12	12	8.33	8.33
1.2E 01 -	1.8E 01	37	49	25.69	34.03
1.8E 01 -	2.6E 01	42	91	29.17	63.19
2.6E 01 -	3.8E 01	28	119	19.44	82.64
3.8E 01 -	5.6E 01	11	130	7.64	90.28
5.6E 01 -	8.3E 01	10	140	6.94	97.22
8.3E 01 -	1.2E 02	1	141	0.69	97.92
1.2E 02 -	1.8E 02	1	142	0.69	98.61
1.8E 02 -	2.6E 02	1	143	0.69	99.31

HISTOGRAM FOR COLUMN 27 (Y PPM.)

```
1.0E 01 XXXXXXXX

1.5E 01 XXXXXXXXXXXXXXXXXXXXXXXXX

2.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

3.0E 01 XXXXXXXXXXXXXXXXXX

5.0E 01 XXXXXXXX

7.0E 01 XXXXXXX

1.0E 02 X

1.5E 02 X

2.0E 02 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	0	0	0	0	1	143
0.0	0.0			0.0	0.69	

MAXIMUM = 2.00000E 02

MINIMUM = 1.00000E 01

GEOMETRIC MEAN = 2.31511E 01

GEOMETRIC DEVIATION = 1.78045E 00

FREQUENCY TABLE FOR COLUMN 29 (ZR PPM.)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3E 00 -	1.2E 01	0	0	0.0	0.0
1.2E 01 -	1.8E 01	0	0	0.0	0.0
1.8E 01 -	2.6E 01	1	1	0.69	0.69
2.6E 01 -	3.8E 01	1	2	0.69	1.39
3.8E 01 -	5.6E 01	1	3	0.69	2.08
5.6E 01 -	8.3E 01	21	24	14.58	16.67
8.3E 01 -	1.2E 02	16	40	11.11	27.78
1.2E 02 -	1.8E 02	14	54	9.72	37.50
1.8E 02 -	2.6E 02	21	75	14.58	52.08
2.6E 02 -	3.8E 02	35	110	24.31	76.39
3.8E 02 -	5.6E 02	16	126	11.11	87.50
5.6E 02 -	8.3E 02	6	132	4.17	91.67
8.3E 02 -	1.2E 03	10	142	6.94	98.61

HISTOGRAM FOR COLUMN 29 (ZR PPM.)

```
2.0E 01 X

3.0E 01 X

5.0E 01 X

7.0E 01 XXXXXXXXXXXXXXX

1.0E 02 XXXXXXXXXXX

1.5E 02 XXXXXXXXXX

2.0E 02 XXXXXXXXXXXXXXX

3.0E 02 XXXXXXXXXXXXXXXXXXXXXXXX

5.0E 02 XXXXXXXXXXX

7.0E 02 XXXX

1.0E 03 XXXXXXX
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	0	0	0	0	2	142
0.0	0.0			0.0	1.39	

MAXIMUM = 1.00000E 03

MINIMUM = 2.00000E 01

GEOMETRIC MEAN = 2.14147E 02

GEOMETRIC DEVIATION = 2.28909E 00

FREQUENCY TABLE FOR COLUMN 28 (ZN PPM.) *144 samples*

LIMITS LOWER - UPPER		FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
2.1E 01 -	3.0E 01	22	22	15.38	15.38
3.0E 01 -	4.4E 01	27	49	18.88	34.27
4.4E 01 -	6.5E 01	37	86	25.87	60.14
6.5E 01 -	9.6E 01	25	111	17.48	77.62
9.6E 01 -	1.4E 02	6	117	4.20	81.82
1.4E 02 -	2.1E 02	4	121	2.80	84.62
2.1E 02 -	3.0E 02	1	122	0.70	85.31
3.0E 02 -	4.4E 02	1	123	0.70	86.01

HISTOGRAM FOR COLUMN 28 (ZN PPM.)

```
2.5E 01 XXXXXXXXXXXXXX

3.7E 01 XXXXXXXXXXXXXXXXXX

5.4E 01 XXXXXXXXXXXXXXXXXXXXXXXXX

7.9E 01 XXXXXXXXXXXXXXXXX

1.2E 02 XXXX

1.7E 02 XXX

2.5E 02 X

3.7E 02 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
1	19	0	1	0	0	123
0.70	13.29			0.0	0.0	

MAXIMUM = 4.00000E 02

MINIMUM = 2.50000E 01

GEOMETRIC MEAN = 5.30502E 01

GEOMETRIC DEVIATION = 1.65615E 00

FREQUENCY TABLE FOR COLUMN 28 (ZN PPM.) *69 samples, sed-metased. sources*

LIMITS LOWER - UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
2.1E 01 - 3.0E 01	8	8	11.76	11.76
3.0E 01 - 4.4E 01	14	22	20.59	32.35
4.4E 01 - 6.5E 01	20	42	29.41	61.76
6.5E 01 - 9.6E 01	15	57	22.06	83.82
9.6E 01 - 1.4E 02	2	59	2.94	86.76
1.4E 02 - 2.1E 02	1	60	1.47	88.24

HISTOGRAM FOR COLUMN 28 (ZN PPM.)

```
2.5E 01 XXXXXXXXXXXX

3.7E 01 XXXXXXXXXXXXXXXXXXXX

5.4E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXXX

7.9E 01 XXXXXXXXXXXXXXXXXXXXX

1.2E 02 XXX

1.7E 02 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	8	0	1	0	0	60
0.0	11.76			0.0	0.0	

MAXIMUM = 1.60000E 02

MINIMUM = 2.50000E 01

GEOMETRIC MEAN = 5.11490E 01

GEOMETRIC DEVIATION = 1.48741E 00

FREQUENCY TABLE FOR COLUMN 28 (ZN PPM.) *75 samples, granitic sources*

LIMITS LOWER - UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
2.1E 01 - 3.0E 01	14	14	18.67	18.67
3.0E 01 - 4.4E 01	13	27	17.33	36.00
4.4E 01 - 6.5E 01	17	44	22.67	58.67
6.5E 01 - 9.6E 01	10	54	13.33	72.00
9.6E 01 - 1.4E 02	4	58	5.33	77.33
1.4E 02 - 2.1E 02	3	61	4.00	81.33
2.1E 02 - 3.0E 02	1	62	1.33	82.67
3.0E 02 - 4.4E 02	1	63	1.33	84.00

HISTOGRAM FOR COLUMN 28 (ZN PPM.)

```
2.5E 01 XXXXXXXXXXXXXXXXXXX

3.7E 01 XXXXXXXXXXXXXXXXX

5.4E 01 XXXXXXXXXXXXXXXXXXXXXXXX

7.9E 01 XXXXXXXXXXXXX

1.2E 02 XXXXX

1.7E 02 XXXX

2.5E 02 X

3.7E 02 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
1	11	0	0	0	0	63
1.33	14.67			0.0	0.0	

MAXIMUM = 4.00000E 02

MINIMUM = 2.50000E 01

GEOMETRIC MEAN = 5.49267E 01

GEOMETRIC DEVIATION = 1.80484E 00

FREQUENCY TABLE FOR COLUMN 30 (HG PPM.)

LIMITS LOWER	- UPPER	FREQ	FREQ CUM	PERCENT FREQ	PERCENT FREQ CUM
8.3E-03 -	1.2E-02	9	9	6.29	6.29
1.2E-02 -	1.8E-02	0	9	0.0	6.29
1.8E-02 -	2.6E-02	19	28	13.29	19.58
2.6E-02 -	3.8E-02	15	43	10.49	30.07
3.8E-02 -	5.6E-02	13	56	9.09	39.16
5.6E-02 -	8.3E-02	15	71	10.49	49.65
8.3E-02 -	1.2E-01	13	84	9.09	58.74
1.2E-01 -	1.8E-01	6	90	4.20	62.94
1.8E-01 -	2.6E-01	9	99	6.29	69.23
2.6E-01 -	3.8E-01	2	101	1.40	70.63
3.8E-01 -	5.6E-01	2	103	1.40	72.03
5.6E-01 -	8.3E-01	0	103	0.0	72.03
8.3E-01 -	1.2E 00	0	103	0.0	72.03
1.2E 00 -	1.8E 00	1	104	0.70	72.73

HISTOGRAM FOR COLUMN 30 (HG PPM.)

```
1.0E-02 XXXXXX

1.5E-02

2.0E-02 XXXXXXXXXXXXX

3.0E-02 XXXXXXXXXX

5.0E-02 XXXXXXXXX

7.0E-02 XXXXXXXXXX

1.0E-01 XXXXXXXXX

1.5E-01 XXXX

2.0E-01 XXXXXX

3.0E-01 X

5.0E-01 X

7.0E-01

1.0E 00

1.5E 00 X
```

N	L	H	B	T	G	ANALYTICAL VALUES
0	39	0	1	0	0	104
0.0	27.27			0.0	0.0	

MAXIMUM = 1.30000E 00

MINIMUM = 1.00000E-02 GEOMETRIC DEVIATION = 2.74297E 00

GEOMETRIC MEAN = 5.18910E-02

Table 3

A470 STATISTICAL SUMMARY 144 samples DATE 4/30/70

ELEMENT	N	L	H	B	T	G	ANALYTICAL VALUES
FE PCT.	0	0	0	0	0	0	144
MG PCT.	0	0	0	0	0	0	144
CA PCT.	0	3	0	0	0	0	141
TI PCT.	0	0	0	0	0	0	144
MN PPM.	0	0	0	0	0	0	144
AG PPM.	126	17	0	0	0	0	1
AS PPM.	4	22	0	0	0	0	118
AU PPM.	0	139	0	1	0	0	4
B PPM.	0	0	0	0	0	0	144
BA PPM.	0	1	0	0	0	0	143
BE PPM.	4	9	0	0	0	0	131
BI PPM.	135	8	0	0	0	0	1
CO PPM.	10	14	0	0	0	0	120
CR PPM.	0	2	0	0	0	0	142
CU PPM.	0	11	0	0	0	0	133
LA PPM.	4	24	0	0	0	0	116
MO PPM.	64	74	0	0	0	0	6
NB PPM.	0	21	0	0	0	0	123
NI PPM.	1	0	0	0	0	0	143
PB PPM.	0	5	0	0	0	0	139
SB PPM.	1	29	0	19	0	0	95
SC PPM.	3	12	0	0	0	0	129
SN PPM.	102	12	0	0	0	0	30
SR PPM.	1	64	0	0	0	0	79
V PPM.	0	0	0	0	0	0	144
W PPM.	132	9	0	0	0	0	3
Y PPM.	0	0	0	0	0	1	143
ZN PPM.	1	19	0	1	0	0	123
ZR PPM.	0	0	0	0	0	2	142
HG PPM.	0	39	0	1	0	0	104

ELEMENT	GEOMETRIC MEAN	GEOMETRIC DEVIATION	REMARKS
FE PCT.	3.417728	1.62	144 SAMPLES AND 144 ANALYTICAL VALUES.
MG PCT.	0.898700	1.80	144 SAMPLES AND 144 ANALYTICAL VALUES.
CA PCT.	0.566757	5.59	3 NOT DETECTED, LESS THAN, OR TRACE VALUES. 141 REPORTED VALUES.
TI PCT.	0.428589	1.77	144 SAMPLES AND 144 ANALYTICAL VALUES.
MN PPM.	410.647705	2.06	144 SAMPLES AND 144 ANALYTICAL VALUES.
AG PPM.	********	******	143 NOT DETECTED, LESS THAN, OR TRACE VALUES. 1 REPORTED VALUES. NO COMPUTATIONS.
AS PPM.	6.684425	9.67	26 NOT DETECTED, LESS THAN, OR TRACE VALUES. 118 REPORTED VALUES.
AU PPM.	********	******	139 NOT DETECTED, LESS THAN, OR TRACE VALUES. 4 REPORTED VALUES. NO COMPUTATIONS.
B PPM.	62.821411	1.67	144 SAMPLES AND 144 ANALYTICAL VALUES.
BA PPM.	348.340332	2.03	1 NOT DETECTED, LESS THAN, OR TRACE VALUES. 143 REPORTED VALUES.
BE PPM.	1.868158	2.26	13 NOT DETECTED, LESS THAN, OR TRACE VALUES. 131 REPORTED VALUES.
BI PPM.	********	******	143 NOT DETECTED, LESS THAN, OR TRACE VALUES. 1 REPORTED VALUES. NO COMPUTATIONS.
CO PPM.	10.565083	2.14	24 NOT DETECTED, LESS THAN, OR TRACE VALUES. 120 REPORTED VALUES.
CR PPM.	55.891846	2.39	2 NOT DETECTED, LESS THAN, OR TRACE VALUES. 142 REPORTED VALUES.
CU PPM.	17.381454	2.46	11 NOT DETECTED, LESS THAN, OR TRACE VALUES. 133 REPORTED VALUES.
LA PPM.	30.459793	1.97	28 NOT DETECTED, LESS THAN, OR TRACE VALUES. 116 REPORTED VALUES.
MO PPM.	********	******	138 NOT DETECTED, LESS THAN, OR TRACE VALUES. 6 REPORTED VALUES. NO COMPUTATIONS.
NB PPM.	11.636574	1.53	21 NOT DETECTED, LESS THAN, OR TRACE VALUES. 123 REPORTED VALUES.
NI PPM.	33.538223	2.11	1 NOT DETECTED, LESS THAN, OR TRACE VALUES. 143 REPORTED VALUES.
PB PPM.	30.227921	2.63	5 NOT DETECTED, LESS THAN, OR TRACE VALUES. 139 REPORTED VALUES.
SB PPM.	1.077336	2.77	30 NOT DETECTED, LESS THAN, OR TRACE VALUES. 95 REPORTED VALUES.
SC PPM.	9.091260	1.72	15 NOT DETECTED, LESS THAN, OR TRACE VALUES. 129 REPORTED VALUES.

SN PPM.	2.148636	5.19	114	NOT DETECTED, LESS THAN, OR TRACE VALUES.	30 REPORTED VALUES.
SR PPM.	86.178757	2.04	65	NOT DETECTED, LESS THAN, OR TRACE VALUES.	79 REPORTED VALUES.
V PPM.	73.629761	2.12	144	SAMPLES AND 144 ANALYTICAL VALUES.	
W PPM.	********	******	141	NOT DETECTED, LESS THAN, OR TRACE VALUES.	3 REPORTED VALUES. NO COMPUTATIONS.
Y PPM.	********	******	1	GREATER THAN VALUES. NO COMPUTATIONS.	
ZN PPM.	44.444016	1.91	20	NOT DETECTED, LESS THAN, OR TRACE VALUES.	123 REPORTED VALUES.
ZR PPM.	********	******	2	GREATER THAN VALUES. NO COMPUTATIONS.	
HG PPM.	0.024454	4.71	39	NOT DETECTED, LESS THAN, OR TRACE VALUES.	104 REPORTED VALUES.

A470 STATISTICAL SUMMARY *75 samples, granitic sources* DATE 4/29/70

ELEMENT	N	L	H	B	T	G	ANALYTICAL VALUES
FE PCT.	0	0	0	0	0	0	75
MG PCT.	0	0	0	0	0	0	75
CA PCT.	0	1	0	0	0	0	74
TI PCT.	0	0	0	0	0	0	75
MN PPM.	0	0	0	0	0	0	75
AG PPM.	60	14	0	0	0	0	1
AS PPM.	3	8	0	0	0	0	64
AU PPM.	0	72	0	0	0	0	3
B PPM.	0	0	0	0	0	0	75
BA PPM.	0	1	0	0	0	0	74
BE PPM.	1	4	0	0	0	0	70
BI PPM.	67	7	0	0	0	0	1
CO PPM.	7	13	0	0	0	0	55
CR PPM.	0	2	0	0	0	0	73
CU PPM.	0	7	0	0	0	0	68
LA PPM.	2	10	0	0	0	0	63
MO PPM.	39	32	0	0	0	0	4
NB PPM.	0	9	0	0	0	0	66
NI PPM.	1	0	0	0	0	0	74
PB PPM.	0	1	0	0	0	0	74
SB PPM.	1	16	0	15	0	0	43
SC PPM.	3	10	0	0	0	0	62
SN PPM.	34	12	0	0	0	0	29
SR PPM.	0	38	0	0	0	0	37
V PPM.	0	0	0	0	0	0	75
W PPM.	63	9	0	0	0	0	3
Y PPM.	0	0	0	0	0	1	74
ZN PPM.	1	11	0	0	0	0	63
ZR PPM.	0	0	0	0	0	2	73
HG PPM.	0	32	0	1	0	0	42

ELEMENT	GEOMETRIC MEAN	GEOMETRIC DEVIATION	REMARKS
FE PCT.	2.910528	1.64	75 SAMPLES AND 75 ANALYTICAL VALUES.
MG PCT.	0.803721	1.94	75 SAMPLES AND 75 ANALYTICAL VALUES.
CA PCT.	0.602450	4.88	1 NOT DETECTED, LESS THAN, OR TRACE VALUES. 74 REPORTED VALUES.
TI PCT.	0.385277	1.82	75 SAMPLES AND 75 ANALYTICAL VALUES.
MN PPM.	475.055664	1.90	75 SAMPLES AND 75 ANALYTICAL VALUES.
AG PPM.	********	******	74 NOT DETECTED, LESS THAN, OR TRACE VALUES. 1 REPORTED VALUES. NO COMPUTATIONS.
AS PPM.	10.495938	8.65	11 NOT DETECTED, LESS THAN, OR TRACE VALUES. 64 REPORTED VALUES.
AU PPM.	********	******	72 NOT DETECTED, LESS THAN, OR TRACE VALUES. 3 REPORTED VALUES. NO COMPUTATIONS.
B PPM.	61.225800	1.73	75 SAMPLES AND 75 ANALYTICAL VALUES.
BA PPM.	271.749756	2.15	1 NOT DETECTED, LESS THAN, OR TRACE VALUES. 74 REPORTED VALUES.
BE PPM.	2.673758	2.43	5 NOT DETECTED, LESS THAN, OR TRACE VALUES. 70 REPORTED VALUES.
BI PPM.	********	******	74 NOT DETECTED, LESS THAN, OR TRACE VALUES. 1 REPORTED VALUES. NO COMPUTATIONS.
CO PPM.	8.527353	2.49	20 NOT DETECTED, LESS THAN, OR TRACE VALUES. 55 REPORTED VALUES.
CR PPM.	38.469437	2.61	2 NOT DETECTED, LESS THAN, OR TRACE VALUES. 73 REPORTED VALUES.
CU PPM.	14.043765	2.52	7 NOT DETECTED, LESS THAN, OR TRACE VALUES. 68 REPORTED VALUES.
LA PPM.	37.133881	2.02	12 NOT DETECTED, LESS THAN, OR TRACE VALUES. 63 REPORTED VALUES.
MO PPM.	********	******	71 NOT DETECTED, LESS THAN, OR TRACE VALUES. 4 REPORTED VALUES. NO COMPUTATIONS.
NB PPM.	12.952538	1.64	9 NOT DETECTED, LESS THAN, OR TRACE VALUES. 66 REPORTED VALUES.
NI PPM.	24.559540	2.20	1 NOT DETECTED, LESS THAN, OR TRACE VALUES. 74 REPORTED VALUES.
PB PPM.	49.467300	2.70	1 NOT DETECTED, LESS THAN, OR TRACE VALUES. 74 REPORTED VALUES.
SB PPM.	0.912867	2.78	17 NOT DETECTED, LESS THAN, OR TRACE VALUES. 43 REPORTED VALUES.
SC PPM.	7.543902	1.80	13 NOT DETECTED, LESS THAN, OR TRACE VALUES. 62 REPORTED VALUES.

SN PPM.	5.572289	3.69	46 NOT DETECTED, LESS THAN, OR TRACE VALUES.	29 REPORTED VALUES.
SR PPM.	78.367493	2.12	38 NOT DETECTED, LESS THAN, OR TRACE VALUES.	37 REPORTED VALUES.
V PPM.	52.260590	2.04	75 SAMPLES AND 75 ANALYTICAL VALUES.	
W PPM.	********	******	72 NOT DETECTED, LESS THAN, OR TRACE VALUES.	3 REPORTED VALUES. NO COMPUTATIONS.
Y PPM.	********	******	1 GREATER THAN VALUES. NO COMPUTATIONS.	
ZN PPM.	44.084579	2.12	12 NOT DETECTED, LESS THAN, OR TRACE VALUES.	63 REPORTED VALUES.
ZR PPM.	********	******	2 GREATER THAN VALUES. NO COMPUTATIONS.	
HG PPM.	0.011506	6.66	32 NOT DETECTED, LESS THAN, OR TRACE VALUES.	42 REPORTED VALUES.

A470 STATISTICAL SUMMARY 69 samples, sedimentary and metasedimentary sources DATE 4/29/70

ELEMENT	N	L	H	B	T	G	ANALYTICAL VALUES
FE PCT.	0	0	0	0	0	0	69
MG PCT.	0	0	0	0	0	0	69
CA PCT.	0	2	0	0	0	0	67
TI PCT.	0	0	0	0	0	0	69
MN PPM.	0	0	0	0	0	0	69
AG PPM.	66	3	0	0	0	0	0
AS PPM.	1	14	0	0	0	0	54
AU PPM.	0	67	0	1	0	0	1
B PPM.	0	0	0	0	0	0	69
BA PPM.	0	0	0	0	0	0	69
BE PPM.	3	5	0	0	0	0	61
BI PPM.	68	1	0	0	0	0	0
CO PPM.	3	1	0	0	0	0	65
CR PPM.	0	0	0	0	0	0	69
CU PPM.	0	4	0	0	0	0	65
LA PPM.	2	14	0	0	0	0	53
MO PPM.	25	42	0	0	0	0	2
NB PPM.	0	12	0	0	0	0	57
NI PPM.	0	0	0	0	0	0	69
PB PPM.	0	4	0	0	0	0	65
SB PPM.	0	13	0	4	0	0	52
SC PPM.	0	2	0	0	0	0	67
SN PPM.	68	0	0	0	0	0	1
SR PPM.	1	26	0	0	0	0	42
V PPM.	0	0	0	0	0	0	69
W PPM.	69	0	0	0	0	0	0
Y PPM.	0	0	0	0	0	0	69
ZN PPM.	0	8	0	1	0	0	60
ZR PPM.	0	0	0	0	0	0	69
HG PPM.	0	7	0	0	0	0	62

ELEMENT	GEOMETRIC MEAN	GEOMETRIC DEVIATION	REMARKS
FE PCT.	4.069808	1.50	69 SAMPLES AND 69 ANALYTICAL VALUES.
MG PCT.	1.014712	1.60	69 SAMPLES AND 69 ANALYTICAL VALUES.
CA PCT.	0.529388	6.48	2 NOT DETECTED, LESS THAN, OR TRACE VALUES. 67 REPORTED VALUES.
TI PCT.	0.481204	1.67	69 SAMPLES AND 69 ANALYTICAL VALUES.
MN PPM.	350.557373	2.16	69 SAMPLES AND 69 ANALYTICAL VALUES.
AG PPM.	********	******	69 NOT DETECTED, LESS THAN, OR TRACE VALUES. 0 REPORTED VALUES. NO COMPUTATIONS.
AS PPM.	4.117401	9.76	15 NOT DETECTED, LESS THAN, OR TRACE VALUES. 54 REPORTED VALUES.
AU PPM.	********	******	67 NOT DETECTED, LESS THAN, OR TRACE VALUES. 1 REPORTED VALUES. NO COMPUTATIONS.
B PPM.	64.603287	1.61	69 SAMPLES AND 69 ANALYTICAL VALUES.
BA PPM.	456.114746	1.69	69 SAMPLES AND 69 ANALYTICAL VALUES.
BE PPM.	1.295369	1.56	8 NOT DETECTED, LESS THAN, OR TRACE VALUES. 61 REPORTED VALUES.
BI PPM.	********	******	69 NOT DETECTED, LESS THAN, OR TRACE VALUES. 0 REPORTED VALUES. NO COMPUTATIONS.
CO PPM.	12.888070	1.79	4 NOT DETECTED, LESS THAN, OR TRACE VALUES. 65 REPORTED VALUES.
CR PPM.	83.710571	1.73	69 SAMPLES AND 69 ANALYTICAL VALUES.
CU PPM.	21.912643	2.26	4 NOT DETECTED, LESS THAN, OR TRACE VALUES. 65 REPORTED VALUES.
LA PPM.	24.898972	1.75	16 NOT DETECTED, LESS THAN, OR TRACE VALUES. 53 REPORTED VALUES.
MO PPM.	********	******	67 NOT DETECTED, LESS THAN, OR TRACE VALUES. 2 REPORTED VALUES. NO COMPUTATIONS.
NB PPM.	10.481845	1.31	12 NOT DETECTED, LESS THAN, OR TRACE VALUES. 57 REPORTED VALUES.
NI PPM.	47.025986	1.69	69 SAMPLES AND 69 ANALYTICAL VALUES.
PB PPM.	17.917374	1.73	4 NOT DETECTED, LESS THAN, OR TRACE VALUES. 65 REPORTED VALUES.
SB PPM.	1.255321	2.71	13 NOT DETECTED, LESS THAN, OR TRACE VALUES. 52 REPORTED VALUES.
SC PPM.	11.037489	1.55	2 NOT DETECTED, LESS THAN, OR TRACE VALUES. 67 REPORTED VALUES.

SN PPM.	********	******	68 NOT DETECTED, LESS THAN, OR TRACE VALUES.	1 REPORTED VALUES.	NO COMPUTATIONS.
SR PPM.	94.189438	1.97	27 NOT DETECTED, LESS THAN, OR TRACE VALUES.	42 REPORTED VALUES.	
V PPM.	106.878418	1.82	69 SAMPLES AND 69 ANALYTICAL VALUES.		
W PPM.	********	******	69 NOT DETECTED, LESS THAN, OR TRACE VALUES.	0 REPORTED VALUES.	NO COMPUTATIONS.
Y PPM.	17.718185	1.46	69 SAMPLES AND 69 ANALYTICAL VALUES.		
ZN PPM.	44.689850	1.70	8 NOT DETECTED, LESS THAN, OR TRACE VALUES.	60 REPORTED VALUES.	
ZR PPM.	197.734146	2.01	69 SAMPLES AND 69 ANALYTICAL VALUES.		
HG PPM.	0.045924	3.02	7 NOT DETECTED, LESS THAN, OR TRACE VALUES.	62 REPORTED VALUES.	