PART IV RECONNAISSANCE GEOCHEMICAL SURVEY (ORIENTATION SURVEY)

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(1) Preface

In the initial stages of mineral exploration, geochemical survey is used widely as an effective method to select prospective mineralization areas in virgin areas. In conducting effective geochemical survey, it is important that several tests are carried out first to determine the most appropriate media in the survey area.

Usually, -80 mesh fraction soil samples are taken from B horizon in soil profile and -60 mesh to -80 mesh fraction stream sediments samples are taken. Panned concentrated survey is sometimes ineffective in case the gold grains are invisible or very fine.

For the reason mentioned above, reconnaissance geochemical survey was carried out to specify appropriate media for gold exploration in Fiji, prior to the full-scale geochemical survey the following year.

(2)Survey area

The survey was conducted in the Tavua Caldera area which includes around Waikatakata village, along the Nasivi river and the Wainivothe creek. The mineral showings such as Waikatakata and Nasivi No.3 is present within this area.

The area programmed for this survey is shown in Figure 4-1.

The Emperor mine, which is a representative gold mine in Fiji producing gold (Au), silver(Ag) and Tellurium(Te), is located approximately 2km southwest of this area. The rivers near the mine and another river that runs through the mine was excluded from the survey because of contamination by mining activity.

(3) Objectives and Contents for the Survey

The survey was carried out to specify the geochemical survey programme (detailed survey or semi-detailed survey) for gold exploration which will be conducted next year.

The following items were examined:

① Selection of effective pathfinder related to gold(Au) mineralization

② Difference of Au enrichment between A and B horizons in soil profile

③ Difference of Au enrichment between -60 mesh and -30 mesh fractions in stream sediments

④ Use of panned concentrated samples for gold exploration

Samples collected from 70 points in Figure 4-1 and their contents can be summarized as follows:

Media	Contents	Amount	Element
Soil	To compare and examine the difference of Au enrichment between A and B horizons. A horizon(humus; organic, plant's root rich part . blackcolor.) and B horizon (commonly 30cm depth from surfase occupied. brown color) were sampled.	119 pieces A:62 B:57	Au,Ag,As,Hg,Sb, Se,F,Te,Tl,Br,S, Al,Ba,Be,Bi,Ca, Cd,Cu,Fe,K,Mg,Mn Mo,Na,Ni,P,Pb,Sr Ti,V,W,Zn 34 elements
Stream sedi-ments	To compare and examine the difference of Au enrichment -60 mesh and -30 mesh fractions. Stream sediments were sampled.	131 pieces -60: 65 -30: 66	Au,Ag,As,Hg,Sb, Se,F,Te,Tl,Br,S, Al,Ba,Be,Bi,Ca, Cd,Cu,Fe,K,Mg,Mn Mo,Na,Ni,P,Pb,Sr Ti,V,W,Zn 34 elements
Panned con-cent-rates	To examine whether or not panning is effective for gold exploration in this area in which gold grain is very fine and invisible gold. Panned concentrates were sampled.	52 pieces	Au,Ag,As,Hg,Sb, Se,F,Te,Tl,Br,S, Al,Ba,Be,Bi,Ca, Cd,Cu,Fe,K,Mg,Mn Mo,Na,Ni,P,Pb,Sr Ti,V,W,Zn 34 elements

(4)Sampling method

1)Soil

A horizon ;

After removing the leaves from the surface, soil samples were collected from areas rich in plant root, to a depth of about 10cm.

The weight of each sample was approximately 5 kg and the color was generally black.

The collected soil samples were dried in the sun and then approximately 100g of each sample were taken after being pulverized under 80 mesh sieve.

The soil sampling points were on the bank of the river nearest to each stream sediments sampling point (see 2)).

B horizon ;

Soil samples were collected from areas about 50cm in depth and not rich in plant root.

The weight of each sample was approximately 5kg and the color was generally yellowish brown.

The collected soil samples were dried in the sun and then approximately 100g of each sample were taken after being pulverized under 80 mesh sieve .

Each sampling point was directly below the sampling point on the A horizon.

2)Stream sediments

Stream sediments were collected at the points where the heavy minerals had been deposited such as the lower reaches of big rock and driftwood and the upper reaches of sandbar.

Approximately 100g of each sample was dried in the sun after pulverizing in stream water (The Nasivi river is 5～7m in width and has a lot of water while the Waikatakata creek has no water. The Wainivothe creek is 2～3m wide and 20～50cm deep).

3)Panned concentrates

Panned concentrates were collected as much as possible at the same points as stream sediments, using magnetite grain as a indicator.

Approximately 10～20g of each sample was concentrated from about 8kg of sediment (8 vinyl bags, @ 25cm×40cm).

(5)Chemical Analyses

All processed samples were sent to Chemex Labs.Ltd.in Vancouver, Canada for analysis.

Methods and detection limits of chemical analyses are as follows:

Element	Methods	Detection limit	Element	Methods	Detection limit
Au	FA-NAA	1 ppb	Ag	AAS-BKGD	0.2 ppm
As	AAS-HYD	1 ppm	Hg	AAS-FLAMELESS	10 ppb
Sb	AAS-BKGD	0.2 ppm	Se	AAS-BKGD	0.2 ppm
F	SPECIFIC ION	20 ppm	Te	AAS-BKGD	0.05 ppm
Tl	AAS-BKGD	0.1 ppm	Br	NAA	0.5 ppm
S	LECO-IR	0.001 %	Al	ICP-AES	0.01 %
Ba	ICP-AES	10 ppm	Be	ICP-AES	0.5 ppm
Bi	ICP-AES	2 ppm	Ca	ICP-AES	0.01 %
Cd	ICP-AES	0.5 ppm	Co	ICP-AES	1 ppm
Cr	ICP-AES	1 ppm	Cu	ICP-AES	1 ppm
Fe	ICP-AES	0.01 %	k	ICP-AES	0.01 %
Mg	ICP-AES	0.01 %	Mn	ICP-AES	5 ppm
Mo	ICP-AES	1 ppm	Na	ICP-AES	0.01 %
Ni	ICP-AES	1 ppm	P	ICP-AES	10 ppm
Pb	ICP-AES	2 ppm	Sr	ICP-AES	1 ppm
Ti	ICP-AES	0.01 %	V	ICP-AES	1 ppm
W	ICP-AES	10 ppm	Zn	ICP-AES	2 ppm

AAS-NAA: Fire Assay-Neutron Activation

AAS: Atomic Absorption Spectrometry

ICP: Inductively Coupled Plasma

Some whole rock and ore assays were done by Chemex. X-ray diffraction analyses(Table4-1) were done by Nikko Exploration & Development Co.,Ltd.

(6)Results of Analyses

In order to select the most suitable elements for gold geochemical survey, multi elements chemical analyses were done.

Results of analyses for Soil (A horizon and B horizon), Stream sediments (-60 mesh and -30 mesh fractions), panned concentrated, whole rock and ore are

listed in Table 4-2 .

The simplified values of geochemical data(Table 4-3), the correlation coefficients among components(Table 4-4) and histogram of assay values(Fig.4-2) are also listed.

With regard to Au, the results for soil, stream sediments and panned concentrates are summarized below.
*(It should be noted that Au has no correlation with Ag and Ag assay values are very low, i.e. less than 0.2 ppm.)

	Number	Maximum (ppb)	Minimum (ppb)	Mean (ppb)	Positive correlation(1)	Negative correlation(2)
Soil (A)	62	788	2	10.2	As,Te,Hg,F	non
Soil (B)	57	3,420	2	7.8	As,Hg,Pb	non
Stream sedi-ments (-30)	66	265	2	4.0	As,Hg,K,P,Cu, Sr,Al	V,Ti,Mn
Stream sedi-ments (-60)	62	3,390	2	6.3	As,P,Hg,Sr,Ba K,Na,F	Ti,V
Panned concen trates	30	36	2	——	——	——

(1) Correlation coefficient is more than 0.5 and analyses values are over detection limit.
(2) Correlation coefficient is less than 0.5.

(7)Conclusion and Recommendation

1) Effective pathfinder related to Au mineralization(Table 4-4)

Using the results of chemical analyses for soil and stream sediments, the correlation coefficient of 34 elements related to Au was examined(Table4-4).

In soil, Au exhibits good correlation with As, Hg, Te, F and Pb (The correlation coefficient is more than 0.5). The correlation between Au and As is the highest (0.7).

In stream sediments, Au exhibits good correlation with As, Hg, K, P, Ba, F, Sr, Cu, Al and Na (Correlation coefficient is more than 0.5). As in soil, the correlation between Au and As is the highest(0.7).

In soil there is a low correlation between Au and K, P, Ba, Sr, Cu, Al and Na. However there is a high correlation between Au and these elements in stream sediments. This could be because of the contamination caused by drainage. But however details are still not clear.

Panned concentrates were not sufficient for analysis.

Based on the above results, it can be concluded that the most effective element as pathfinder related to Au mineralization is As. The intensive correlation for Au-As can be seen on Figure 4-3 and Figure 4-4.

It has been reported that in Emperor mine high Au values correspond to high Ag, Te, Ba, Hg, As, Mo, Cu and Tl values (Teunis A.P.Kwak, Journal of Geochemical Exploration,36,1990).

2) Difference of Au enrichment between A and B horizons in soil profile

The survey was carried out to examine whether soil samples from A horizon in soil profile are effective for gold exploration (Fig.4-3 and Fig.4-9).

For Au, there were 28 points among 42 points where Au assay values in A horizon were higher than in B horizon, and 10 points among 42 points where Au assay values in B horizon were higher than in A horizon. In most cases Au assay values in A horizon were higher than in B horizon.

For As, there were 12 points among 45 points where "As" assay values in A

horizon were higher than in B horizon, and 18 points among 45 points where As assay values in B horizon were higher than in A horizon. "As" assay values in B horizon were nearly the same as in A horizon.

On the basis of this result, it is clear that:

① Au appears to be concentrated in A horizon.

② Au has a high correlation between A and B horizons(Fig. 4-9).

These results support the idea that Au in soil from A horizon has better anomaly for this region. However it is commonly understood that the elements related to mineralization are likely to concentrate in B horizon rather than in A horizon because the mineralization process starts from deeper areas.

It is assumed that the mechanism by which Au concentrates in A horizon is through the botanical absorption system by which plants accumulate Au from ground water. Dead plants are then soiled in A horizon for a long period. As a result, Au content in A horizon becomes higher than in B horizon.

3) Difference of Au enrichment between -60 mesh and -30 mesh fractions in stream sediments

The survey was carried out to determine the most appropriate size fraction for sampling -60 mesh and -30 mesh fractions (Fig.4-4 Fig.4-9).

There were 30 points among 58 points where Au assay values in -60 mesh were higher than in -30 mesh, and 16 points among 58 points where Au assay values in -30 mesh were higher than in -60 mesh. Therefore, Au assay values in -60 mesh were higher than in -30 mesh.

There were 14 points among 49 points where As assay values in -60 mesh were higher than in -30 mesh, and 20 points among 49 points where As assay values in -60 mesh were higher than in -30 mesh. Therefore, As assay values in -60 mesh were nearly the same as in -30 mesh fraction.

On the basis of this result, it is clear that

① Au appears to be concentrated in -60 mesh fraction.

② Au has a high correlation between -60 mesh and -30 mesh fractions(Fig.4-9)

③ There are scarcely any difference in assay values for As between -60 mesh

and -30 mesh fraction.

It can be concluded that Au concentrates in -60 mesh rather than in -30 mesh fractions.

4) Use of panned concentrates

It has been said that panning is not an effctive method of geochemical exploration for gold in this area, as gold grain in Emperor mine is very fine or invisible. In this survey, panning was carried out to confirm the use of pannedconcentrates and whether the panned concentrates contains gold grain oraureferous pyrite.

For Au and As, the results are are the follows:

① Samples could not be analysed because the sample was not sufficient (22 samples among 52 samples).

② In most cases the data was below detection limit (Au:1ppb As:1ppm) (18 samples among 52 samples).

③ At similar sampling point, Au values in panned concentrates are lower than in stream sediments.

From the above, it can be said that the way of panning in field survey has significant problems.

It is recommended that:

① Suffcient amount of panned concentrates (approximately 50g) has to be taken.

② To give priority to the analysis of Au related mineralization's element (Au, As, Hg, Sb etc).

Gold grains were not confirmed during this field survey.

5) Distribution of Au and As anomalies(Fig.4-5,Fig.4-6,Fig.4-7 and Fig.4-8)

Au anomalies for soil and stream sediments overlap As anomalies at most points and furthermore these anomalies correspond to minaral showings.

This indicates that stream sediments are eluvial and not always transported down stream .

Au anomaly is shown widely near Nasivi No.3 on -60 mesh fraction in stream sediments. The reason for this is not clear.

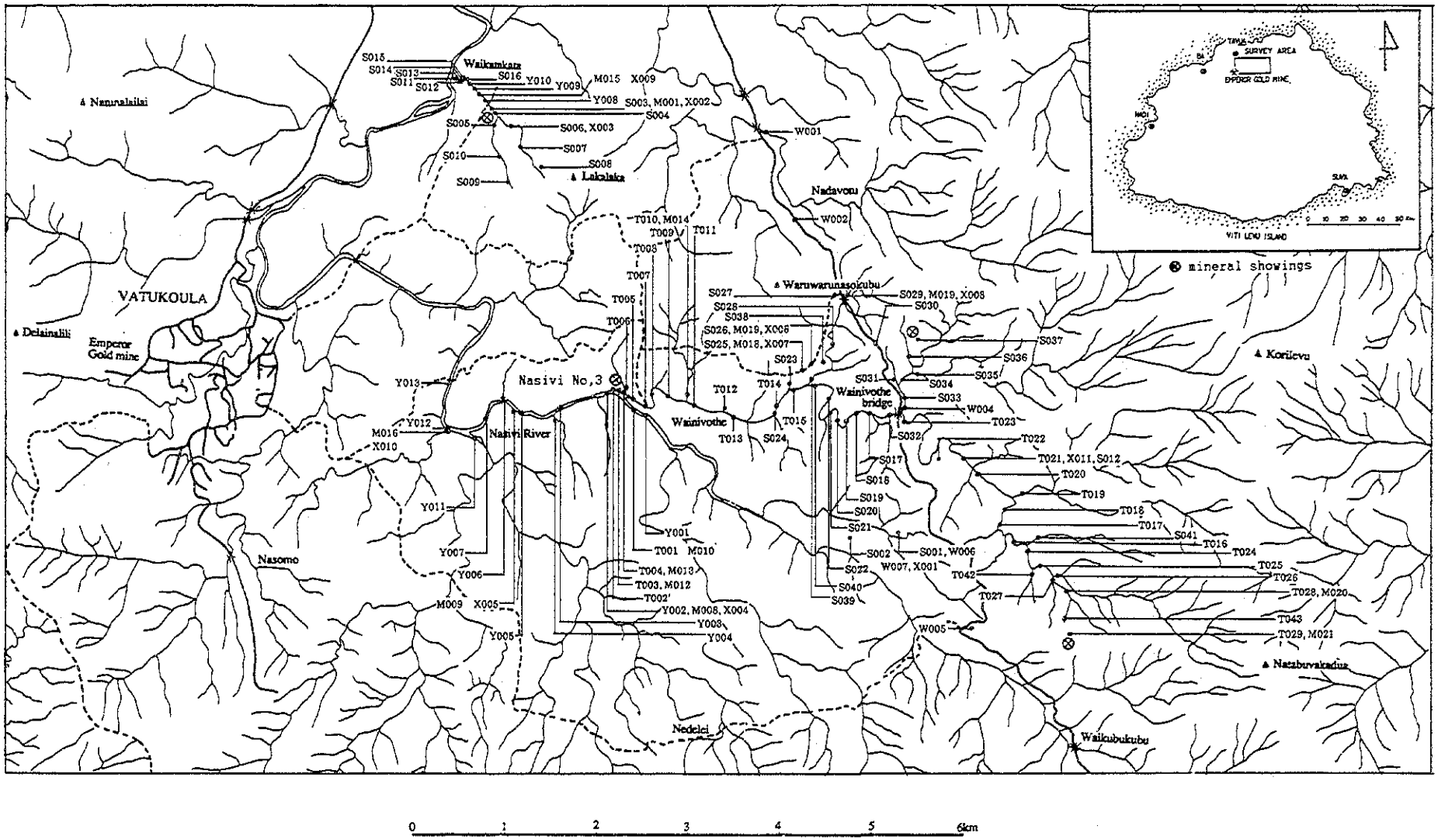

Fig. 4-1 Sample Location of Geochemical Survey

Table 4-1 Results of X-Ray Diffraction Analysis (Geochemical Survey)

Sample No.	Location	Rock unit	Altered Rock	Clay Mineral									Silica m.			Sulfate m.			Feld.		Miscellaneous m.					
				Mo	Ch	Se	Ka	Pr	Ha	Da	*Ko-Mo	*Ka-Mo	Tr	Cr	Qz	Al	Gy	Ja	Pl	Kf	Au	Ho	He	Mg	Lm	Py
X001				○			●								◯					○	○??					
X002	Waikatakata			○											◯	○??				○	○??					
X003★	Waikatakata			○		○							●?		◯					◯	○??					
X004	Nasivi No. 3														◎	◯				●?			●?			●?
X005	Nasivi			◯		○									◯	○				◯						
X006★	Wainivothe										●				●?					◯						
X007★★	Wainivothe										○				●?					○						
X008★	Wainivothe			○							○				●?					◯						
X009	Waikatakata			○							●?				◯					○						
X010	Nasivi			○										○?	○				◯	◯	○??					
X011	Wainivothe			◯			●?							○?	○				○	○	○??					○
X012	Wainivothe			○			●?								◯				○	○						●?

Abbreviations:

◎:Abundant ◯:Common ○:Few ●:Rare

★:a little irregular crystallinity

★★:irregular crystallinity

Mo:Montmorillonite, Ch:Chlorite, Se:Sericite, Ka:Kaoline, Pr:Pyrophyllite, Ha:Halloysite, Da:Diaspore, *:Mixed layer mineral

Cr:α-Cristobalite, Tr:Tridymite, Qz:Quartz, Al:Alunite, Gy:Gypsum, Ja:Jarosite, Pl:Plagioclase, Kf:Potassium feldspar.

Au:Augite, Ho:Hornblende, He:Hematite, Mg:Magnetite, Lm:Limonite, Py:Pyrite,

Table 4-2 Analytical Results of Geochemical Samples (Soil, Stream Sediments, Panned Concentrates, Ore, Whole-Rocks)

LEGEND

□-□□□A	A horizon of Soil
□-□□□B	B horizon of Soil
☆-☆☆☆C	C -30 mesh of Stream sediments
☆-☆☆☆F	F -60 mesh of Stream sediments
△-△△△P	Panned concentrates
W-○○○	Whole rock sample
M-○○○	Ore sample

Soil (Au, Ag, As, Hg, Sb, Se, F, Te, Tl, Br, S)

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb	Ag ppm Aqua R	As ppm	Hg ppb	Sb ppm	Se ppm	F ppm	Te ppm	Tl ppm	Br NAA ppm	S % (Leco)			
S-001A	214	238	12	< 0.2	3	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	13.0	not/ss			
S-002A	214	238	7	< 0.2	4	60	< 0.2	< 0.2	480	0.20	< 0.2	12.5	0.016			
S-004A	214	238	64	< 0.2	22	90	< 0.2	< 0.2	540	< 0.10	0.3	20.0	0.002			
S-005A	214	238	18	< 0.2	24	70	0.2	< 0.2	680	< 0.10	0.4	1.5	not/ss			
S-007A	214	238	6	< 0.2	14	50	0.2	0.2	600	0.10	0.5	12.5	0.003			
S-008A	214	238	7	< 0.2	3	40	0.2	0.2	460	< 0.10	0.3	20.5	< 0.001			
S-009A	214	238	129	< 0.2	5	40	< 0.2	< 0.2	800	< 0.10	0.3	15.5	< 0.001			
S-010A	214	238	149	< 0.2	7	50	0.2	< 0.2	690	< 0.10	0.3	6.0	< 0.001			
S-011A	214	238	20	< 0.2	5	50	< 0.2	< 0.2	360	0.30	< 0.1	8.0	< 0.001			
S-012A	214	238	253	< 0.2	50	230	0.4	< 0.2	440	3.00	0.4	5.5	0.003			
S-013A	214	238	274	< 0.2	50	330	0.8	< 0.2	490	1.10	0.8	8.5	0.001			
S-014A	214	238	158	< 0.2	39	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	8.0	0.002			
S-015A	214	238	98	< 0.2	11	70	< 0.2	< 0.2	560	0.20	0.4	9.5	0.001			
S-018A	214	238	6	< 0.2	2	40	< 0.2	< 0.2	470	< 0.05	0.1	12.0	< 0.001			
S-020A	214	238	5	< 0.2	2	50	< 0.2	< 0.2	210	< 0.10	0.1	11.0	0.001			
S-021A	214	238	3	< 0.2	1	40	< 0.2	< 0.2	270	0.05	< 0.1	7.0	< 0.001			
S-023A	214	238	2	< 0.2	1	40	< 0.2	< 0.2	200	< 0.05	0.5	13.0	0.001			
S-025A	214	238	8	< 0.2	4	30	< 0.2	< 0.2	230	< 0.25	0.2	11.0	0.001			
S-026A	214	238	16	< 0.2	3	30	< 0.2	< 0.2	640	0.05	0.2	6.0	< 0.001			
S-027A	214	238	6	< 0.2	3	40	< 0.2	< 0.2	310	0.10	0.3	13.5	0.001			
S-028A	214	238	2	< 0.2	4	40	< 0.2	< 0.2	390	< 0.10	0.2	12.0	< 0.001			
S-029A	214	238	1	< 0.2	4	40	< 0.2	< 0.2	240	< 0.05	0.3	13.0	< 0.001			
S-030A	214	238	28	< 0.2	1	40	< 0.2	< 0.2	270	0.05	0.2	9.5	< 0.001			
S-032A	214	238	2	< 0.2	2	30	< 0.2	< 0.2	240	< 0.05	< 0.1	8.5	< 0.001			
S-033A	214	238	2	< 0.2	2	40	< 0.2	< 0.2	230	< 0.10	0.1	8.5	0.001			
S-034A	214	238	2	< 0.2	3	30	< 0.2	< 0.2	360	< 0.05	0.1	6.0	0.001			
S-035A	214	238	3	< 0.2	2	30	< 0.2	< 0.2	240	< 0.05	0.1	5.5	< 0.001			
S-036A	214	238	48	< 0.2	2	40	< 0.2	< 0.2	270	< 0.10	0.2	8.5	< 0.001			
S-037A	214	238	6	< 0.2	1	50	< 0.2	< 0.2	340	< 0.25	0.2	17.5	not/ss			
S-039A	214	238	298	< 0.2	4	60	< 0.2	< 0.2	430	0.10	0.2	8.0	< 0.001			
S-040A	214	238	36	< 0.2	4	60	< 0.2	< 0.2	340	0.10	0.2	7.0	0.002			
S-041A	214	238	12	< 0.2	1	30	< 0.2	< 0.2	210	< 0.05	< 0.1	7.0	0.001			
S-042A	214	238	5	< 0.2	1	40	< 0.2	< 0.2	200	< 0.05	0.1	10.0	0.002			
S-043A	214	238	21	< 0.2	1	20	< 0.2	< 0.2	290	< 0.05	< 0.1	2.5	< 0.001			
S-001B	214	238	98	< 0.2	1	30	< 0.2	< 0.2	160	< 0.05	< 0.1	6.5	< 0.001			
S-002B	214	238	10	< 0.2	1	20	< 0.2	0.2	330	0.15	0.1	4.0	< 0.001			
S-003B	205	294	3420	< 0.2	500	5800	58.0	4.6	620	0.05	1.7	< 0.5	0.038			
S-004B	214	238	36	< 0.2	7	120	< 0.2	< 0.2	520	0.05	0.4	14.0	0.002			
S-006B	205	294	204	< 0.2	43	160	1.4	0.6	700	0.05	0.7	0.5	< 0.001			
S-007B	214	238	3	< 0.2	16	50	< 0.2	0.2	660	< 0.25	0.6	7.0	0.002			

Soil (Au, Ag, As, Hg, Sb, Se, F, Te, Tl, Br, S)

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb	Ag ppm Aqua R	As ppm	Hg ppb	Sb ppm	Se ppm	F ppm	Te ppm	Tl ppm	Br NAA ppm	S % (Leco)			
S-008B	214	238	4	< 0.2	4	not/ss	0.4	< 0.2	350	< 0.25	0.2	4.0	0.002			
S-009B	205	294	25	< 0.2	14	60	0.6	0.2	680	< 0.05	0.3	< 0.5	< 0.001			
S-010B	214	238	65	< 0.2	19	not/ss	0.2	< 0.2	not/ss	not/ss	not/ss	6.0	not/ss			
S-011B	214	238	163	< 0.2	10	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	6.0	not/ss			
S-016B	205	294	8	< 0.2	3	40	0.2	< 0.2	400	< 0.05	< 0.1	< 0.5	0.001			
S-017B	214	238	5	< 0.2	2	40	< 0.2	< 0.2	350	< 0.05	0.1	6.0	0.001			
S-018B	214	238	7	< 0.2	2	40	< 0.2	< 0.2	380	< 0.05	0.2	16.0	0.001			
S-020B	214	238	4	< 0.2	2	50	< 0.2	< 0.2	220	< 0.05	0.1	11.0	0.002			
S-021B	214	238	4	< 0.2	3	30	< 0.2	< 0.2	220	< 0.05	0.1	11.0	0.001			
S-023B	214	238	2	< 0.2	2	40	< 0.2	< 0.2	200	< 0.05	0.5	12.0	0.002			
S-025B	214	238	< 1	< 0.2	2	30	< 0.2	< 0.2	180	< 0.25	0.2	4.0	not/ss			
S-026B	214	238	1	< 0.2	2	20	< 0.2	< 0.2	640	< 0.10	0.6	3.5	< 0.001			
S-027B	214	238	6	< 0.2	7	40	< 0.2	< 0.2	350	0.10	0.4	12.5	< 0.001			
S-028B	214	238	2	< 0.2	1	50	< 0.2	< 0.2	460	< 0.10	0.3	13.5	not/ss			
S-029B	214	238	1	< 0.2	1	40	< 0.2	< 0.2	270	0.05	0.4	14.5	< 0.001			
S-030B	214	238	13	< 0.2	3	40	< 0.2	< 0.2	320	< 0.05	0.3	11.5	< 0.001			
S-031B	205	294	2	< 0.2	2	20	< 0.2	< 0.2	200	< 0.05	0.3	2.0	< 0.001			
S-032B	214	238	6	< 0.2	2	30	< 0.2	< 0.2	260	< 0.05	0.1	9.5	< 0.001			
S-033B	214	238	7	< 0.2	1	50	< 0.2	< 0.2	250	< 0.05	< 0.1	11.0	0.002			
S-034B	214	238	3	< 0.2	3	40	< 0.2	< 0.2	200	< 0.05	0.1	9.5	0.001			
S-035B	214	238	2	< 0.2	3	30	0.2	< 0.2	360	< 0.10	0.1	6.5	< 0.001			
S-036B	214	238	3	< 0.2	8	40	< 0.2	< 0.2	330	< 0.10	0.2	15.5	0.001			
S-037B	214	238	4	< 0.2	2	50	< 0.2	< 0.2	290	< 0.05	0.2	8.0	< 0.001			
S-039B	214	238	8	< 0.2	6	60	< 0.2	< 0.2	370	0.20	0.3	9.0	0.001			
S-040B	214	238	4	< 0.2	3	60	< 0.2	< 0.2	340	< 0.05	0.1	7.0	< 0.001			
S-041B	214	238	4	< 0.2	2	20	< 0.2	< 0.2	100	< 0.05	0.1	5.5	< 0.001			
S-042B	214	238	3	< 0.2	2	40	< 0.2	< 0.2	170	< 0.05	0.1	9.0	< 0.001			
S-043B	214	238	3	< 0.2	2	20	< 0.2	< 0.2	290	not/ss	< 0.2	3.5	0.002			
T-007A	214	238	6	< 0.2	5	30	< 0.2	< 0.2	460	0.10	0.2	6.0	0.001			
T-008A	205	294	5	< 0.2	4	50	0.2	< 0.2	380	0.05	0.2	9.0	< 0.001			
T-016A	214	238	9	< 0.2	4	40	< 0.2	< 0.2	190	< 0.05	0.1	8.5	0.001			
T-017A	214	238	5	< 0.2	2	40	< 0.2	< 0.2	160	< 0.10	< 0.1	11.0	not/ss			
T-018A	214	238	2	< 0.2	2	100	< 0.2	< 0.2	110	< 0.05	0.1	7.5	0.001			
T-019A	214	238	3	< 0.2	2	60	< 0.2	< 0.2	140	< 0.05	< 0.1	5.5	0.001			
T-020A	214	238	3	< 0.2	2	30	< 0.2	< 0.2	230	< 0.10	0.1	7.0	0.002			
T-021A	214	238	2	< 0.2	2	40	< 0.2	< 0.2	130	< 0.05	< 0.1	10.0	< 0.001			
T-022A	214	238	4	< 0.2	2	40	< 0.2	< 0.2	210	< 0.05	0.1	11.0	< 0.001			
T-023A	214	238	2	< 0.2	1	30	< 0.2	< 0.2	280	< 0.05	0.1	12.0	< 0.001			
T-024A	214	238	4	< 0.2	2	30	< 0.2	< 0.2	160	< 0.05	< 0.1	7.0	< 0.001			
T-025A	214	238	6	< 0.2	2	30	< 0.2	< 0.2	210	< 0.05	< 0.1	8.0	< 0.001			

Soil (Au, Ag, As, Hg, Sb, Se, F, Te, Tl, Br, S)

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb	Ag ppm Aqua R	As ppm	Hg ppb	Sb ppm	Se ppm	F ppm	Te ppm	Tl ppm	Br NAA ppm	S % (Leco)			
T-026A	214	238	10	< 0.2	2	30	< 0.2	< 0.2	210	< 0.05	< 0.1	7.5	0.001			
T-027A	214	238	31	< 0.2	1	30	< 0.2	< 0.2	220	< 0.05	< 0.1	6.5	0.001			
T-028A	214	238	10	< 0.2	1	30	< 0.2	< 0.2	240	< 0.05	< 0.1	4.5	< 0.001			
T-029A	214	238	2	< 0.2	1	20	< 0.2	< 0.2	200	< 0.05	0.2	9.0	< 0.001			
T-007B	214	238	6	< 0.2	6	40	< 0.2	< 0.2	490	0.05	0.4	3.0	< 0.001			
T-008B	214	238	5	< 0.2	2	30	< 0.2	< 0.2	590	0.05	0.3	< 0.5	< 0.001			
T-010B	214	238	3	< 0.2	3	50	< 0.2	< 0.2	570	0.15	0.1	9.5	0.003			
T-011B	214	238	13	< 0.2	2	not/ss	< 0.2	< 0.2	not/ss	not/ss	not/ss	8.5	0.002			
T-012B	214	238	4	< 0.2	2	40	< 0.2	< 0.2	270	0.05	0.1	8.5	0.001			
T-016B	214	238	5	< 0.2	2	30	< 0.2	< 0.2	110	< 0.05	0.2	4.0	< 0.001			
T-017B	214	238	3	< 0.2	2	30	< 0.2	< 0.2	140	0.05	0.1	7.5	< 0.001			
T-018B	214	238	1	< 0.2	2	40	< 0.2	< 0.2	130	< 0.05	0.1	7.0	< 0.001			
T-020B	214	238	3	< 0.2	2	20	< 0.2	< 0.2	190	< 0.05	0.1	8.0	< 0.001			
T-021B	214	238	5	< 0.2	2	30	< 0.2	< 0.2	220	< 0.05	0.1	10.5	< 0.001			
T-022B	214	238	2	< 0.2	1	30	< 0.2	< 0.2	160	< 0.05	0.2	5.0	< 0.001			
T-023B	214	238	1	< 0.2	1	10	0.2	< 0.2	400	< 0.05	0.2	0.5	< 0.001			
T-024B	214	238	14	< 0.2	2	30	0.2	< 0.2	180	< 0.05	0.1	5.5	< 0.001			
T-025B	214	238	4	< 0.2	2	30	< 0.2	< 0.2	240	0.15	0.1	9.0	< 0.001			
T-026B	214	238	7	< 0.2	2	20	< 0.2	< 0.2	220	< 0.05	0.1	4.5	< 0.001			
T-027B	214	238	20	< 0.2	1	30	0.2	< 0.2	140	< 0.05	0.1	7.5	< 0.001			
T-028B	214	238	20	< 0.2	1	10	< 0.2	< 0.2	210	< 0.05	< 0.1	0.5	0.002			
T-029B	214	238	2	< 0.2	1	20	< 0.2	< 0.2	310	< 0.05	0.1	6.5	< 0.001			
Y-001A	214	238	3	< 0.2	2	30	< 0.2	< 0.2	300	< 0.05	0.1	9.5	0.002			
Y-003A	214	238	3	< 0.2	2	40	< 0.2	< 0.2	290	0.10	0.1	7.0	0.001			
Y-004A	214	238	2	< 0.2	2	30	< 0.2	< 0.2	230	0.10	0.1	8.0	< 0.001			
Y-005A	214	238	10	< 0.2	19	40	< 0.2	< 0.2	240	0.20	0.2	10.5	0.002			
Y-006A	214	238	5	< 0.2	4	not/ss	< 0.2	< 0.2	560	not/ss	not/ss	8.5	0.001			
Y-007A	214	238	3	< 0.2	3	not/ss	< 0.2	< 0.2	280	< 0.25	0.1	14.0	0.001			
Y-008A	214	238	788	< 0.2	39	60	0.6	< 0.2	260	0.20	0.4	7.0	0.002			
Y-009A	214	238	172	< 0.2	59	70	0.6	< 0.2	440	0.25	0.3	10.0	0.002			
Y-010A	214	238	154	< 0.2	24	70	0.6	< 0.2	470	0.20	0.4	6.5	0.002			
Y-011A	214	238	4	< 0.2	3	40	< 0.2	< 0.2	220	0.05	0.1	9.0	0.001			
Y-012A	214	238	5	< 0.2	3	40	0.4	< 0.2	470	< 0.05	< 0.2	7.0	0.001			
Y-013A	214	238	4	< 0.2	3	40	< 0.2	< 0.2	300	< 0.05	< 0.1	5.5	0.001			
Y-005B	214	238	9	< 0.2	3	40	0.4	< 0.2	640	< 0.05	0.1	1.5	< 0.001			
Y-006B	214	238	62	< 0.2	3	30	< 0.2	< 0.2	310	0.05	0.1	8.0	< 0.001			
Y-008B	214	238	320	< 0.2	63	110	1.0	< 0.2	230	0.15	0.4	8.0	0.001			
Y-009B	214	238	165	< 0.2	30	70	0.6	< 0.2	510	0.10	0.4	22.0	0.001			
Y-010B	214	238	71	< 0.2	43	90	0.8	< 0.2	530	2.45	0.3	9.0	0.001			

Soil (Ag, Al, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn)

SAMPLE DESCRIPTION	PREP CODE		Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)
S-001A	299	--	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
S-002A	299	232	< 0.5	10.95	240	< 0.5	< 2	0.06	< 0.5	10	196	210	11.60	0.98	0.46	560
S-004A	299	232	< 0.5	9.05	880	< 0.5	< 2	0.95	< 0.5	23	83	134	5.52	3.01	0.79	1095
S-005A	299	--	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
S-007A	299	--	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
S-008A	299	232	< 0.5	10.70	1370	< 0.5	< 2	0.38	< 0.5	19	15	68	5.26	4.55	0.69	1250
S-009A	299	232	< 0.5	10.25	1150	< 0.5	< 2	0.37	< 0.5	16	12	122	3.97	4.27	0.53	805
S-010A	299	232	< 0.5	9.79	1100	< 0.5	< 2	0.54	< 0.5	21	33	116	5.54	4.21	0.69	900
S-011A	299	232	< 0.5	7.27	500	< 0.5	< 2	3.36	< 0.5	44	658	119	9.39	1.48	3.06	1395
S-012A	299	232	0.5	9.15	830	< 0.5	< 2	1.27	< 0.5	31	184	158	6.18	3.09	1.46	1160
S-013A	299	232	0.5	9.02	850	< 0.5	< 2	0.98	< 0.5	26	143	141	5.57	3.19	1.22	1075
S-014A	299	232	< 0.5	8.54	800	< 0.5	< 2	1.48	< 0.5	38	238	140	6.26	2.96	1.68	1240
S-015A	299	232	< 0.5	9.19	1070	< 0.5	< 2	0.81	< 0.5	24	94	107	5.22	3.82	0.97	1000
S-018A	299	232	< 0.5	8.45	660	< 0.5	< 2	1.15	< 0.5	36	257	117	11.25	2.36	1.29	1295
S-020A	299	232	< 0.5	10.95	150	< 0.5	< 2	0.57	< 0.5	21	204	125	10.75	0.61	0.59	685
S-021A	299	232	< 0.5	7.58	390	< 0.5	< 2	1.73	< 0.5	48	336	116	13.70	1.40	1.68	1495
S-023A	299	232	< 0.5	11.60	1260	< 0.5	< 2	0.13	< 0.5	17	< 1	64	4.94	3.70	0.41	630
S-025A	299	232	< 0.5	11.30	1010	< 0.5	< 2	0.29	< 0.5	15	11	89	5.49	2.96	0.42	630
S-026A	299	232	< 0.5	12.85	1070	< 0.5	< 2	0.06	< 0.5	12	< 1	62	4.03	3.32	0.54	315
S-027A	299	232	< 0.5	8.92	700	< 0.5	< 2	0.69	< 0.5	21	35	96	5.78	2.41	0.58	840
S-028A	299	232	< 0.5	10.20	790	< 0.5	< 2	0.40	< 0.5	25	9	93	6.28	2.64	0.52	1375
S-029A	299	232	< 0.5	10.60	1300	< 0.5	< 2	0.56	< 0.5	11	6	101	4.21	4.48	0.44	560
S-030A	299	232	< 0.5	10.40	1190	< 0.5	< 2	1.09	< 0.5	24	54	85	6.88	4.08	1.07	1045
S-032A	299	232	< 0.5	7.74	370	< 0.5	< 2	1.67	< 0.5	45	295	124	13.65	1.25	1.71	1570
S-033A	299	232	< 0.5	4.11	170	< 0.6	< 2	0.47	< 0.5	17	89	48	4.02	0.67	0.43	370
S-034A	299	232	< 0.5	9.09	600	< 0.5	< 2	0.79	< 0.5	32	149	157	7.38	1.76	1.26	795
S-035A	299	232	< 0.5	8.78	430	< 0.5	< 2	0.35	< 0.5	26	41	99	5.92	2.14	0.73	910
S-036A	299	232	< 0.5	9.66	380	< 0.5	< 2	0.28	< 0.5	36	46	116	7.18	1.82	0.56	1110
S-037A	299	--	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
S-039A	299	232	< 0.5	8.94	750	< 0.5	< 2	0.72	< 0.5	22	45	99	6.63	2.59	0.75	1045
S-040A	299	232	< 0.5	8.79	680	< 0.5	< 2	0.84	< 0.5	27	78	103	7.81	2.44	0.85	1040
S-041A	299	232	< 0.5	8.85	210	< 0.5	< 2	0.63	< 0.5	36	149	128	12.95	0.87	0.82	1260
S-042A	299	232	< 0.5	8.57	430	< 0.5	< 2	0.77	< 0.5	43	120	124	8.62	1.71	1.01	1465
S-043A	299	232	< 0.5	7.55	410	< 0.5	< 2	1.29	< 0.5	32	204	109	9.58	1.78	1.53	1055
S-001B	299	232	< 0.5	12.80	410	< 0.5	< 2	0.03	< 0.5	18	28	406	9.34	1.47	0.30	610
S-002B	299	232	< 0.5	11.65	190	< 0.5	< 2	0.02	< 0.5	6	50	202	8.44	1.01	0.67	130
S-003B	299	232	14.0	5.46	130	< 0.5	< 2	0.19	< 0.5	3	144	73	6.08	1.37	0.75	160
S-004B	299	232	< 0.5	9.07	940	< 0.5	< 2	0.52	< 0.5	21	82	129	5.78	2.54	0.65	1005
S-006B	299	232	0.5	9.69	1120	< 0.5	< 2	0.13	< 0.5	10	19	106	5.46	5.56	0.77	175
S-007B	299	232	< 0.5	9.89	1190	< 0.5	< 2	0.51	< 0.5	9	22	73	3.84	4.56	0.63	430

Soil (Ag, Al, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn)

SAMPLE DESCRIPTION	PREP CODE		Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)
S-008B	299	--	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
S-009B	299	232	0.5	10.05	1030	< 0.5	< 2	0.41	1.0	28	7	123	8.15	3.01	0.59	1745
S-010B	299	--	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
S-011B	299	--	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
S-016B	299	232	< 0.5	6.27	520	< 0.5	< 2	6.88	0.5	31	425	99	6.24	1.07	5.23	1230
S-017B	299	232	< 0.5	7.93	370	< 0.5	< 2	1.20	0.5	40	250	131	12.50	1.47	1.23	1355
S-018B	299	232	< 0.5	8.89	630	< 0.5	< 2	1.02	1.0	35	292	128	11.85	2.33	1.32	1360
S-020B	299	232	< 0.5	10.25	280	< 0.5	< 2	1.00	1.0	27	234	130	10.80	0.95	1.07	1050
S-021B	299	232	< 0.5	8.31	380	< 0.5	< 2	1.34	0.5	42	272	130	12.70	1.37	1.59	1520
S-023B	299	232	< 0.5	11.75	1330	< 0.5	< 2	0.13	< 0.5	8	10	71	5.48	4.09	0.42	700
S-025B	299	--	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
S-026B	299	232	< 0.5	13.00	1520	< 0.5	< 2	0.03	1.5	4	4	59	3.95	4.72	0.52	310
S-027B	299	232	< 0.5	10.85	910	< 0.5	< 2	0.40	< 0.5	14	27	99	5.63	3.24	0.48	1210
S-028B	299	232	< 0.5	10.75	800	< 0.5	< 2	0.36	< 0.5	19	14	97	6.04	2.59	0.51	1000
S-029B	299	232	< 0.5	11.55	1410	< 0.5	< 2	0.20	< 0.5	5	1	93	4.57	5.29	0.43	340
S-030B	299	232	< 0.5	10.50	1010	< 0.5	< 2	0.53	< 0.5	18	30	85	6.16	3.92	0.91	860
S-031B	299	232	< 0.5	10.40	1540	< 0.5	< 2	0.20	< 0.5	15	9	107	4.37	4.84	0.97	645
S-032B	299	232	< 0.5	9.27	440	< 0.5	< 2	1.03	< 0.5	38	195	144	11.50	1.61	1.42	1355
S-033B	299	232	< 0.5	9.62	240	< 0.5	< 2	0.46	< 0.5	25	325	134	11.40	1.06	0.61	495
S-034B	299	232	< 0.5	8.79	530	< 0.5	< 2	0.96	< 0.5	32	214	148	8.65	1.76	1.32	1005
S-035B	299	232	< 0.5	9.53	510	< 0.5	< 2	0.36	< 0.5	31	36	105	6.16	2.31	0.79	1855
S-036B	299	232	< 0.5	9.77	400	< 0.5	< 2	0.27	< 0.5	29	59	119	8.07	1.79	0.57	1190
S-037B	299	232	< 0.5	11.35	340	< 0.5	< 2	0.15	< 0.5	27	42	164	7.13	1.77	0.49	780
S-039B	299	232	< 0.5	10.30	910	< 0.5	< 2	0.76	< 0.5	25	42	113	7.20	3.25	0.83	1180
S-040B	299	232	< 0.5	9.64	390	< 0.5	< 2	0.10	< 0.5	38	249	118	11.85	1.43	0.63	1105
S-041B	299	232	< 0.5	8.69	320	< 0.5	< 2	0.84	< 0.5	43	109	127	11.80	1.26	1.12	1475
S-042B	299	232	0.5	9.29	430	< 0.5	< 2	0.73	< 0.5	45	106	138	9.40	1.56	1.04	1565
S-043B	299	232	< 0.5	8.01	450	< 0.5	< 2	1.15	< 0.5	36	140	109	8.46	1.94	1.45	1365
T-007A	299	232	< 0.5	11.85	770	< 0.5	< 2	0.24	< 0.5	17	45	154	6.12	2.45	0.98	1520
T-008A	299	232	< 0.5	9.53	780	< 0.5	< 2	1.62	< 0.5	25	71	167	7.14	2.14	1.30	1900
T-016A	299	232	< 0.5	8.99	410	< 0.5	< 2	0.74	< 0.5	36	130	138	9.79	1.51	1.22	1525
T-017A	299	232	< 0.5	9.88	380	< 0.5	< 2	0.44	< 0.5	44	142	154	10.50	1.44	0.98	1460
T-018A	299	232	< 0.5	12.30	60	< 0.5	< 2	0.08	< 0.5	39	64	138	10.40	0.27	0.22	2970
T-019A	299	232	< 0.5	11.85	250	< 0.5	< 2	0.15	< 0.5	39	120	160	11.00	0.87	0.77	1225
T-020A	299	232	0.5	10.30	290	< 0.5	< 2	0.06	< 0.5	40	63	167	8.36	1.34	0.39	1170
T-021A	299	232	< 0.5	12.40	110	< 0.5	< 2	0.18	< 0.5	19	112	174	11.35	0.54	0.45	700
T-022A	299	232	< 0.5	9.22	330	< 0.5	< 2	0.09	< 0.5	26	33	130	7.02	1.46	0.37	725
T-023A	299	232	< 0.5	10.40	820	< 0.5	< 2	0.19	< 0.5	26	55	152	6.29	3.24	0.69	710
T-024A	299	232	< 0.5	9.63	290	< 0.5	< 2	0.40	< 0.5	31	113	131	8.93	1.09	0.72	820
T-025A	299	232	< 0.5	9.32	430	< 0.5	< 2	1.10	< 0.5	50	206	147	13.10	1.61	1.42	1850

Soil (Ag, Al, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn) (6)

SAMPLE DESCRIPTION	PREP CODE		Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)
T-026A	299	232	< 0.5	8.32	450	< 0.5	< 2	1.02	< 0.5	36	190	130	10.80	1.77	1.23	1495
T-027A	299	232	< 0.5	8.47	420	< 0.5	< 2	0.98	< 0.5	37	184	122	10.10	1.60	1.28	1315
T-028A	299	232	< 0.5	9.32	330	< 0.5	< 2	1.29	< 0.5	25	47	102	6.92	1.34	1.57	1010
T-029A	299	232	< 0.5	8.83	570	< 0.5	< 2	1.24	< 0.5	29	104	140	6.97	2.39	1.65	1320
T-007B	299	232	< 0.5	12.10	680	< 0.5	< 2	0.29	< 0.5	16	25	167	5.61	2.23	0.96	1525
T-008B	299	232	< 0.5	9.99	920	< 0.5	< 2	3.03	0.5	15	15	152	4.30	2.79	1.42	1435
T-010B	299	232	< 0.5	12.10	510	< 0.5	< 2	0.25	< 0.5	15	6	85	6.16	2.74	0.70	1005
T-011B	299	--	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
T-012B	299	232	< 0.5	8.02	460	< 0.5	< 2	1.10	< 0.5	39	276	108	12.90	1.64	1.24	1380
T-016B	299	232	< 0.5	9.74	370	< 0.5	< 2	0.36	< 0.5	40	120	149	10.65	1.28	0.83	1715
T-017B	299	232	< 0.5	9.41	330	< 0.5	< 2	0.45	< 0.5	46	150	138	10.75	1.14	1.02	1150
T-018B	299	232	< 0.5	11.00	370	< 0.5	< 2	0.07	< 0.5	24	202	163	9.87	1.34	0.52	870
T-020B	299	232	0.5	10.45	390	< 0.5	< 2	0.12	< 0.5	46	87	193	8.35	1.67	0.53	1055
T-021B	299	232	< 0.5	10.45	360	< 0.5	< 2	1.12	< 0.5	69	168	125	10.40	1.10	1.13	1435
T-022B	299	232	< 0.5	12.55	450	< 0.5	< 2	0.07	< 0.5	17	15	83	5.74	2.21	0.62	730
T-023B	299	232	< 0.5	10.65	850	< 0.5	< 2	0.19	< 0.5	19	52	155	5.54	3.26	1.15	840
T-024B	299	232	< 0.5	9.74	420	< 0.5	< 2	0.34	< 0.5	37	126	173	10.10	1.58	0.89	740
T-025B	299	232	< 0.5	8.15	410	< 0.5	< 2	0.97	< 0.5	44	198	133	12.30	1.48	1.26	2130
T-026B	299	232	< 0.5	8.59	420	< 0.5	< 2	1.03	< 0.5	48	169	139	11.30	1.64	1.32	1220
T-027B	299	232	< 0.5	8.82	440	< 0.5	< 2	0.85	< 0.5	36	147	132	9.22	1.73	1.16	1570
T-028B	299	232	< 0.5	11.85	290	< 0.5	< 2	3.08	< 0.5	27	11	99	4.27	1.18	1.24	1610
T-029B	299	232	< 0.5	8.75	570	< 0.5	< 2	1.27	< 0.5	40	116	139	7.83	2.32	1.89	1735
Y-001A	299	232	< 0.5	7.65	510	< 0.5	< 2	3.83	< 0.5	47	646	127	9.95	1.57	3.76	1525
Y-003A	299	232	< 0.5	7.88	480	< 0.5	< 2	2.66	< 0.5	46	514	117	12.75	1.68	2.46	1495
Y-004A	299	232	< 0.5	8.69	510	< 0.5	< 2	2.05	< 0.5	41	308	125	10.85	1.82	1.97	1360
Y-005A	299	232	< 0.5	11.10	640	< 0.5	< 2	0.42	< 0.5	20	36	121	6.06	2.84	0.70	905
Y-006A	299	232	< 0.5	9.22	520	< 0.5	< 2	2.22	< 0.5	42	394	126	9.50	1.48	2.34	1280
Y-007A	299	232	< 0.5	8.44	600	< 0.5	< 2	2.63	< 0.5	42	472	121	8.63	1.89	2.63	1575
Y-008A	299	232	< 0.5	8.68	880	< 0.5	< 2	1.56	< 0.5	29	232	133	7.37	3.14	1.53	1080
Y-009A	299	232	< 0.5	9.04	930	< 0.5	< 2	1.24	< 0.5	27	153	136	6.22	3.50	1.36	1040
Y-010A	299	232	< 0.5	9.14	930	< 0.5	< 2	1.10	< 0.5	28	145	133	6.00	3.24	1.28	1025
Y-011A	299	232	< 0.5	7.68	550	< 0.5	< 2	3.49	< 0.5	47	682	126	8.71	1.62	3.91	1445
Y-012A	299	232	< 0.5	9.03	530	< 0.5	< 2	0.89	< 0.5	29	214	115	6.36	1.80	1.78	1105
Y-013A	299	232	< 0.5	7.01	430	< 0.5	< 2	3.46	< 0.5	54	1125	106	15.00	1.39	3.41	1600
Y-005B	299	232	< 0.5	11.10	1490	< 0.5	< 2	1.05	< 0.5	18	81	145	5.44	3.70	0.94	1090
Y-006B	299	232	< 0.5	8.43	480	< 0.5	< 2	2.86	< 0.5	47	607	127	11.70	1.46	2.75	1605
Y-008B	299	232	< 0.5	8.95	900	< 0.5	< 2	1.44	0.5	28	248	139	8.00	3.54	1.60	1130
Y-009B	299	232	< 0.5	9.83	1000	< 0.5	< 2	0.99	< 0.5	27	137	132	6.63	3.81	1.11	825
Y-010B	299	232	< 0.5	9.22	920	< 0.5	< 2	1.56	< 0.5	34	229	150	6.69	3.26	1.68	1265

Soil (Mo, Na, Ni, P, Pb, Sr, Ti, V, W, Zn)

SAMPLE DESCRIPTION	PREP CODE		Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)				
S-001A	299	--	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss				
S-002A	299	232	2	0.22	28	1040	4	80	0.68	526	< 10	120				
S-004A	299	232	6	0.74	12	850	8	493	0.41	237	< 10	82				
S-005A	299	--	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss				
S-007A	299	--	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss				
S-008A	299	232	1	0.43	< 1	620	8	858	0.42	224	< 10	98				
S-009A	299	232	2	0.87	< 1	660	12	689	0.38	173	< 10	66				
S-010A	299	232	2	0.88	6	1180	12	629	0.40	236	< 10	88				
S-011A	299	232	< 1	0.70	76	820	4	421	0.50	404	< 10	104				
S-012A	299	232	3	0.78	37	1120	14	522	0.40	254	< 10	112				
S-013A	299	232	3	0.75	33	1010	14	510	0.38	235	< 10	98				
S-014A	299	232	6	0.76	40	1140	8	526	0.36	246	< 10	96				
S-015A	299	232	< 1	0.80	20	960	12	604	0.38	209	< 10	82				
S-018A	299	232	< 1	0.61	27	510	6	339	0.77	601	< 10	134				
S-020A	299	232	< 1	0.30	30	1030	6	91	0.69	482	< 10	86				
S-021A	299	232	< 1	0.63	40	690	< 2	275	0.90	731	< 10	152				
S-023A	299	232	< 1	0.50	2	400	8	422	0.37	182	< 10	84				
S-025A	299	232	2	0.47	1	900	12	417	0.40	198	< 10	88				
S-026A	299	232	< 1	0.32	< 1	350	12	303	0.36	167	< 10	68				
S-027A	299	232	< 1	0.48	5	910	12	395	0.44	219	< 10	76				
S-028A	299	232	1	0.65	3	920	16	437	0.43	250	< 10	82				
S-029A	299	232	< 1	0.65	< 1	680	20	761	0.36	146	< 10	74				
S-030A	299	232	< 1	1.01	10	930	14	1000	0.46	286	< 10	118				
S-032A	299	232	< 1	0.57	41	640	< 2	258	0.89	713	< 10	154				
S-033A	299	232	< 1	0.23	11	290	< 2	91	0.28	175	< 10	38				
S-034A	299	232	< 1	0.68	29	690	4	349	0.46	323	< 10	90				
S-035A	299	232	1	0.60	13	730	4	230	0.42	214	< 10	74				
S-036A	299	232	< 1	0.38	10	820	8	138	0.48	278	< 10	84				
S-037A	299	--	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss				
S-039A	299	232	< 1	0.60	9	890	12	462	0.43	271	< 10	94				
S-040A	299	232	< 1	0.56	14	830	8	400	0.51	348	< 10	98				
S-041A	299	232	< 1	0.41	28	690	< 2	135	0.81	600	< 10	136				
S-042A	299	232	< 1	0.66	24	810	4	256	0.52	360	< 10	82				
S-043A	299	232	< 1	0.79	27	1140	4	311	0.55	407	< 10	110				
S-001B	299	232	< 1	0.29	26	450	14	158	0.58	377	< 10	78				
S-002B	299	232	< 1	0.24	10	850	10	48	0.46	341	< 10	70				
S-003B	299	232	4190	0.13	< 1	1030	120	109	0.18	342	< 10	46				
S-004B	299	232	< 1	0.60	11	380	10	422	0.47	242	< 10	66				
S-006B	299	232	61	0.21	4	2850	8	536	0.39	272	< 10	56				
S-007B	299	232	< 1	0.74	3	540	12	692	0.35	146	< 10	62				

Soil (Mo, Na, Ni, P, Pb, Sr, Ti, V, W, Zn)

SAMPLE DESCRIPTION	PREP CODE		Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)				
S-008B	299	--	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss				
S-009B	299	232	18	1.06	4	1160	16	626	0.34	237	< 10	68				
S-010B	299	--	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss				
S-011B	299	--	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss				
S-016B	299	232	8	1.44	87	1460	< 2	893	0.30	231	< 10	68				
S-017B	299	232	< 1	0.52	34	790	< 2	222	0.82	650	< 10	146				
S-018B	299	232	< 1	0.62	31	470	4	320	0.78	632	< 10	136				
S-020B	299	232	1	0.43	34	870	4	165	0.68	501	< 10	102				
S-021B	299	232	< 1	0.61	40	600	< 2	242	0.77	616	< 10	138				
S-023B	299	232	3	0.54	2	370	6	442	0.40	219	< 10	94				
S-025B	299	--	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss				
S-026B	299	232	1	0.40	1	360	22	381	0.38	155	< 10	74				
S-027B	299	232	5	0.52	8	710	12	460	0.46	217	< 10	66				
S-028B	299	232	4	0.69	4	860	12	447	0.46	259	< 10	80				
S-029B	299	232	4	0.60	1	350	8	725	0.39	141	< 10	66				
S-030B	299	232	3	0.70	3	720	8	804	0.44	263	< 10	98				
S-031B	299	232	5	0.40	< 1	1360	12	260	0.34	157	< 10	88				
S-032B	299	232	4	0.58	35	450	4	243	0.70	534	< 10	124				
S-033B	299	232	2	0.32	27	220	4	103	0.75	551	< 10	68				
S-034B	299	232	2	0.59	32	610	2	294	0.56	395	< 10	102				
S-035B	299	232	1	0.59	11	650	4	233	0.42	223	< 10	74				
S-036B	299	232	5	0.44	10	700	4	146	0.57	327	< 10	78				
S-037B	299	232	6	0.48	9	470	8	177	0.47	271	< 10	76				
S-039B	299	232	3	0.68	8	1020	14	552	0.47	292	< 10	104				
S-040B	299	232	6	0.36	27	350	4	165	0.79	570	< 10	96				
S-041B	299	232	4	0.58	24	810	2	203	0.71	521	< 10	126				
S-042B	299	232	2	0.62	27	690	4	232	0.54	386	< 10	84				
S-043B	299	232	2	0.74	24	1300	4	305	0.47	341	< 10	92				
T-007A	299	232	2	0.74	8	740	12	361	0.39	244	< 10	100				
T-008A	299	232	2	1.32	5	1380	12	856	0.47	354	< 10	124				
T-016A	299	232	< 1	0.60	26	650	22	221	0.59	413	< 10	106				
T-017A	299	232	2	0.50	28	540	8	172	0.62	430	< 10	96				
T-018A	299	232	< 1	0.26	26	680	4	18	0.67	395	< 10	86				
T-019A	299	232	3	0.32	41	600	2	54	0.69	448	< 10	94				
T-020A	299	232	3	0.32	20	460	4	68	0.55	331	< 10	102				
T-021A	299	232	1	0.29	31	530	2	43	0.70	461	< 10	106				
T-022A	299	232	2	0.24	10	550	4	67	0.52	265	< 10	104				
T-023A	299	232	< 1	0.93	27	470	8	353	0.47	282	< 10	98				
T-024A	299	232	< 1	0.43	24	430	2	139	0.55	353	< 10	76				
T-025A	299	232	< 1	0.67	33	1070	2	253	0.80	615	< 10	148				

Soil (Mo, Na, Ni, P, Pb, Sr, Ti, V, W, Zn)

SAMPLE DESCRIPTION	PREP CODE		Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)				
T-026A	299	232	< 1	0.74	29	1150	4	293	0.63	493	< 10	126				
T-027A	299	232	1	0.70	33	890	4	279	0.58	420	< 10	104				
T-028A	299	232	< 1	0.89	20	810	< 2	326	0.46	266	< 10	74				
T-029A	299	232	< 1	0.95	29	1770	4	419	0.39	272	< 10	78				
T-007B	299	232	2	0.77	7	650	6	352	0.35	220	< 10	100				
T-008B	299	232	1	1.94	3	2050	10	1015	0.33	202	< 10	92				
T-010B	299	232	1	0.58	3	1130	10	388	0.49	269	< 10	72				
T-011B	299	--	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss				
T-012B	299	232	< 1	0.60	34	630	2	299	0.90	704	< 10	154				
T-016B	299	232	< 1	0.44	30	550	2	151	0.62	442	< 10	98				
T-017B	299	232	< 1	0.48	33	570	< 2	140	0.64	474	< 10	96				
T-018B	299	232	< 1	0.33	36	290	6	189	0.52	398	< 10	50				
T-020B	299	232	< 1	0.35	26	430	4	108	0.51	335	< 10	114				
T-021B	299	232	< 1	0.61	39	700	< 2	143	0.74	484	< 10	100				
T-022B	299	232	< 1	0.48	9	530	4	117	0.43	217	< 10	64				
T-023B	299	232	< 1	0.95	41	330	4	403	0.39	206	< 10	92				
T-024B	299	232	< 1	0.49	30	690	4	171	0.56	424	< 10	100				
T-025B	299	232	< 1	0.63	32	860	4	237	0.74	592	< 10	142				
T-026B	299	232	< 1	0.66	31	1010	4	253	0.65	501	< 10	126				
T-027B	299	232	< 1	0.72	34	780	4	279	0.52	372	< 10	94				
T-028B	299	232	< 1	1.92	11	660	2	852	0.28	146	< 10	32				
T-029B	299	232	< 1	1.01	40	1640	2	420	0.39	310	< 10	62				
Y-001A	299	232	< 1	0.81	86	780	4	462	0.51	413	< 10	86				
Y-003A	299	232	< 1	0.69	61	690	4	354	0.74	618	< 10	120				
Y-004A	299	232	< 1	0.70	46	720	4	349	0.62	491	< 10	100				
Y-005A	299	232	< 1	1.08	3	600	24	345	0.44	261	< 10	58				
Y-006A	299	232	< 1	0.72	54	680	8	196	0.54	414	< 10	60				
Y-007A	299	232	< 1	0.87	71	870	8	416	0.47	339	< 10	86				
Y-008A	299	232	< 1	0.89	29	1240	8	546	0.47	325	< 10	98				
Y-009A	299	232	< 1	0.89	31	1050	12	575	0.40	251	< 10	76				
Y-010A	299	232	< 1	0.90	24	1070	12	566	0.39	240	< 10	72				
Y-011A	299	232	< 1	0.79	101	710	4	457	0.41	316	< 10	74				
Y-012A	299	232	< 1	0.61	49	370	8	320	0.33	219	< 10	54				
Y-013A	299	232	< 1	0.70	92	610	4	378	0.78	710	< 10	140				
Y-005B	299	232	< 1	1.37	51	1510	6	644	0.37	202	< 10	50				
Y-006B	299	232	< 1	0.70	69	810	8	357	0.66	574	< 10	106				
Y-008B	299	232	< 1	0.87	31	1150	16	535	0.49	357	< 10	104				
Y-009B	299	232	< 1	0.90	22	870	16	620	0.46	292	< 10	76				
Y-010B	299	232	< 1	0.92	40	1110	14	568	0.41	268	< 10	86				

Stream sediments (Au, Ag, As, Hg, Sb, Se, F, Te, Tl, Br, S)

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb	Ag ppm Aqua R	As ppm	Hg ppb	Sb ppm	Se ppm	F ppm	Te ppm	Tl ppm	Br NAA ppm	S % (Leco)			
S-003C	214	238	85	< 0.2	90	80	1.2	< 0.2	490	0.20	0.6	3.0	0.004			
S-004C	214	238	165	< 0.2	32	50	0.8	< 0.2	490	0.15	0.3	3.0	0.001			
S-005C	214	238	240	< 0.2	72	90	0.8	< 0.2	670	0.15	0.5	< 0.5	0.001			
S-009C	214	238	35	< 0.2	14	20	< 0.2	< 0.2	1180	0.10	0.3	3.0	< 0.001			
S-010C	214	238	62	< 0.2	19	50	0.2	< 0.2	540	0.10	0.4	6.5	0.001			
S-011C	214	238	62	< 0.2	42	50	< 0.2	< 0.2	230	0.70	0.2	< 0.5	0.014			
S-012C	214	238	138	< 0.2	42	100	0.2	< 0.2	370	1.05	0.3	5.0	0.002			
S-013C	214	238	40	< 0.2	24	150	< 0.2	< 0.2	230	0.20	0.1	< 0.5	0.018			
S-014C	214	238	73	< 0.2	30	60	0.2	< 0.2	310	0.25	0.2	3.5	0.009			
S-015C	214	238	30	< 0.2	24	40	< 0.2	< 0.2	280	0.20	0.2	2.5	0.010			
S-017C	214	238	3	< 0.2	1	20	< 0.2	< 0.2	160	< 0.05	< 0.1	< 0.5	0.009			
S-018C	214	238	1	< 0.2	1	50	< 0.2	< 0.2	180	< 0.05	< 0.1	2.0	0.006			
S-019C	214	238	< 1	< 0.2	1	10	< 0.2	< 0.2	160	< 0.05	< 0.1	0.5	0.008			
S-020C	214	238	1	< 0.2	1	20	< 0.2	< 0.2	170	< 0.05	< 0.1	< 0.5	0.007			
S-021C	214	238	2	< 0.2	2	10	< 0.2	< 0.2	220	< 0.05	< 0.1	1.5	0.002			
S-022C	214	238	1	< 0.2	2	10	< 0.2	< 0.2	140	< 0.05	< 0.1	2.0	0.004			
S-023C	214	238	4	< 0.2	2	10	< 0.2	< 0.2	190	< 0.05	< 0.1	2.0	0.002			
S-024C	214	238	2	< 0.2	2	20	< 0.2	< 0.2	190	< 0.05	< 0.1	3.0	< 0.001			
S-027C	214	238	8	< 0.2	7	40	< 0.2	< 0.2	290	0.20	0.2	9.0	0.001			
S-028C	214	238	7	< 0.2	3	20	< 0.2	< 0.2	260	0.30	0.3	15.5	< 0.001			
S-032C	214	238	2	< 0.2	1	30	< 0.2	< 0.2	190	< 0.05	< 0.1	3.0	0.001			
S-033C	214	238	265	< 0.2	3	30	< 0.2	< 0.2	260	0.05	0.1	2.0	< 0.001			
S-034C	214	238	2	< 0.2	3	20	< 0.2	< 0.2	270	< 0.05	< 0.1	4.5	0.001			
S-035C	214	238	4	< 0.2	2	20	< 0.2	< 0.2	210	< 0.05	< 0.1	4.5	0.001			
S-036C	214	238	2	< 0.2	2	20	< 0.2	< 0.2	270	0.05	0.1	4.5	0.001			
S-037C	214	238	3	< 0.2	2	30	< 0.2	< 0.2	240	0.05	< 0.1	4.0	< 0.001			
S-038C	214	238	2	< 0.2	7	20	< 0.2	< 0.2	260	0.25	< 0.1	4.5	0.001			
S-039C	214	238	12	< 0.2	7	20	< 0.2	< 0.2	310	0.25	0.1	2.5	< 0.001			
S-040C	214	238	3	< 0.2	6	30	< 0.2	< 0.2	310	0.35	0.1	1.5	0.001			
S-041C	214	238	3	< 0.2	1	20	< 0.2	< 0.2	190	0.05	< 0.1	1.0	0.002			
S-042C	214	238	5	< 0.2	1	20	< 0.2	< 0.2	170	< 0.05	< 0.1	2.0	< 0.001			
S-003F	214	238	87	< 0.2	74	80	0.8	< 0.2	not/ss	not/ss	not/ss	2.5	0.032			
S-004F	214	238	327	< 0.2	62	40	0.6	< 0.2	500	0.10	0.3	2.0	0.001			
S-005F	214	238	81	0.6	28	40	0.4	< 0.2	490	0.15	0.2	2.5	0.001			
S-009F	214	238	29	< 0.2	11	20	0.2	< 0.2	920	0.05	0.2	2.5	0.001			
S-010F	214	238	227	< 0.2	20	50	0.4	< 0.2	470	0.10	0.2	5.5	0.002			
S-011F	214	238	1130	< 0.2	50	100	0.6	< 0.2	280	1.00	0.2	1.5	0.019			
S-012F	214	238	164	< 0.2	44	110	0.4	< 0.2	410	1.10	0.2	6.0	0.016			
S-013F	214	238	130	< 0.2	28	60	0.4	< 0.2	410	0.40	0.2	4.0	0.007			
S-014F	214	238	67	< 0.2	30	50	0.4	< 0.2	320	0.40	0.3	3.5	0.019			

Stream sediments (Au, Ag, As, Hg, Sb, Se, F, Te, Tl, Br, S)

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb	Ag ppm Aqua R	As ppm	Hg ppb	Sb ppm	Se ppm	F ppm	Te ppm	Tl ppm	Br NAA ppm	S % (Leco)			
S-015F	214	238	146	< 0.2	24	60	0.2	< 0.2	390	0.25	0.3	3.5	0.009			
S-017F	214	238	1	< 0.2	1	20	< 0.2	< 0.2	120	< 0.05	< 0.1	< 0.5	0.004			
S-018F	214	238	2	< 0.2	1	20	< 0.2	< 0.2	120	< 0.05	< 0.1	< 0.5	0.005			
S-019F	214	238	< 1	< 0.2	1	20	< 0.2	< 0.2	140	< 0.05	< 0.1	< 0.5	0.004			
S-020F	214	238	< 1	< 0.2	1	20	< 0.2	< 0.2	130	< 0.05	< 0.1	< 0.5	0.006			
S-021F	214	238	1	< 0.2	1	20	< 0.2	< 0.2	110	< 0.05	< 0.1	2.0	< 0.001			
S-022F	214	238	< 1	< 0.2	1	20	< 0.2	< 0.2	200	< 0.05	0.1	2.0	< 0.001			
S-023F	214	238	< 1	< 0.2	2	20	< 0.2	< 0.2	230	< 0.05	0.1	2.0	< 0.001			
S-024F	214	238	3	< 0.2	2	20	< 0.2	< 0.2	210	< 0.05	0.1	3.0	< 0.001			
S-027F	214	238	12	< 0.2	6	30	< 0.2	< 0.2	310	0.10	0.2	12.0	0.001			
S-028F	214	238	2	< 0.2	2	30	< 0.2	< 0.2	380	0.25	0.3	15.5	0.002			
S-032F	214	238	1	< 0.2	1	20	< 0.2	< 0.2	150	< 0.05	< 0.1	3.0	0.001			
S-033F	214	238	2	< 0.2	4	20	< 0.2	< 0.2	240	< 0.05	0.1	3.5	< 0.001			
S-034F	214	238	1	< 0.2	2	20	< 0.2	< 0.2	200	< 0.05	< 0.1	4.5	0.001			
S-035F	214	238	< 1	< 0.2	1	20	< 0.2	< 0.2	240	< 0.05	< 0.1	4.5	< 0.001			
S-036F	214	238	4	< 0.2	3	30	< 0.2	< 0.2	300	0.05	0.1	5.5	< 0.001			
S-037F	214	238	3	< 0.2	2	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	1.5	0.006			
S-038F	214	238	30	< 0.2	4	20	< 0.2	< 0.2	370	0.25	0.2	5.5	0.001			
S-039F	214	238	< 1	< 0.2	4	not/ss	< 0.2	< 0.2	not/ss	not/ss	not/ss	2.0	not/ss			
S-040F	214	238	17	< 0.2	4	40	< 0.2	< 0.2	340	0.20	0.1	1.0	0.001			
S-041F	214	238	43	< 0.2	1	20	0.4	< 0.2	230	< 0.10	< 0.1	1.5	< 0.001			
S-042F	214	238	2	< 0.2	1	not/ss	< 0.2	< 0.2	200	not/ss	< 0.1	< 0.5	< 0.001			
T-005C	214	238	< 1	< 0.2	1	20	< 0.2	< 0.2	130	< 0.05	< 0.1	< 0.5	0.002			
T-006C	214	238	2	< 0.2	24	30	0.4	1.6	340	1.45	0.1	2.5	0.020			
T-008C	214	238	2	< 0.2	1	20	< 0.2	< 0.2	200	< 0.05	< 0.1	1.0	0.002			
T-009C	214	238	< 1	< 0.2	1	10	< 0.2	< 0.2	120	< 0.05	< 0.1	< 0.5	0.004			
T-010C	214	238	< 1	< 0.2	3	50	< 0.2	< 0.2	510	0.35	0.2	1.0	0.002			
T-011C	214	238	1	< 0.2	1	20	< 0.2	< 0.2	140	< 0.05	< 0.1	< 0.5	0.007			
T-012C	214	238	5	< 0.2	1	20	< 0.2	< 0.2	220	< 0.05	< 0.1	1.0	0.002			
T-013C	214	238	< 1	< 0.2	< 1	10	0.2	< 0.2	120	< 0.05	< 0.1	< 0.5	0.005			
T-014C	214	238	1	< 0.2	1	10	< 0.2	< 0.2	180	< 0.05	< 0.1	< 0.5	0.002			
T-015C	214	238	< 1	< 0.2	1	10	< 0.2	< 0.2	120	< 0.05	< 0.1	< 0.5	0.003			
T-016C	214	238	66	< 0.2	1	10	< 0.2	< 0.2	140	< 0.05	< 0.1	< 0.5	0.001			
T-017C	214	238	5	< 0.2	1	10	< 0.2	< 0.2	120	< 0.05	< 0.1	< 0.5	0.004			
T-018C	214	238	4	< 0.2	1	10	< 0.2	< 0.2	130	< 0.05	< 0.1	< 0.5	0.001			
T-019C	214	238	< 1	< 0.2	1	10	< 0.2	< 0.2	120	< 0.05	< 0.1	< 0.5	0.002			
T-020C	214	238	4	< 0.2	1	10	< 0.2	< 0.2	110	< 0.05	0.1	< 0.5	0.001			
T-021C	214	238	< 1	< 0.2	1	10	< 0.2	< 0.2	70	< 0.05	< 0.1	< 0.5	0.002			
T-022C	214	238	2	< 0.2	1	10	< 0.2	< 0.2	150	< 0.05	< 0.1	1.0	< 0.001			
T-023C	214	238	3	< 0.2	1	10	< 0.2	< 0.2	170	< 0.05	< 0.1	< 0.5	< 0.001			

Stream sediments (Au, Ag, As, Hg, Sb, Se, F, Te, Tl, Br, S)

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb	Ag ppm Aqua R	As ppm	Hg ppb	Sb ppm	Se ppm	F ppm	Te ppm	Tl ppm	Br NAA ppm	S % (Leco)			
T-024C	214	238	1	< 0.2	3	20	0.4	< 0.2	120	< 0.10	0.1	0.5	0.004			
T-025C	214	238	3	< 0.2	1	10	0.2	< 0.2	70	< 0.05	0.1	< 0.5	0.003			
T-026C	214	238	2	< 0.2	1	10	< 0.2	< 0.2	90	< 0.05	< 0.1	< 0.5	0.002			
T-027C	214	238	8	< 0.2	1	20	< 0.2	< 0.2	110	< 0.05	0.1	2.5	0.001			
T-028C	214	238	2	< 0.2	1	10	< 0.2	< 0.2	170	< 0.05	0.1	1.0	< 0.001			
T-005F	214	238	< 1	< 0.2	1	10	< 0.2	< 0.2	80	< 0.05	0.1	< 0.5	0.011			
T-006F	214	238	19	< 0.2	12	20	0.4	0.8	260	0.75	0.2	1.5	0.063			
T-008F	214	238	3	< 0.2	1	10	< 0.2	< 0.2	100	< 0.05	0.1	< 0.5	0.011			
T-009F	214	238	< 1	< 0.2	1	10	< 0.2	< 0.2	300	< 0.05	< 0.1	< 0.5	0.011			
T-010F	214	238	< 1	< 0.2	1	not/ss	< 0.2	< 0.2	120	not/ss	0.2	1.5	not/ss			
T-011F	214	238	15	< 0.2	1	10	< 0.2	< 0.2	150	< 0.05	0.1	< 0.5	0.009			
T-012F	214	238	577	< 0.2	1	10	< 0.2	< 0.2	90	< 0.05	0.1	0.5	0.008			
T-013F	214	238	< 1	< 0.2	1	10	< 0.2	< 0.2	100	< 0.05	0.1	< 0.5	0.012			
T-014F	214	238	< 1	< 0.2	< 1	10	< 0.2	< 0.2	80	< 0.05	0.1	< 0.5	0.011			
T-015F	214	238	2	< 0.2	< 1	10	< 0.2	< 0.2	80	< 0.05	0.1	< 0.5	0.014			
T-016F	214	238	2	< 0.2	< 1	10	< 0.2	< 0.2	110	< 0.05	0.1	< 0.5	0.007			
T-017F	214	238	26	< 0.2	1	10	< 0.2	< 0.2	120	< 0.05	0.1	< 0.5	0.009			
T-018F	214	238	501	< 0.2	1	10	< 0.2	< 0.2	130	< 0.05	0.1	1.0	0.010			
T-019F	214	238	< 1	< 0.2	1	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	< 0.5	not/ss			
T-020F	214	238	< 1	< 0.2	1	10	< 0.2	< 0.2	90	0.05	< 0.1	< 0.5	0.002			
T-021F	214	238	2	< 0.2	1	20	0.2	< 0.2	170	< 0.05	< 0.1	< 0.5	0.008			
T-024F	214	238	< 1	< 0.2	1	not/ss	< 0.2	< 0.2	140	not/ss	< 0.2	1.0	not/ss			
T-025F	214	238	4	< 0.2	2	20	< 0.2	< 0.2	110	< 0.05	0.1	< 0.5	0.004			
T-026F	214	238	2	< 0.2	2	10	< 0.2	< 0.2	120	< 0.05	0.1	< 0.5	0.001			
T-027F	214	238	24	< 0.2	1	20	< 0.2	< 0.2	110	< 0.25	0.1	1.5	< 0.001			
T-028F	214	238	2	< 0.2	3	not/ss	< 0.2	< 0.2	240	not/ss	0.1	0.5	0.002			
Y-001C	214	238	3	< 0.2	3	10	< 0.2	< 0.2	180	< 0.05	0.1	< 0.5	0.017			
Y-002C	214	238	1	< 0.2	2	20	< 0.2	< 0.2	180	< 0.05	< 0.1	< 0.5	0.006			
Y-003C	214	238	< 1	< 0.2	2	20	< 0.2	< 0.2	180	< 0.05	0.1	< 0.5	0.010			
Y-004C	214	238	2	< 0.2	20	60	< 0.2	< 0.2	680	< 0.05	0.2	0.5	0.002			
Y-005C	214	238	1	< 0.2	3	10	< 0.2	< 0.2	160	1.25	0.1	< 0.5	0.078			
Y-007C	214	238	< 1	< 0.2	2	10	< 0.2	< 0.2	120	< 0.05	0.1	< 0.5	0.043			
Y-008C	214	238	44	< 0.2	26	50	0.4	< 0.2	190	0.15	0.2	< 0.5	0.028			
Y-009C	214	238	44	< 0.2	28	40	0.2	< 0.2	220	0.10	0.1	1.5	0.034			
Y-010C	214	238	51	< 0.2	34	40	0.2	< 0.2	220	0.10	0.2	1.0	0.017			
Y-011C	214	238	< 1	< 0.2	3	20	< 0.2	< 0.2	130	< 0.05	< 0.1	1.0	0.033			
Y-012C	214	238	1	< 0.2	2	10	< 0.2	< 0.2	110	< 0.05	< 0.1	< 0.5	0.026			
Y-013C	214	238	< 1	< 0.2	2	10	< 0.2	< 0.2	90	< 0.05	< 0.1	< 0.5	0.012			
Y-001F	214	238	2	< 0.2	2	20	< 0.2	< 0.2	190	< 0.05	< 0.1	< 0.5	0.017			
Y-002F	214	238	2	< 0.2	2	10	< 0.2	< 0.2	170	< 0.05	< 0.1	< 0.5	0.011			

Stream sediments (Au, Ag, As, Hg, Sb, Se, F, Te, Tl, Br, S)

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb	Ag ppm Aqua R	As ppm	Hg ppb	Sb ppm	Se ppm	F ppm	Te ppm	Tl ppm	Br NAA ppm	S % (Leco)			
Y-003F	214	238	1	< 0.2	2	20	< 0.2	< 0.2	160	< 0.05	< 0.1	0.5	0.019			
Y-004F	214	238	64	< 0.2	12	30	< 0.2	< 0.2	560	< 0.05	0.1	1.0	0.019			
Y-005F	214	238	3390	< 0.2	2	not/ss	< 0.2	< 0.2	320	< 0.10	< 0.1	< 0.5	not/ss			
Y-007F	214	238	< 1	< 0.2	1	10	< 0.2	< 0.2	130	< 0.05	< 0.1	< 0.5	0.061			
Y-008F	214	238	66	< 0.2	28	50	0.4	< 0.2	320	0.15	0.2	1.5	0.057			
Y-009F	214	238	57	< 0.2	38	50	0.4	< 0.2	380	0.35	0.2	1.0	0.040			
Y-010F	214	238	37	< 0.2	32	60	< 0.2	< 0.2	400	0.20	0.2	3.0	0.025			
Y-011F	214	238	5	< 0.2	2	20	< 0.2	< 0.2	160	< 0.05	< 0.1	1.0	0.023			
Y-012F	214	238	5	< 0.2	3	not/ss	< 0.2	< 0.2	not/ss	not/ss	not/ss	0.5	not/ss			
Y-013F	214	238	2	< 0.2	1	not/ss	< 0.2	< 0.2	130	0.10	< 0.1	< 0.5	0.040			

Stream sediments (Ag, Al, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn)

SAMPLE DESCRIPTION	PREP CODE		Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)
S-003C	299	232	< 0.5	8.58	800	1.5	< 2	0.91	0.5	23	85	193	6.39	2.93	1.28	955
S-004C	299	232	< 0.5	8.76	750	0.5	< 2	0.75	0.5	23	79	205	6.98	2.76	1.20	880
S-005C	299	232	< 0.5	8.40	950	< 0.5	< 2	1.35	< 0.5	29	93	173	6.87	3.55	1.42	1215
S-009C	299	232	< 0.5	10.30	1180	< 0.5	< 2	0.43	< 0.5	13	16	128	5.26	4.66	0.75	775
S-010C	299	232	< 0.5	9.54	1170	< 0.5	< 2	0.74	< 0.5	18	57	115	5.94	4.46	0.76	845
S-011C	299	232	< 0.5	5.10	370	< 0.5	< 2	7.53	< 0.5	28	504	75	6.87	1.37	4.89	1180
S-012C	299	232	< 0.5	6.80	590	< 0.5	< 2	4.68	< 0.5	28	373	104	6.97	2.20	3.38	1430
S-013C	299	232	< 0.5	4.79	350	< 0.5	< 2	8.30	< 0.5	22	499	56	6.06	1.34	5.10	1080
S-014C	299	232	< 0.5	5.53	500	< 0.5	< 2	6.45	< 0.5	27	432	76	6.63	1.86	4.19	1320
S-015C	299	232	< 0.5	5.22	440	< 0.5	< 2	7.44	< 0.5	26	477	68	6.77	1.61	4.69	1270
S-017C	299	232	< 0.5	4.66	210	< 0.5	< 2	3.50	< 0.5	54	590	71	23.6	0.66	2.78	2000
S-018C	299	232	< 0.5	5.17	230	< 0.5	< 2	5.30	< 0.5	37	362	73	12.35	0.87	3.53	1380
S-019C	299	232	< 0.5	3.99	190	< 0.5	< 2	4.87	< 0.5	41	456	56	17.80	0.58	3.30	1695
S-020C	299	232	< 0.5	5.24	290	< 0.5	< 2	5.38	< 0.5	41	319	73	11.75	1.03	3.52	1430
S-021C	299	232	< 0.5	6.45	290	< 0.5	< 2	3.61	< 0.5	39	268	94	12.35	1.09	2.62	1385
S-022C	299	232	< 0.5	3.92	150	< 0.5	< 2	2.92	< 0.5	54	532	56	24.4	0.50	2.38	1875
S-023C	299	232	< 0.5	5.69	310	< 0.5	< 2	2.86	< 0.5	45	417	81	18.10	1.09	2.24	1610
S-024C	299	232	< 0.5	6.51	370	< 0.5	< 2	3.49	< 0.5	34	242	91	10.95	1.34	2.53	1260
S-027C	299	232	< 0.5	8.69	720	< 0.5	< 2	0.99	< 0.5	20	64	95	6.55	2.54	0.82	1015
S-028C	299	232	< 0.5	9.29	840	< 0.5	< 2	0.48	< 0.5	19	22	95	6.14	2.85	0.53	965
S-032C	299	232	< 0.5	5.68	250	< 0.5	< 2	3.30	< 0.5	41	353	87	16.00	0.86	2.54	1495
S-033C	299	232	< 0.5	7.22	380	< 0.5	< 2	3.10	< 0.5	29	192	106	8.11	1.49	2.28	1020
S-034C	299	232	< 0.5	7.84	370	< 0.5	< 2	2.64	< 0.5	32	162	112	8.57	1.55	1.99	1175
S-035C	299	232	< 0.5	6.67	290	< 0.5	< 2	2.56	< 0.5	35	281	101	13.25	1.27	2.04	1350
S-036C	299	232	< 0.5	7.29	390	< 0.5	< 2	0.66	< 0.5	33	103	114	11.20	1.50	0.75	1360
S-037C	299	232	< 0.5	5.63	270	< 0.5	< 2	1.13	< 0.5	28	181	98	15.30	1.26	1.07	1485
S-038C	299	232	< 0.5	6.87	540	< 0.5	< 2	2.66	< 0.5	24	164	85	9.19	1.95	1.96	1215
S-039C	299	232	< 0.5	6.74	580	< 0.5	< 2	2.01	< 0.5	21	119	90	9.10	2.11	1.48	1055
S-040C	299	232	< 0.5	6.75	610	< 0.5	< 2	2.26	< 0.5	20	136	89	9.65	2.14	1.63	1115
S-041C	299	232	< 0.5	5.73	280	< 0.5	< 2	4.14	< 0.5	38	196	82	12.45	0.96	2.84	1735
S-042C	299	232	< 0.5	5.21	260	< 0.5	< 2	4.00	< 0.5	31	351	76	10.90	1.02	2.69	1340
S-003F	299	232	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
S-004F	299	232	< 0.5	8.40	930	< 0.5	< 2	1.24	< 0.5	26	114	173	7.50	3.57	1.30	1105
S-005F	299	232	< 0.5	8.64	720	< 0.5	< 2	0.81	< 0.5	23	98	196	6.69	2.60	1.17	860
S-009F	299	232	< 0.5	10.20	1150	1.0	< 2	0.38	< 0.5	12	13	124	5.36	4.37	0.71	700
S-010F	299	232	< 0.5	9.51	1210	< 0.5	< 2	0.61	< 0.5	16	59	113	6.26	4.42	0.67	775
S-011F	299	232	< 0.5	5.52	350	< 0.5	< 2	6.07	< 0.5	34	630	95	9.32	1.45	4.19	1405
S-012F	299	232	< 0.5	7.03	630	< 0.5	< 2	3.51	< 0.5	29	454	113	7.83	2.37	2.79	1390
S-013F	299	232	< 0.5	7.64	740	< 0.5	< 2	3.19	< 0.5	27	264	114	6.21	2.83	2.52	1175
S-014F	299	232	< 0.5	6.01	580	< 0.5	< 2	5.33	< 0.5	28	402	83	6.60	2.13	3.66	1230

Stream sediments (Ag, Al, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn)

SAMPLE DESCRIPTION	PREP CODE		Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)
S-015F	299	232	< 0.5	7.11	670	< 0.5	< 2	3.87	< 0.5	31	390	111	7.47	2.53	2.88	1245
S-017F	299	232	< 0.5	3.82	140	< 0.5	< 2	2.08	< 0.5	54	595	64	>25.0	0.51	1.87	1925
S-018F	299	232	< 0.5	3.54	120	< 0.5	< 2	1.56	< 0.5	54	675	62	>25.0	0.46	1.62	2010
S-019F	299	232	< 0.5	3.80	140	< 0.5	< 2	1.79	< 0.5	56	660	62	>25.0	0.51	1.75	2020
S-020F	299	232	< 0.5	5.65	190	< 0.5	< 2	2.90	< 0.5	96	1405	106	>25.0	0.63	3.02	3660
S-021F	299	232	< 0.5	6.94	310	< 0.5	< 2	2.18	< 0.5	42	291	108	14.10	1.15	1.87	1450
S-022F	299	232	< 0.5	4.89	190	< 0.5	< 2	1.76	< 0.5	54	600	78	23.8	0.71	1.76	1855
S-023F	299	232	< 0.5	6.28	330	< 0.5	< 2	1.62	< 0.5	38	409	96	17.20	1.21	1.53	1470
S-024F	299	232	< 0.5	6.30	290	< 0.5	< 2	1.85	< 0.5	44	431	97	18.10	1.05	1.72	1665
S-027F	299	232	< 0.5	8.78	770	0.5	< 2	0.80	< 0.5	17	51	102	5.81	2.67	0.71	985
S-028F	299	232	< 0.5	9.44	890	1.5	< 2	0.41	< 0.5	12	25	101	5.53	2.95	0.51	835
S-032F	299	232	< 0.5	5.13	220	< 0.5	< 2	1.85	< 0.5	55	513	83	23.7	0.74	1.77	1860
S-033F	299	232	< 0.5	7.08	410	< 0.5	< 2	2.19	< 0.5	30	217	114	9.29	1.50	1.80	1055
S-034F	299	232	< 0.5	5.89	250	< 0.5	< 2	1.87	< 0.5	37	409	105	16.10	1.02	1.63	1455
S-035F	299	232	< 0.5	6.08	250	< 0.5	< 2	1.63	< 0.5	40	426	110	17.65	1.07	1.57	1520
S-036F	299	232	< 0.5	7.71	370	< 0.5	< 2	0.57	< 0.5	31	107	120	10.60	1.68	0.73	1250
S-037F	299	232	< 0.5	5.25	230	< 0.5	< 2	0.64	< 0.5	38	287	110	21.5	1.11	0.88	2020
S-038F	299	232	< 0.5	8.12	700	< 0.5	< 2	1.14	< 0.5	26	124	99	10.65	2.50	0.99	1300
S-039F	299	232	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
S-040F	299	232	< 0.5	7.03	660	< 0.5	< 2	1.54	< 0.5	25	130	106	11.25	2.34	1.14	1160
S-041F	299	232	< 0.5	5.27	220	< 0.5	< 2	2.05	< 0.5	37	237	79	19.05	0.86	1.66	1835
S-042F	299	232	< 0.5	4.63	260	< 0.5	< 2	2.51	< 0.5	31	643	66	21.0	1.04	1.79	1405
T-005C	299	232	< 0.5	2.89	80	< 0.5	< 2	3.54	< 0.5	57	633	36	>25.0	0.27	2.73	2240
T-006C	299	232	< 0.5	6.49	340	< 0.5	< 2	0.35	< 0.5	21	30	147	19.90	1.21	0.52	2100
T-008C	299	232	< 0.5	5.27	300	< 0.5	< 2	4.19	< 0.5	39	364	72	15.30	1.10	2.90	1530
T-009C	299	232	< 0.5	3.01	90	< 0.5	< 2	5.88	< 0.5	41	583	36	22.7	0.29	3.89	1825
T-010C	299	232	< 0.5	8.83	880	< 0.5	< 2	1.00	< 0.5	25	41	77	12.35	3.51	1.03	1680
T-011C	299	232	< 0.5	3.28	130	< 0.5	< 2	3.08	< 0.5	53	657	45	>25.0	0.40	2.48	1980
T-012C	299	232	< 0.5	5.27	270	3.0	< 2	3.85	< 0.5	43	414	71	15.85	0.95	2.71	1535
T-013C	299	232	< 0.5	3.29	100	< 0.5	< 2	2.50	< 0.5	63	680	40	>25.0	0.35	2.12	2060
T-014C	299	232	< 0.5	5.08	250	< 0.5	< 2	4.01	< 0.5	42	425	66	15.95	0.87	2.76	1550
T-015C	299	232	< 0.5	3.01	80	< 0.5	< 2	3.36	< 0.5	57	658	34	>25.0	0.27	2.56	2010
T-016C	299	232	< 0.5	3.68	110	< 0.5	< 2	1.89	< 0.5	53	522	49	>25.0	0.38	1.64	2040
T-017C	299	232	< 0.5	3.90	160	< 0.5	< 2	2.45	< 0.5	51	493	54	22.6	0.52	1.92	1925
T-018C	299	232	< 0.5	4.48	190	< 0.5	< 2	2.43	< 0.5	50	465	66	21.5	0.62	1.92	1890
T-019C	299	232	< 0.5	4.22	140	< 0.5	< 2	7.69	< 0.5	41	473	42	13.40	0.48	4.67	1620
T-020C	299	232	< 0.5	4.27	150	< 0.5	< 2	3.81	< 0.5	48	425	54	18.65	0.50	2.66	1665
T-021C	299	232	< 0.5	4.26	110	< 0.5	< 2	5.59	< 0.5	46	501	52	19.35	0.33	3.49	1815
T-022C	299	232	< 0.5	6.28	240	< 0.5	< 2	3.31	< 0.5	40	277	94	14.20	0.91	2.41	1410
T-023C	299	232	< 0.5	6.22	340	< 0.5	< 2	4.04	< 0.5	40	270	93	11.55	1.00	2.76	1605

Stream sediments (Ag, Al, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn)

SAMPLE DESCRIPTION	PREP CODE		Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)
T-024C	299	232	< 0.5	3.86	180	< 0.5	< 2	3.52	< 0.5	39	433	57	19.75	0.56	2.49	1720
T-025C	299	232	< 0.5	2.86	70	< 0.5	< 2	1.75	< 0.5	51	516	39	>25.0	0.24	1.61	2110
T-026C	299	232	< 0.5	3.03	100	< 0.5	< 2	1.86	< 0.5	50	491	45	>25.0	0.31	1.68	2080
T-027C	299	232	< 0.5	5.44	250	< 0.5	< 2	3.39	< 0.5	38	384	82	13.35	0.79	2.37	1260
T-028C	299	232	< 0.5	4.53	200	< 0.5	< 2	4.64	< 0.5	29	397	59	14.05	0.81	3.12	1360
T-005F	299	232	< 0.5	2.54	50	< 0.5	< 2	1.04	< 0.5	73	863	43	>25.0	0.15	1.53	2740
T-006F	299	232	< 0.5	3.68	190	< 0.5	< 2	0.18	< 0.5	26	40	105	>25.0	0.62	0.50	3350
T-008F	299	232	< 0.5	2.90	90	< 0.5	< 2	2.02	< 0.5	63	836	51	>25.0	0.24	1.91	2540
T-009F	299	232	< 0.5	2.28	50	< 0.5	< 2	3.24	< 0.5	56	717	37	>25.0	0.08	2.46	2200
T-010F	299	232	< 0.5	4.80	350	< 0.5	< 2	0.54	< 0.5	60	41	33	>25.0	1.39	1.05	3720
T-011F	299	232	< 0.5	2.80	80	< 0.5	< 2	1.27	< 0.5	73	916	48	>25.0	0.19	1.58	2410
T-012F	299	232	< 0.5	3.69	140	< 0.5	< 2	1.93	< 0.5	56	723	55	>25.0	0.48	1.83	1995
T-013F	299	232	< 0.5	2.73	60	< 0.5	< 2	1.81	< 0.5	73	939	42	>25.0	0.15	1.92	2500
T-014F	299	232	< 0.5	3.03	90	< 0.5	< 2	2.09	< 0.5	61	843	49	>25.0	0.27	1.95	2230
T-015F	299	232	1.0	2.30	40	< 0.5	< 2	0.99	< 0.5	70	876	45	>25.0	0.08	1.38	2280
T-016F	299	232	< 0.5	2.61	100	< 0.5	< 2	0.71	< 0.5	54	737	47	>25.0	0.15	0.98	2220
T-017F	299	232	< 0.5	3.97	220	< 0.5	< 2	1.08	< 0.5	63	637	60	>25.0	0.54	1.25	2270
T-018F	299	232	< 0.5	3.47	130	< 0.5	< 2	1.55	< 0.5	58	639	57	>25.0	0.41	1.43	2140
T-019F	299	232	< 0.5	4.60	150	< 0.5	< 2	4.76	< 0.5	56	621	66	20.00	0.46	3.29	1910
T-020F	299	232	< 0.5	3.79	60	< 0.5	< 2	1.65	< 0.5	65	693	56	>25.0	0.19	1.57	2310
T-021F	299	232	< 0.5	3.22	100	< 0.5	< 2	1.45	< 0.5	68	668	57	>25.0	0.26	1.49	2160
T-024F	299	232	< 0.5	4.19	170	< 0.5	< 2	1.90	< 0.5	47	561	68	23.8	0.57	1.59	1825
T-025F	299	232	< 0.5	3.24	100	< 0.5	< 2	1.08	< 0.5	60	690	51	>25.0	0.28	1.23	2260
T-026F	299	232	< 0.5	4.33	160	< 0.5	< 2	1.20	< 0.5	68	620	66	>25.0	0.56	1.42	2500
T-027F	299	232	< 0.5	4.24	190	< 0.5	< 2	1.52	< 0.5	40	831	69	24.1	0.66	1.15	1250
T-028F	299	232	< 0.5	5.82	340	< 0.5	< 2	2.12	< 0.5	37	509	83	17.35	1.37	1.72	1455
Y-001C	299	232	< 0.5	3.71	230	< 0.5	< 2	9.26	< 0.5	37	791	44	10.05	0.60	5.68	1630
Y-002C	299	232	< 0.5	4.19	250	< 0.5	< 2	8.52	< 0.5	28	621	78	7.64	0.85	5.26	1300
Y-003C	299	232	< 0.5	4.79	300	< 0.5	< 2	7.57	< 0.5	40	615	65	10.55	1.02	4.67	1500
Y-004C	299	232	< 0.5	7.24	500	< 0.5	< 2	2.93	< 0.5	38	181	102	14.95	1.83	2.07	2670
Y-005C	299	232	< 0.5	4.20	450	< 0.5	< 2	8.90	< 0.5	26	546	91	6.92	0.83	5.21	1290
Y-007C	299	232	< 0.5	3.39	320	< 0.5	< 2	10.65	< 0.5	27	672	34	7.61	0.46	6.08	1320
Y-008C	299	232	< 0.5	5.09	500	< 0.5	< 2	7.62	< 0.5	28	563	71	7.40	1.73	4.60	1260
Y-009C	299	232	< 0.5	4.68	360	< 0.5	< 2	7.51	< 0.5	31	655	72	9.14	1.30	4.58	1415
Y-010C	299	232	< 0.5	4.51	330	1.5	< 2	8.71	< 0.5	29	530	60	7.25	1.26	5.06	1320
Y-011C	299	232	< 0.5	3.39	130	2.5	< 2	9.00	< 0.5	40	1105	35	12.25	0.37	5.55	1590
Y-012C	299	232	< 0.5	3.11	120	2.0	< 2	10.25	< 0.5	27	578	28	6.83	0.40	5.92	1205
Y-013C	299	232	< 0.5	2.94	90	2.5	< 2	10.85	< 0.5	24	733	20	7.02	0.26	6.24	1195
Y-001F	299	232	< 0.5	4.33	270	5.5	< 2	7.57	< 0.5	43	804	53	11.35	0.82	4.91	1585
Y-002F	299	232	< 0.5	4.11	220	6.0	< 2	4.78	< 0.5	54	893	61	19.50	0.67	3.40	1975

Stream sediments (Mo, Na, Ni, P, Pb, Sr, Ti, V, W, Zn)

SAMPLE DESCRIPTION	PREP CODE		Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)
Y-003F	299	232	< 0.5	3.62	170	< 0.5	< 2	3.80	< 0.5	52	894	52	22.1	0.55	2.89	1905
Y-004F	299	232	< 0.5	6.66	470	< 0.5	< 2	2.75	< 0.5	42	269	99	17.10	1.69	1.96	2790
Y-005F	299	232	< 0.5	5.09	310	< 0.5	< 2	4.00	< 0.5	49	616	77	18.95	1.15	2.92	1875
Y-007F	299	232	< 0.5	3.04	60	< 0.5	< 2	2.21	< 0.5	97	1455	39	>25.0	0.13	2.34	3050
Y-008F	299	232	< 0.5	5.81	510	< 0.5	< 2	5.64	< 0.5	34	520	86	10.45	2.05	3.69	1425
Y-009F	299	232	< 0.5	6.47	570	< 0.5	< 2	4.35	< 0.5	34	464	108	9.22	2.07	3.20	1415
Y-010F	299	232	< 0.5	6.82	640	< 0.5	< 2	4.05	0.5	29	348	100	6.98	2.42	2.89	1255
Y-011F	299	232	< 0.5	4.08	190	< 0.5	< 2	7.75	< 0.5	40	1195	52	14.20	0.53	5.09	1620
Y-012F	299	232	< 0.5	4.69	270	< 0.5	< 2	7.83	< 0.5	30	642	57	9.63	0.94	4.87	1415
Y-013F	299	232	< 0.5	2.86	60	< 0.5	< 2	3.06	< 0.5	92	2460	29	>25.0	< 0.01	2.91	3110

Stream sediments (Mo, Na, Ni, P, Pb, Sr, Ti, V, W, Zn)

SAMPLE DESCRIPTION	PREP CODE	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
S-003C	299 232	23	0.77	20	1430	12	485	0.32	250	< 10	84
S-004C	299 232	7	0.78	20	1410	12	454	0.34	274	< 10	86
S-005C	299 232	13	0.91	18	1500	12	596	0.39	297	< 10	106
S-009C	299 232	3	0.96	2	1080	12	550	0.37	194	< 10	86
S-010C	299 232	6	0.77	13	1260	16	638	0.38	237	< 10	90
S-011C	299 232	3	0.63	64	640	6	409	0.34	259	< 10	76
S-012C	299 232	4	0.65	51	830	4	463	0.39	277	< 10	88
S-013C	299 232	4	0.54	56	580	4	360	0.32	220	< 10	62
S-014C	299 232	5	0.66	52	850	4	444	0.34	251	< 10	70
S-015C	299 232	5	0.62	56	690	6	401	0.37	259	< 10	72
S-017C	299 232	5	0.33	66	370	2	165	1.66	1420	< 10	262
S-018C	299 232	4	0.47	44	480	< 2	218	0.79	636	< 10	128
S-019C	299 232	6	0.35	55	330	2	168	1.17	1015	< 10	186
S-020C	299 232	5	0.56	43	570	2	253	0.69	562	< 10	114
S-021C	299 232	3	0.48	39	590	< 2	226	0.72	585	< 10	122
S-022C	299 232	11	0.26	62	230	< 2	130	1.55	1445	< 10	254
S-023C	299 232	9	0.43	51	510	2	226	1.14	984	< 10	198
S-024C	299 232	4	0.58	36	650	4	288	0.62	482	< 10	106
S-027C	299 232	3	0.47	12	910	4	426	0.40	238	< 10	76
S-028C	299 232	4	0.49	8	910	12	476	0.39	224	< 10	64
S-032C	299 232	< 1	0.42	47	480	< 2	198	0.99	845	< 10	172
S-033C	299 232	< 1	0.60	27	670	< 2	296	0.44	321	< 10	80
S-034C	299 232	1	0.56	28	710	< 2	263	0.45	332	< 10	80
S-035C	299 232	< 1	0.41	37	500	< 2	190	0.87	658	< 10	144
S-036C	299 232	< 1	0.33	15	720	< 2	160	0.71	469	< 10	128
S-037C	299 232	< 1	0.30	25	600	< 2	151	1.10	781	< 10	208
S-038C	299 232	< 1	0.48	25	900	4	342	0.53	376	< 10	98
S-039C	299 232	2	0.53	16	1010	10	416	0.46	361	< 10	98
S-040C	299 232	< 1	0.57	21	1010	20	438	0.51	396	< 10	112
S-041C	299 232	< 1	0.47	30	590	< 2	194	0.72	571	< 10	116
S-042C	299 232	< 1	0.49	38	530	< 2	227	0.57	482	< 10	92
S-003F	299 232	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
S-004F	299 232	14	0.90	20	1500	10	608	0.44	333	< 10	118
S-005F	299 232	7	0.68	18	1220	8	420	0.37	277	< 10	90
S-009F	299 232	2	0.99	2	1080	16	553	0.39	207	< 10	84
S-010F	299 232	3	0.83	12	1170	6	660	0.42	271	< 10	94
S-011F	299 232	< 1	0.54	67	630	< 2	336	0.50	411	< 10	110
S-012F	299 232	2	0.65	54	840	< 2	474	0.43	321	< 10	100
S-013F	299 232	3	0.75	41	1000	< 2	523	0.35	235	< 10	88
S-014F	299 232	3	0.66	53	790	< 2	445	0.36	253	< 10	82

Stream sediments (Mo, Na, Ni, P, Pb, Sr, Ti, V, W, Zn)

SAMPLE DESCRIPTION	PREP CODE		Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)				
S-015F	299	232	4	0.71	50	940	4	487	0.41	302	< 10	96				
S-017F	299	232	4	0.25	69	270	2	127	1.62	1550	< 10	296				
S-018F	299	232	3	0.22	74	240	< 2	107	1.81	1760	< 10	324				
S-019F	299	232	7	0.25	67	230	< 2	110	1.85	1705	< 10	314				
S-020F	299	232	13	0.40	127	270	< 2	158	3.53	3310	< 10	596				
S-021F	299	232	6	0.45	42	580	< 2	224	0.84	701	< 10	146				
S-022F	299	232	9	0.30	64	300	< 2	141	1.55	1445	< 10	266				
S-023F	299	232	9	0.42	51	490	< 2	221	1.09	954	< 10	200				
S-024F	299	232	11	0.41	50	490	< 2	203	1.14	995	10	202				
S-027F	299	232	< 1	0.47	12	910	< 2	432	0.38	219	< 10	78				
S-028F	299	232	4	0.48	7	870	6	494	0.39	219	< 10	66				
S-032F	299	232	1	0.32	66	380	< 2	159	1.43	1375	< 10	268				
S-033F	299	232	< 1	0.57	33	670	4	312	0.55	425	< 10	104				
S-034F	299	232	1	0.33	44	460	< 2	158	1.15	904	< 10	202				
S-035F	299	232	< 1	0.34	51	440	< 2	157	1.25	1000	< 10	222				
S-036F	299	232	< 1	0.37	21	710	< 2	168	0.71	458	< 10	128				
S-037F	299	232	< 1	0.27	42	540	< 2	127	1.71	1230	< 10	336				
S-038F	299	232	< 1	0.55	16	860	2	421	0.70	517	< 10	148				
S-039F	299	232	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss				
S-040F	299	232	< 1	0.63	17	930	8	476	0.69	543	< 10	176				
S-041F	299	232	< 1	0.38	38	500	< 2	165	1.09	964	< 10	216				
S-042F	299	232	< 1	0.47	52	480	4	238	1.10	973	< 10	202				
T-005C	299	232	< 1	0.20	72	170	< 2	106	1.72	1705	< 10	318				
T-006C	299	232	< 1	0.20	4	1090	4	230	0.89	1110	< 10	322				
T-008C	299	232	< 1	0.53	44	570	< 2	269	0.92	829	< 10	172				
T-009C	299	232	< 1	0.25	65	170	< 2	135	1.43	1265	< 10	254				
T-010C	299	232	1	0.93	8	880	4	583	0.77	676	< 10	184				
T-011C	299	232	< 1	0.23	69	170	< 2	120	1.70	1600	< 10	290				
T-012C	299	232	< 1	0.45	50	480	< 2	233	0.97	892	< 10	170				
T-013C	299	232	< 1	0.21	71	210	< 2	104	1.88	1805	< 10	320				
T-014C	299	232	< 1	0.40	47	460	< 2	199	1.03	921	< 10	174				
T-015C	299	232	< 1	0.19	71	190	< 2	102	1.69	1675	< 10	300				
T-016C	299	232	< 1	0.21	59	320	< 2	104	1.55	1585	< 10	290				
T-017C	299	232	< 1	0.25	55	370	< 2	134	1.22	1305	< 10	276				
T-018C	299	232	< 1	0.29	56	430	< 2	144	1.23	1245	< 10	242				
T-019C	299	232	< 1	0.44	57	310	< 2	192	0.90	807	< 10	124				
T-020C	299	232	3	0.29	53	340	< 2	146	1.16	1130	< 10	204				
T-021C	299	232	4	0.28	57	260	< 2	122	1.22	1120	< 10	202				
T-022C	299	232	3	0.42	39	540	< 2	185	0.83	722	< 10	140				
T-023C	299	232	< 1	0.51	37	650	< 2	227	0.64	547	< 10	108				

Stream sediments (Mo, Na, Ni, P, Pb, Sr, Ti, V, W, Zn)

SAMPLE DESCRIPTION	PREP CODE		Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)				
T-024C	299	232	< 1	0.30	45	380	< 2	163	1.09	1045	< 10	206				
T-025C	299	232	< 1	0.16	67	170	< 2	80	1.72	1790	< 10	324				
T-026C	299	232	< 1	0.17	62	220	< 2	86	1.56	1665	< 10	306				
T-027C	299	232	< 1	0.35	46	480	2	174	0.65	531	< 10	114				
T-028C	299	232	< 1	0.45	43	560	< 2	227	0.76	617	< 10	138				
T-005F	299	232	< 1	0.18	88	70	< 2	55	2.54	2440	< 10	424				
T-006F	299	232	< 1	0.15	< 1	750	< 2	141	1.54	1870	< 10	574				
T-008F	299	232	< 1	0.18	76	200	< 2	90	2.18	2140	< 10	412				
T-009F	299	232	< 1	0.11	71	100	< 2	69	1.69	1755	< 10	362				
T-010F	299	232	< 1	0.40	8	450	< 2	236	2.10	1945	< 10	488				
T-011F	299	232	< 1	0.17	87	120	< 2	66	2.27	2250	< 10	406				
T-012F	299	232	< 1	0.27	70	240	< 2	117	1.90	1725	< 10	300				
T-013F	299	232	< 1	0.19	89	90	< 2	62	2.61	2400	< 10	414				
T-014F	299	232	< 1	0.20	80	190	< 2	89	2.19	2040	< 10	370				
T-015F	299	232	< 1	0.11	84	90	128	43	2.20	2200	< 10	402				
T-016F	299	232	< 1	0.12	71	130	44	58	2.09	2140	< 10	414				
T-017F	299	232	< 1	0.30	67	350	12	116	1.90	1860	< 10	346				
T-018F	299	232	< 1	0.23	68	320	< 2	102	1.78	1770	< 10	346				
T-019F	299	232	< 1	0.35	71	350	< 2	171	1.41	1285	< 10	210				
T-020F	299	232	< 1	0.22	80	170	< 2	56	2.46	2180	< 10	394				
T-021F	299	232	< 1	0.17	77	230	< 2	79	1.67	1875	< 10	362				
T-024F	299	232	< 1	0.27	60	390	< 2	131	1.42	1410	< 10	270				
T-025F	299	232	< 1	0.19	73	240	< 2	77	1.92	1995	< 10	374				
T-026F	299	232	< 1	0.28	75	380	< 2	113	2.01	1970	< 10	354				
T-027F	299	232	< 1	0.27	60	370	< 2	158	1.25	1120	< 10	264				
T-028F	299	232	< 1	0.66	45	830	< 2	315	0.91	831	< 10	198				
Y-001C	299	232	< 1	0.50	72	390	< 2	301	0.51	492	< 10	104				
Y-002C	299	232	< 1	0.57	71	500	< 2	315	0.40	341	< 10	88				
Y-003C	299	232	< 1	0.63	64	630	< 2	342	0.60	536	< 10	394				
Y-004C	299	232	< 1	0.98	21	1100	< 2	485	1.00	855	< 10	264				
Y-005C	299	232	< 1	0.54	56	500	< 2	313	0.39	312	< 10	64				
Y-007C	299	232	< 1	0.44	66	290	< 2	244	0.44	357	< 10	68				
Y-008C	299	232	1	0.71	58	810	< 2	429	0.40	325	< 10	94				
Y-009C	299	232	< 1	0.56	61	650	< 2	349	0.52	445	< 10	238				
Y-010C	299	232	1	0.56	64	640	< 2	358	0.35	281	30	72				
Y-011C	299	232	< 1	0.38	91	320	< 2	219	0.65	611	70	126				
Y-012C	299	232	< 1	0.41	64	240	< 2	219	0.35	282	40	56				
Y-013C	299	232	< 1	0.36	74	170	< 2	217	0.38	302	40	62				
Y-001F	299	232	< 1	0.56	77	520	< 2	344	0.63	600	60	124				
Y-002F	299	232	< 1	0.38	74	440	< 2	232	1.19	1190	120	222				

Stream sediments (Mo, Na, Ni, P, Pb, Sr, Ti, V, W, Zn)

SAMPLE DESCRIPTION	PREP CODE		Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)				
Y-003F	299	232	< 1	0.37	72	360	2	201	1.36	1370	< 10	226				
Y-004F	299	232	< 1	0.99	23	1380	4	457	1.16	1000	< 10	260				
Y-005F	299	232	< 1	0.59	63	780	2	296	1.15	1100	< 10	192				
Y-007F	299	232	< 1	0.25	115	170	< 2	85	2.65	2620	< 10	422				
Y-008F	299	232	< 1	0.77	56	980	6	464	0.56	481	< 10	116				
Y-009F	299	232	< 1	0.71	52	900	4	442	0.50	425	< 10	106				
Y-010F	299	232	< 1	0.73	47	880	8	464	0.38	280	< 10	80				
Y-011F	299	232	< 1	0.42	89	290	< 2	247	0.78	707	< 10	134				
Y-012F	299	232	< 1	0.61	60	550	2	313	0.56	452	< 10	90				
Y-013F	299	232	< 1	0.20	135	100	< 2	77	2.32	2320	< 10	402				

Panned concentrates (Au, Ag, As, Hg, Sb, Se, F, Te, Tl, Br, S)

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb	Ag ppm Aqua R	As ppm	Hg ppb	Sb ppm	Se ppm	F ppm	Te ppm	Tl ppm	Br NAA ppm	S % (Leco)			
S-017P	235	238	not/ss	< 0.4	2	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss			
S-018P	235	238	6	< 0.4	2	60	< 0.4	< 0.4	not/ss	< 0.05	not/ss	< 0.5	0.014			
S-019P	235	238	< 1	< 0.4	1	60	< 0.4	< 0.4	not/ss	< 0.05	not/ss	1.0	0.016			
S-020P	235	238	3	< 0.4	1	40	< 0.4	< 0.4	not/ss	< 0.05	not/ss	< 0.5	0.017			
S-022P	235	238	< 1	< 0.4	1	20	< 0.4	< 0.4	not/ss	< 0.05	not/ss	< 0.5	0.012			
S-024P	235	238	< 1	< 0.4	2	40	< 0.4	< 0.4	not/ss	< 0.05	not/ss	< 0.5	0.016			
S-032P	235	238	< 1	< 0.4	1	20	< 0.4	< 0.4	not/ss	< 0.10	not/ss	< 0.5	0.015			
S-033P	235	238	16	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss			
S-034P	235	238	not/ss	< 0.4	1	40	< 0.4	< 0.4	not/ss	not/ss	not/ss	< 0.5	not/ss			
S-035P	235	238	< 1	< 0.4	1	20	< 0.4	< 0.4	not/ss	< 0.05	not/ss	1.0	0.015			
S-036P	235	238	3	< 0.4	2	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss			
S-037P	235	238	< 1	< 0.4	1	20	< 0.4	< 0.4	not/ss	< 0.10	not/ss	< 0.5	0.014			
S-038P	235	238	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss			
S-039P	235	238	not/ss	< 0.4	4	20	< 0.4	< 0.4	not/ss	not/ss	not/ss	not/ss	not/ss			
S-040P	235	238	10	< 0.4	6	40	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	0.020			
S-041P	235	238	< 1	< 0.4	1	not/ss	< 0.4	< 0.4	not/ss	not/ss	not/ss	not/ss	not/ss			
S-042P	235	238	< 1	< 0.4	2	20	< 0.4	< 0.4	not/ss	< 0.05	not/ss	< 0.5	0.010			
S-043P	235	238	not/ss	< 0.4	2	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss			
T-005P	235	238	< 1	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss			
T-006P	235	238	not/ss	< 0.4	8	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	1.0	0.065			
T-008P	235	238	not/ss	< 0.4	1	60	< 0.4	< 0.4	not/ss	not/ss	not/ss	not/ss	not/ss			
T-009P	235	238	3	< 0.4	1	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	< 0.5	not/ss			
T-010P	235	238	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	0.5	not/ss			
T-011P	235	238	< 1	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	1.5	not/ss			
T-013P	235	238	< 1	< 0.4	1	20	< 0.4	< 0.4	not/ss	< 0.05	not/ss	< 0.5	0.017			
T-014P	235	238	not/ss	< 0.4	1	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	< 1.0	not/ss			
T-015P	235	238	2	< 0.4	1	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	< 0.5	not/ss			
T-016P	235	238	36	< 0.4	1	100	< 0.4	< 0.4	not/ss	< 0.10	not/ss	0.5	0.012			
T-017P	235	238	< 1	< 0.4	1	20	< 0.4	< 0.4	not/ss	< 0.05	not/ss	< 0.5	0.013			
T-018P	235	238	125	< 0.4	2	40	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss			
T-020P	235	238	< 1	< 0.4	1	20	< 0.4	< 0.4	not/ss	< 0.05	not/ss	< 0.5	0.012			
T-021P	235	238	10	< 0.4	1	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	< 1.0	0.015			
T-022P	235	238	not/ss	< 0.4	2	40	< 0.4	< 0.4	not/ss	not/ss	not/ss	< 0.5	0.011			
T-023P	235	238	< 1	< 0.4	2	20	< 0.4	< 0.4	not/ss	< 0.05	not/ss	< 0.5	0.011			
T-024P	235	238	not/ss	< 0.4	1	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	< 0.5	not/ss			
T-025P	235	238	< 1	< 0.4	1	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss			
T-026P	235	238	not/ss	< 0.4	1	not/ss	< 0.4	< 0.4	not/ss	not/ss	not/ss	< 0.5	not/ss			
T-027P	235	238	not/ss	< 0.4	1	not/ss	< 0.4	< 0.4	not/ss	not/ss	not/ss	< 0.5	0.013			
T-028PA	235	238	5	< 0.4	1	20	< 0.4	< 0.4	not/ss	< 0.10	not/ss	< 0.5	0.010			
T-028PB	235	238	not/ss	< 0.4	1	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss			

Panned concentrates (Au, Ag, As, Hg, Sb, Se, F, Te, Tl, Br, S)

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb	Ag ppm Aqua R	As ppm	Hg ppb	Sb ppm	Se ppm	F ppm	Te ppm	Tl ppm	Br NAA ppm	S % (Leco)			
T-029PA	235	238	not/ss	< 0.4	2	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss			
T-029PB	235	238	not/ss	< 0.4	2	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss			
T-029PC	235	238	< 1	< 0.4	1	not/ss	< 0.4	< 0.4	not/ss	not/ss	not/ss	< 0.5	not/ss			
Y-001P	235	238	not/ss	2.2	1	not/ss	< 0.4	< 0.4	not/ss	not/ss	not/ss	not/ss	not/ss			
Y-002P	235	238	not/ss	< 0.4	1	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	< 0.5	not/ss			
Y-003P	235	238	not/ss	< 0.4	2	20	< 0.4	< 0.4	not/ss	not/ss	not/ss	0.5	0.020			
Y-004P	235	238	not/ss	< 0.4	6	40	not/ss	not/ss	not/ss	not/ss	not/ss	< 1.0	not/ss			
Y-005P	235	238	5	< 0.4	1	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss			
Y-007P	235	238	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss			
Y-011P	235	238	< 1	< 0.4	1	40	not/ss	not/ss	not/ss	not/ss	not/ss	0.5	not/ss			
Y-012P	235	238	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss			
Y-013P	235	238	< 1	< 0.4	1	20	not/ss	not/ss	not/ss	not/ss	not/ss	< 1.0	not/ss			

Panned concentrates (Ag, Al, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn)

SAMPLE DESCRIPTION	PREP CODE		Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)
S-017P	299	290	< 0.5	2.71	50	< 0.5	< 20	2.46	< 0.5	61	864	45	>25.0	0.13	2.20	2400
S-018P	299	290	< 0.5	2.78	90	< 0.5	< 20	8.58	< 0.5	19	469	20	11.60	0.30	4.90	1335
S-019P	299	290	< 0.5	3.70	140	< 0.5	< 20	7.04	< 0.5	64	633	51	22.5	0.35	4.37	1975
S-020P	299	290	< 0.5	2.52	40	< 0.5	< 20	4.45	< 0.5	64	752	30	>25.0	0.06	3.20	2310
S-022P	299	290	< 0.5	3.19	70	< 0.5	< 20	4.76	< 0.5	76	819	41	>25.0	0.24	3.42	2450
S-024P	299	290	< 0.5	4.57	230	< 0.5	< 20	7.39	< 0.5	48	437	57	15.05	0.72	4.42	1605
S-032P	299	290	< 0.5	2.60	20	< 0.5	< 20	0.93	< 0.5	85	1005	39	>25.0	< 0.01	1.53	2860
S-033P	299	290	< 0.5	2.45	70	2.5	< 20	2.35	< 0.5	40	1145	77	>25.0	0.07	2.16	2070
S-034P	299	290	< 0.5	3.25	70	4.0	< 20	2.16	< 0.5	86	1260	97	>25.0	0.18	2.18	2760
S-035P	299	290	< 0.5	3.07	60	< 0.5	< 20	4.02	< 0.5	73	1020	71	>25.0	0.14	3.10	2490
S-036P	299	290	< 0.5	2.13	130	9.5	< 20	0.99	< 0.5	< 1	225	66	23.0	0.36	0.81	1635
S-037P	299	290	< 0.5	2.69	40	4.5	< 20	0.39	< 0.5	72	694	63	>25.0	0.03	1.01	4040
S-038P	299	290	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
S-039P	299	290	< 0.5	3.86	230	< 0.5	< 20	4.44	< 0.5	48	330	64	24.0	0.74	2.84	1910
S-040P	299	290	< 0.5	3.93	320	< 0.5	< 20	3.52	< 0.5	< 1	76	53	8.52	1.00	2.06	895
S-041P	299	290	< 0.5	2.90	120	< 0.5	< 20	4.67	< 0.5	19	318	33	20.8	0.32	2.83	1915
S-042P	299	290	< 0.5	2.54	50	< 0.5	< 20	9.68	< 0.5	7	381	54	11.35	0.17	5.24	1200
S-043P	299	290	< 0.5	1.59	20	< 0.5	< 20	0.59	< 0.5	19	960	20	>25.0	< 0.01	0.68	1435
T-005P	299	290	< 0.5	2.72	30	< 0.5	< 20	4.08	< 0.5	93	816	33	>25.0	< 0.01	3.17	3210
T-006P	299	290	0.5	2.70	110	< 0.5	< 20	0.23	< 0.5	56	74	72	>25.0	0.29	0.71	5420
T-008P	299	290	< 0.5	2.23	40	< 0.5	< 20	2.47	< 0.5	42	706	35	>25.0	0.11	2.06	2230
T-009P	299	290	< 0.5	2.64	20	20.5	< 20	1.31	< 0.5	101	1110	47	>25.0	< 0.01	1.87	3090
T-010P	299	290	3.0	5.32	340	< 0.5	< 20	0.78	< 0.5	100	84	22	>25.0	0.96	1.40	5200
T-011P	299	290	< 0.5	2.69	40	< 0.5	< 20	3.95	< 0.5	76	770	36	>25.0	0.07	3.01	2670
T-013P	299	290	< 0.5	2.94	30	< 0.5	< 20	1.78	< 0.5	108	1105	60	>25.0	< 0.01	2.22	3250
T-014P	299	290	< 0.5	2.77	50	< 0.5	< 20	2.17	< 0.5	89	886	49	>25.0	0.05	2.16	2810
T-015P	299	290	< 0.5	2.93	40	< 0.5	< 20	2.53	< 0.5	106	841	41	>25.0	0.08	2.47	3130
T-016P	299	290	< 0.5	2.34	30	< 0.5	< 20	2.41	< 0.5	64	682	26	>25.0	0.04	1.99	2570
T-017P	299	290	< 0.5	2.58	30	< 0.5	< 20	1.63	< 0.5	95	885	34	>25.0	< 0.01	1.80	3140
T-018P	299	290	< 0.5	2.50	40	< 0.5	< 20	3.16	< 0.5	65	697	22	>25.0	0.02	2.40	2690
T-020P	299	290	< 0.5	2.48	20	< 0.5	< 20	1.85	< 0.5	83	863	36	>25.0	< 0.01	1.99	2800
T-021P	299	290	< 0.5	3.93	160	< 0.5	< 20	4.33	< 0.5	59	490	61	>25.0	0.46	2.79	2050
T-022P	299	290	< 0.5	4.40	240	1.5	< 20	9.14	< 0.5	50	224	40	11.20	0.71	5.02	1525
T-023P	299	290	< 0.5	2.91	70	7.0	< 20	6.29	< 0.5	60	565	26	>25.0	0.16	3.91	2060
T-024P	299	290	< 0.5	3.27	120	< 0.5	< 20	3.30	< 0.5	68	554	37	>25.0	0.32	2.43	2410
T-025P	299	290	< 0.5	2.45	30	< 0.5	< 20	1.23	< 0.5	86	642	24	>25.0	< 0.01	1.56	2980
T-026P	299	290	< 0.5	2.73	40	2.5	< 20	1.29	< 0.5	90	738	34	>25.0	0.08	1.59	2970
T-027P	299	290	0.5	2.23	60	< 0.5	< 20	1.02	< 0.5	54	1370	47	>25.0	0.07	0.82	1605
T-028PA	299	290	< 0.5	3.18	90	< 0.5	< 20	10.10	< 0.5	40	434	21	12.15	0.28	5.62	1385
T-028PB	299	290	< 0.5	2.24	50	1.0	< 20	1.17	< 0.5	36	1155	23	>25.0	0.09	0.95	1545

Panned concentrates (Ag, Al, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn)

SAMPLE DESCRIPTION	PREP CODE		Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)
T-029PA	299	290	< 0.5	4.70	230	< 0.5	< 20	7.12	< 0.5	39	360	95	13.55	0.82	4.26	1675
T-029PB	299	290	< 0.5	3.28	180	< 0.5	< 20	5.17	< 0.5	33	447	61	14.20	0.78	2.88	1420
T-029PC	299	290	< 0.5	2.56	60	< 0.5	< 20	3.07	< 0.5	71	957	48	>25.0	0.24	2.11	2280
Y-001P	299	290	< 0.5	3.18	90	< 0.5	< 20	6.58	< 0.5	81	1800	46	>25.0	0.11	4.66	2500
Y-002P	299	290	< 0.5	2.64	40	< 0.5	< 20	7.20	< 0.5	80	938	47	>25.0	0.08	4.81	2680
Y-003P	299	290	< 0.5	2.78	50	< 0.5	< 20	5.10	< 0.5	81	1060	47	>25.0	0.04	3.80	2890
Y-004P	299	290	< 0.5	2.66	100	< 0.5	< 20	2.13	< 0.5	111	843	78	>25.0	0.24	2.20	7180
Y-005P	299	290	< 0.5	2.59	20	< 0.5	< 20	2.17	< 0.5	119	1250	64	>25.0	< 0.01	2.50	4120
Y-007P	299	290	< 0.5	2.73	50	< 0.5	< 20	4.02	< 0.5	100	1310	63	>25.0	< 0.01	3.32	3200
Y-011P	299	290	< 0.5	2.83	90	< 0.5	< 20	10.65	< 0.5	55	1430	42	16.20	0.01	6.69	1830
Y-012P	299	290	< 0.5	3.01	100	< 0.5	< 20	7.82	< 0.5	69	1060	51	23.2	0.18	5.06	2200
Y-013P	299	290	< 0.5	2.94	70	< 0.5	< 20	4.20	< 0.5	123	2770	42	>25.0	< 0.01	3.68	3430

Panned concentrates (Mo, Na, Ni, P, Pb, Sr, Ti, V, W, Zn)

SAMPLE DESCRIPTION	PREP CODE		Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)				
S-017P	299	290	< 1	0.06	91	< 10	< 2	64	2.13	2130	< 10	396				
S-018P	299	290	< 1	0.27	44	80	< 2	165	0.68	584	< 10	100				
S-019P	299	290	< 1	0.32	78	280	< 2	169	1.08	1130	< 10	218				
S-020P	299	290	< 1	0.09	81	< 10	< 2	73	2.10	1990	< 10	334				
S-022P	299	290	< 1	0.17	103	50	< 2	107	2.17	2080	< 10	340				
S-024P	299	290	< 1	0.46	51	510	< 2	250	0.91	757	< 10	140				
S-032P	299	290	< 1	0.01	114	< 10	< 2	33	2.98	2880	< 10	498				
S-033P	299	290	7	0.06	90	< 10	< 2	72	1.23	1525	< 10	382				
S-034P	299	290	6	0.12	109	60	< 2	63	1.70	2020	< 10	488				
S-035P	299	290	7	0.13	98	70	< 2	74	2.37	2100	< 10	428				
S-036P	299	290	1	< 0.01	27	< 10	< 2	42	1.59	1210	< 10	332				
S-037P	299	290	3	0.06	93	100	< 2	31	3.72	3110	< 10	810				
S-038P	299	290	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss				
S-039P	299	290	1	0.30	56	650	< 2	258	1.69	1360	< 10	376				
S-040P	299	290	2	0.31	22	620	24	299	0.47	373	< 10	102				
S-041P	299	290	< 1	0.14	48	50	< 2	87	1.41	1205	< 10	242				
S-042P	299	290	< 1	0.18	63	< 10	4	150	0.58	532	< 10	96				
S-043P	299	290	< 1	< 0.01	76	< 10	< 2	40	1.82	1810	< 10	436				
T-005P	299	290	< 1	0.11	98	80	< 2	73	2.51	2640	< 10	450				
T-006P	299	290	< 1	0.05	< 1	590	< 2	135	2.20	2970	< 10	864				
T-008P	299	290	< 1	0.04	93	< 10	< 2	53	2.01	2020	< 10	378				
T-009P	299	290	4	0.03	128	< 10	< 2	34	2.87	3070	< 10	512				
T-010P	299	290	2	0.32	12	520	< 2	220	2.80	2700	< 10	660				
T-011P	299	290	2	0.10	101	10	< 2	69	2.30	2380	< 10	420				
T-013P	299	290	4	0.07	132	< 10	< 2	41	3.19	3180	< 10	554				
T-014P	299	290	2	0.09	110	20	< 2	56	2.60	2650	< 10	480				
T-015P	299	290	10	0.10	117	50	< 2	59	3.04	3060	< 10	528				
T-016P	299	290	1	0.06	80	< 10	< 2	64	1.64	2110	< 10	420				
T-017P	299	290	5	0.07	106	< 10	< 2	60	2.34	2780	< 10	496				
T-018P	299	290	10	0.08	92	< 10	< 2	75	2.31	2390	< 10	422				
T-020P	299	290	15	0.04	100	< 10	< 2	39	2.45	2670	< 10	464				
T-021P	299	290	5	0.40	76	420	< 2	194	1.89	1650	< 10	318				
T-022P	299	290	6	0.65	39	670	< 2	302	0.69	588	< 10	110				
T-023P	299	290	10	0.22	78	150	< 2	119	1.73	1570	< 10	274				
T-024P	299	290	15	0.30	80	290	< 2	153	2.25	2160	< 10	378				
T-025P	299	290	15	0.05	107	10	< 2	50	2.74	2930	< 10	506				
T-026P	299	290	7	0.09	107	70	< 2	55	2.67	2850	< 10	498				
T-027P	299	290	2	0.11	89	130	< 2	94	2.22	2150	< 10	526				
T-028PA	299	290	< 1	0.36	65	380	12	209	0.65	564	< 10	114				
T-028PB	299	290	1	0.09	81	190	8	93	2.18	2020	< 10	496				

Panned concentrates (Mo, Na, Ni, P, Pb, Sr, Ti, V, W, Zn)

SAMPLE DESCRIPTION	PREP CODE		Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)				
T-029PA	299	290	7	0.45	60	860	12	230	0.68	632	< 10	84				
T-029PB	299	290	3	0.38	40	850	50	172	0.85	737	< 10	118				
T-029PC	299	290	7	0.13	98	290	12	135	2.22	2240	< 10	502				
Y-001P	299	290	7	0.21	149	160	10	164	1.59	1720	< 10	272				
Y-002P	299	290	9	0.16	96	90	30	118	1.79	1875	< 10	300				
Y-003P	299	290	16	0.13	113	150	8	106	2.22	2270	< 10	366				
Y-004P	299	290	24	0.17	51	1070	20	112	2.82	2870	< 10	786				
Y-005P	299	290	27	0.05	127	230	20	55	2.87	3240	< 10	548				
Y-007P	299	290	30	0.10	136	210	12	86	2.59	2630	< 10	444				
Y-011P	299	290	13	0.19	148	50	30	161	0.75	752	< 10	134				
Y-012P	299	290	< 1	0.24	108	370	2	165	1.39	1325	< 10	232				
Y-013P	299	290	< 1	0.10	191	150	< 2	77	2.16	2420	< 10	442				

Ore (Au, Ag, As, Hg, Sb, Se, F, Te, Tl, Br, S)

SAMPLE DESCRIPTION	PREP CODE		Au FA g/tonne	Ag g/tonne	Ag ppm Aqua R	As ppm	Hg ppb	Sb ppm	Se ppm	F ppm	Te ppm	Tl ppm	Br NAA ppm	S % (Leco)		
M-001	207	294	4.94	5.5	4.8	1020	1800	12.2	0.4	370	0.10	3.9	0.5	0.180		
M-002	207	294	27.50	32.0	28.0	870	500	19.0	0.8	340	33.0	4.4	0.5	2.23		
M-003	207	294	11.50	16.9	17.0	232	520	4.4	2.6	300	11.00	0.3	< 0.5	1.200		
M-004	207	294	0.24	0.5	0.3	60	110	0.6	< 0.2	400	0.40	0.2	0.5	2.59		
M-005	207	294	0.72	1.0	0.6	230	100	3.6	5.0	810	1.80	1.7	0.5	7.85		
M-006	207	294	0.31	0.5	< 0.2	58	100	0.4	0.8	370	1.40	0.4	< 0.5	2.38		
M-007	207	294	0.75	0.5	< 0.2	980	360	9.2	< 0.2	540	0.40	1.9	< 0.5	3.15		
M-008	207	294	0.10	0.5	0.2	48	40	0.4	7.2	660	0.60	0.1	1.5	6.52		
M-009	207	294	0.03	< 0.5	< 0.2	3	20	0.2	1.8	630	0.40	0.1	< 0.5	2.26		
M-010	207	294	0.03	< 0.5	< 0.2	15	10	< 0.2	0.6	760	< 0.10	0.3	0.5	0.201		
M-012	207	294	< 0.03	< 0.5	< 0.2	122	40	0.4	7.0	930	0.80	0.4	< 0.5	0.324		
M-013	207	294	0.03	< 0.5	< 0.2	94	20	0.2	9.0	1100	3.40	< 0.1	0.5	2.22		
M-014	207	294	< 0.03	< 0.5	< 0.2	4	10	< 0.2	1.0	880	0.40	< 0.1	< 0.5	0.712		
M-015	207	294	0.41	0.5	0.2	1250	530	14.0	0.6	480	< 0.10	2.9	< 0.5	0.364		
M-016	207	294	0.03	< 0.5	< 0.2	11	30	0.2	< 0.2	670	< 0.10	0.2	< 0.5	0.026		
M-017	207	294	0.03	< 0.5	< 0.2	6	50	< 0.2	< 0.2	610	< 0.25	0.4	3.5	0.027		
M-018	207	294	< 0.03	< 0.5	< 0.2	7	60	< 0.2	< 0.2	230	< 0.25	not/ss	3.0	0.040		
M-019	207	294	< 0.03	< 0.5	< 0.2	7	60	0.2	0.4	240	< 0.10	0.3	10.5	0.020		
M-020A	207	294	0.03	< 0.5	< 0.2	4	20	< 0.2	< 0.2	510	< 0.10	0.2	0.5	0.013		
M-020B	207	294	< 0.10	0.7	0.4	20	40	< 0.2	< 0.2	80	not/ss	not/ss	0.5	2.91		
M-021A	207	294	0.03	< 0.5	< 0.2	2	30	< 0.2	< 0.2	570	< 0.10	not/ss	< 0.5	0.037		
M-021B	207	294	0.03	0.5	< 0.2	11	30	< 0.2	< 0.2	310	< 0.10	< 0.1	< 0.5	0.172		
M-021C	207	294	0.03	0.5	< 0.2	40	30	< 0.2	< 0.2	410	< 0.10	< 0.1	< 0.5	0.064		

Ore (Ag, Al, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Kn, Mg, Mn)

SAMPLE DESCRIPTION	PREP CODE		Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)
M-001	299	232	4.0	3.15	70	< 0.5	< 2	0.06	5.5	< 1	92	32	2.32	0.98	0.28	70
M-002	299	232	32.0	3.80	270	< 0.5	< 2	2.11	1.0	30	235	118	4.24	2.40	1.58	750
M-003	299	232	16.0	0.59	750	95.0	< 2	1.52	< 0.5	5	47	100	1.99	0.37	0.85	6750
M-004	299	232	1.0	4.04	550	< 0.5	< 2	9.01	< 0.5	20	128	63	6.24	1.76	4.48	2070
M-005	299	232	0.5	7.25	550	< 0.5	< 2	0.52	< 0.5	27	21	71	7.09	6.78	0.30	165
M-006	299	232	0.5	6.47	350	< 0.5	< 2	6.97	< 0.5	14	40	37	4.70	4.73	3.17	1855
M-007	299	232	< 0.5	7.08	460	< 0.5	< 2	3.34	0.5	24	204	280	4.39	8.26	1.53	1195
M-008	299	232	0.5	7.37	810	< 0.5	< 2	0.29	< 0.5	3	23	122	3.95	1.96	0.07	120
M-009	299	232	< 0.5	10.05	750	0.5	< 2	1.06	< 0.5	8	6	71	2.23	4.46	0.64	370
M-010	299	232	< 0.5	9.51	840	0.5	< 2	2.74	< 0.5	14	8	116	4.46	3.13	1.08	1480
M-012	299	232	< 0.5	8.74	480	< 0.5	< 2	0.09	< 0.5	< 1	9	96	8.98	2.43	0.11	40
M-013	299	232	< 0.5	7.43	870	< 0.5	< 2	0.20	< 0.5	< 1	18	430	13.65	0.63	0.02	25
M-014	299	232	< 0.5	9.45	900	1.0	< 2	0.11	< 0.5	1	< 1	33	3.78	2.93	0.31	120
M-015	299	232	0.5	6.90	630	< 0.5	< 2	0.45	4.5	15	186	72	5.41	5.30	1.67	245
M-016	299	232	< 0.5	9.97	770	2.5	< 2	0.97	< 0.5	7	2	41	3.04	5.25	0.61	1135
M-017	299	232	< 0.5	11.85	1210	2.0	< 2	0.05	< 0.5	4	4	64	4.64	4.07	0.50	320
M-018	299	232	< 0.5	14.30	840	1.0	< 2	0.20	< 0.5	6	3	116	5.69	2.24	0.36	205
M-019	299	232	< 0.5	11.85	1380	1.5	< 2	0.18	< 0.5	4	< 1	100	5.16	5.03	0.44	340
M-020A	299	232	< 0.5	9.43	1160	1.0	< 2	1.41	< 0.5	13	< 1	164	5.00	4.33	1.07	995
M-020B	299	232	0.5	1.07	140	< 0.5	< 2	0.16	< 0.5	6	9	101	4.71	0.24	0.25	210
M-021A	299	232	< 0.5	9.31	380	< 0.5	< 2	1.10	< 0.5	13	53	85	4.69	2.41	1.11	375
M-021B	299	232	< 0.5	6.14	360	< 0.5	< 2	0.80	< 0.5	13	44	249	6.71	1.59	0.74	775
M-021C	299	232	< 0.5	8.76	540	< 0.5	< 2	0.94	< 0.5	19	4	80	6.04	2.96	0.83	370

Ore (Mo, Na, Ni, P, Pb, Sr, Ti, V, W, Zn)

SAMPLE DESCRIPTION	PREP CODE		Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)				
M-001	299	232	447	0.04	4	320	44	114	0.10	162	< 10	18				
M-002	299	232	13	0.25	59	930	28	294	0.18	625	< 10	128				
M-003	299	232	3	0.04	15	570	64	76	0.01	303	< 10	148				
M-004	299	232	< 1	0.07	33	720	12	116	0.15	161	< 10	72				
M-005	299	232	< 1	0.10	11	1250	12	107	0.25	364	< 10	14				
M-006	299	232	< 1	0.23	14	890	12	243	0.16	107	< 10	72				
M-007	299	232	< 1	0.15	30	1660	12	153	0.30	234	< 10	46				
M-008	299	232	< 1	0.87	4	1940	64	1530	0.16	172	< 10	18				
M-009	299	232	< 1	1.27	1	1220	16	852	0.31	167	< 10	18				
M-010	299	232	< 1	1.84	1	2010	34	1985	0.31	243	< 10	94				
M-012	299	232	11	0.21	< 1	3750	14	1955	0.28	307	< 10	10				
M-013	299	232	8	0.20	1	1860	20	933	0.23	359	< 10	12				
M-014	299	232	< 1	0.27	< 1	1800	12	1360	0.30	181	< 10	28				
M-015	299	232	10	0.75	35	1720	12	453	0.34	251	< 10	50				
M-016	299	232	1	2.24	< 1	980	14	696	0.21	95	< 10	84				
M-017	299	232	1	0.29	< 1	490	12	311	0.31	174	< 10	68				
M-018	299	232	2	0.22	4	650	12	389	0.47	169	< 10	60				
M-019	299	232	< 1	0.42	< 1	370	8	712	0.39	155	< 10	68				
M-020A	299	232	< 1	2.33	1	2650	8	1015	0.32	258	< 10	78				
M-020B	299	232	1	0.12	18	160	2	70	0.02	57	< 10	14				
M-021A	299	232	6	0.91	16	1790	4	317	0.37	205	< 10	62				
M-021B	299	232	5	1.12	23	1580	< 2	304	0.23	279	< 10	54				
M-021C	299	232	3	1.92	16	1880	2	456	0.29	197	< 10	60				

Whole rock (Al_2O_3, BaO, CaO, Fe_2O_3, K_2O, MgO, MnO, Na_2O, P_2O_5, SiO_2, TiO_2, Loi)

SAMPLE DESCRIPTION	PREP CODE		Al2O3 %	BaO %	CaO %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %	
W-001	299	200	15.93	0.08	9.89	10.71	3.11	6.03	0.17	2.25	0.51	48.13	0.70	3.26	100.75	
W-005	299	200	12.28	0.05	10.33	8.35	2.30	3.26	0.13	1.84	0.36	51.22	0.61	10.62	101.35	
W-006	299	200	17.91	0.08	9.43	10.42	4.15	4.10	0.22	3.02	0.84	47.26	0.79	1.34	99.56	

Whole rock (Au, Ag, As, Hg, Sb, Se, F, Te, Tl, Br, S)

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb	Ag ppm Aqua R	As ppm	Hg ppb	Sb ppm	Se ppm	F ppm	Te ppm	Tl ppm	Br NAA ppm	S % (Leco)			
W-001	205	294	14	< 0.2	4	10	0.2	< 0.2	480	< 0.05	< 0.1	< 0.5	0.002			
W-005	205	294	29	< 0.2	4	10	< 0.2	< 0.2	320	< 0.05	< 0.1	< 0.5	0.001			
W-006	205	294	9	< 0.2	2	10	0.2	< 0.2	730	< 0.05	0.1	0.5	0.049			

Whole rock (Ag, Al, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Kn, Mg, Mn)

SAMPLE DESCRIPTION	PREP CODE		Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)
W-001	299	232	< 0.5	8.48	780	< 0.5	12	6.14	< 0.5	22	120	140	6.70	2.70	3.31	1155
W-005	299	232	< 0.5	6.39	480	< 0.5	< 2	6.29	< 0.5	15	88	37	5.04	2.02	1.76	905
W-006	299	232	< 0.5	9.24	770	1.5	6	5.82	< 0.5	21	55	234	6.48	3.43	2.24	1450

Whole rock (Mo, Na, Ni, P, Pb, Sr, Ti, V, W, Zn)

SAMPLE DESCRIPTION	PREP CODE		Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)				
W-001	299	232	1	1.81	22	1800	12	1185	0.39	298	< 10	82				
W-005	299	232	1	1.38	12	1220	2	619	0.30	186	< 10	56				
W-006	299	232	3	2.29	8	2990	6	1680	0.43	347	< 10	94				

Table 4-3 General Statistics (Soil A horizon)

	CASE	LOWER	OVER	AVE	S.D.	MIN	MAX	UNIT
Au	62	0	0	10.2	0.69	<1	788	ppb
Ag	62	62	0					ppm
As	62	11	0	3.5	0.48	1	59	ppm
Hg	58	0	0	43.8	0.21	20	330	ppb
Sb	60	49	0	0.1	0.23	<0.2	0.8	ppm
Se	60	58	0			<0.2	0.2	ppm
F	60	0	0	302.9	0.19	110	800	ppm
Te	59	24	0	0.1	0.43	<0.05	3.00	ppm
Tl	59	14	0	0.1	0.33	<0.1	0.8	ppm
Br	62	0	0	8.5	0.19	1.5	20.5	ppm
S	58	24	0	0.001	0.29	<0.001	0.016	%
Al	58	0	0	9.2	0.08	4.11	12.85	%
Ba	58	0	0	527.1	0.27	60	1,370	ppm
Be	58	58	0					ppm
Bi	58	58	0					ppm
Ca	58	0	0	0.7	0.46	0.06	3.83	%
Cd	58	58	0					ppm
Co	58	0	0	28.4	0.17	10	54	ppm
Cr	58	0	0	90.1	0.65	0.5	1,125	ppm
Cu	58	0	0	119.8	0.11	48	210	ppm
Fe	58	0	0	7.7	0.15	3.97	15	%
K	58	0	0	1.9	0.25	0.27	4.55	%
Mg	58	0	0	1.0	0.28	0.22	3.91	%
Mn	58	0	0	1079.9	0.17	315	2,970	ppm
Mo	58	39	0			<1	6	ppm
Na	58	0	0	0.6	0.18	0.22	1.32	%
Ni	58	4	0	16.3	0.58	<1	101	ppm
P	58	0	0	753.1	0.15	290	1,770	ppm
Pb	58	5	0	5.8	0.35	<2	24	ppm
Sr	58	0	0	290.9	0.35	18	1,000	ppm
Ti	58	0	0	0.5	0.12	0.28	0.9	%
V	58	0	0	323.3	0.17	146	731	ppm
W	58	58	0					ppm
Zn	58	0	0	92.0	0.11	38	154	ppm

S.D.: Standard Diflection

Table 4-3 General Statistics (Soil B horizon)

	CASE	LOWER	OVER	AVE	S.D.	MIN	MAX	UNIT
Au	57	1	0	7.8	0.72	<1	3420	ppb
Ag	57	57	0					ppm
As	57	0	0	3.3	0.53	1	500	ppm
Hg	53	0	0	40	0.38	10	5800	ppb
Sb	56	43	0			<0.2	58	ppm
Se	56	50	0			<0.2	4.6	ppm
F	54	0	0	294.6	0.22	100	700	ppm
Te	53	29	0	0.04	0.37	<0.05	2.45	ppm
Tl	54	4	0	0.2	0.33	<0.1	1.7	ppm
Br	57	4	0	5.0	0.49	<0.5	22	ppm
S	53	31	0	0.001	0.34	<0.001	0.038	%
Al	52	0	0	9.75	0.07	5.46	13	%
Ba	52	0	0	555	0.24	130	1540	ppm
Be	52	52	0					ppm
Bi	52	52	0					ppm
Ca	52	0	0	0.46	0.53	0.02	6.88	%
Cd	52	43	0			<0.5	1.5	ppm
Co	52	0	0	24	0.29	3	69	ppm
Cr	52	0	0	67	0.60	1	607	ppm
Cu	52	0	0	124	0.13	59	406	ppm
Fe	52	0	0	7.67	0.15	3.84	12.90	%
K	52	0	0	2.08	0.21	0.95	5.56	%
Mg	52	0	0	0.92	0.22	0.30	5.23	%
Mn	52	0	0	960	0.27	130	2130	ppm
Mo	52	26	0	1	0.70	<1	4190	ppm
Na	52	0	0	0.59	0.22	0.13	1.94	%
Ni	52	1	0	14	0.51	<1	87	ppm
P	52	0	0	712	0.22	220	2850	ppm
Pb	52	5	0	5	0.40	<2	120	ppm
Sr	52	0	0	296	0.29	48	1015	ppm
Ti	52	0	0	0.49	0.14	0.18	0.90	%
V	52	0	0	322	0.19	141	704	ppm
W	52	52	0					ppm
Zn	52	0	0	85	0.14	32	154	ppm

Table 4-3 General Statistics (Stream Sediments)

	CASE	LOWER	OVER	AVE	S.D.	MIN	MAX	UNIT
Au	66	12	0	4.0	0.78	<1	265	ppb
Ag	66	66	0					ppm
As	66	1	0	3.1	0.60	<1	90	ppm
Hg	66	0	0	21	0.31	10	150	ppb
Sb	66	53	0			<0.2	1.2	ppm
Se	66	65	0			<0.2	1.6	ppm
F	66	0	0	199	0.24	70	1180	ppm
Te	66	40	0	0.06	0.51	<0.05	1.45	ppm
Tl	66	35	0	0.1	0.30	<0.1	0.6	ppm
Br	66	28	0	0.9	0.53	<0.5	15.5	ppm
S	66	10	0	0.003	0.58	<0.001	0.078	%
Al	66	0	0	5.14	0.15	2.86	10.30	%
Ba	66	0	0	280	0.30	70	1180	ppm
Be	66	0	0	0.3	0.27	<0.5	3.0	ppm
Bi	66	66	0					ppm
Ca	66	0	0	3.23	0.36	0.35	10.85	%
Cd	66	64	0			<0.5	0.5	ppm
Co	66	0	0	34	0.15	13	63	ppm
Cr	66	0	0	297	0.39	16	1105	ppm
Cu	66	0	0	70	0.20	20	205	ppm
Fe	66	0	7	12.92	0.27	5.26	>25.00	%
K	66	0	0	0.96	0.33	0.24	4.66	%
Mg	66	0	0	2.46	0.26	0.52	6.24	%
Mn	66	0	0	1448	0.11	775	2670	ppm
Mo	66	38	0	1	0.49	<1	23	ppm
Na	66	0	0	0.43	0.19	0.16	0.98	%
Ni	66	0	0	38	0.32	2	91	ppm
P	66	0	0	510	0.25	170	1500	ppm
Pb	66	43	0			<2	20	ppm
Sr	66	0	0	241	0.23	80	638	ppm
Ti	66	0	0	0.70	0.24	0.32	1.88	%
V	66	0	0	583	0.28	194	1805	ppm
W	66	62	0			<10	70	ppm
Zn	66	0	0	137	0.23	56	394	ppm

Table 4-3 General Statistics (Stream Sediments)

	CASE	LOWER	OVER	AVE	S.D.	MIN	MAX	UNIT
Au	62	14	0	6.3	1.02	<1	3390	ppb
Ag	62	61	0			<0.2	0.6	ppm
As	62	0	0	2.7	0.59	0.3	62.0	ppm
Hg	53	0	0	21	0.28	10	110	ppb
Sb	60	46	0			<0.2	0.6	ppm
Se	60	59	0			<0.2	0.8	ppm
F	59	0	0	200	0.25	80	920	ppm
Te	56	32	0			<0.05	1.10	ppm
Tl	59	20	0	0.1	0.26	<0.1	0.3	ppm
Br	62	24	0	0.9	0.54	<0.5	15.5	ppm
S	57	10	0	0.004	0.66	<0.001	0.063	%
Al	62	0	0	4.85	0.17	2.28	10.20	%
Ba	62	0	0	235	0.37	40	1210	ppm
Be	62	57	0			<0.5	6.0	ppm
Bi	62	62	0					ppm
Ca	62	0	0	1.85	0.34	0.18	7.83	%
Cd	62	61	0			<0.5	0.5	ppm
Co	62	0	0	42	0.20	12	97	ppm
Cr	62	0	0	399	0.45	13	2460	ppm
Cu	62	0	0	74	0.18	29	196	ppm
Fe	62	0	23	20.61	0.34	5.36	>25.0	%
K	62	1	0	0.74	0.52	<0.01	4.42	%
Mg	62	0	0	1.75	0.23	0.50	5.09	%
Mn	62	0	0	1724	0.16	700	3720	ppm
Mo	62	43	0			<1	14.0	ppm
Na	62	0	0	0.36	0.25	0.11	0.99	%
Ni	62	1	0	44	0.41	<1	135	ppm
P	62	0	0	419	0.33	70	1500	ppm
Pb	62	41	0			<2	128	ppm
Sr	62	0	0	189	0.32	43	660	ppm
Ti	62	0	0	1.09	0.29	0.35	3.53	%
V	62	0	0	940	0.34	207	3310	ppm
W	62	59	0			<10	120	ppm
Zn	62	0	0	211	0.26	66	596	ppm

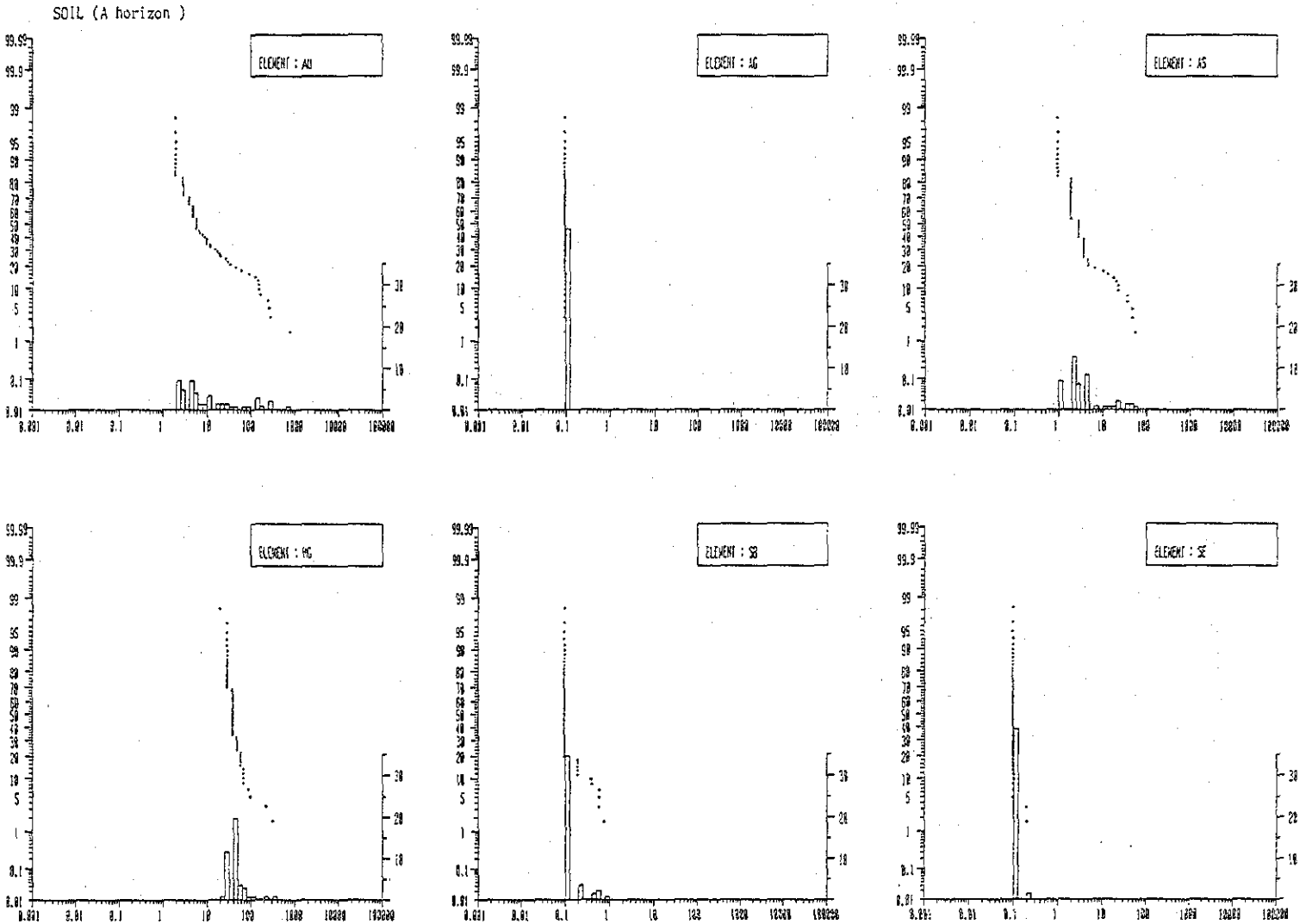

Fig. 4-2 Histogram of Assay Values (Soil, Stream Sediments) (No. 1)

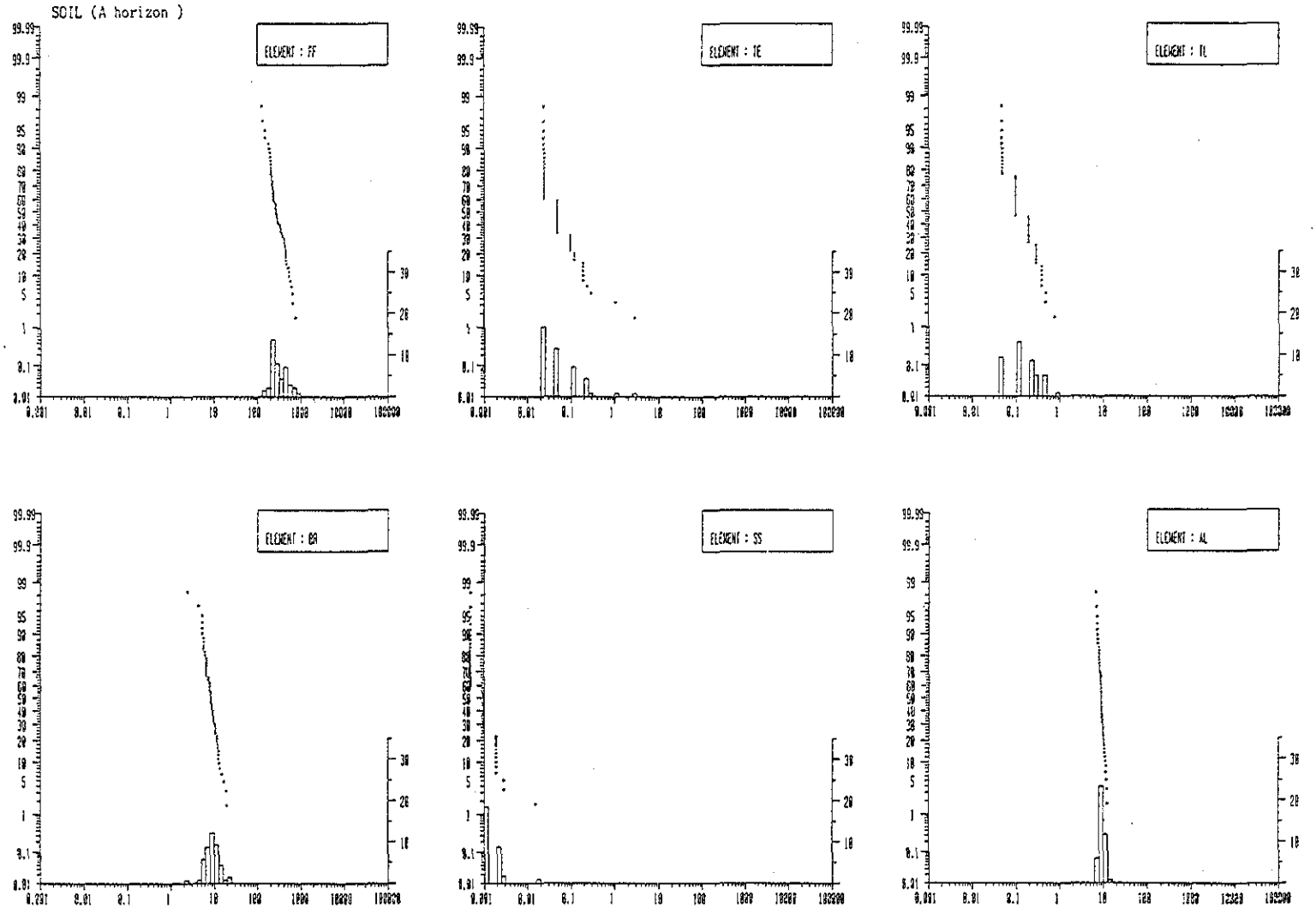

Fig. 4-2 Histogram of Assay Values (Soil, Stream Sediments) (No. 2)

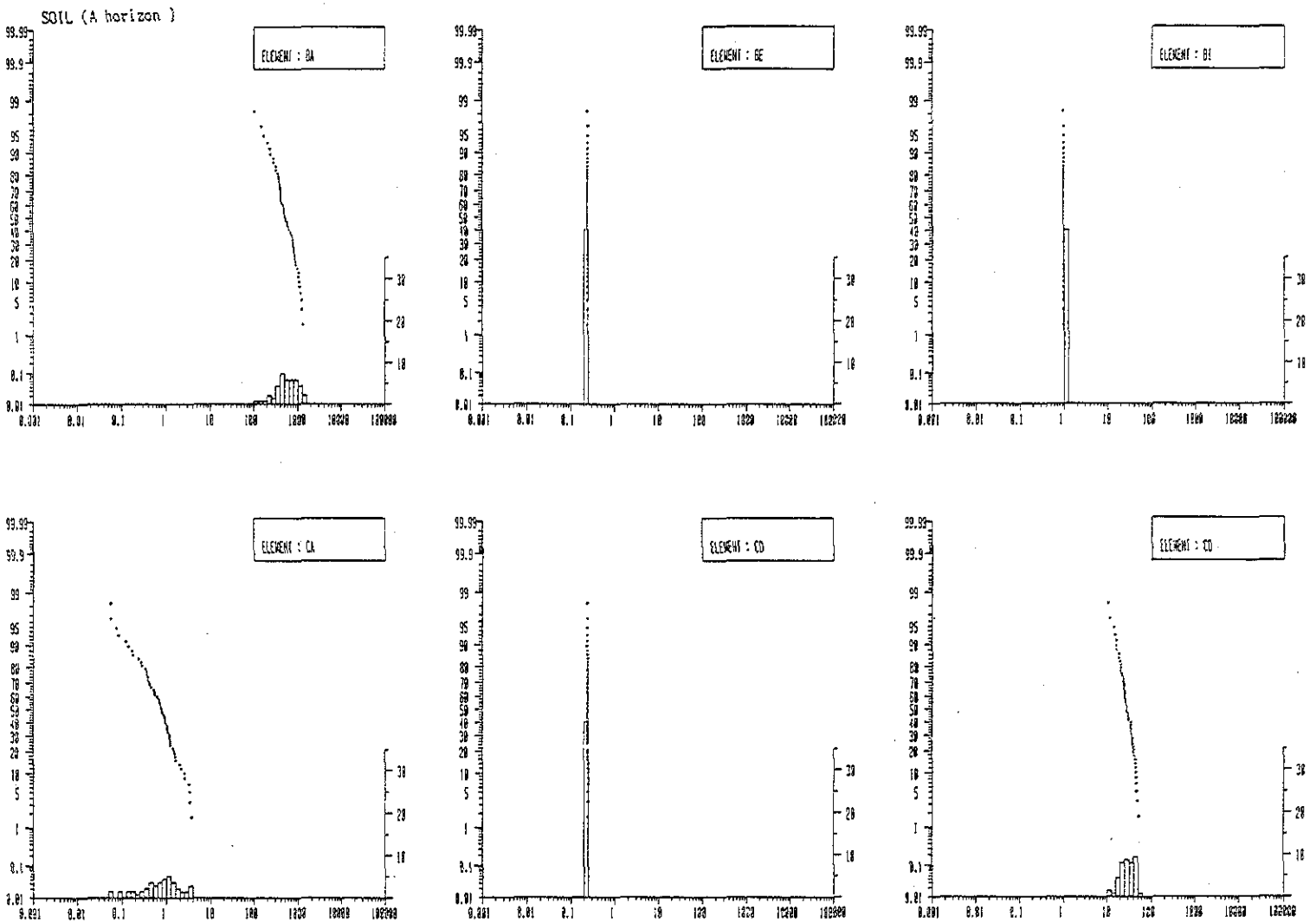

Fig. 4-2 Histogram of Assay Values (Soil, Stream Sediments) (No. 3)

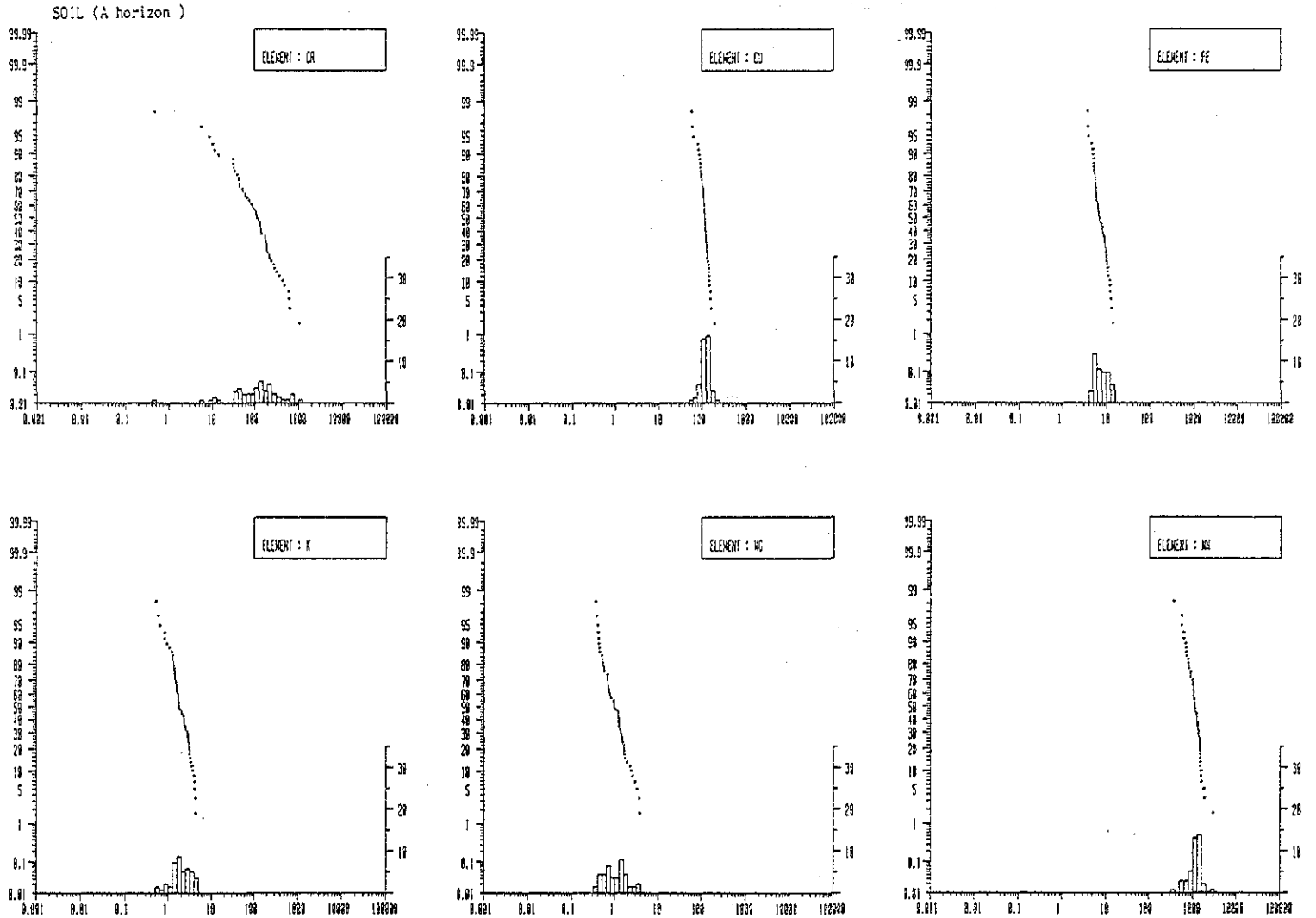

Fig. 4-2 Histogram of Assay Values (Soil, Stream Sediments) (No. 4)

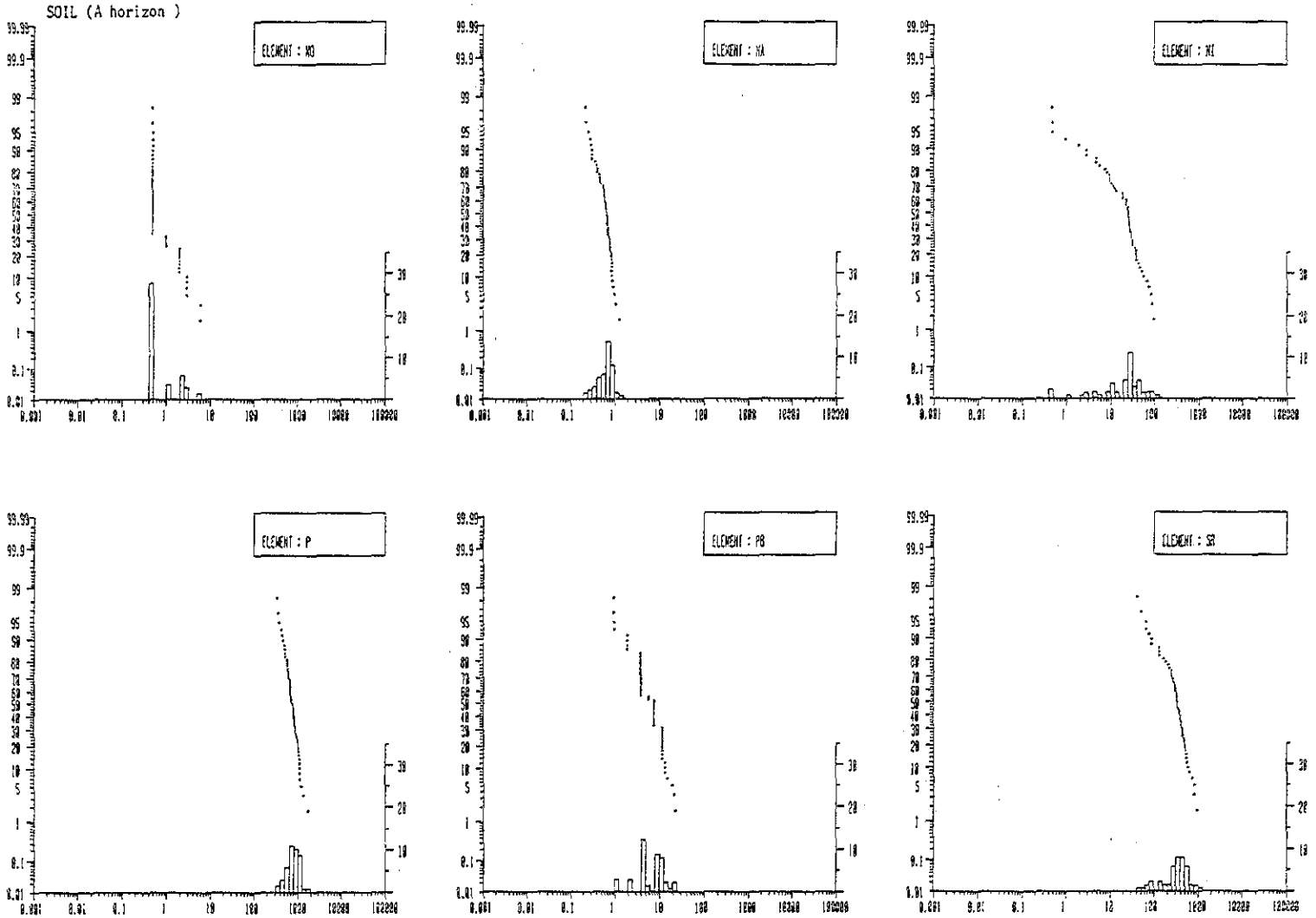

Fig. 4-2 Histogram of Assay Values (Soil, Stream Sediments) (No. 5)

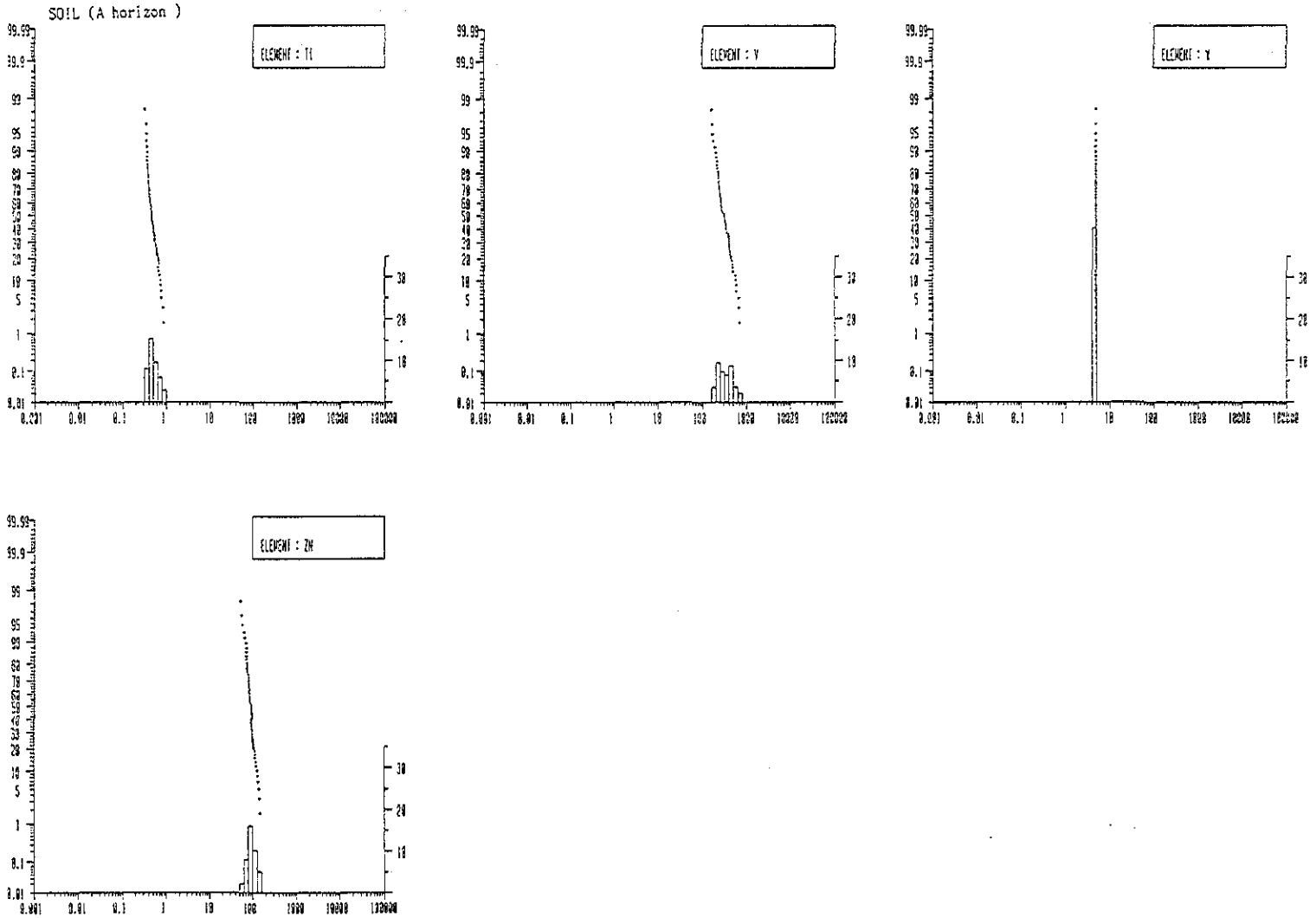

Fig. 4-2 Histogram of Assay Values (Soil, Stream Sediments) (No. 6)

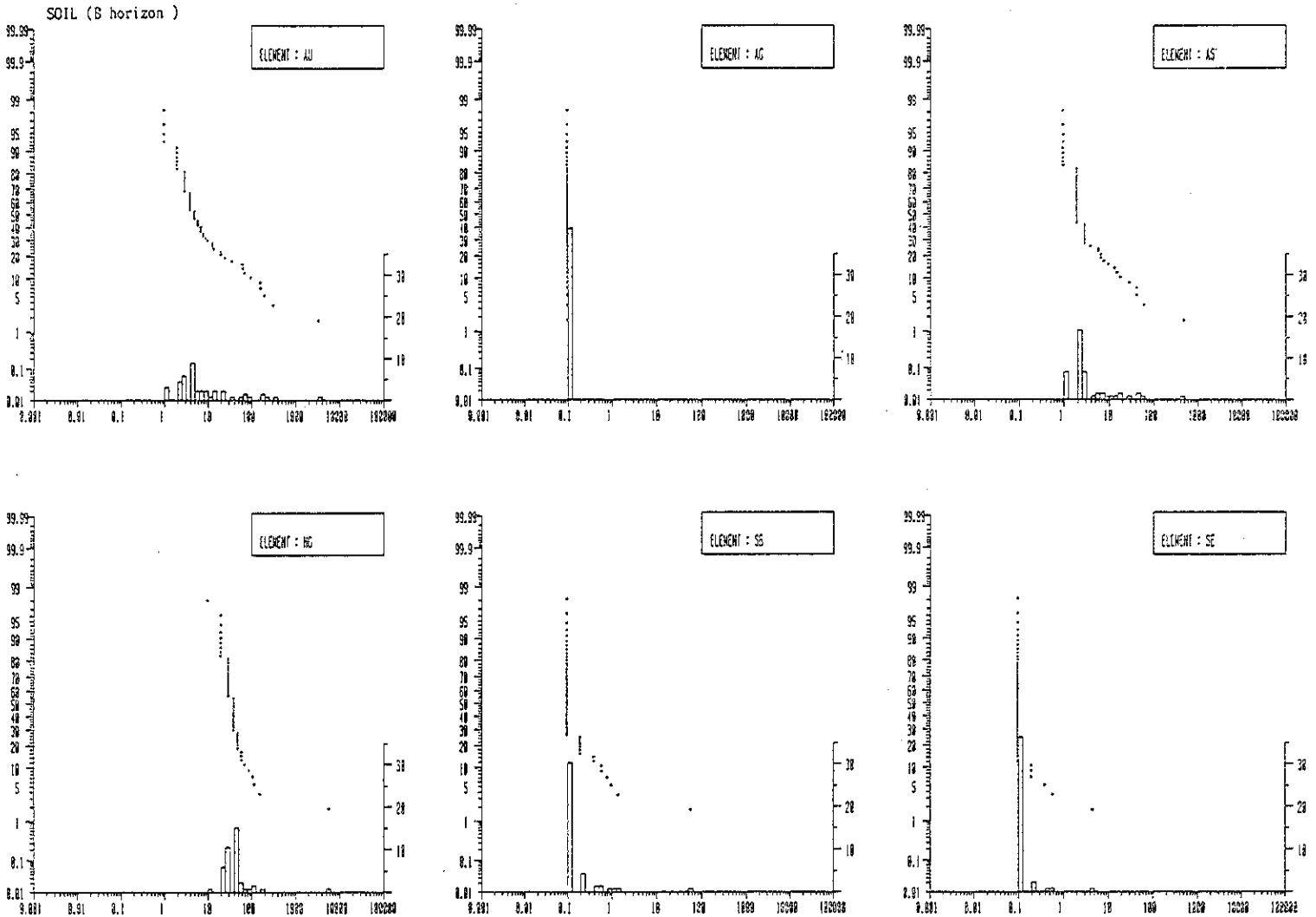

Fig. 4-2 Histogram of Assay Values (Soil, Stream Sediments) (No. 7)

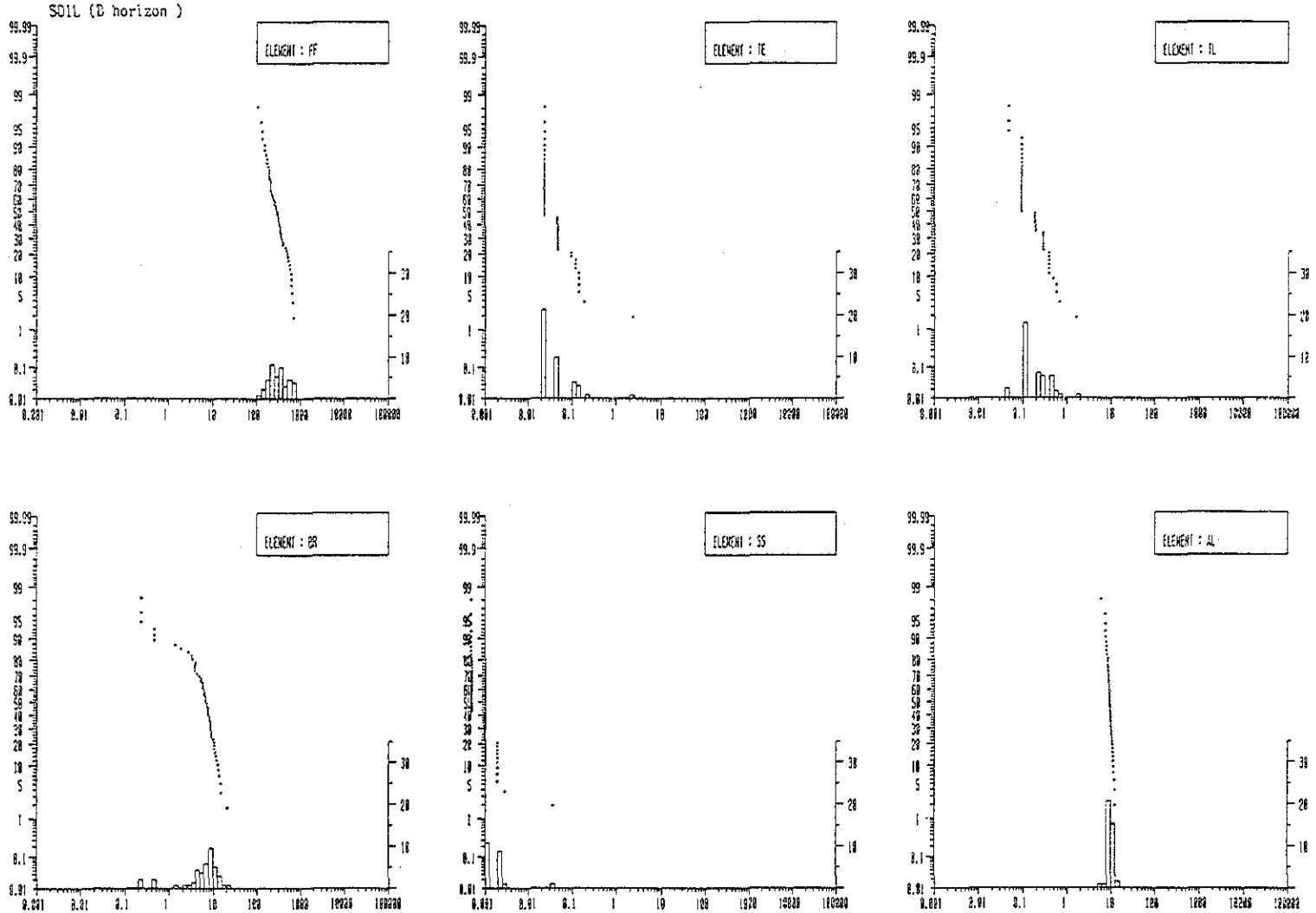

Fig. 4-2 Histogram of Assay Values (Soil, Stream Sediments) (No. 8)

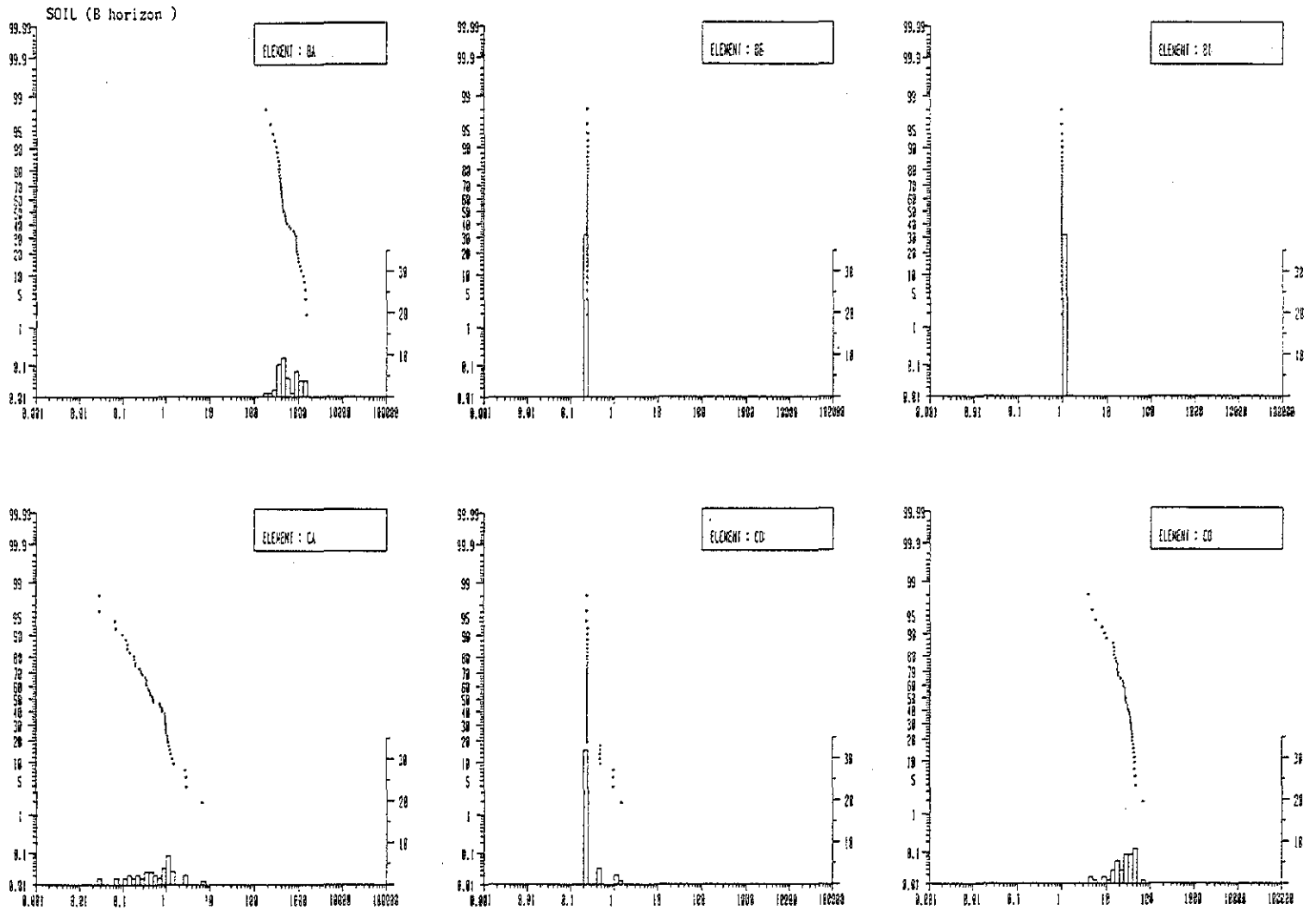

Fig. 4-2 Histogram of Assay Values (Soil, Stream Sediments) (No. 9)

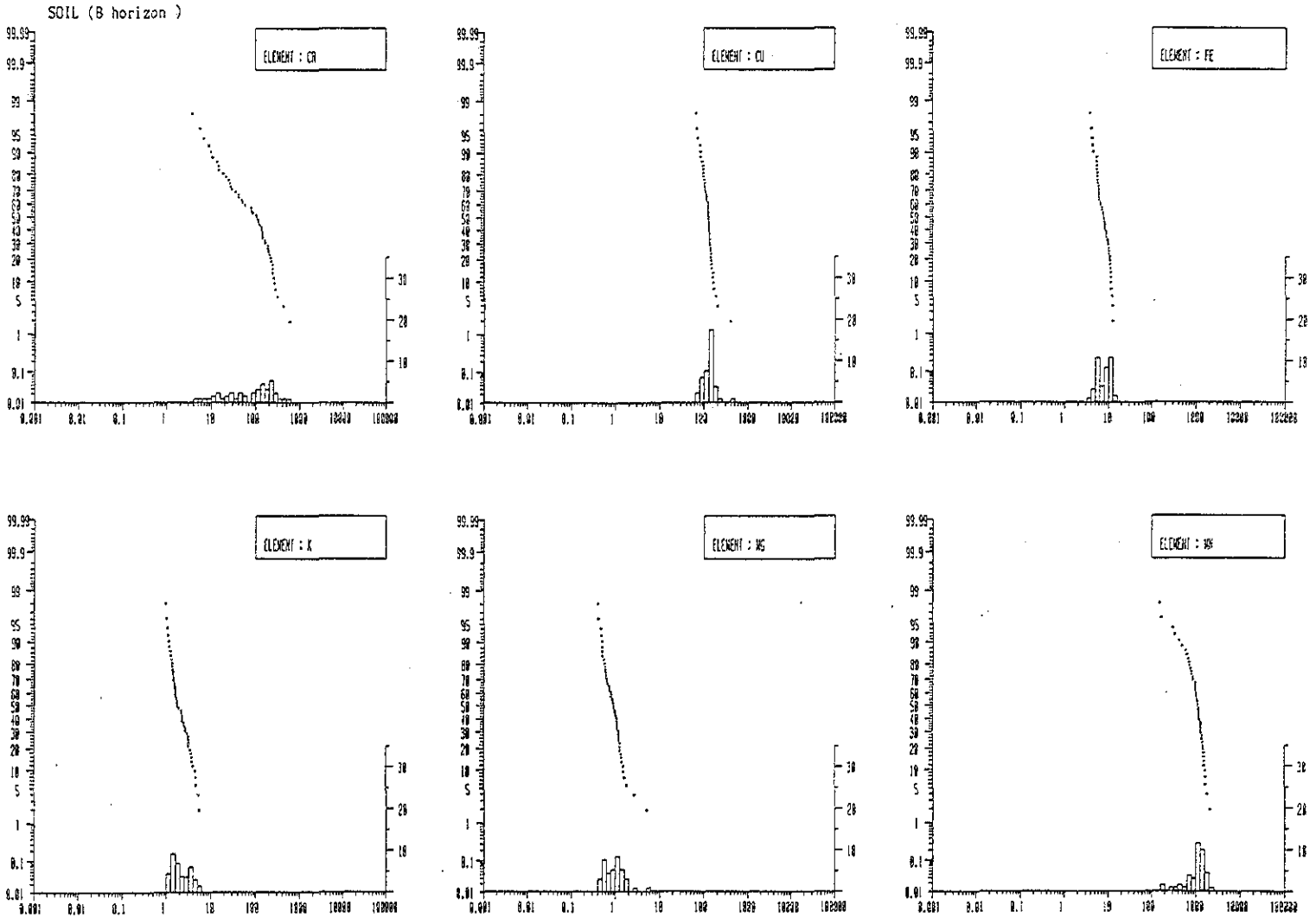

Fig. 4-2 Histogram of Assay Values (Soil, Stream Sediments) (No. 10)

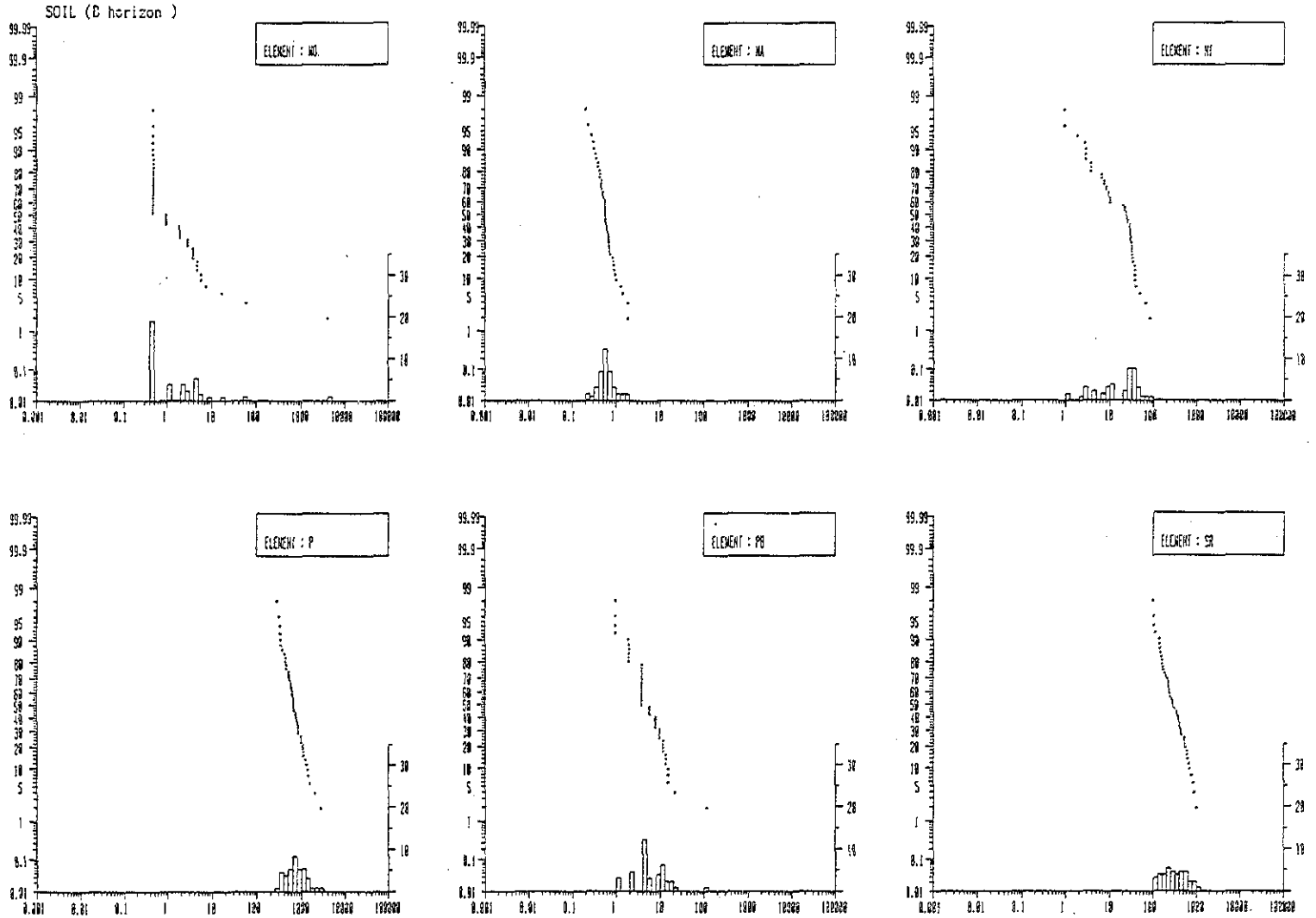

Fig. 4-2 Histogram of Assay Values (Soil, Stream Sediments) (No. 11)

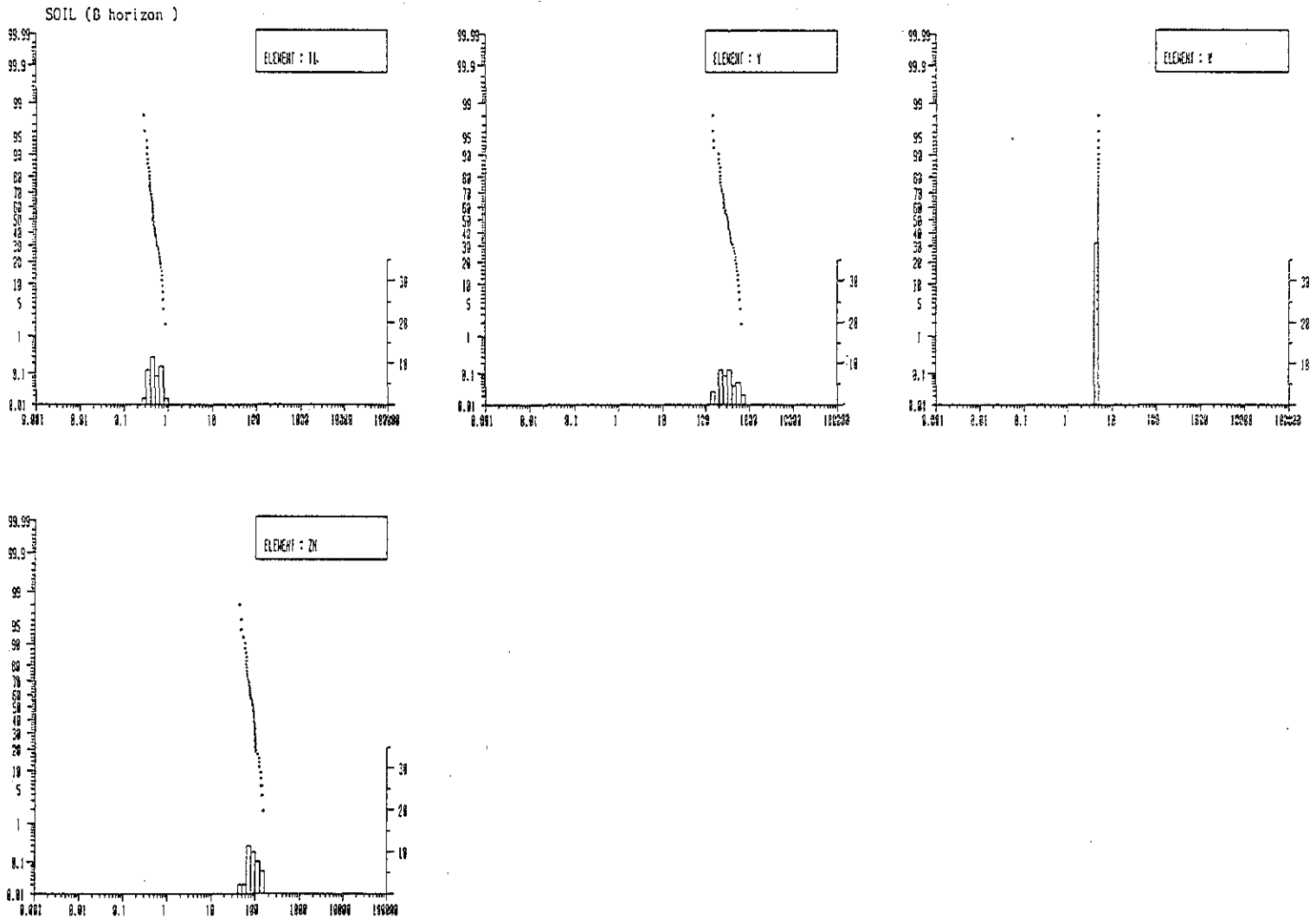

Fig. 4-2 Histogram of Assay Values (Soil, Stream Sediments) (No. 12)

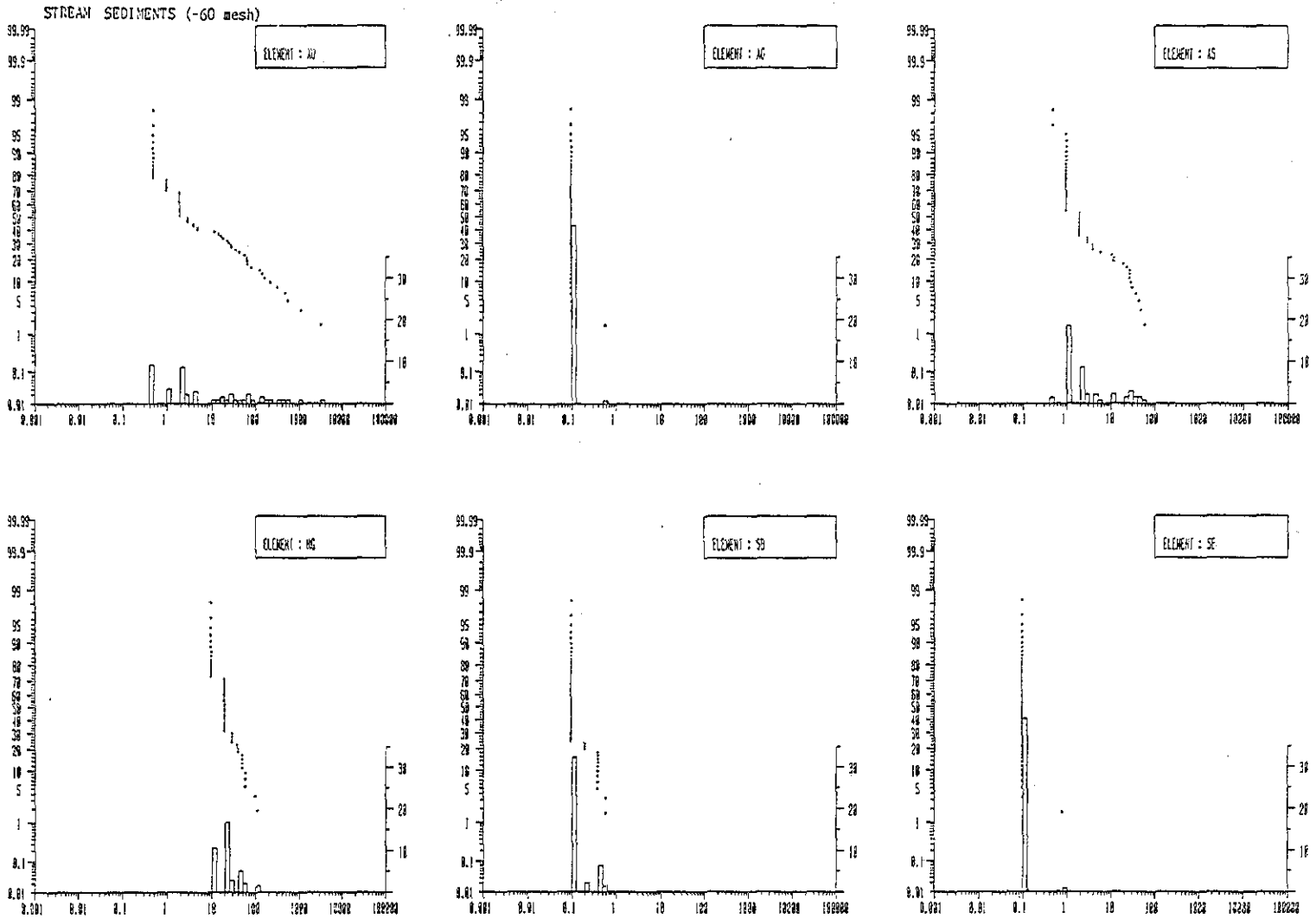

Fig. 4-2 Histogram of Assay Values (Soil, Stream Sediments) (No. 13)

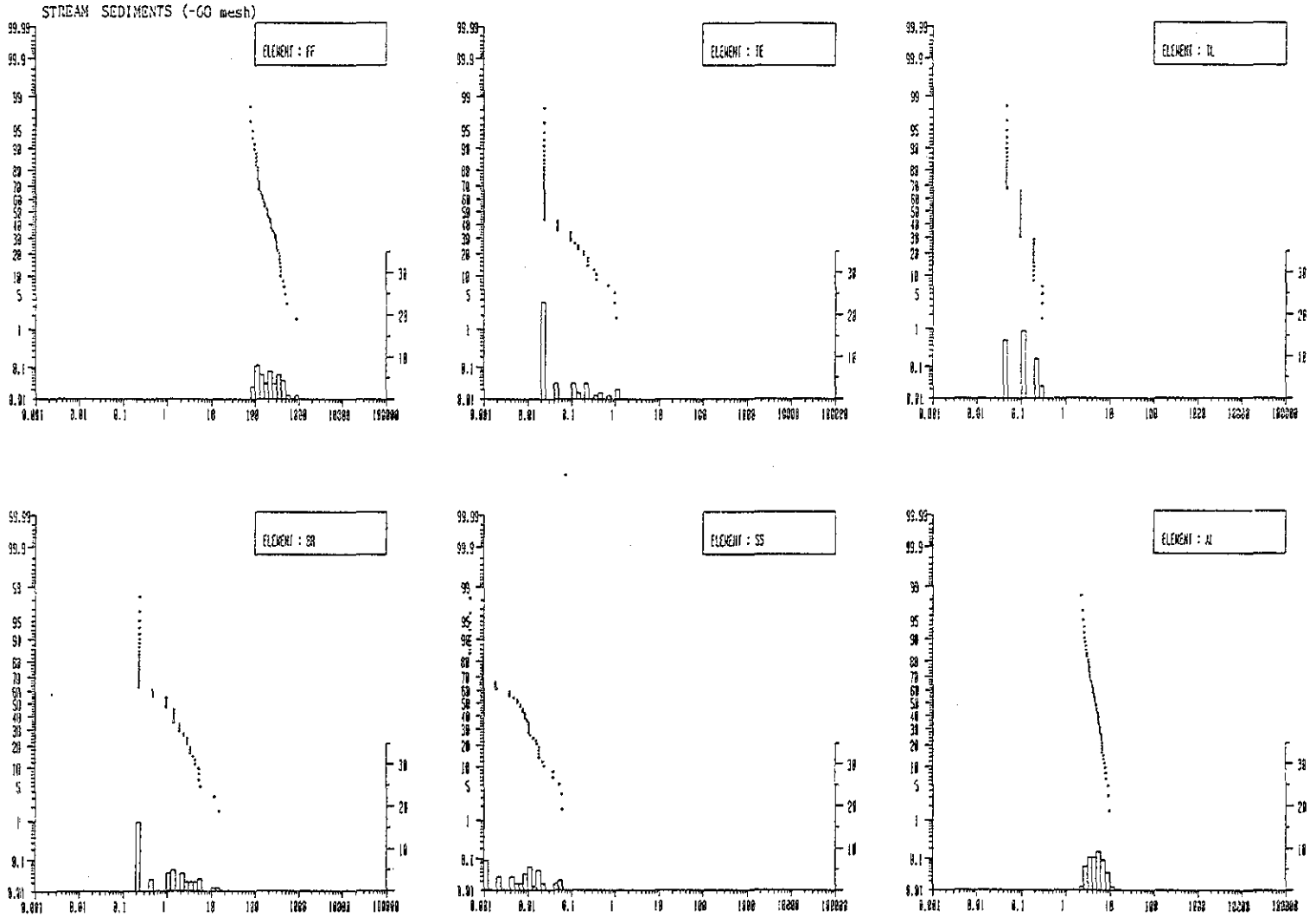

Fig. 4-2 Histogram of Assay Values (Soil, Stream Sediments) (No. 14)

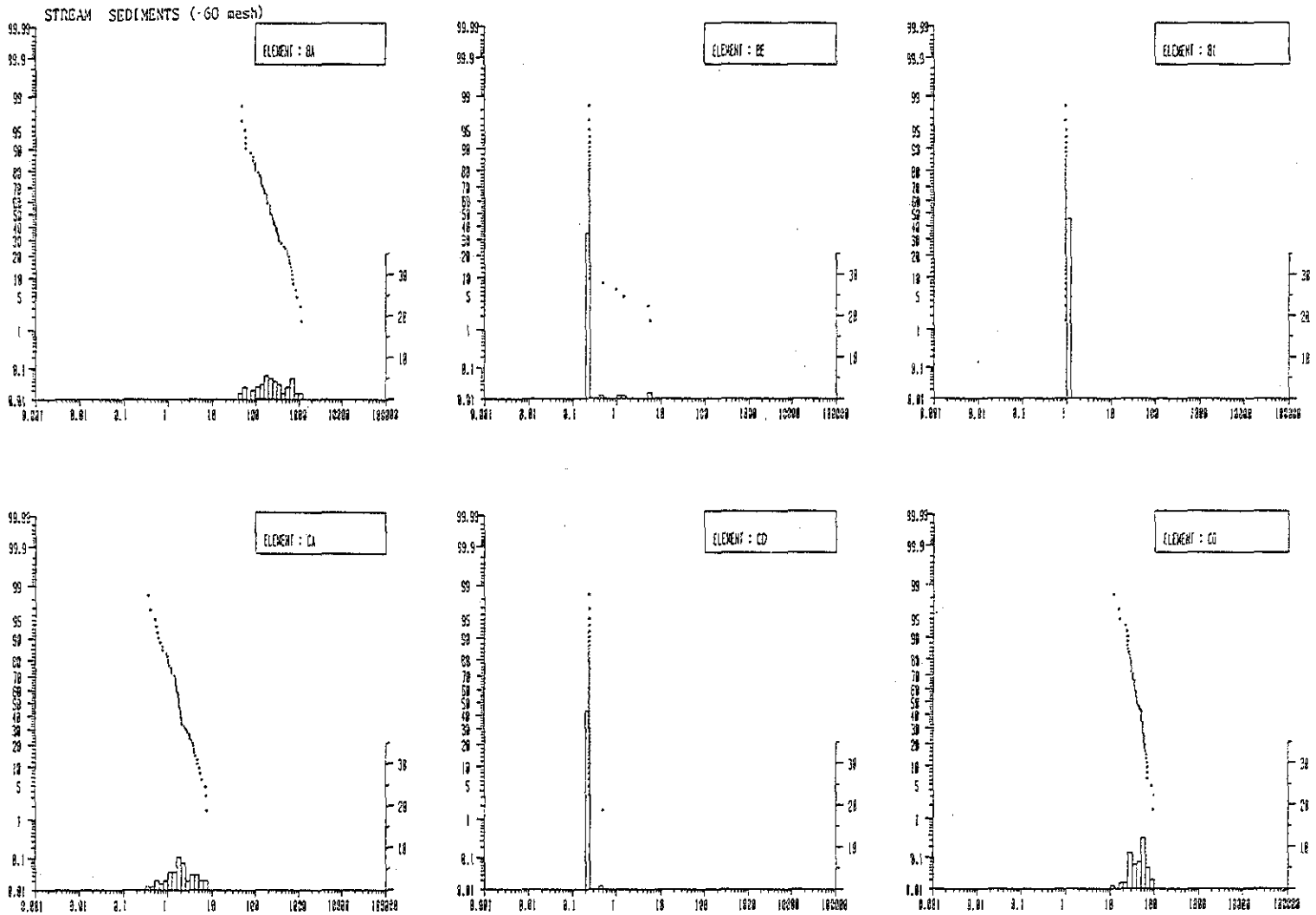

Fig. 4-2 Histogram of Assay Values (Soil, Stream Sediments) (No. 15)

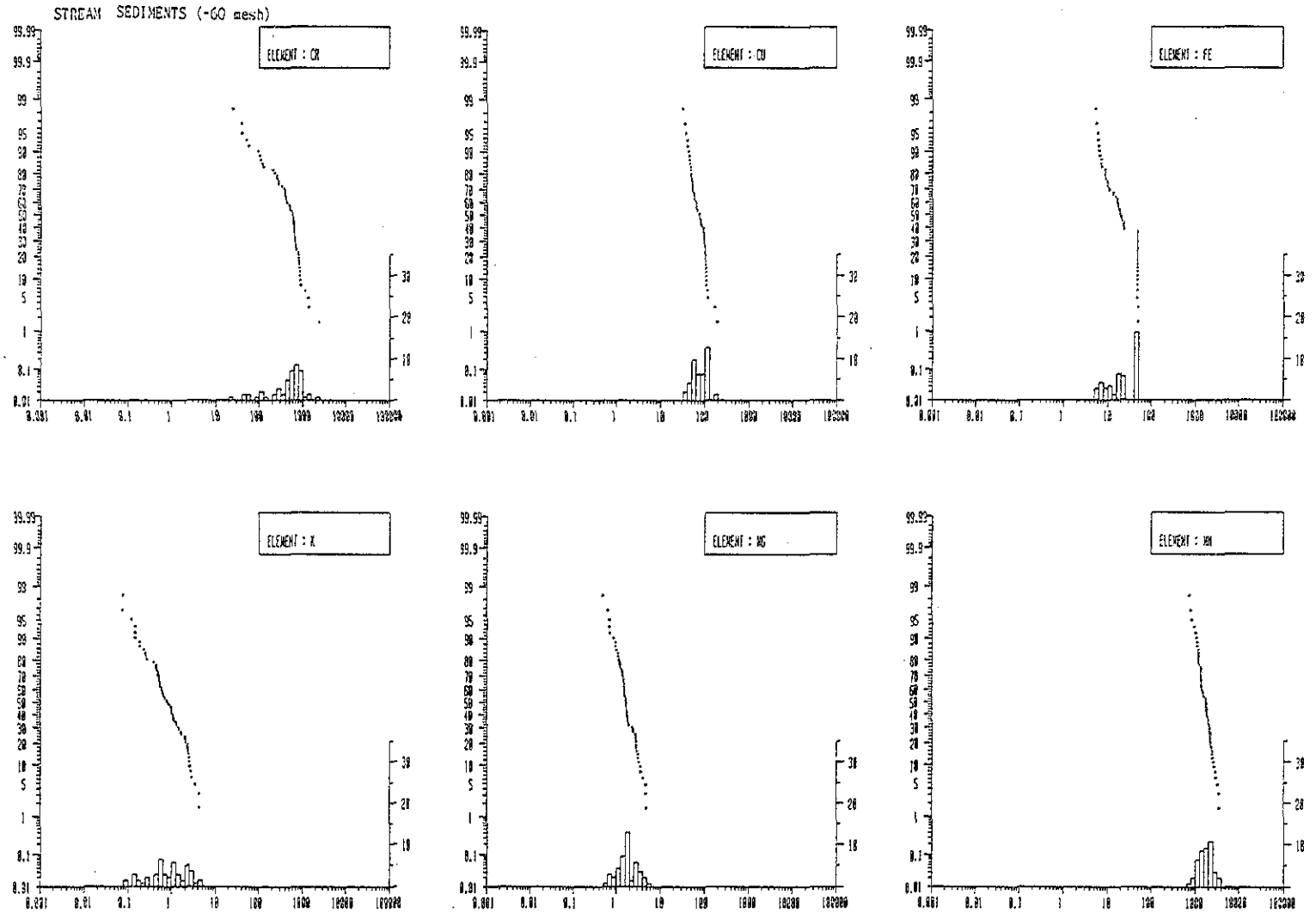

Fig. 4-2 Histogram of Assay Values (Soil, Stream Sediments) (No. 16)

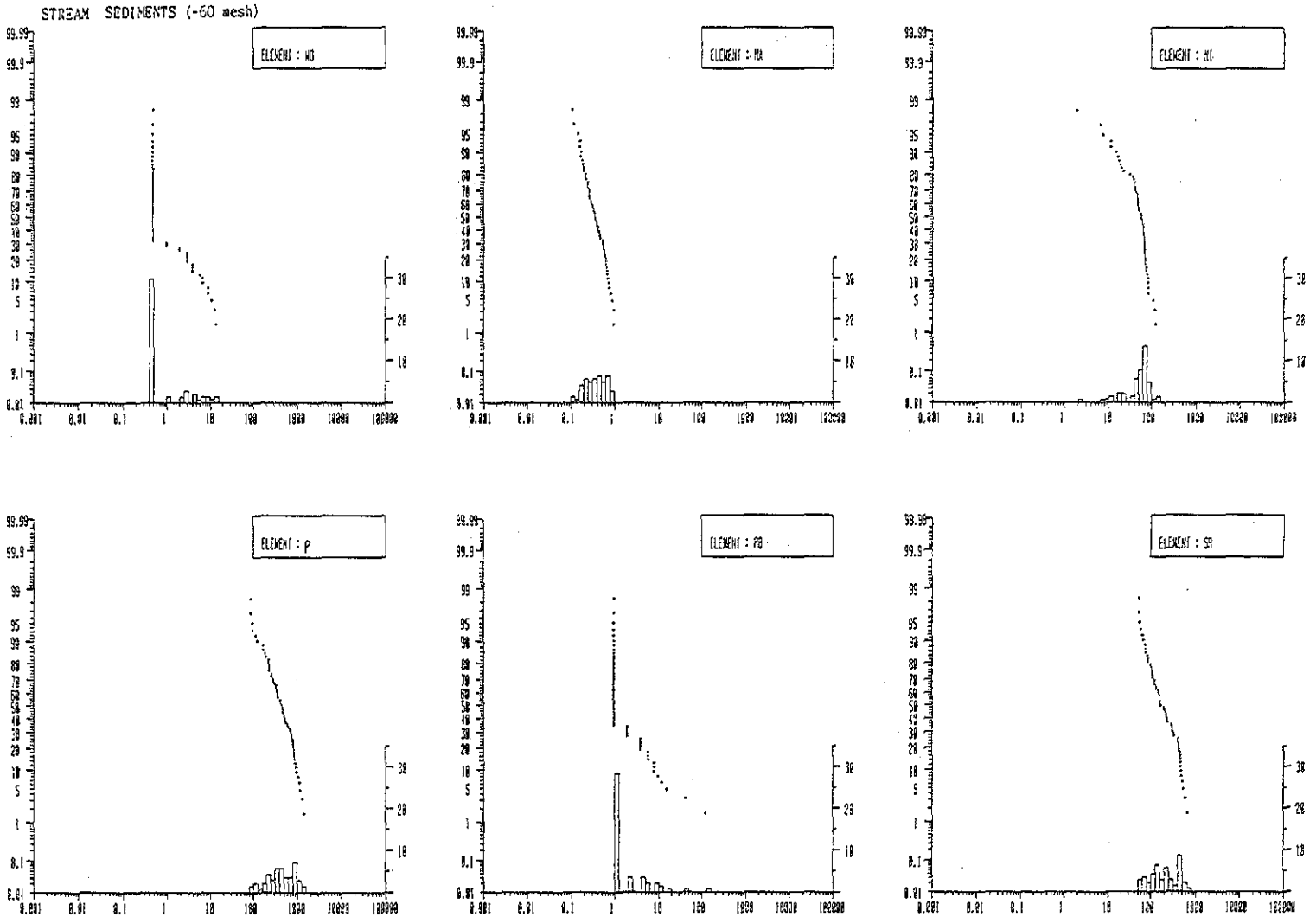

Fig. 4-2 Histogram of Assay Values (Soil, Stream Sediments) (No. 17)

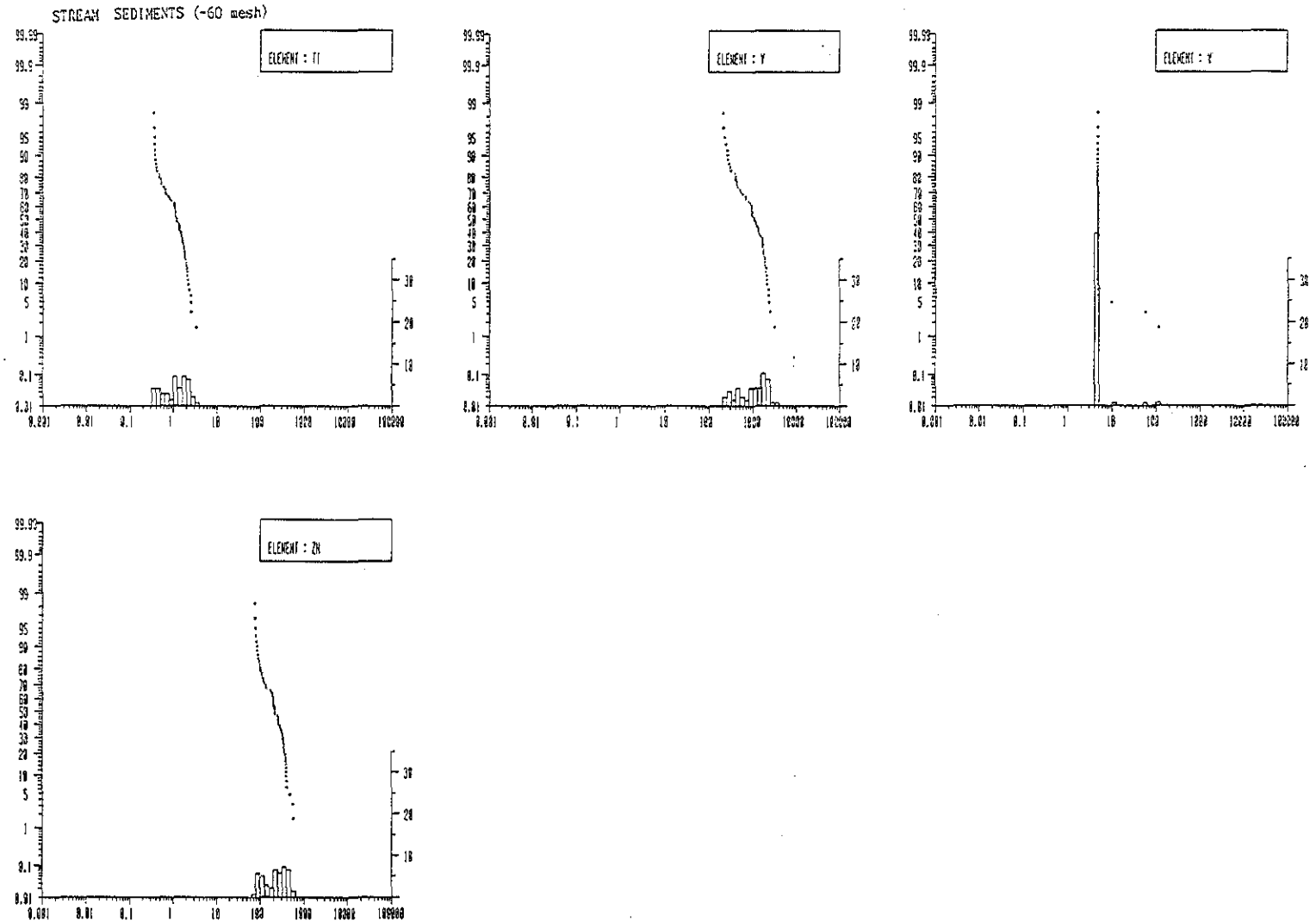

Fig. 4-2 Histogram of Assay Values (Soil, Stream Sediments) (No. 18)

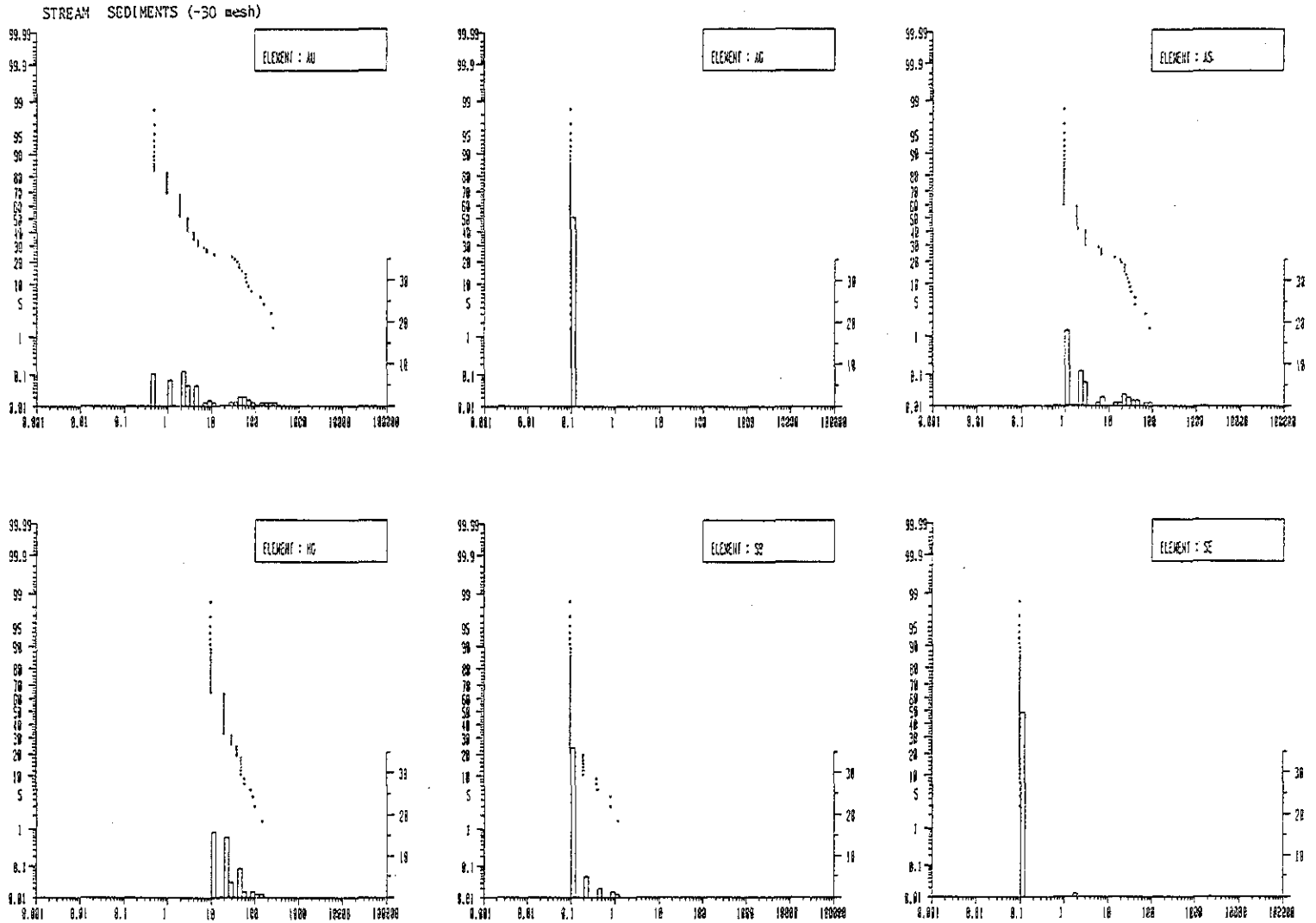

Fig. 4-2 Histogram of Assay Values (Soil, Stream Sediments) (No. 19)

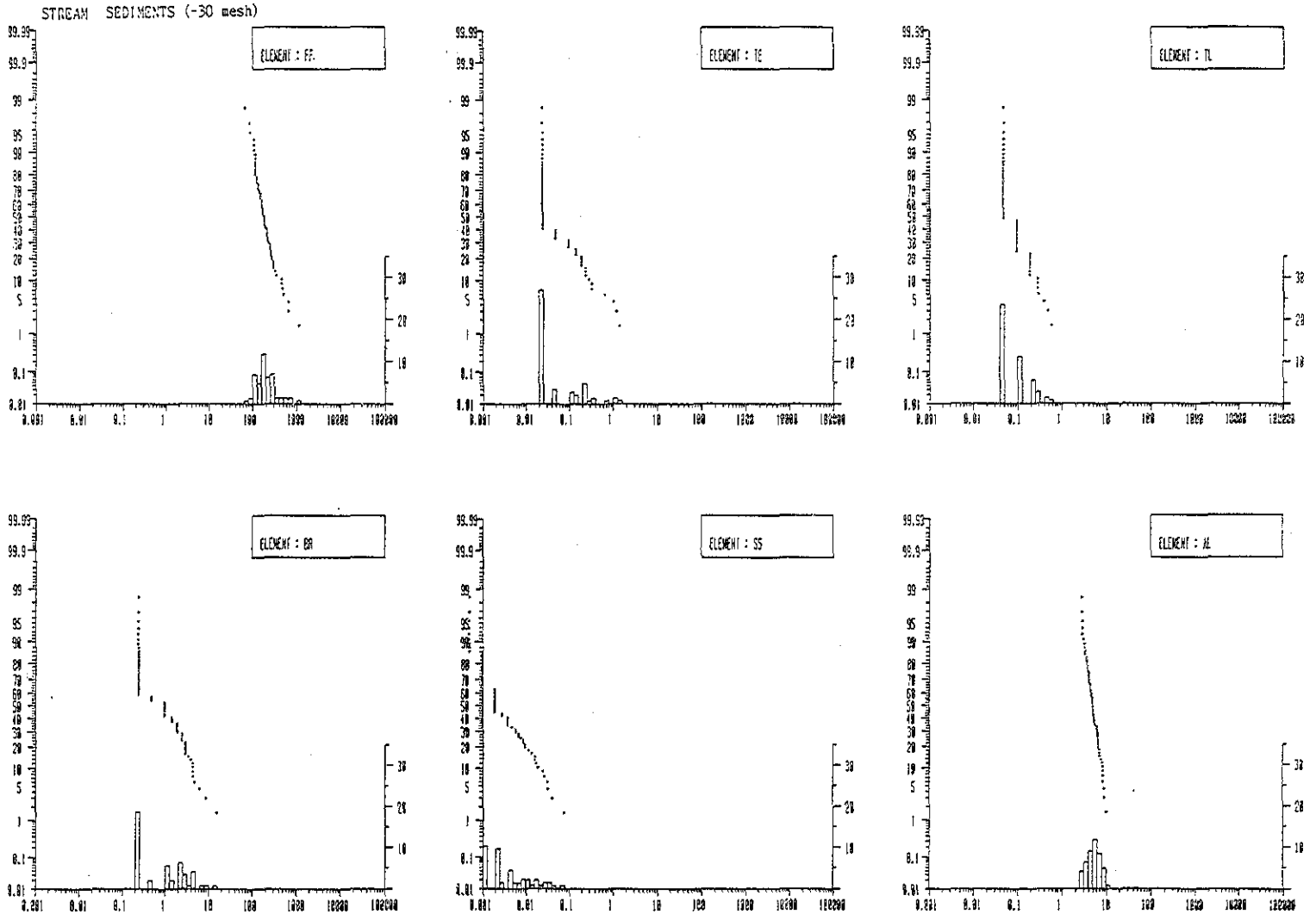

Fig. 4-2 Histogram of Assay Values (Soil, Stream Sediments) (No. 20)

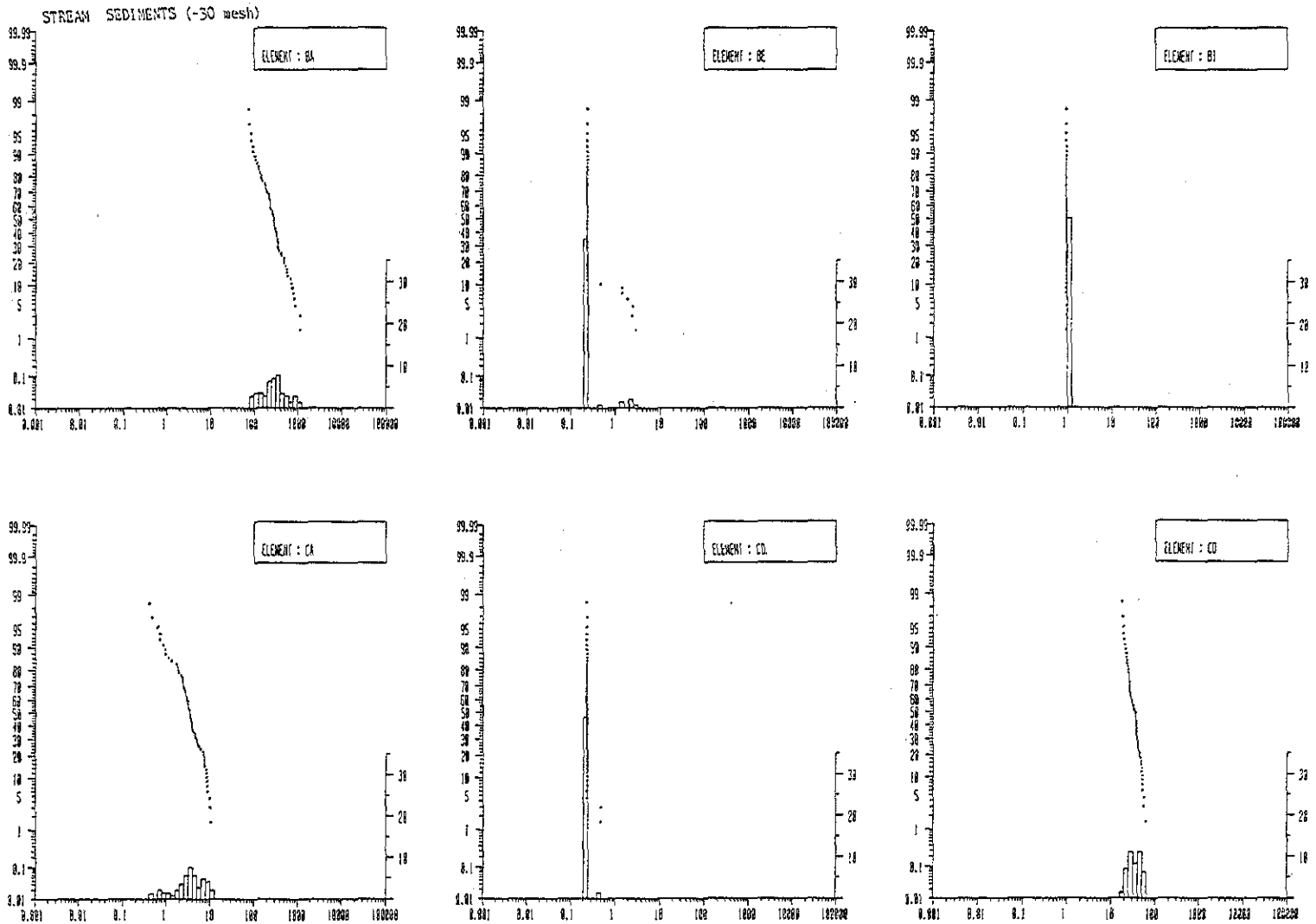

Fig. 4-2 Histogram of Assay Values (Soil, Stream Sediments) (No. 21)

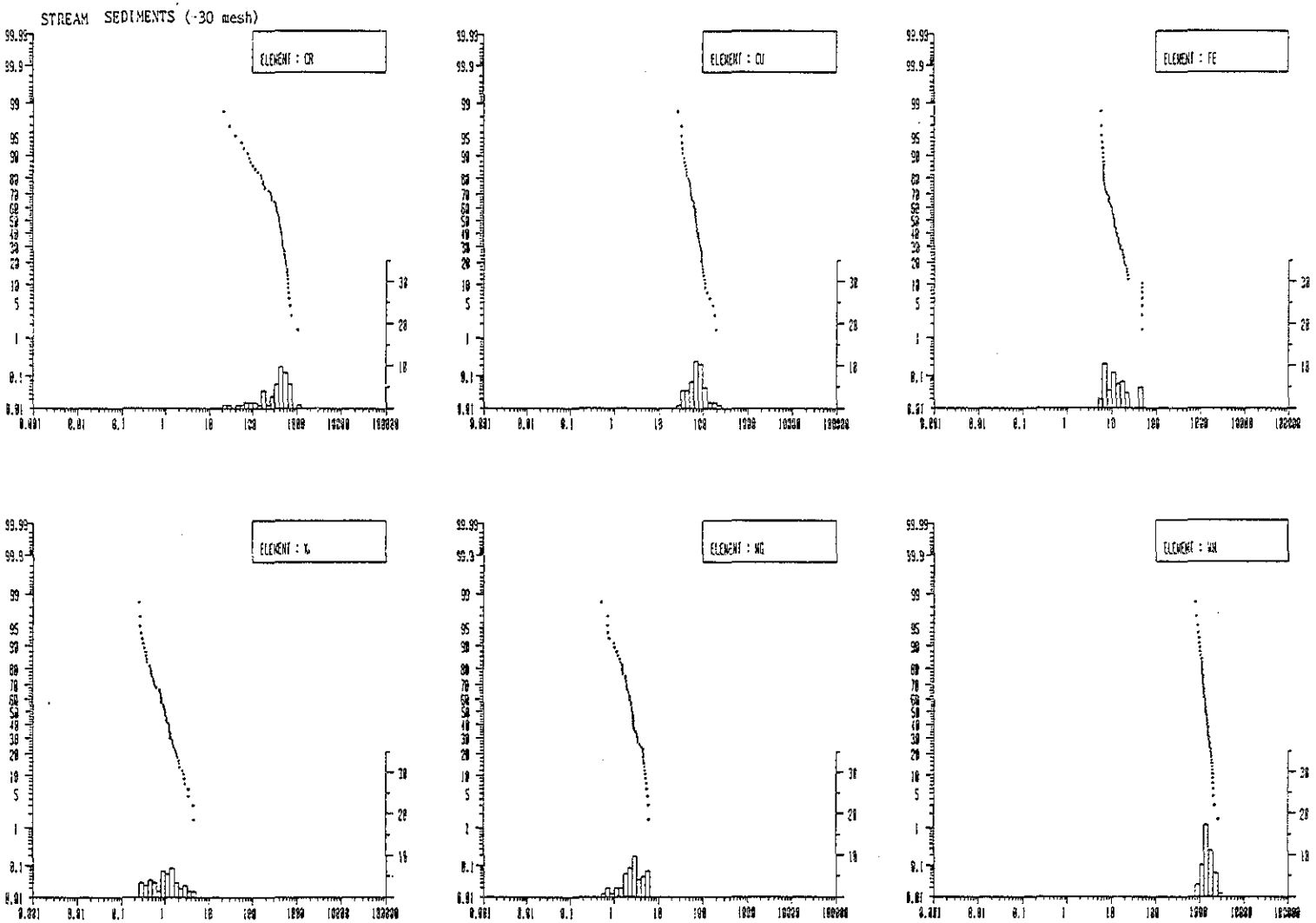

Fig. 4-2 Histogram of Assay Values (Soil, Stream Sediments) (No. 22)

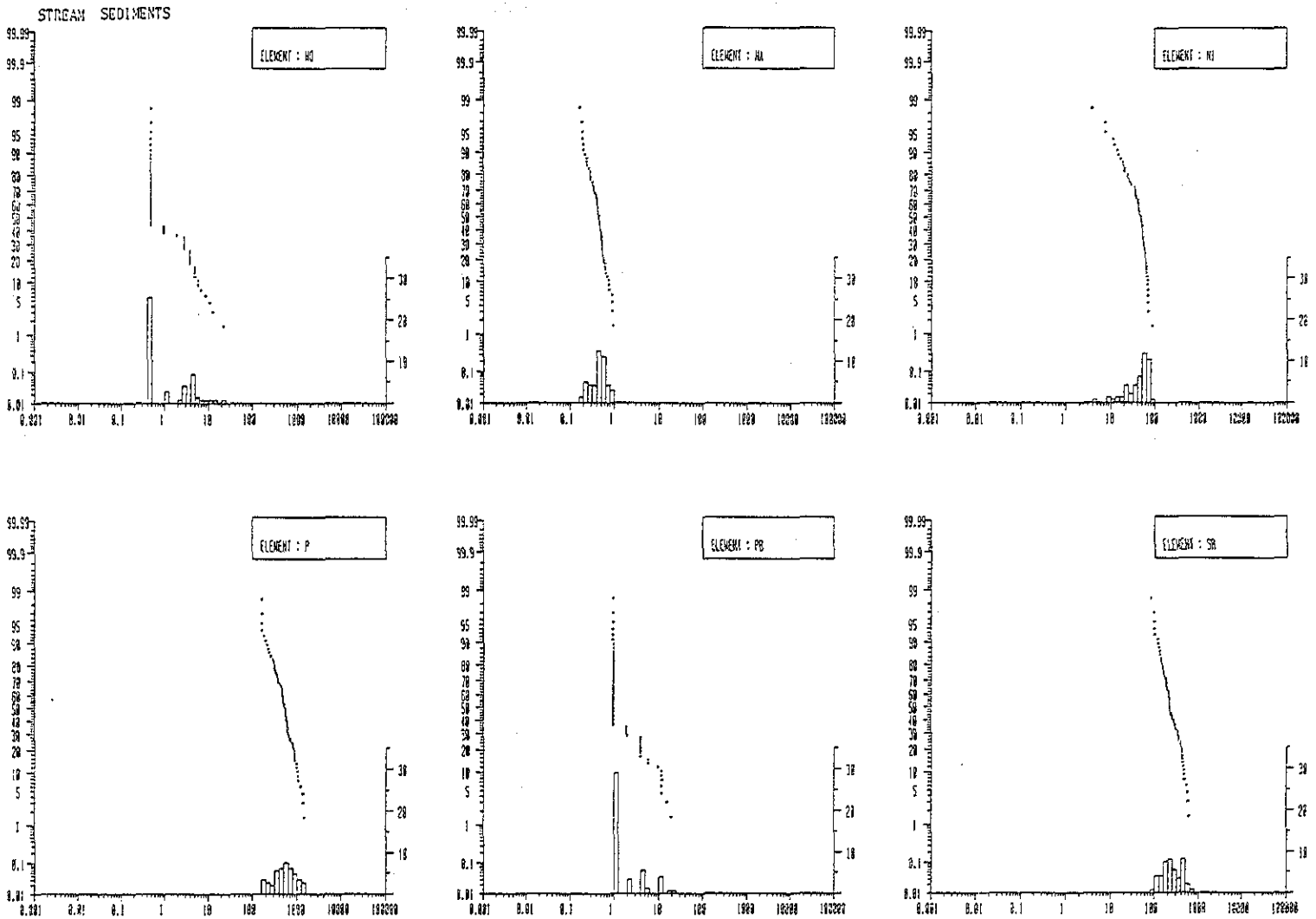

Fig. 4-2 Histogram of Assay Values (Soil, Stream Sediments) (No. 23)

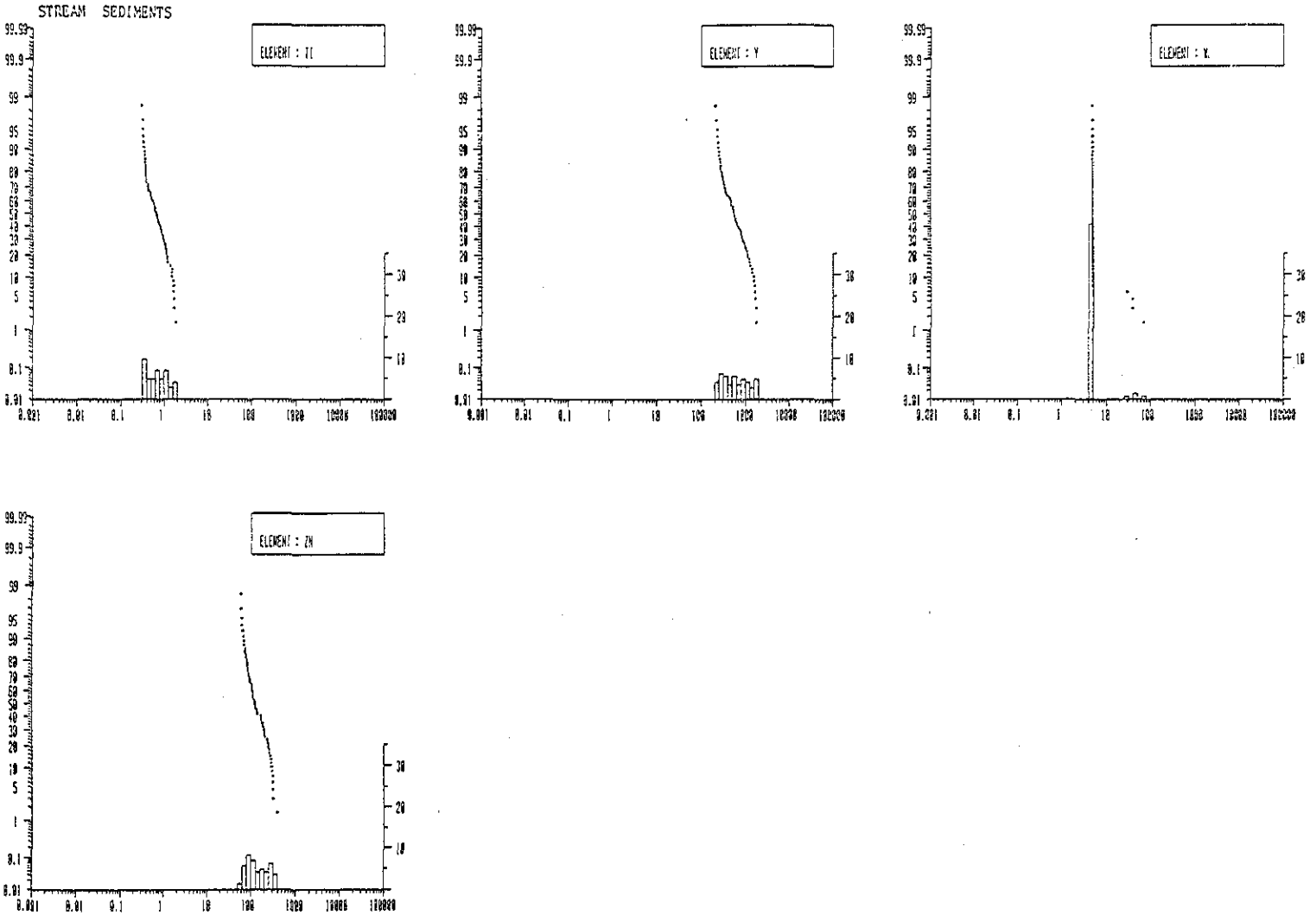

Fig. 4-2 Histogram of Assay Values (Soil, Stream Sediments) (No. 24)

Table 4-4 Correlation Coefficients of Assay Values (Soil-A)

SOIL(A horizon)

	AU	AS	HG	SB	F	TE	TL	BR
AU	1.000							
AS	0.684	1.000						
HG	0.556	0.719	1.000					
SB	0.597	0.725	0.610	1.000				
F	0.552	0.506	0.293	0.367	1.000			
TE	0.623	0.779	0.716	0.579	0.447	1.000		
TL	0.525	0.651	0.534	0.523	0.541	0.568	1.000	
BR	-0.099	0.120	0.123	-0.082	0.145	0.019	0.393	1.000
S	0.224	0.426	0.390	0.266	0.112	0.439	0.195	0.077
AL	-0.009	0.055	0.072	-0.021	-0.009	-0.005	0.257	0.209
BA	0.415	0.405	0.095	0.317	0.660	0.328	0.682	0.259
CA	0.188	0.140	0.023	0.204	0.117	0.144	-0.097	-0.178
CO	-0.106	-0.202	-0.072	-0.029	-0.347	-0.172	-0.506	-0.370
CR	0.035	0.048	0.092	0.125	-0.153	0.098	-0.475	-0.293
CU	0.051	0.192	0.190	0.151	-0.105	0.119	-0.203	-0.111
FE	-0.297	-0.373	-0.184	-0.254	-0.472	-0.261	-0.743	-0.292
K	0.461	0.416	0.098	0.331	0.648	0.335	0.704	0.251
MG	0.104	0.070	-0.065	0.195	0.126	0.109	-0.242	-0.342
MN	-0.022	-0.043	0.079	0.047	-0.190	-0.068	-0.241	-0.166
NA	0.339	0.290	0.012	0.293	0.341	0.190	0.261	-0.108
NI	-0.037	-0.060	0.102	0.100	-0.299	0.022	-0.507	-0.425
P	0.446	0.305	0.219	0.274	0.155	0.344	0.243	-0.093
PB	0.422	0.552	0.340	0.327	0.493	0.428	0.764	0.308
SR	0.399	0.346	0.049	0.318	0.611	0.302	0.520	0.150
TI	-0.301	-0.392	-0.181	-0.333	-0.435	-0.301	-0.687	-0.165
V	-0.249	-0.333	-0.161	-0.235	-0.368	-0.220	-0.703	-0.254
ZN	-0.029	-0.183	-0.013	-0.111	-0.107	-0.040	-0.344	-0.136

	S	AL	BA	CA	CO	CR	CU	FE
S	1.000							
AL	0.010	1.000						
BA	-0.079	0.111	1.000					
CA	-0.102	-0.615	0.221	1.000				
CO	-0.107	-0.420	-0.305	0.542	1.000			
CR	0.223	-0.544	-0.385	0.638	0.701	1.000		
CU	0.330	0.248	-0.281	0.018	0.298	0.515	1.000	
FE	0.070	-0.160	-0.594	0.289	0.694	0.700	0.475	1.000
K	-0.081	0.139	0.979	0.157	-0.333	-0.410	-0.259	-0.625
MG	-0.009	-0.500	0.175	0.875	0.628	0.687	0.177	0.414
MN	-0.054	-0.104	-0.165	0.461	0.752	0.541	0.411	0.565
NA	-0.129	-0.134	0.622	0.671	0.213	0.183	0.123	-0.130
NI	0.232	-0.437	-0.486	0.468	0.743	0.879	0.510	0.714
P	0.151	0.028	0.205	0.401	0.091	0.271	0.379	0.111
PB	0.124	0.401	0.666	-0.090	-0.433	-0.406	-0.063	-0.577
SR	-0.125	-0.128	0.905	0.568	-0.116	-0.107	-0.252	-0.410
TI	-0.019	-0.014	-0.556	0.116	0.557	0.504	0.414	0.932
V	0.056	-0.210	-0.527	0.327	0.671	0.698	0.448	0.978
ZN	-0.061	0.055	-0.087	0.207	0.436	0.371	0.418	0.710

	K	MG	MN	NA	NI	P	PB	SR
K	1.000							
MG	0.101	1.000						
MN	-0.196	0.481	1.000					
NA	0.611	0.610	0.362	1.000				
NI	-0.505	0.616	0.482	0.078	1.000			
P	0.228	0.276	0.378	0.482	0.153	1.000		
PB	0.682	-0.170	-0.127	0.357	-0.486	0.233	1.000	
SR	0.866	0.459	0.028	0.807	-0.276	0.356	0.516	1.000
TI	-0.568	0.194	0.458	-0.221	0.493	0.040	-0.549	-0.443
V	-0.562	0.431	0.545	-0.076	0.674	0.118	-0.565	-0.334
ZN	-0.112	0.293	0.499	0.079	0.341	0.309	-0.233	-0.013

	TI	V	ZN
TI	1.000		
V	0.944	1.000	
ZN	0.770	0.752	1.000

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Table 4-4 Correlation Coefficients of Assay Values (Soil-B)

SOIL(B horizon)

	AU	AS	HG	FF	TE	TL	BR	S
AU	1.000							
AS	0.728	1.000						
HG	0.694	0.823	1.000					
FF	0.285	0.523	0.396	1.000				
TE	0.288	0.492	0.255	0.396	1.000			
TL	0.320	0.677	0.571	0.514	0.338	1.000		
BR	-0.250	-0.206	-0.167	-0.353	0.159	-0.152	1.000	
S	0.448	0.530	0.709	0.286	0.168	0.312	-0.133	1.000
AL	-0.392	-0.405	-0.489	-0.050	-0.002	0.016	0.192	-0.408
BA	-0.117	0.139	-0.124	0.438	0.215	0.503	-0.027	-0.270
CA	0.143	0.088	-0.042	0.046	0.059	-0.236	-0.068	0.101
CO	-0.138	-0.280	-0.382	-0.455	-0.182	-0.653	0.291	-0.373
CR	0.228	0.080	0.125	-0.259	-0.041	-0.429	0.219	0.078
CU	0.109	-0.252	-0.250	-0.324	-0.080	-0.484	0.090	-0.393
FE	0.001	-0.218	-0.079	-0.509	-0.208	-0.573	0.392	-0.145
K	0.016	0.314	0.086	0.519	0.306	0.693	-0.043	-0.089
MG	0.135	0.037	-0.103	0.021	0.057	-0.291	-0.207	-0.022
MN	-0.257	-0.262	-0.402	-0.275	-0.114	-0.447	0.184	-0.309
MO	0.394	0.558	0.709	0.308	-0.069	0.490	-0.441	0.457
NA	-0.153	-0.164	-0.418	0.170	0.067	-0.177	-0.190	-0.226
NI	0.126	-0.120	-0.103	-0.330	-0.105	-0.628	0.148	-0.104
P	0.386	0.380	0.198	0.342	0.257	0.140	-0.451	0.006
PB	0.507	0.590	0.569	0.506	0.427	0.692	-0.163	0.348
SR	0.090	0.215	-0.031	0.483	0.214	0.310	-0.261	-0.017
TI	-0.272	-0.406	-0.334	-0.474	-0.151	-0.538	0.643	-0.319
V	0.093	-0.114	0.047	-0.415	-0.164	-0.473	0.373	-0.017
ZN	-0.207	-0.209	-0.246	-0.298	-0.030	-0.195	0.411	-0.283

	AL	BA	CA	CO	CR	CU	FE	K
AL	1.000							
BA	0.337	1.000						
CA	-0.543	0.023	1.000					
CO	-0.258	-0.292	0.542	1.000				
CR	-0.648	-0.508	0.455	0.647	1.000			
CU	0.105	-0.299	-0.068	0.424	0.350	1.000		
FE	-0.380	-0.605	0.184	0.696	0.747	0.449	1.000	
K	0.329	0.912	-0.153	-0.493	-0.617	-0.399	-0.694	1.000
MG	-0.609	-0.080	0.810	0.478	0.569	0.001	0.238	-0.242
MN	-0.136	-0.013	0.631	0.805	0.345	0.189	0.378	-0.243
MO	-0.355	-0.085	-0.158	-0.459	-0.178	-0.357	-0.212	0.109
NA	0.030	0.403	0.699	0.325	-0.044	-0.035	-0.234	0.187
NI	-0.437	-0.499	0.434	0.723	0.875	0.517	0.709	-0.650
P	-0.295	0.176	0.405	0.016	-0.009	-0.044	-0.174	0.197
PB	0.134	0.300	-0.381	-0.677	-0.390	-0.165	-0.487	0.515
SR	0.020	0.743	0.491	-0.131	-0.322	-0.341	-0.544	0.640
TI	-0.061	-0.320	0.117	0.653	0.541	0.335	0.843	-0.449
V	-0.460	-0.610	0.210	0.619	0.788	0.371	0.967	-0.661
ZN	-0.239	-0.069	0.235	0.513	0.423	0.226	0.629	-0.183

	MG	MN	MO	NA	NI	P	PB	SR
MG	1.000							
MN	0.443	1.000						
MO	-0.160	-0.430	1.000					
NA	0.529	0.623	-0.409	1.000				
NI	0.525	0.466	-0.359	0.144	1.000			
P	0.469	0.055	0.220	0.277	-0.045	1.000		
PB	-0.410	-0.524	0.443	-0.262	-0.526	0.118	1.000	
SR	0.297	0.211	-0.005	0.726	-0.259	0.360	0.159	1.000
TI	0.084	0.385	-0.465	-0.158	0.512	-0.329	-0.554	-0.418
V	0.277	0.294	-0.146	-0.293	0.680	-0.122	-0.425	-0.527
ZN	0.298	0.418	-0.300	0.004	0.299	-0.079	-0.372	-0.190

	TI	V	ZN
TI	1.000		
V	0.828	1.000	
ZN	0.716	0.648	1.000

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Table 4-4 Correlation Coefficients of Assay Values

Stream sediments(-30mesh)

(-30 mesh Stream Sediments)

	AU	AS	HG	FF	TE	TL	BR	S
AU	1.000							
AS	0.722	1.000						
HG	0.634	0.786	1.000					
F	0.559	0.707	0.682	1.000				
TE	0.490	0.737	0.594	0.553	1.000			
TL	0.682	0.817	0.672	0.700	0.654	1.000		
BR	0.345	0.332	0.388	0.542	0.362	0.335	1.000	
S	-0.146	0.214	0.064	-0.244	0.164	0.004	-0.434	1.000
AL	0.500	0.497	0.547	0.839	0.470	0.568	0.716	-0.504
BA	0.575	0.686	0.650	0.877	0.647	0.727	0.598	-0.201
BE	0.010	0.125	0.029	-0.061	-0.068	0.028	-0.026	0.287
CA	-0.242	-0.168	-0.173	-0.522	-0.281	-0.370	-0.521	0.562
CO	-0.445	-0.664	-0.520	-0.675	-0.685	-0.639	-0.531	0.034
CR	-0.315	-0.382	-0.362	-0.751	-0.489	-0.545	-0.629	0.493
CU	0.549	0.512	0.539	0.769	0.475	0.518	0.613	-0.418
FE	-0.460	-0.630	-0.513	-0.561	-0.504	-0.565	-0.417	-0.094
K	0.610	0.682	0.692	0.905	0.613	0.701	0.654	-0.301
MG	-0.207	-0.121	-0.148	-0.489	-0.268	-0.329	-0.542	0.604
MN	-0.521	-0.491	-0.403	-0.510	-0.419	-0.521	-0.529	0.160
MO	0.417	0.441	0.385	0.386	0.271	0.467	0.300	-0.069
NA	0.471	0.615	0.607	0.749	0.400	0.606	0.336	-0.043
NI	-0.266	-0.367	-0.325	-0.753	-0.477	-0.500	-0.584	0.437
P	0.606	0.692	0.665	0.860	0.608	0.669	0.595	-0.270
SR	0.537	0.766	0.689	0.807	0.635	0.740	0.430	0.024
TI	-0.540	-0.694	-0.542	-0.525	-0.565	-0.613	-0.361	-0.156
V	-0.545	-0.673	-0.552	-0.569	-0.553	-0.623	-0.438	-0.070
ZN	-0.401	-0.450	-0.346	-0.333	-0.406	-0.407	-0.340	-0.065

	AL	BA	BE	CA	CO	CR	CU	FE
AL	1.000							
BA	0.898	1.000						
BE	-0.159	-0.119	1.000					
CA	-0.603	-0.416	0.192	1.000				
CO	-0.631	-0.772	-0.107	0.295	1.000			
CR	-0.841	-0.728	0.140	0.845	0.661	1.000		
CU	0.893	0.806	-0.227	-0.592	-0.478	-0.716	1.000	
FE	-0.591	-0.753	-0.202	-0.076	0.826	0.377	-0.449	1.000
K	0.935	0.975	-0.125	-0.471	-0.745	-0.756	0.839	-0.707
MG	-0.609	-0.411	0.231	0.989	0.283	0.841	-0.574	-0.087
MN	-0.605	-0.690	-0.167	0.166	0.816	0.483	-0.466	0.836
MO	0.430	0.430	-0.037	-0.213	-0.236	-0.305	0.421	-0.335
NA	0.700	0.833	0.065	0.021	-0.652	-0.405	0.569	-0.836
NI	-0.794	-0.696	0.154	0.816	0.668	0.976	-0.670	0.354
P	0.908	0.937	-0.101	-0.440	-0.702	-0.715	0.878	-0.687
SR	0.723	0.901	0.078	-0.119	-0.807	-0.530	0.579	-0.859
TI	-0.504	-0.702	-0.245	-0.085	0.833	0.332	-0.392	0.952
V	-0.567	-0.741	-0.196	-0.023	0.856	0.393	-0.425	0.960
ZN	-0.396	-0.543	-0.263	-0.166	0.716	0.236	-0.244	0.868

	K	MG	MN	MO	NA	NI	P	SR
K	1.000							
MG	-0.468	1.000						
MN	-0.676	0.148	1.000					
MO	0.442	-0.172	-0.383	1.000				
NA	0.814	0.040	-0.654	0.369	1.000			
NI	-0.721	0.811	0.432	-0.217	-0.383	1.000		
P	0.953	-0.438	-0.601	0.382	0.782	-0.686	1.000	
SR	0.872	-0.107	-0.700	0.390	0.927	-0.508	0.841	1.000
TI	-0.654	-0.106	0.841	-0.283	-0.774	0.302	-0.646	-0.836
V	-0.703	-0.038	0.883	-0.323	-0.788	0.360	-0.663	-0.842
ZN	-0.487	-0.172	0.812	-0.282	-0.636	0.190	-0.444	-0.647

	TI	V	ZN
TI	1.000		
V	0.985	1.000	
ZN	0.893	0.904	1.000

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Table 4-4 Correlation Coefficients of Assay Values (-60 mesh Stream Sediments)

Stream sediments(-60mesh)

	AU	AS	HG	F	TL	BR	S	AL
AU	1.000							
AS	0.711	1.000						
HG	0.576	0.854	1.000					
FF	0.527	0.803	0.727	1.000				
TL	0.671	0.756	0.585	0.609	1.000			
BR	0.392	0.552	0.650	0.696	0.557	1.000		
S	0.172	0.185	0.026	-0.108	0.089	-0.424	1.000	
AL	0.428	0.662	0.713	0.797	0.528	0.842	-0.452	1.000
BA	0.572	0.770	0.777	0.851	0.643	0.798	-0.267	0.950
CA	0.059	0.158	0.244	-0.045	-0.221	-0.156	0.372	-0.081
CO	-0.489	-0.661	-0.649	-0.817	-0.668	-0.817	0.280	-0.821
CR	-0.337	-0.468	-0.389	-0.715	-0.572	-0.685	0.376	-0.721
CU	0.442	0.690	0.714	0.753	0.527	0.777	-0.436	0.916
FE	-0.486	-0.762	-0.787	-0.830	-0.608	-0.824	0.225	-0.885
K	0.554	0.757	0.789	0.817	0.601	0.807	-0.308	0.960
MG	0.007	0.133	0.172	-0.115	-0.245	-0.274	0.479	-0.192
MN	-0.418	-0.562	-0.621	-0.691	-0.542	-0.762	0.433	-0.798
NA	0.536	0.771	0.753	0.782	0.502	0.642	-0.145	0.884
NI	-0.301	-0.420	-0.278	-0.610	-0.504	-0.534	0.177	-0.523
P	0.594	0.789	0.765	0.832	0.580	0.751	-0.213	0.908
SR	0.572	0.810	0.805	0.847	0.597	0.726	-0.112	0.890
TI	-0.579	-0.816	-0.817	-0.830	-0.669	-0.777	0.131	-0.826
V	-0.554	-0.786	-0.795	-0.830	-0.675	-0.806	0.188	-0.858
ZN	-0.490	-0.727	-0.764	-0.758	-0.595	-0.773	0.179	-0.825

	BA	CA	CO	CR	CU	FE	K	MG
BA	1.000							
CA	-0.017	1.000						
CO	-0.869	0.274	1.000					
CR	-0.710	0.615	0.885	1.000				
CU	0.866	-0.169	-0.734	-0.687	1.000			
FE	-0.915	-0.123	0.865	0.630	-0.765	1.000		
K	0.987	0.001	-0.843	-0.687	0.890	-0.898	1.000	
MG	-0.127	0.967	0.376	0.676	-0.231	-0.017	-0.107	1.000
MN	-0.815	0.081	0.873	0.672	-0.671	0.883	-0.797	0.207
NA	0.911	0.261	-0.686	-0.486	0.765	-0.876	0.917	0.168
NI	-0.550	0.648	0.761	0.916	-0.569	0.435	-0.530	0.657
P	0.953	0.000	-0.809	-0.683	0.874	-0.849	0.957	-0.104
SR	0.963	0.178	-0.817	-0.599	0.785	-0.924	0.950	0.072
TI	-0.900	-0.115	0.881	0.636	-0.729	0.968	-0.875	-0.015
V	-0.909	-0.063	0.901	0.675	-0.742	0.977	-0.887	0.041
ZN	-0.868	-0.175	0.837	0.572	-0.674	0.969	-0.851	-0.067

	MN	NA	NI	P	SR	TI	V	ZN
MN	1.000							
NA	-0.699	1.000						
NI	0.428	-0.320	1.000					
P	-0.703	0.887	-0.585	1.000				
SR	-0.765	0.948	-0.466	0.935	1.000			
TI	0.885	-0.828	0.462	-0.848	-0.910	1.000		

	MN	NA	NI	P	SR	TI	V	ZN
V	0.910	-0.834	0.475	-0.839	-0.904	0.991	1.000	
ZN	0.906	-0.830	0.347	-0.788	-0.880	0.975	0.980	1.000

(53)

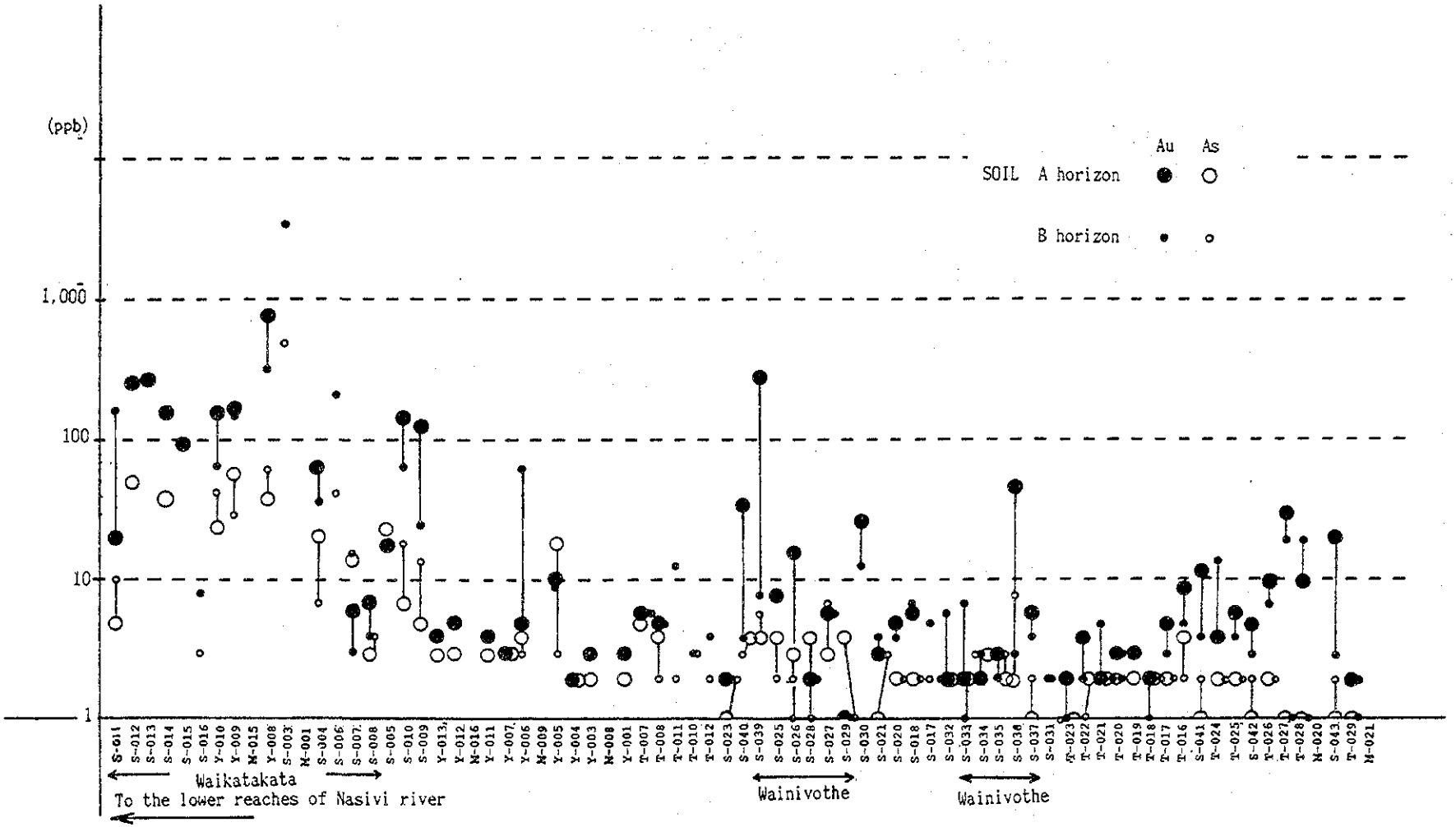


Fig. 4-3 Au, As Contents in Soil along the Nasivi River

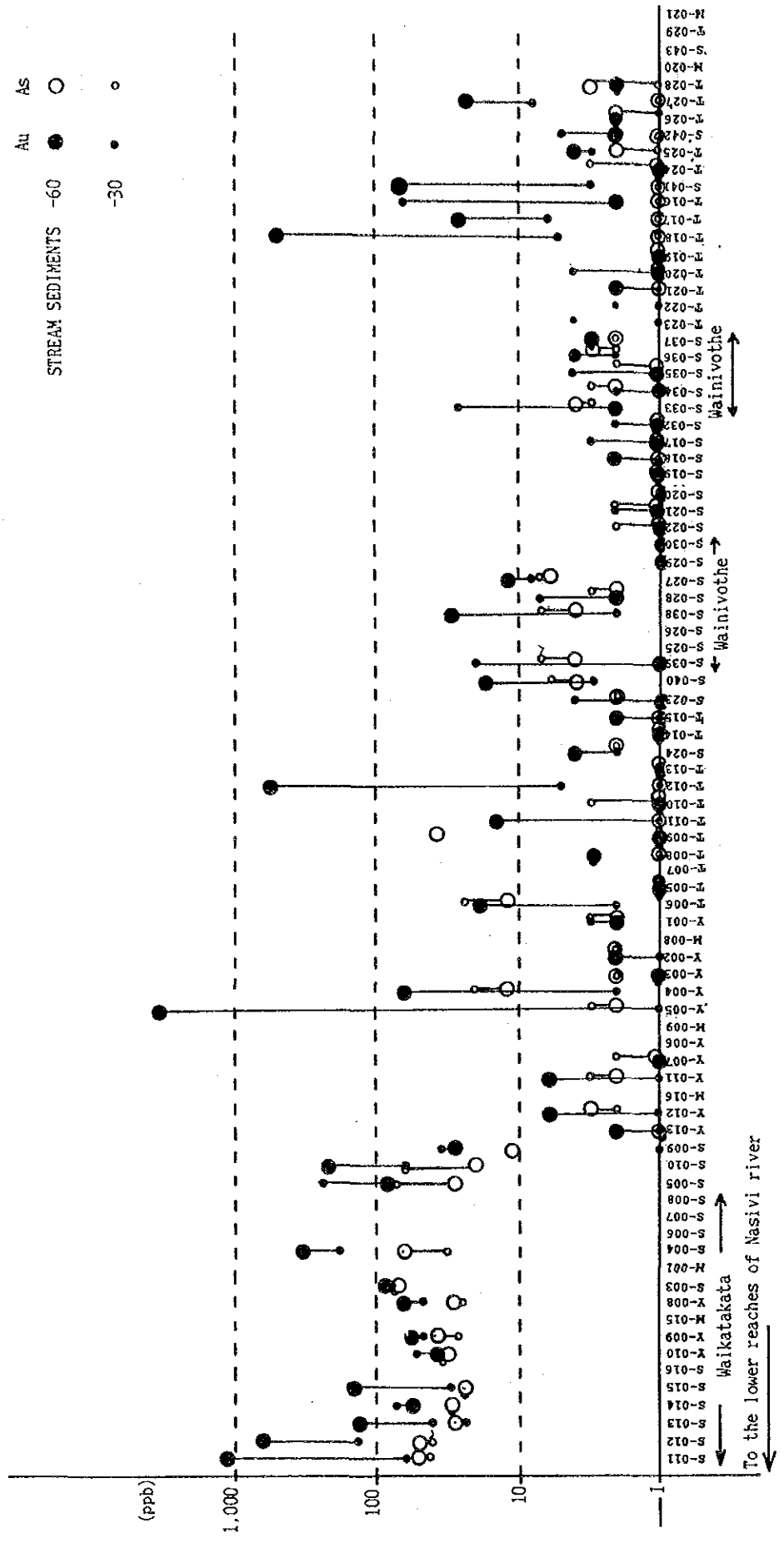


Fig. 4-4 Au, As Contents in Stream Sediments along the Nasivi River

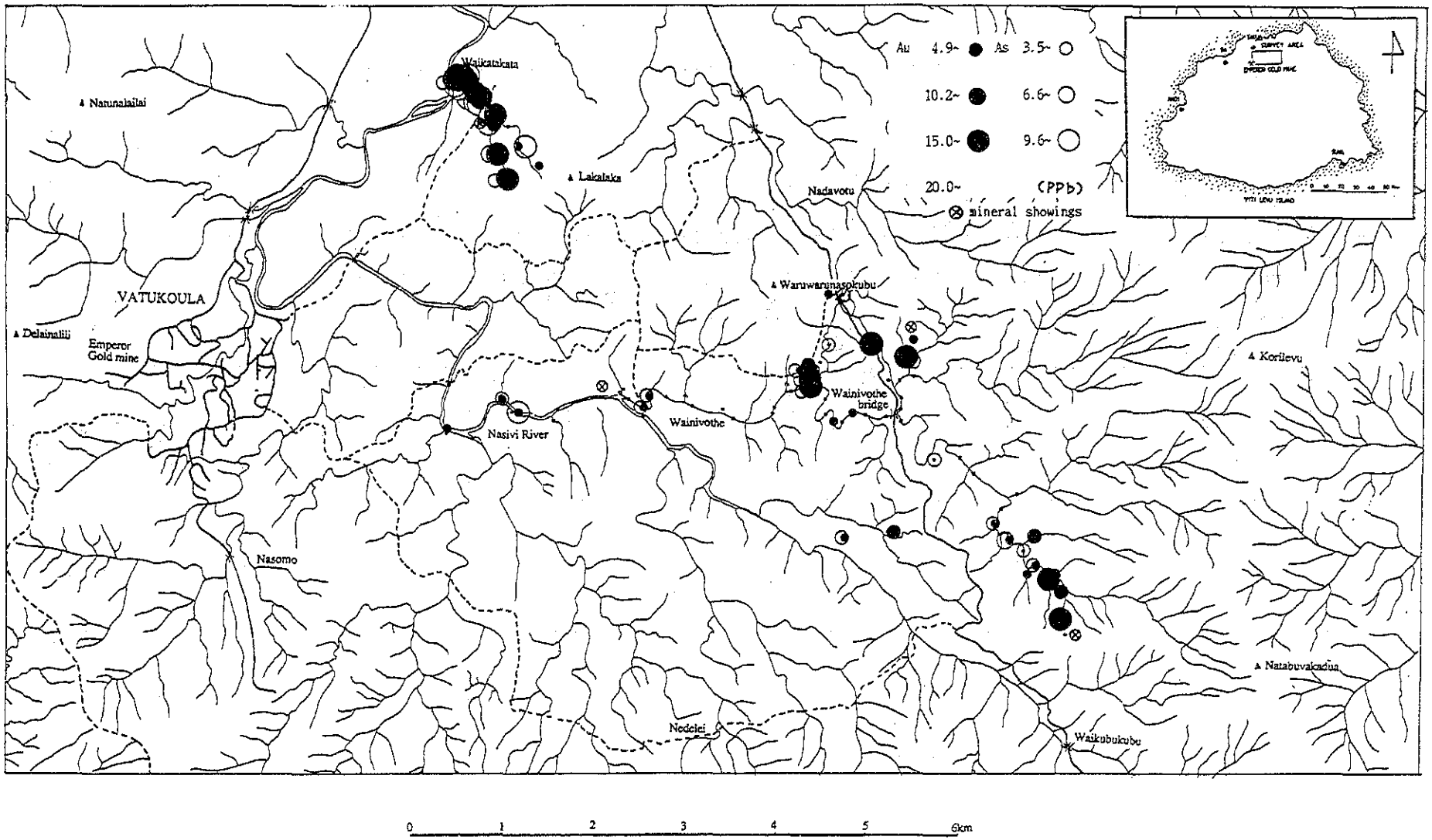


Fig. 4-5 Distribution of Au and As Contents in Soil (A horizon)

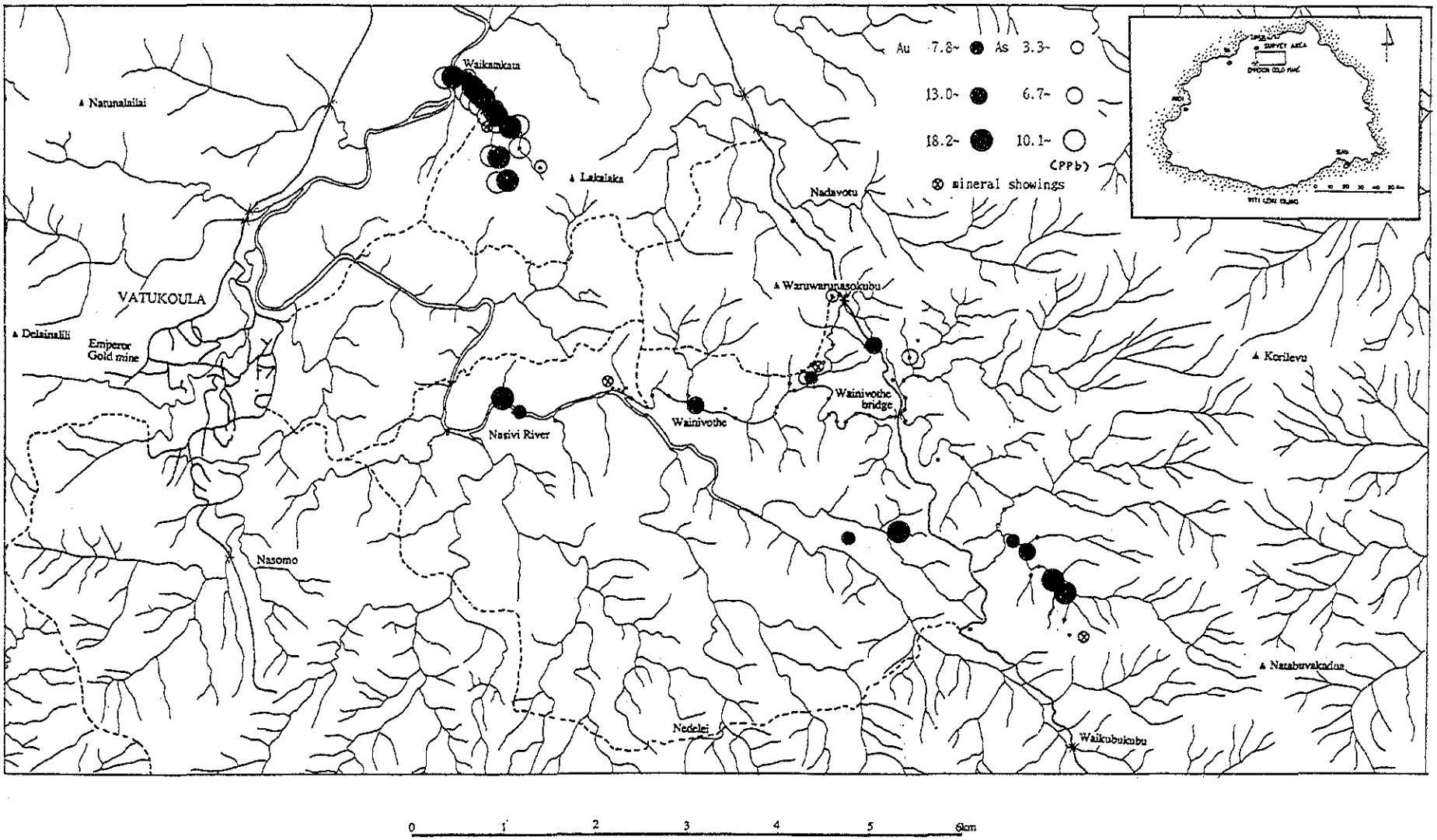


Fig. 4-6 Distribution of Au and As Contents in Soil (B horizon)

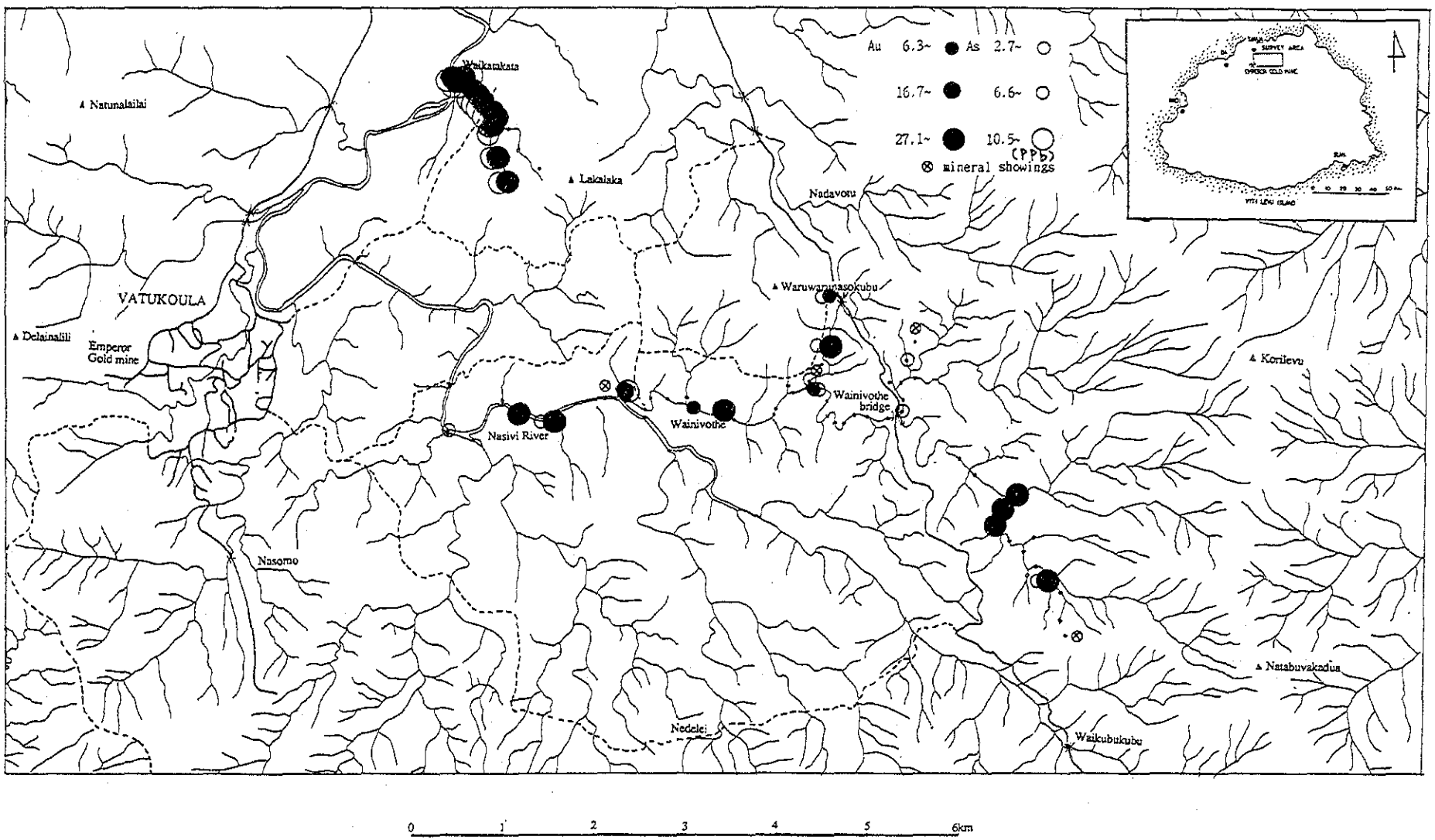


Fig. 4-7 Distribution of Au and As Contents in Stream Sediments (- 60 mesh)

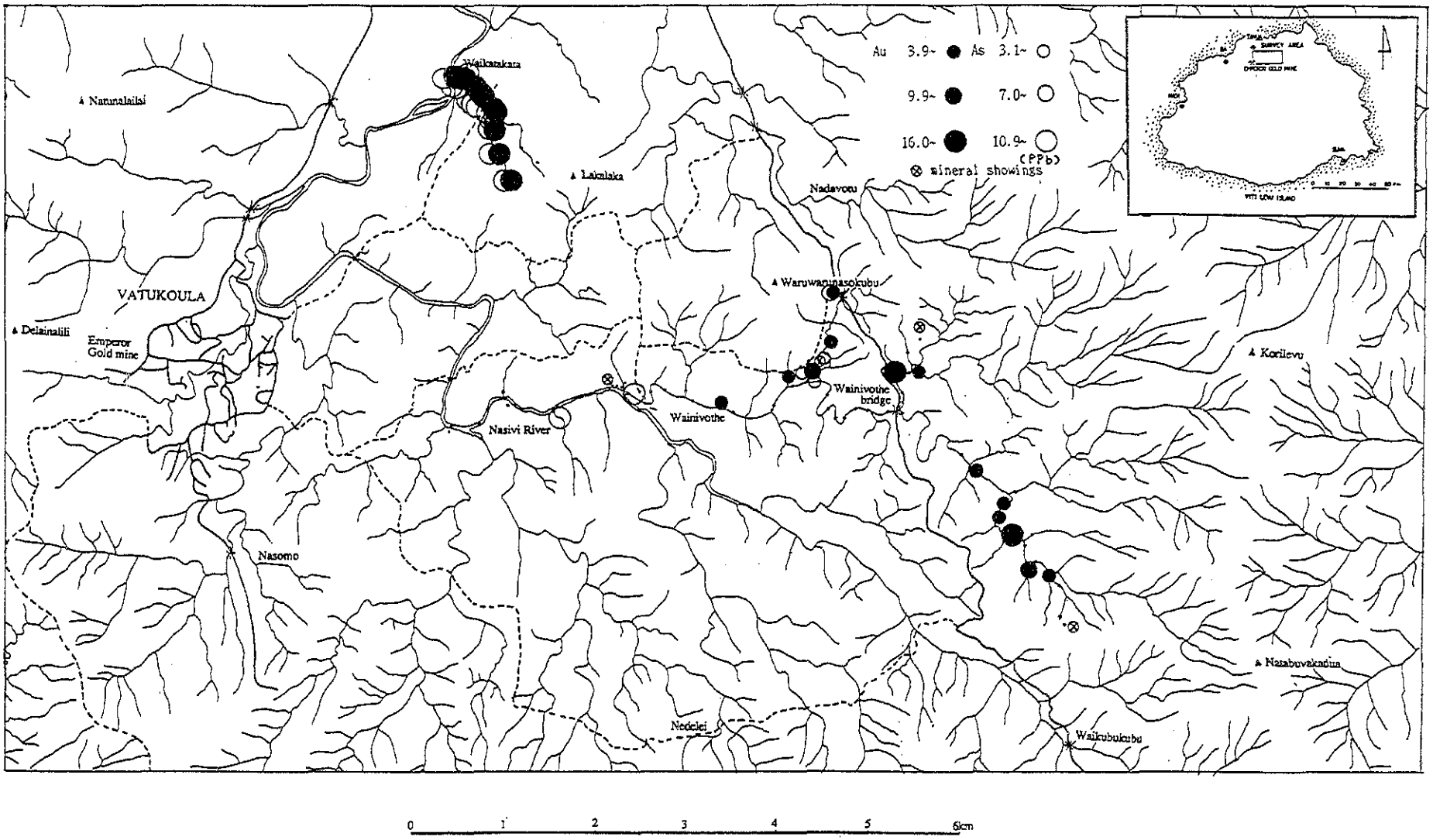
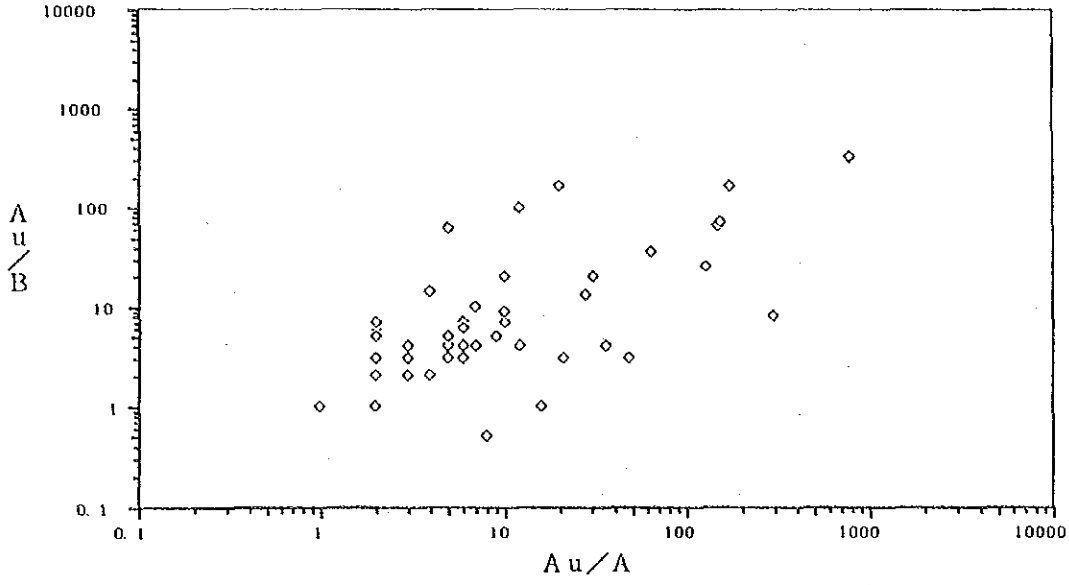
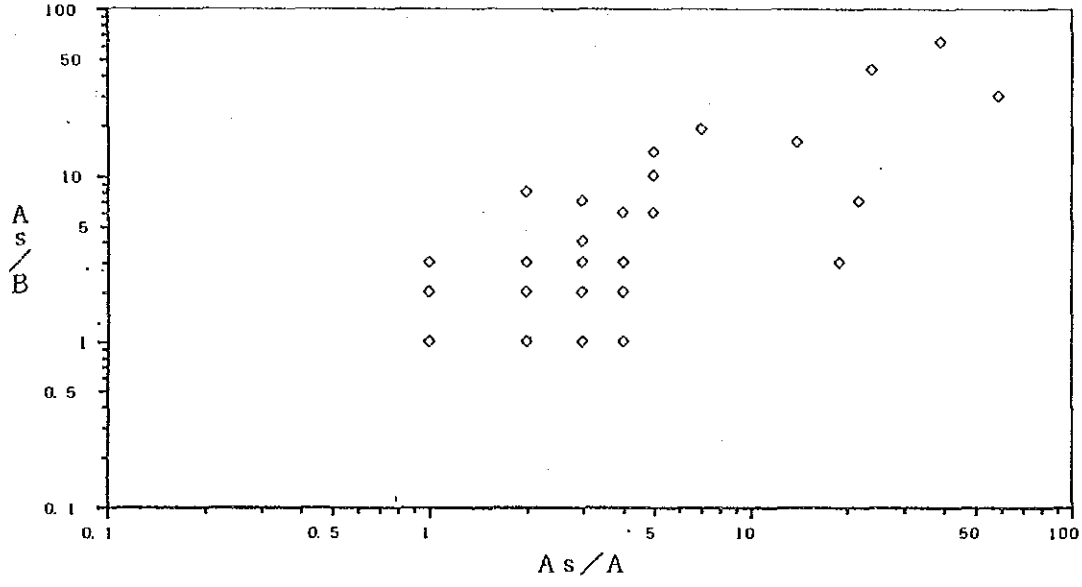


Fig. 4-8 Distribution of Au and As Contents in Stream Sediments (- 30 mesh)





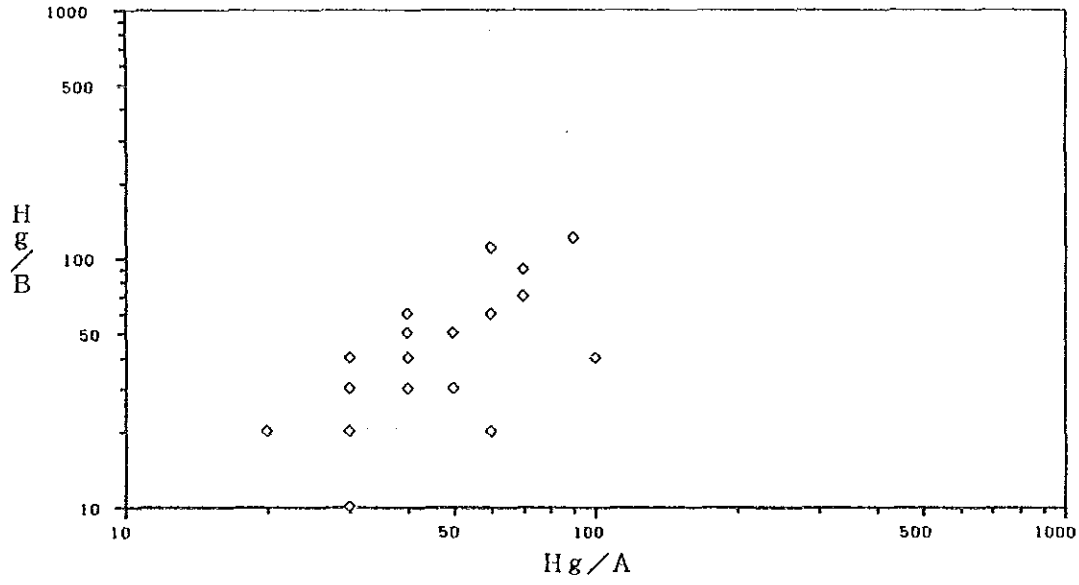
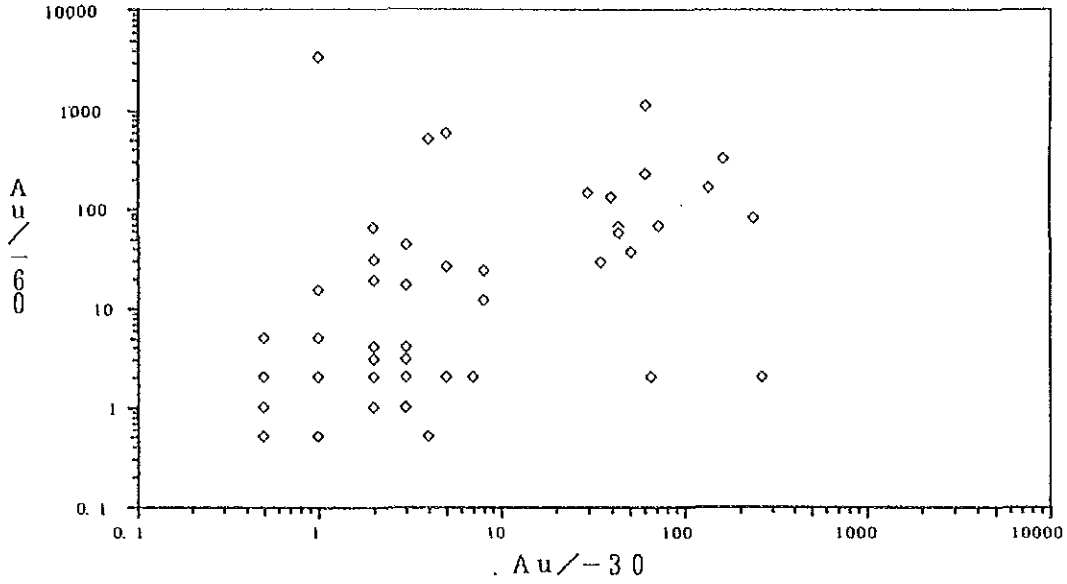
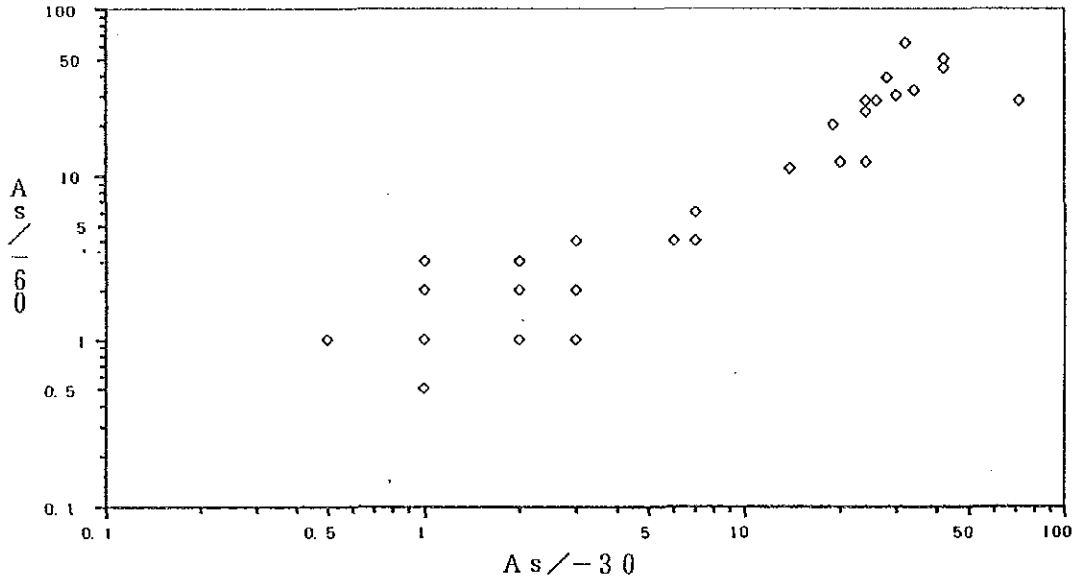


Fig. 4-9-1 Correlation of Assay Values of Soil A and B horizon





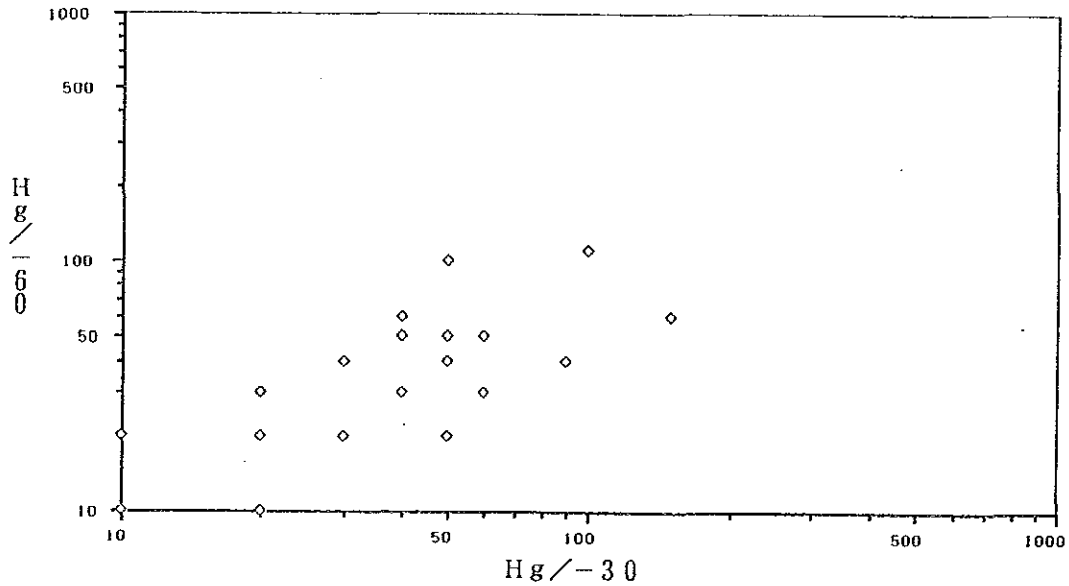


Fig. 4-9-2 Correlation of Assay Values of - 60 and - 30 mesh Stream Sediments

REFERENCES

REFERENCES

Ahmad M.,Solomon M.and Walshe J.L.(1987): Mineralogical and studies of the Emperor gold telluride deposit,Fiji: Econ. Geol., V.82, p.345-370.

Anderson W.B.and Eaten P.(1989): Gold mineralisation at the Emperor Mine, Vatukoula, Fiji: Journal of Geochemical Exploration, 36(1990), p.267-296.

Baltis E.J.and Levy I.W.(1985): The 1985 gravity survey of the Tavua Basin caldera contact: T.B.J.V. Technical Report, No.10.

Band R.B.,B.Sc.,A.R.S.M(1968): The Geology of Southern Viti Levu and Mbengga: Ministry of Natural Resoures, Department of Geological Surveys.

Colley H.(1976): Mineral Deposits of Fiji (metallic deposits): Mem. Miner. Resour. Div. Fiji, Legts. Counc. Pap. 1910(19).

Colley H.and Greenbaum D.(1980): The Mineral Deposits and Metallogenesis of the Fiji Platform: MRD, Econ. Geol., V.75, p.807-829.

Colley H.(1986): Epithermal Gold Mineralization associated with Mio-Pliocene Volcanism in Fiji: International Geological Congress, 1986, Proceedings of Symposium 5, p.29-35.

Drake R.E.,Kollman E.,Whelan P.M. and Gill J.B.(1985): Radiometric Dating of Magmatic Stages in Fiji: Economic Geology, p.415-440.

Gill J.B.and Stork A.L.(1979): Miocene Low-K Dacites and trondhjemites of Fiji: Trondhjemites, Dacites, and Related Rock (ed F.Barker), Elsevier, p.629-650.

Gill J.B.(1987): Early Geochemical Evolution of an Oceanic Island Arc and Backarc, Fiji and the South Fiji Basin. Journal of Geology, Vol.95, p.589-615.

Gill J.and Whelan P.(1989): Early Rifting of an Oceanic Island Arc (Fiji) Produced Shoshonitic to Tholeiitic Basalts: Journal of Geophysical Research, Vol.94, No.B4, p.4561-4578.

Gill J.and Whelan P.(1989): Postsubduction Ocean Island Alkali Basalts in Fiji: Journal of Geophysical Research, Vol.94, No.B4, p.4579-4588

Gill J.B.: Sr-Pb-Nd Isotopic Evidence that Both MORB and OIB Sources Contribute to oceanic island arc magmas in Fiji.

Hirst J.A.(1965): Geology of east and north-east Viti Levu: Bull. Geol. Surv. Fiji, 12.

Ibbotson P.,B.Sc.,Ph.D.,A.R.C.S.,F.G.S.(1967): Petrology of the Tertiary Caldera, Tavua Goldfield: Geological Survey Department.

Ishihara S. and Urabe T.(1989): Gold mineralization of immature island arcs, Fiji: Chishitsu News, No.415, p.18-31. (in Japanese).

Jezek P.(1976): Gravity base stations in indonesia and in the southwest pacific: Technical Report, Woods Hole Oceanographic Institution.

Koide H.(1982): Analysis of mechanism of diapir formation and tectonics: Gekkan Chikyu, 4, p.15-22.(in Japanese).

Kouda R. and Suwijanto (1989): Volcanic collapse structure and gold-silver exploration—discovery: Chishitsu News, No.423, p.13-26. (in Japanese).

Kwak T.A.P.(1989): Geochemical and temperature controls on ore mineralization at the Emperor gold mine, Vatukoula, Fiji: Journal of Geochemical Exploration, 36(1990), p.297-337.

La Porte M.(1962): Elabolation rapide de cartes gravimetriques deduites del' anomalie de Bouguer a l'aide d'une calculatrice electronique: Geophys. Prosp., Vol.10, p.238-257.

Lawrence J.L. and Savage E.N.(1976): Ore Genesis in the Wainivesi Area, Fiji, and some Exploration Implications. p.59-68.

Mallick D.I.J.and Habgood F.(1987): Interpretation of SLAR imagery of the main islands in Fiji: British Geological Survey, p.1-9.

Okuda Y.(1989): Geology of Fiji: Chishitsu News, No.415, p.6-17. (in Japanese).

Rodda P.and Duberal,R.(1966): Specific gravity of Viti Levu rocks. G.S. Note:23/66, Geological Survey Department.

Rodda P.(1967): Radiometric Age Data on Rocks from Viti Levu, Fiji: Geological Survey of Fiji, p.1249-1259.

Rodda P. B.Sc.(1969): Analysis of Rocks from Fiji: Ministry of Natural Resoures, Department of Geological Surveys.

Rodda P.(1976): Geology of northern and central Viti Levu: Bull. Miner. Resour. Div. Fiji, 3.

Rodda P.(1989): Geology of Fiji: MRD.

Rugless C.S.(1983): Lithogeochemistry of Wainaleka Cu-Zn Volcanogenic Deposit Viti Levu, Fiji, and Possible Applications for Exploration in Tropical Terrains: Journal of Geochemical Exploration, p.563-586.

Setterfield T.N.(1990): The Tavua Caldera, Fiji: A Complex Shosonitic Caldera formed by concurrent faulting and downsagging: p.1-43.

Stephen T.(1986): Fluid Inclusion, Alteration and Ore Mineral Studies of an Epithermal Vein System, Mount Kasi, Vanua Levu, Fiji: International Geological Congress, 1986, Proceedings of Symposium 5, p.87-94.

Talwani M.,Worzel J.L.and Landisman M.(1959): Rapid gravity computations for two dimensional bodies with application to the Mendocino Submarine fracture zones: Jour. Geophys. Res., Vol.64, p.49-59.

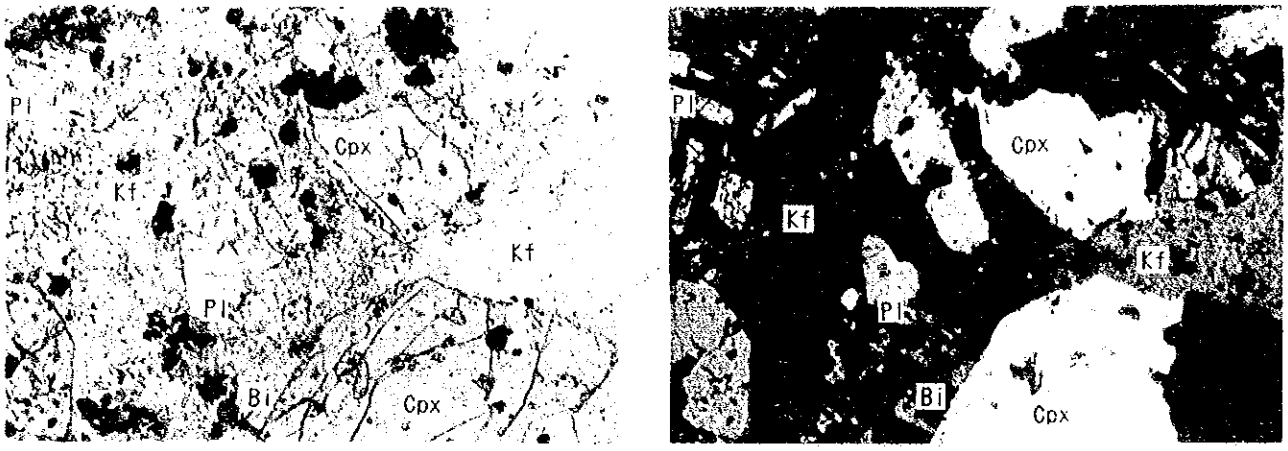
The Geodetic Society of Japan (1989): Accurate positioning by GPS-satellite system: Japanese Association of Surveyors

Thomas G.and Jones D.G.(1989): South Pacific Deposits: The Geology Department & University Extension, The University of Western Australia Publication, No.17, p.1-32.

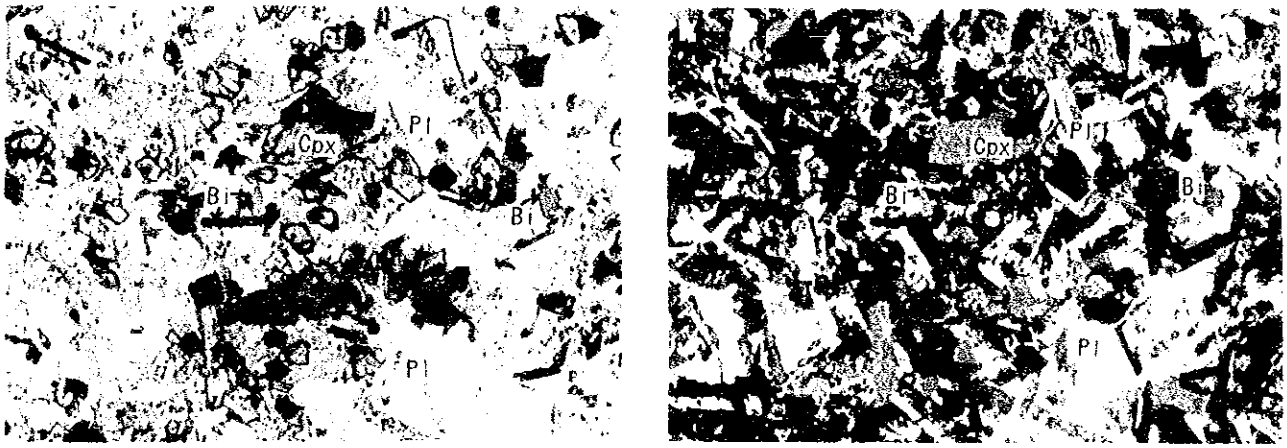
Yokoyama I.(1963): Structure of caldera and gravity anomaly: Bull. Volcanol., 26, p.67-72.

PHOTOGRAPHS

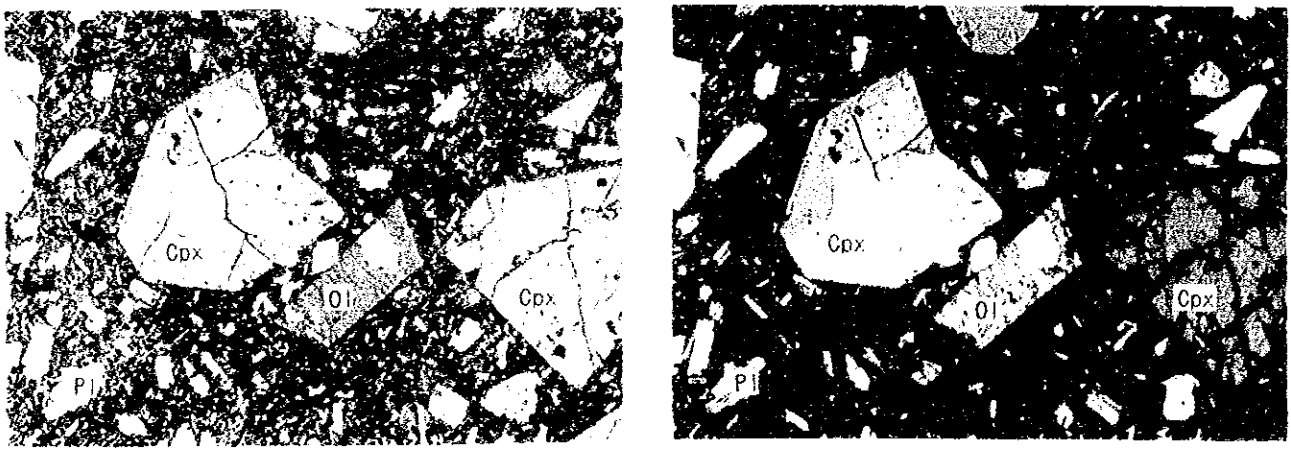
AA-91 Monzonite (East of Vatukoula)



C-2 Microdiorite (West of Nanukula)



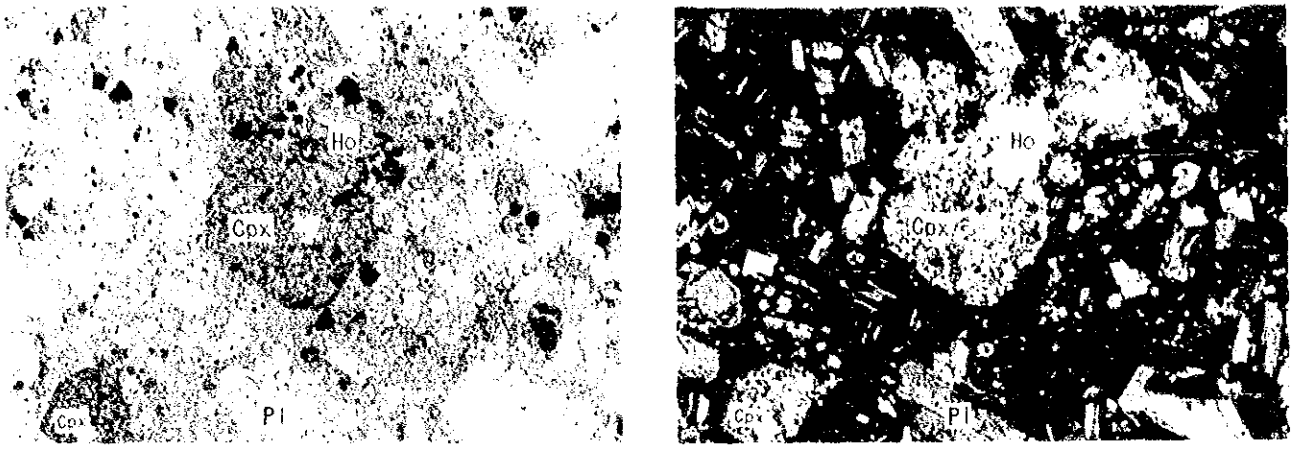
C-38 Olivine basalt (South-east of Vatukoula)



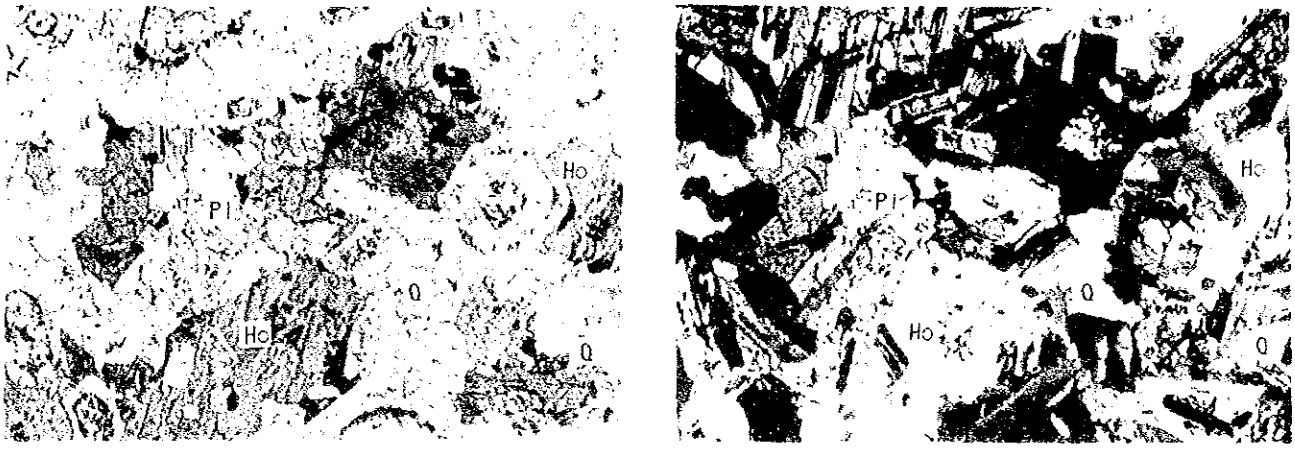
Open nicols Clossed nicols

Photo. 1 Microscopic photograph (Thin Section)

MA 52 Hornblende andesite (South of Mba)



WA-130 Hornblende diorite (North of Korovou)



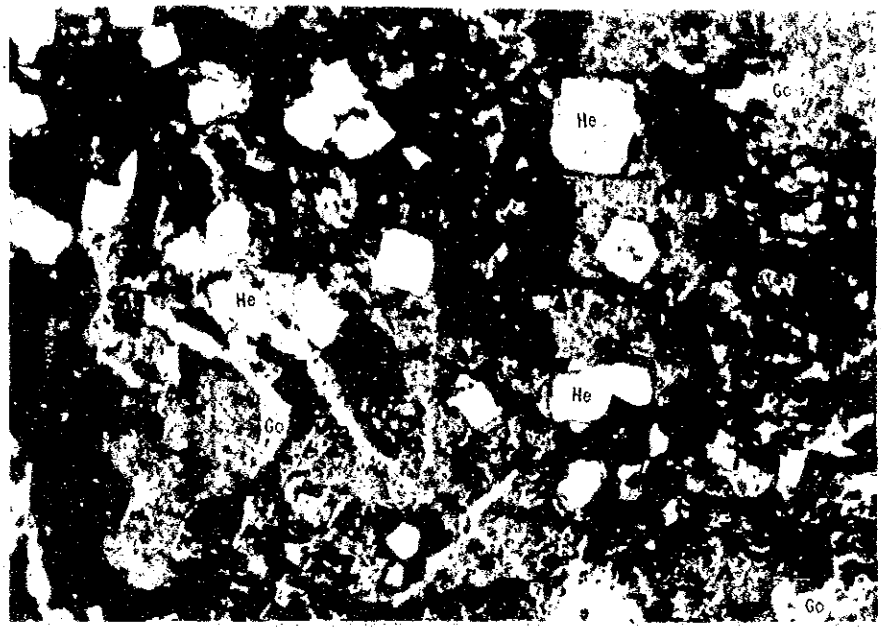
Open nicols Clossed nicols

LEGEND

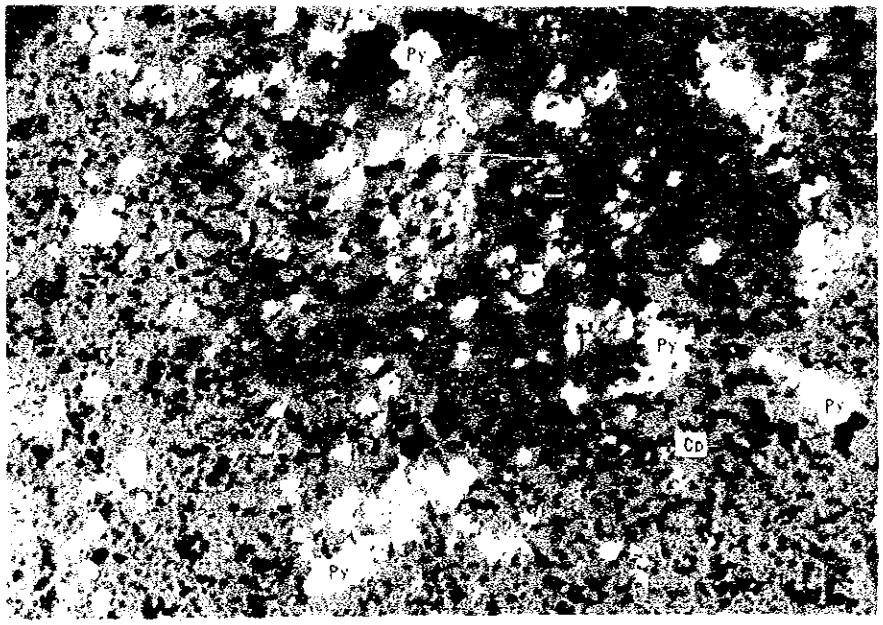
Q : Quartz. Pl: Plagioclase. Kf: Potassium feldspar.
Ho: Hornblende. Bi: Biotite. Ol: olivin. Cpx: Clinopyroxene.
Aug: Augite

Photo. 2 Microscopic photograph (Thin Section)

CA-115 (Rakiraki)



C-36 (Balevuto)



LEGEND

Go: Goethite. Py: Pyrite. He: Hematite. Ba: Barite. Cp: Chalcopyrite

Sp: Sphalerite

Photo. 3 Microscopic photograph (Polished Section)