DANMARKS OG GRØNLANDS GEOLOGISKE UNDERSØGELSE RAPPORT 1997/88

Ujarassiorit 1996

Public minerals hunt programme in Greenland

Peter Erfurt, Government of Greenland, Minerals Office, and
Tapani Tukiainen, Geological Survey of Denmark and Greenland

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MINISTRY OF ENVIRONMENT AND ENERGY

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Contents

Introduction

The Ujarassiorit public mineral hunt programme, funded by the Government of Greenland, is in its 9th consecutive year of operation. In 1996, 938 samples from all parts of Greenland, except very remote areas, were received. Of these samples more than a third were found sufficiently interesting to justify geochemical analysis.

This report presents the main results and analyses, and is the product of cooperation between the Government of Greenland's Minerals Office (MO), which manages Ujarassiorit, and the Geological Survey of Denmark and Greenland (GEUS), which prepared the maps and releases the report.

The Ujarassiorit Programme

Ujarassiorit ("go and look for rocks") is designed as a competition, encouraging people throughout Greenland to look for economically interesting minerals. The idea for this programme came from equivalent programmes in Scandinavia. The aim of the Ujarassiorit is to draw on the local population's knowledge of the land in the search for mineral deposits.

The legal basis for Ujarassiorit is **Article 32** in the **Mineral Resources Act for Greenland**, which states that (unofficial translation):

"The resident population of Greenland may as hitherto collect and extract mineral resources without it requiring a license under this Act. **Subsection 2.** The right to collect and extract mineral resources, maintained pursuant to subsection 1 can, however, only be exercised with due respect to exclusive licenses for exploitation of mineral resources granted to others pursuant to this Act."

It should be noted that some of the submitted samples may originate from localities already covered by exclusive exploration licenses. Senders of samples to Ujarassiorit obtain no title or land claims whatsoever under the Mineral Resources Act for Greenland.

Anyone living permanently in the country can send in rock samples to the Minerals Office. Geologists determine the type and mineral composition of the samples and decide which are sent to geochemical analysis. All participants (senders) receive a description of their sample, including whether it is to be analysed further. The results of all analysed samples are communicated to their senders.

From its start in 1989 and until 1995 the practical aspects of Ujarassiorit have been carried out by Nunaoil A/S, which is a mineral exploration company owned jointly by the Governments of Greenland and Denmark. However, from 1996 the whole programme has been taken over by the Minerals Office.

The work includes a variety of tasks such as the dispatch of packaging material and brochures to all post offices in Greenland, examination of the samples and dispatch to a commercial analytical laboratory in Canada, geological evaluation of the analytical results, communicating with the sample collectors and maintaining the results database (Appendices 1 to 4).

During the 8 years of operation 8350 samples have been received, an average of c. 1000 samples per year. Only a small number of the samples received can be concluded to come from known mineral occurrences such as Ivittuut and Maarmorilik.

It should be noted however, that pieces of ore from these former mines are spread around most towns in West Greenland; this creates a serious problem for establish-

ing the provenance of certain types of samples with high Pb-Zn grades, particularly when the samples are relatively small. Such samples can almost always be traced back to one of the former mines or their immediate surroundings.

Over the years, there has been a clear tendency for the local population to become better at recognizing mineralisations. This is shown by the fact that the proportion of mineralised samples received has increased steadily, from about 10 % in the first year to well over 30 % at present. In order to maintain interest in the programme, limited publicity campaigns such as short TV and radio spots and newspaper advertisements have been run from time to time.

An important aspect of the programme is the follow-up field work carried out in July and August. Usually some of the samples received are sufficiently interesting to warrant closer in situ examination. This is done by a team consisting of a geologist from MO, a number of locally trained prospectors and if possible also a geology student.

Where reasonable from a geological point of view, MO concentrates this follow-up field work in areas not yet thoroughly explored, in an attempt to open up these areas to the mineral industry. The resulting data from the follow-up work will be published separately. In the case of a company acquiring an exclusive exploration license covering the area in question before publication, the data will be handed over to the company as soon as practical.

Each year a committee judges the analysed samples and awards prizes to the senders of the most interesting samples with respect to new mineralisation and general economic geology. At present the total prize money each year is DKK 75,000, to be split among the winners. The tax on the prize money is paid by MO so that the total real value of the prizes is about DKK 125,000 (approx. US$ 20,0000).

During its lifetime Ujarassiorit has been in contact with a large segment of the Greenlandic population. The programme has fostered considerable interest in rocks and minerals within the community, as well as communicating the need of mining industry in Greenland.

Analysis of 1996 samples

Most samples were examined using standard geologist's hand tools and Zeiss Stemi 2000 C stereo microscope. As a result of the initial examination, 364 samples were selected for geochemical analysis (37.7 % of the total number submitted). These either contained ore minerals (mainly sulphides or oxides) and/or showed signs of alteration, or appeared to originate from promising geological environments for the formation of mineral deposits.

One interesting sample (5096) of basalt containing native copper, sent from the town of Upernavik in northern West Greenland, was not submitted to geochemical analysis because of its very small size. That it contained copper was confirmed by examination under reflected light of a polished section of the sample.

All samples to be analysed were shipped whole in individual sample bags to Activation Laboratories Ltd. of Ontario, Canada, where they were prepared and analysed for Au and 47 other elements by a combination of instrumental neutron activation analysis (INAA) and inductively coupled plasma spectrography (ICP). The analytical detection limits are given in table 1.

Table 1. Analytical detection limits (Activation Ltd.)

INAA

Au 5 ppb	As 2 ppm	Br 1 ppm	Co 1 ppm
Cr 1 ppm	Cs 0.5 ppm	Hf 0.5 ppm	Hg 1 ppm
Ir 5 ppb	Mo 5 ppm	Rb 20 ppm	Sb 0.2 ppm
Sc 0.1 ppm	Se 3 ppm	Ta 1 ppm	Th 0.5 ppm
U 0.5 ppm	W 3 ppm	La 0.5 ppm	Ce 3 ppm
Nd 5 ppm	Sm 0.1 ppm	Eu 0.1 ppm	Tb 0.5 ppm
Yb 0.1 ppm	Lu 0.05 ppm		

Major Elemets: fusion – ICP

SiO2 0.01 %	Na2O 0.01 %	Y 1 ppm
Al2O3 0.01 %	K2O 0.01 %	Zr 1 ppm
Fe2O3 0.01 %	TiO2 0.01 %	Be 2 ppm
MnO 0.01 %	P2O5 0.01 %	V 1 ppm
MgO 0.01 %	Ba 1 ppm	
CaO 0.01 % Sr	1 ppm	

Total digestion - ICP

Cu 1 ppm	Ag 0.5 ppm	Bi 5 ppm
Pb 5 ppm	Ni 1 ppm	
Zn 1 ppm	Cd 0.5 ppm	

Geo-referencing of samples

One of the conditions for prize eligibility is that the sample locality is made known to MO, and that it can be plotted on a KMS (Kort- og Matrikelstyrelsen = The National Board of Surveys and Cadastre, Copenhagen) 1:250 000 topographical map with reasonable accuracy. In 1996 this applied to most samples. A major exception was a number of samples (Appendix 1.) for which only the sender's own coordinates were known. The samples are normally submitted by prospectors, whose identities are known to the Minerals Office.

Digital geo-referencing has been attempted for all samples sent to chemical analysis. Geo-referencing were carried out by using the interactive facilities of the ArcInfo system at the Department of Economic Geology, GEUS, Copenhagen. The nature of the Ujarassiorit programme implies **that the primary accuracy of geo-referencing** is up to the sample collector's ability to pinpoint the sample on an available topographic base map.

The sample locations were converted to the decimal geographic coordinates by comparing the hard copies with the existing digital topographic data at GEUS and selecting the most probable location for each sample. The somewhat inhomogeneous cartographic quality of the available digital base maps together with the unknown accuracy and errors of the primary geo-referencing implies that the sample location data must be used with due reservations. The geographical coordinates of the geo-referenced samples are given in Appendix 1.

Results

The majority of the analysed samples (Fig. 2) stem from areas underlain by the Precambrian rocks for the simple reason that Greenlandic settlements are almost exclusively located on these types of rocks.

The analysis results in Appendices 1 to 4 demonstrate that numerous samples contain anomalous levels of one or more metals. To highlight the samples of immediate interest from the exploration point of view, the following maps have been produced:

39 samples	Au	>50 ppb Au (Fig. 3)
40 samples	Ni & Cu	Σ Ni & Cu when either Ni or Cu > 1000 ppm (Fig. 4)
9 samples[1)]	Pb & Zn	Σ Pb & Zn when either Ni and Cu > 1000 ppm (Fig. 5)
3 samples	Mo & W	Samples with Mo or W > 1000 ppm (Fig. 6)

[1)] The anomalous Pb and Zn values of the samples 06196, 21096, 32396, 36896, 43196, 44796 46396 an d 58596 are not included in Fig. 5 because the apparently stem from the former mines at Maarmorilik and Ivittuut

The prize-winning samples are listed in Table 2.

Table 2. The prize-winning samples from 1996

Sample Id	Elements of Interest	Sample Id	Elements of Interest
60696	(Cu,Zn,Au)	23496	(W,Cu[2)])
14596	(Cu,Ni)	51196	(Au,Sb)
46896	(Cu,Zn)	59196	(Au,REE)
46996	(Cu,Pb,Zn)	17496	(Mo)

[2)] The copper mineralisation is part of a known occurrence, but the tungsten potential is new information

The data listed in Appendices 1 to 4 are available in digital form as Microsoft Access, dBASE IV, or delimited text files from Minerals Office or from GEUS

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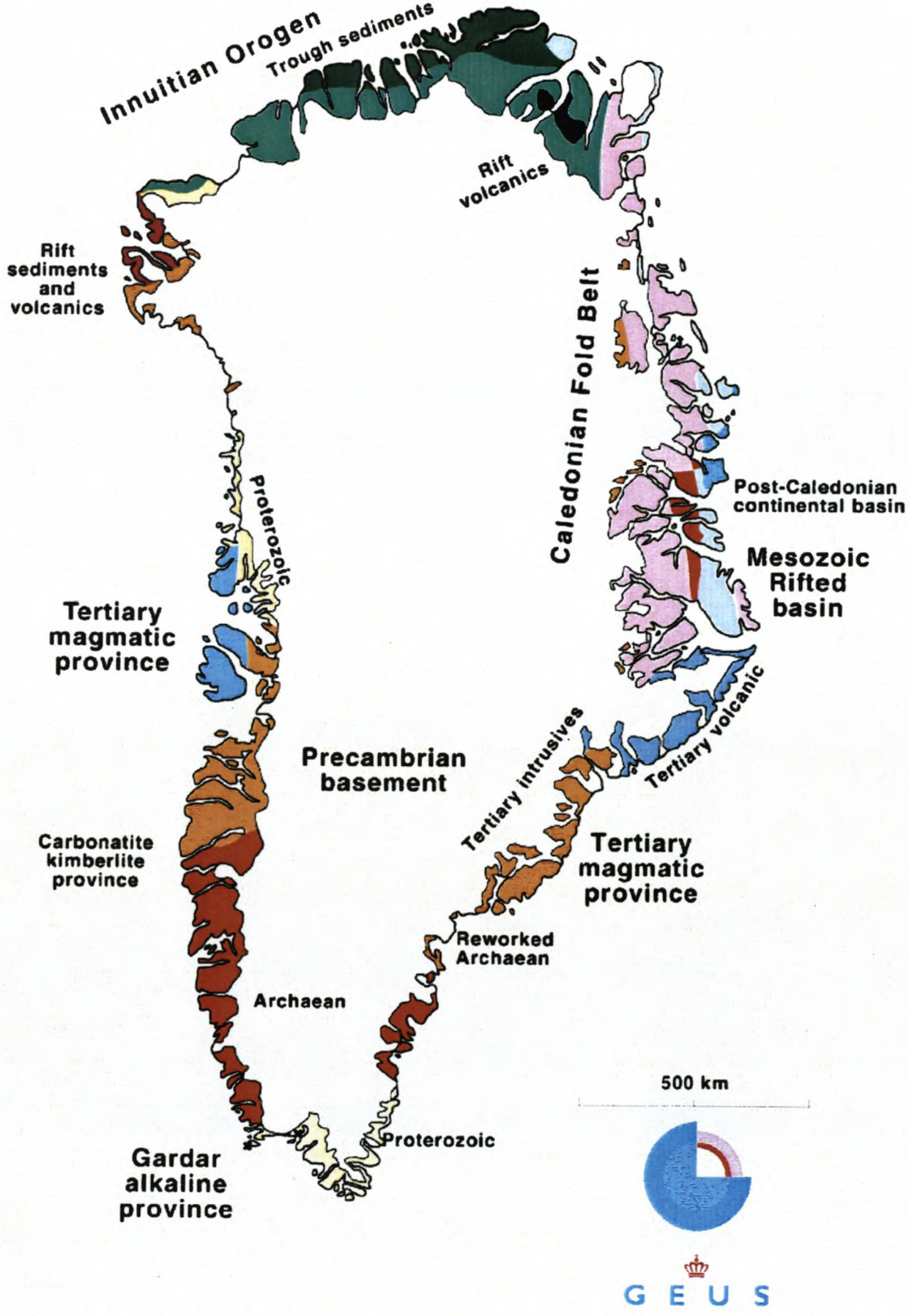

Fig.1. Simplified geological map of Greenland

G1.2 93 001

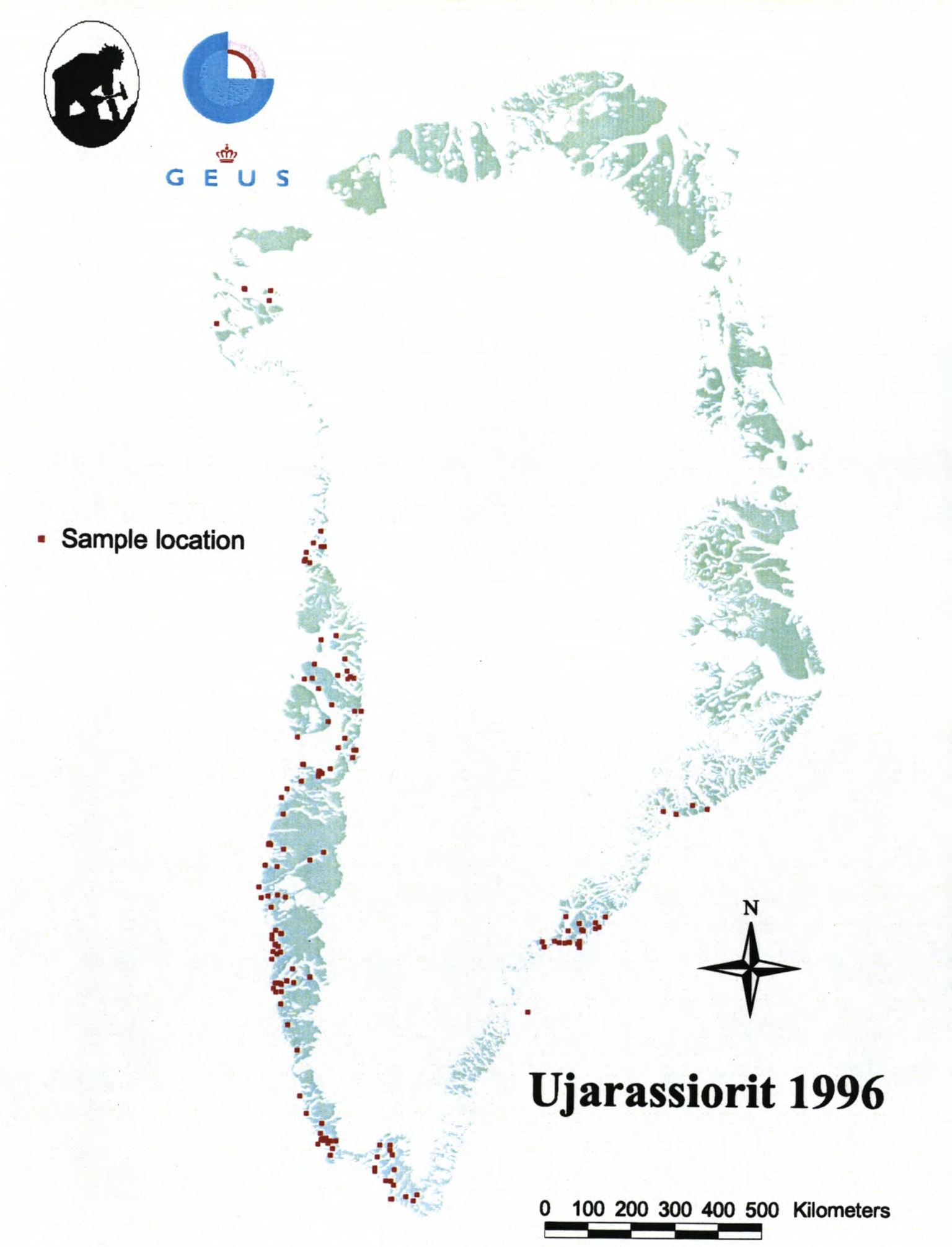

Fig.2. Sample locality map for the chemically analysed samples

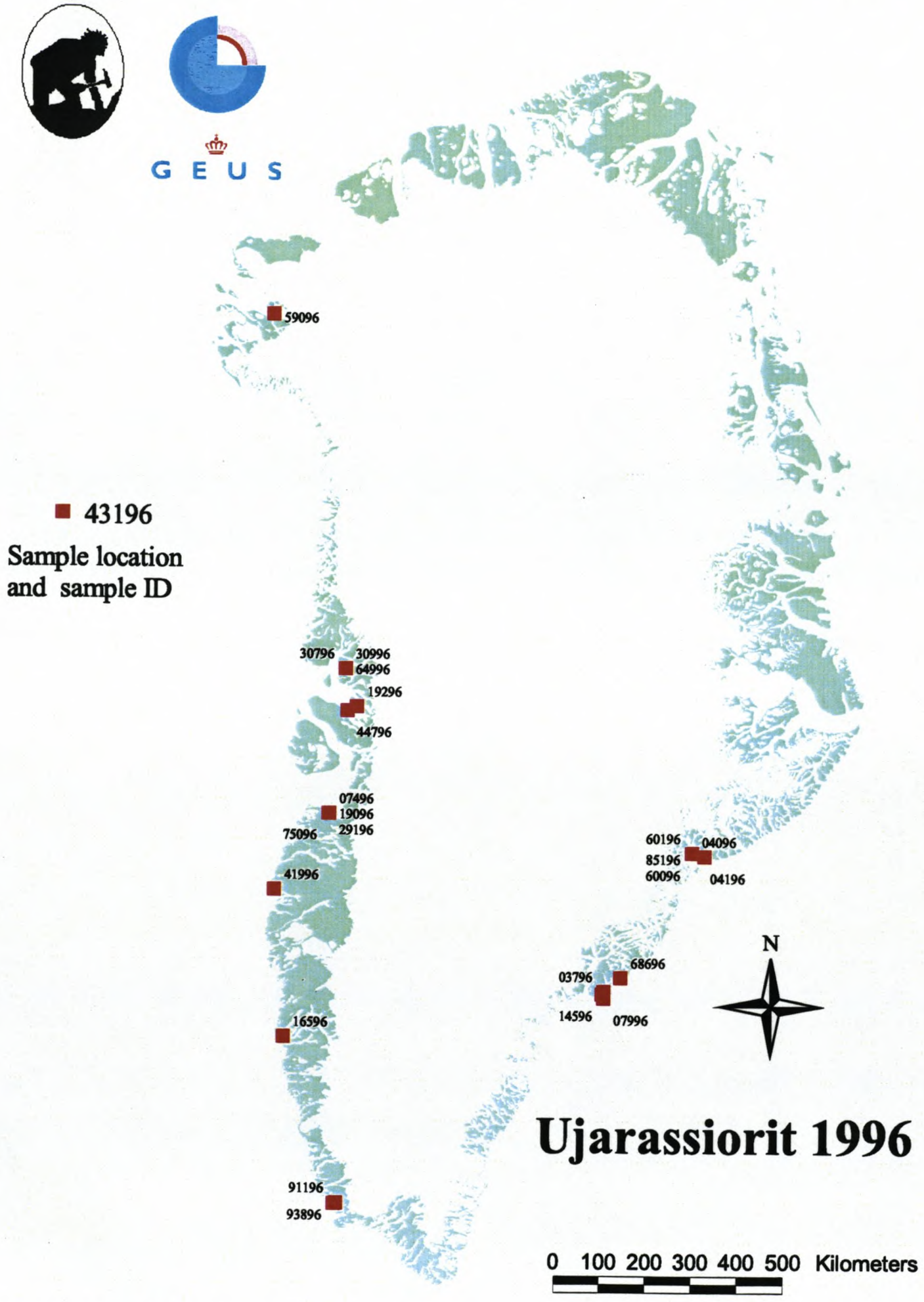

Fig. 3. Location of samples with anomalous Au-content (>50 ppb)

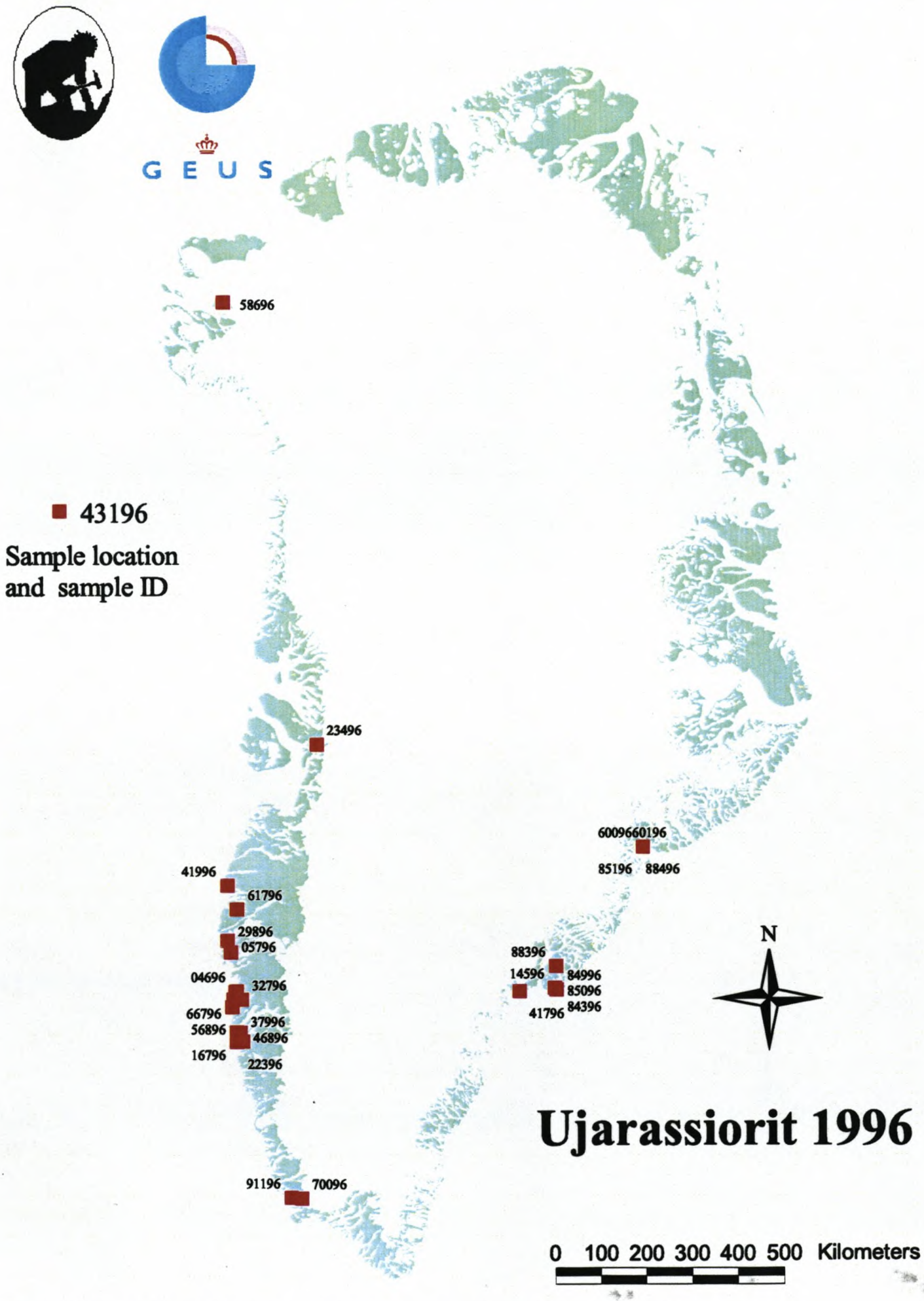

Fig.4. Location of samples with anomalous Ni and/or Cu content

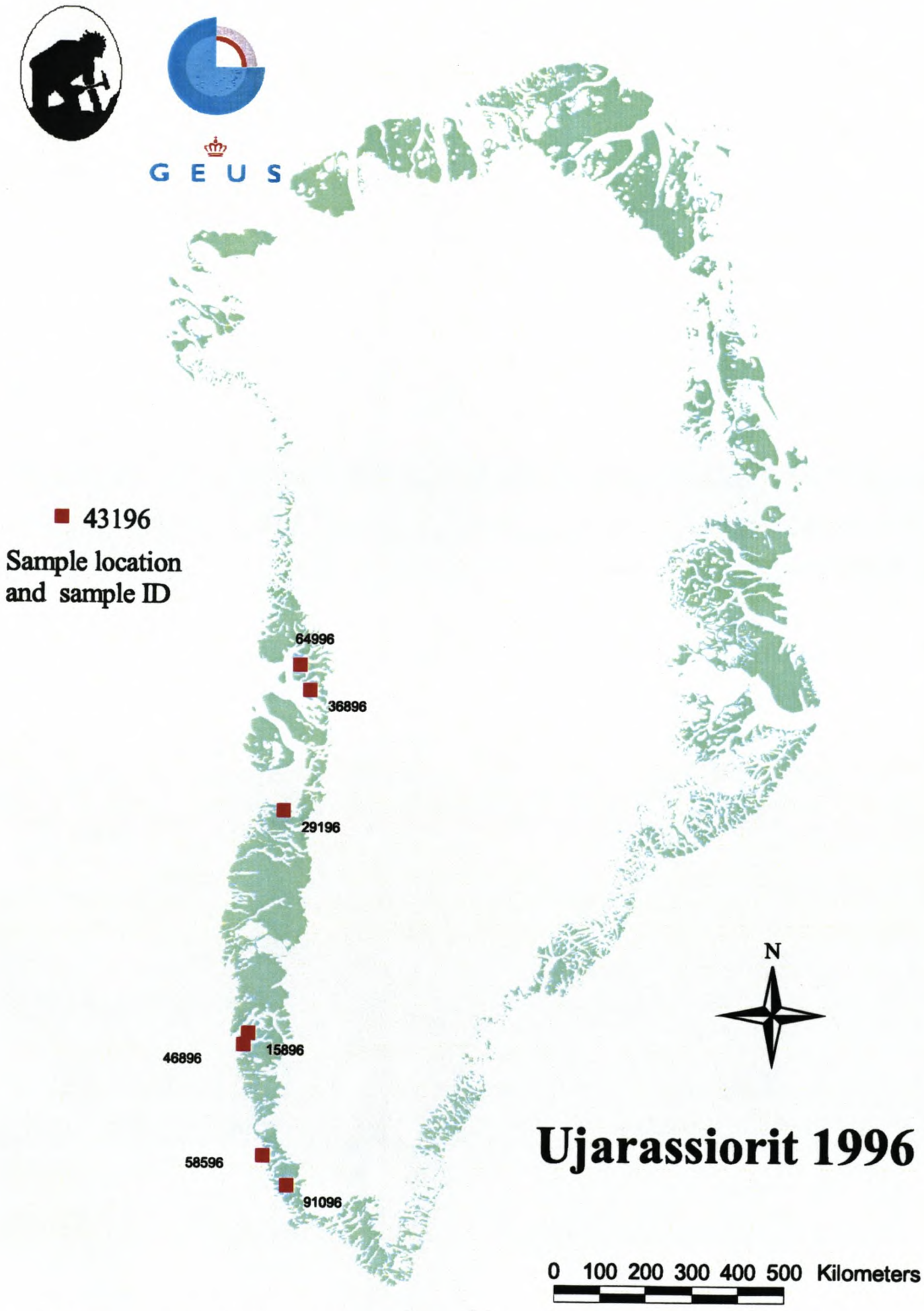

Fig.5. Location of samples with anomalous Pb and Zn content

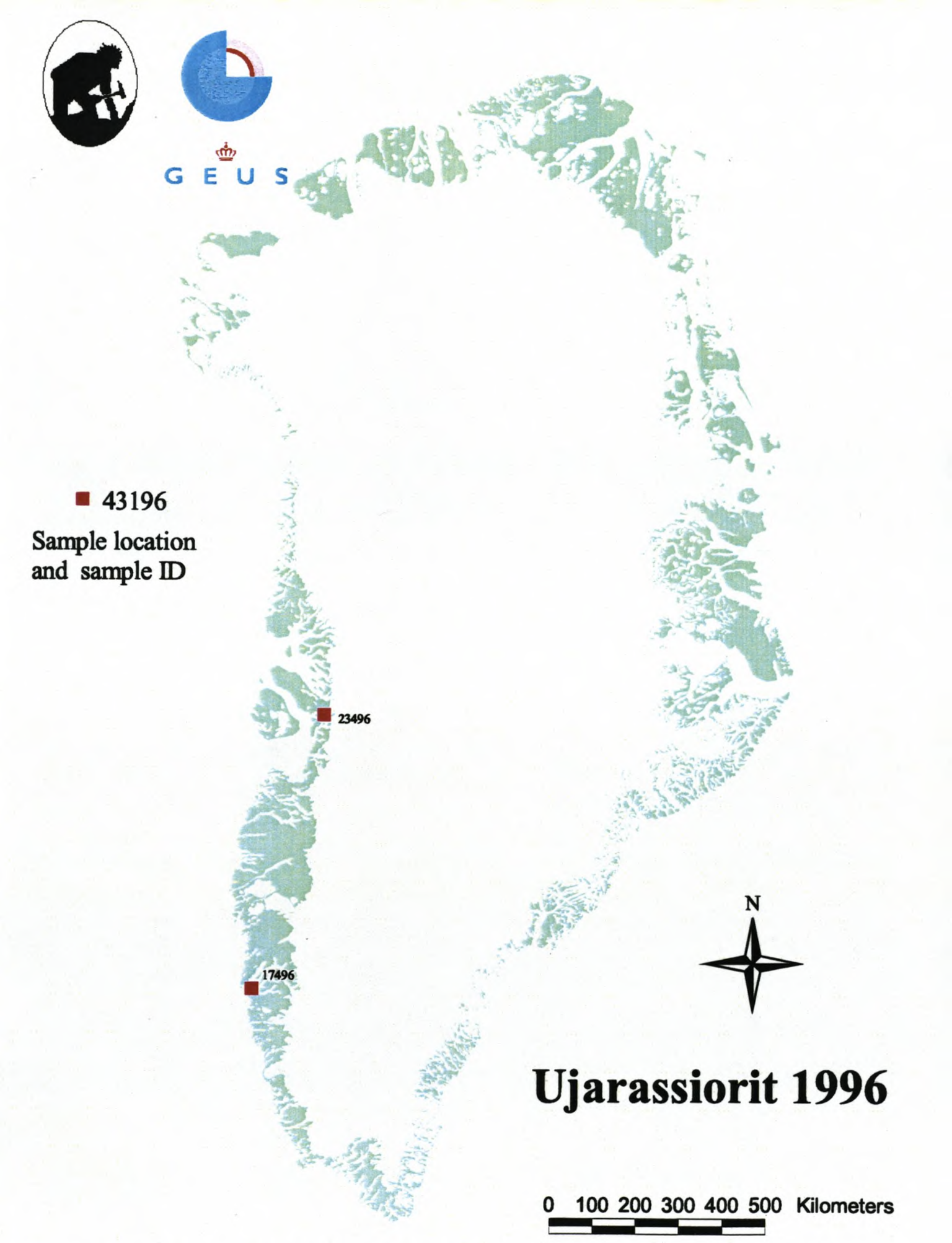

Fig.6. Location of samples with anomalously high Mo and/or W content

Map sheet	ID	Locality	Rock	Longitude	Latitude
60 V.2	00196	Near Aappilattoq	Rapakivi granite	-44.30218	60.15075
60 V.2	00396	Saqqarsuaq at Qaqortoq town (Storefjeld)	Mica schist	-46.05030	60.74205
60 V.2	00696	Akia island south of Qaqortoq, "hollow" in granite	Hydrothermally altered granite	-46.04141	60.68036
60 V.2	00796	Uunartoq fjord (sample from Ivigtut cryolite pit)	Cryolite	-45.32750	60.50678
61 V.1	00896	At Narsalik (on Narsaligaarsuk)	Alkali-granite with pyrite	-49.24885	61.66327
64 V.1	00996	Atammik village	Amphibolite	-52.17699	64.80376
65 V.1	01496	East of Napasoq village	Silicified mica schist	-51.99567	65.19014
65 V.1	01796	East of Napasoq	Altered granite	-51.99567	65.19014
65 V.1	01996	East of Napasoq	Quartzite	-51.99567	65.19014
65 V.1	02096	North of Napasoq	Gossan	-52.42172	65.12982
65 V.1	02196	Inland east of Napasoq	Gabbro / norite	-51.98731	65.20298
65 V.1	02296	Illut at Napasoq	Quartzite	-52.13124	64.96204
66 V.1	02596	Kangerlussuaq west (Sondre Stromfjord)	Kimberlite or lamprophyre	-51.33851	66.80791
68 V.1	02696	Island near Aasiaat town	Chert	-52.88480	68.71486
69 V.1	03096	Ilulissat ice-fjord	Iron-formation	-51.12418	69.21287
70 V.1	03196	C. 1 km. north of Saqqaq	Quartz-amphibole rock	-52.05928	70.05296
65 Ø.1	03796	Near Kulusuk	Mineralised schist	-37.21473	65.64403
68 Ø.3	04096	Kangerlussuaq east (Skaergaard intrusion)	Mineralised volcanic rock	-31.73696	68.14426
68 Ø.3	04196	Kangerlussuaq east	Veined volcanic rock	-31.73696	68.14426
68 Ø.3	04296	Kangerlussuaq east	Altered sediment or volcanic rock	-31.73696	68.14426
68 Ø.3	04396	Kangerlussuaq east	Mineralised dyke rock	-31.73696	68.14426
68 Ø.3	04496	Kangerlussuaq east	"Glimmerite"	-31.73696	68.14426
65 V.1	04596	At Napasoq	Mineralised gneiss	-52.38554	65.04600
65 V.1	04696	South of Napasoq	Altered rock	-52.13124	64.96204
60 V.2	05096	Alluitsoq	Diorite (Appinite)	-45.54078	60.50631
60 V.1	05196	Kvanefjeld at Narsaq (Ilimaussaq intrusion)	Altered feldspathic rock	-45.99499	60.97549
72 V.1	05496	Upernavik town	Basalt with native Cu	-56.14397	72.79387
60 V.2	06096	Meltwater creek by the school, Nanortalik town	Sandstone with rhodonite on fractures	-45.24265	60.14148
70 V.2	06396	Beach ca. 3 km. east of Qaarsut village	Quartz with mica-rich vein		
64 V.2	06496	Kapisillit village (originates elsewhere)	Skarn (from Ilimaussaq intrusion, S-Greenland)	-50.19236	64.43915
65 Ø.1	06696	Tullilik	Quartz vein	-36.37904	65.89993
68 V.1	07496	Ikamiut village	Semi-massive sulphide	-51.83413	68.63502
65 Ø.1	07996	Igtitalik on Kulusuk island	Semi massive sulphide	-37.21371	65.51241
68 V.2	08096	South of Qasigiannguit town	Weathered amphibolite	-51.31244	68.74302
69 V.2	08296	South of Ilulissat town, at Sermermiut	Magnetite rock	-51.12418	69.21287

68 V.2	08496	Ilulissat town	Quartz vein	-50.25535	69.21666
68 V.2	08596	Ilulissat town	Quartzite	-51.12418	69.21287
61 V.1	08696	Arsuk	Altered schist	-47.93298	61.02371
61 V.1	08896	Arsuk	Shale	-47.93298	61.02371
60 V.1	09296	Nyeboes kanal	Sulphidic carbonate breccia	-47.96071	60.88256
61 V.1	10496	Arsuk	Gneiss	-48.14650	61.12027
61 V.1	10696	Arsuk	Quartz	-48.14650	61.12027
60 V.2	10896	Kangikitsoq	Quartzite with sulphides	-44.17829	60.27518
66 V.1	11096	Sisimiut town	Quartz vein	-52.82805	66.91193
61 V.1	12896	Storø island, Nuuk fjord (Godthåbsfjord)	Quartz-rich mica schist	-48.55545	61.07130
61 V.1	13096	Arsuk	Quarzite with sulphides	-48.44976	61.17615
77 V.1	13996	Pituffik, near Thule airbase	Massive sulphide		
65 Ø.1	14596	Aaluit, near Kulusuk	Micaceous iron sulphide rock	-37.28867	65.59231
70 V.2	14996	Sattut village	Massive sulfphide	-51.60892	70.80190
70 V.2	15696	Akulliit	Weathered iron sulphide	-51.60892	70.80190
64 V.1	15896	Storø island, Nuuk fjord	Silicified amphibolite	-51.25942	64.27403
64 V.1	15996	Nuuk town	Banded gneiss	-51.69724	64.18759
64 V.1	16096	Nuuk town	Amphibolite	-51.70916	64.18735
64 V.1	16196	Nuuk town	Quartzite	-51.70916	64.18735
64 V.1	16296	Kobbefjord near Nuuk	Quartzite	-51.70916	64.18735
64 V.1	16496	Sermitsiaq island near Nuuk	Semi-massive sulphide	-51.70916	64.18735
64 V.1	16596	Nuuk	Mica schist	-51.70916	64.18735
64 V.1	16796	Nuuk, Lille Narsaq	Semi-massive sulphide	-51.72792	64.17937
???	17296	???	Quartzite with pyrite		
64 V.1	17396	Kobbefjord near Nuuk	Granite	-51.47227	64.17465
64 V.1	17496	Kobbefjord near Nuuk	Granodiorite	-51.47227	64.17465
64 V.1	17596	Storø, Itisoq	Weathered dolerite	-51.22955	64.26307
64 V.1	17696	Admiralitetsøen (Admiralty island, Nuuk town)	Amphibolite	-51.70832	64.17447
72 V.1	17996	Soccer field in Upernavik town	Weathered quartz vein with sulphides	-56.14397	72.79387
68 V.1	19096	Ikamiut village	Massive sulphide	-51.83413	68.63502
68 V.2	19296	Akulliit	Mineralised mica	-51.60892	70.80190
67 V.1	19396	Tunganeq	Garnet schist	-53.29551	67.61498
60 V.2	19496	Nigertuut	Weathered mica schist	-44.61910	60.21518
68 V.1	20496	Ikerasaarsuk	Pegmatite	-53.41378	68.13973
68 V.2	21196	3 km. from Ikamiut	Amphibolite	-51.91767	68.63214
65 V.1	21696	Evighedsfjorden N of Maniitsoq town	Carbonatite	-52.60331	65.96050

64 V.1	21796	Qoornoq, Nuuk fjord	Mica schist		
64 V.1	21896	Radiofjeldet in Nuuk town	Gneiss	-51.72792	64.17937
70 V.1	22096	Illorsuit village	Pegmatite	-51.90275	71.04446
61 V.1	22196	Paamiut town	Pegmatite		
64 V.1	22396	Lille Narsaq near Nuuk	Quartz vein with sulphide	-51.63778	63.99858
64 V.1	22496	Angisunnguaq	Amphibolite with quartz	-51.78039	64.06193
68 V.1	22596	Bay at western point of Nangissat	Calc-silicate with disseminated pyrite		
68 V.1	22696	NK 9607706009 (senders own coordinates)	Mineralised pegmatite		
68 V.1	23096	QT 960705007 (senders own coordinates)	Mineralised quartz vein		
68 V.1	23296	QT 960705006 (senders own coordinates)	Mineralised quartz vein		
70 V.2	23496	Qingassaq, N-shore of Torssukatak fjord	Sulphidic amphibolite	-50.63144	70.02277
61 V.1	24696	Ikka (Ika fjord)	Siltstone	-48.04623	61.17595
61 V.1	24796	Ikka	Mineralised tuff	-48.04623	61.17595
60 V.1	25096	Qinngua	Amphibolite	-45.52333	61.24652
64 V.1	25296	Industrivej, Nuuk town	Mineralised pegmatite	-51.72792	64.17937
64 V.1	25596	Bjergskråning ?	Quartz vein with malakite & sulphides		
66 V.1	25696	Mouth of Sdr. Strømfjord	Amphibolite with sulphur coating	-53.59722	66.02786
77 V.1	34296	Qaanaaq town	Dolerite	-69.25163	77.45544
64 V.1	35696	Skerry W of Atammik village?	Mineralised amphibolite	-52.17699	64.80376
68 V.2	40396	Eqerqoq island SE of Ikamiut	Pyrrhotite concretion	-51.72024	68.61287
67 V.1	40596	Small island S of Tuttulik, S of Ikerasaarsuk	Marble		
68 V.2	40796	Outer Akuliaruserssuaq, S of Ikamiut	Garnet mica schist		
70 V.2	42196	Ummannaq town	Magnetic micaceous amphibolite		
68 V.2	42496	Illorput at Ikamiut	Sulphidic gneiss		
65 Ø.1	42596	Iliartalik at Nuernigakat, east of Sermiligaaq	Weathered amphibolite w. jarosite		
68 V.2	44096	Highest point of Ikamiut peninsula., W of Ikamiut	Weathered micaceous amphibolite		
68 V.2	44396	Eqerqoq island, Sydostbugten	Mica-rich gneiss		
68 V.2	45396	Northe shore of Puagiarssup ilua	Coarse-grained garnet mica schist		
67 V.1	45496	Attu town	Silicified siltstone		
66 V.1	45596	Kællingehætten mountain, Sisimiut town	Mica schist w. disseminated pyrite	-53.55747	66.93198
66 V.1	45996	Kællingehætten mountain, Sisimiut town	Gneiss with pyrrhotite	-53.55747	66.93198
61 V.1	49196	SW shore of Kuunnaat bay	Magnetite-rich dolerite	-48.40569	61.18395
68 V.2	51196	Eqaluit lake outlet stream, S of Ilulissat	Graphite schist		
64 V.1	51896	Atammik village	Rusty ultramafite	-52.00884	64.92825
68 V.1	55396	Promontory W of hunters' cabin on Qipingasup N	Mica-rich graphitic gneiss		
71 V.1	60296	Aquliaruseq, peninsula S of Karrat island	Biotite schist with disseminated sulphide		

71 V.2	60696	Niaqornakavsak, inner Karrat Isfjord (Kangilleq)	Sulphide-rich rock		
68 V.2	61396	At Kuussuaq, south shore of Sydostbugten	Carbonatised greenstone		
66 V.1	61796	Itilleq at Nuussuup qulaa	Amphibolite with quartz vein	-52.92864	66.53393
64 V.1	62596	Naparutillarneq island	Pyroxenite	-52.17064	64.64651
68 V.2	64196	Puagiarssup iluatungaani	Sulphidic amphibolite		
67 V.2	64896	Head of Nuerssorfiaraq, inner Nordre Strømfjord	Quartzite with biotite		
71 V.2	64996	N-shore of peninsula S of Karrat island	Rusty schist	-52.80856	71.47511
64 V.1	65996	Qoornoq, Storøen, Nuuk fjord	Felsite with sulphide	-51.08346	64.53672
68 V.2	66396	Western Akuliaruserssuaq, S for Ikamiut	Amphibolite with disseminated pyrrhotite		
68 V.2	66496	Akuliaruserssuaq, S of Ikamiut	Ultramafite with garnet and pyrrhotite		
64 V.1	66796	Tinuteqissap avale	Rusty biotitic rock	-52.17064	64.64651
64 V.1	66896	Atammik town	Amphibolite with sulphide	-52.17356	64.80480
64 V.1	67196	Tasiussap Nuussua, Fiskefjord	Banded iron-formation	-51.98887	64.76561
73 V.1	67296	W-pnt of Aappilattoq island, Tasiussaq, Upernavil	Quartzite with sulphide		
73 V.1	67396	W-pnt of Aappilattoq island, Tasiussaq, Upernavil	Quartzite with sulphide & graphite		
73 V.1	67496	W-pnt of Aappilattoq island, Tasiussaq, Upernavil	Quartzite with pyrrhotite		
73 V.1	67596	W-pnt of Aappilattoq island, Tasiussaq, Upernavil	Quartzite with pyrrhotite & graphite		
66 Ø.2	68496	NW of Ammassalik on Qipap tassilaa (in Sermilik	Greenstone with sulphides	-37.86425	66.16415
61 V.1	69396	Arsuk town	Strongly deformed rock (mylonite)	65.89993	61.17579
63 V.1	71896	Small island in Tasiussarsuaq inlet, Buksefjord	Carbonatised rock	-51.30343	63.77354
68 V.1	72396	Kitsisuarssuit (Hunde Ejland)	Carbonatised amphibolite		
66 V.1	72696	Sisimiut town (near heliport)	Syenite	-53.65484	66.92869
65 Ø.1	72896	At Nunartivaq, W-shore of Sermiligaaq fjord	Altered amphibolite		
70 V.2	74596	N-shore of Torssukatak, bay at Qeqertarssuk	Cupriferous schist		
68 V.2	74996	South shore of Puagiarssup ilua	Massive pyrite		
68 V.2	75196	Summit of Ikamiut peninsula, W of Ikamiut	Massive sulphide (py+po)		
65 Ø.2	86496	Refsnæs' easternmost point, Amitsivartiva	Skarn w. magnetite & sulphides		
61 V.1	91096	Inner Sermiligaarsuk S shore: point E of Niaqorna	Qz-sericite schist w. carbonate & diss. pyrrhotite	-48.51461	61.50528
64 V.1	05396	By the soccer field, Nuuk town	Ultramafic schist	-39.73565	64.17619
65 V.1	05796	SW shore of Ikkamiut Kangerluarsuat	Mica schist	-52.77688	65.68166
64 V.1	25996	Nuuk	Amphibolite	-51.75312	64.17719
64 V.1	26196	Kapisillit town	Gneiss	-50.18825	64.43163
-	26396	KS 960706017 (senders own coordinates)	Pegmatite		
-	26496	NK 960706010 -	Amphibolite with sulphides		
-	26596	IKN2 960714028 -	Fine-grained schist w. disseminated sulphides		
-	26696	AK 960707020 -	Sandstone w. malakite and sulphides		

-	26796	NK 960706011	-	Arkose		
-	26896	IKN3 960714026	-	Fine-grained schist with quartz and sulphides		
-	27196	KSNK 960706013	-	Mica schist		
-	27296	AK 960707021	-	Amphibolite		
-	27396	MKS 960714025	-	Quartzite		
-	27496	IKN 960714029	-	Quartzite		
68 V.1	27596	Bay at SE-point of Ulusat nuat		Hydrothermally altered rock w. quartz vein		
69 V.2	27796	Nunatarssuaq		Quartzite	-50.12407	69.22795
69 V.1	28896	Ilulissat		Hydrothermally altered granite	-51.12418	69.21287
68 V.2	29196	Ikamiut		Massive sulphide	-51.83413	68.63502
70 V.1	29296	Nuussuaq peninsula		Lava + chert boulder	-54.06135	70.44138
70 V.2	29396	Ivigssussat		Silicified pyrrhotite breccia	-53.05840	70.32227
65 V.1	29596	Imeqarfik		Biotite schist	-53.34020	65.82735
65 V.1	29696	Between Imeqafik and Tulukkat		Hydrothermally altered rock	-53.34020	65.82735
66 V.2	29896	Kangerluatsiaksuaq		Rusty quartzite	-53.03703	65.89475
72 V.1	30196	Karrani		Biotite schist with quartz vein	-56.11101	72.84008
72 V.1	30296	Karrani		Schist	-56.11101	72.84008
71 V.1	30596	Illorsuit island		Mineralised feldspar vein		
71 V.2	30796	Nigerleq on the peninsula SE of Karrat ø		Massive sulphide	-52.80856	71.47511
71 V.2	30996	Tinumanikassa		Graphite schist w. disseminated sulphides	-52.80856	71.47511
65 Ø.2	31196	Nunalarte		Nr 1. Mineralised quartz vein	-39.07248	65.64284
65 Ø.2	31296	Nunalarte		Nr. 2 Amphibolite with quartz vein	-39.07248	65.64284
65 Ø.2	31396	Nunalarte		Nr. 3 Quartz breccia with sulphides	-39.07248	65.64284
65 Ø.2	31696	W-shore of Siportoq, N of Nattivit		Nr. 1 Pegmatite w. malakite	-38.44335	65.65183
65 Ø.2	31796	W-shore of Siportoq, N of Nattivit		Nr.2 Magnetite-mineralised quartz vein	-38.44335	65.65183
65 Ø.2	31996	W-shore of Siportoq, N of Nattivit		Nr. 4 Mineralised amphibolite	-38.44335	65.65183
64 V.1	32196	NE- slope of Lille Malene mountain, Nuuk		Mineralised pegmatitic quartz	-51.65403	64.18868
70 V.1	32296	Nuussuaq peninsula		Mineralised tuff	-53.57623	70.49730
72 V.1	32496	Upernavik		Rusty granite	-56.14397	72.79387
72 V.1	32596	Upernavik		Altered dyke rock	-56.14397	72.79387
64 V.1	32696	Timmianguit		Mineralised amphibolite	-51.83778	64.82367
64 V.1	32796	Timmianguit		Micaceous amphibolite	-51.83778	64.82367
64 V.1	33496	Sammissup nuna		Micaceous amphibolite	-52.17699	64.80376
72 V.1	33896	Upernavik town		Mineralised quartzite	-56.14397	72.79387
77 V.1	33996	Saunders Island		Gypsum	-69.87392	76.55618
65 Ø.1	34196	Niaqernaartik, Kap Tycho Brahe		Quartz mica schist	-38.24123	65.61868

62 V.1	34596	Eqaluit (in Bjørnesund)	Garnet mica schist	-50.15130	62.90694
70 V.2	36096	Qernertukassak	Silicified greenstone	-51.35280	70.70556
70 V.2	36196	Qernertukassak	Quartzite	-51.35280	70.70556
?	36296	Q 960720031 (Senders own coordinates)	Graphite-amphibole schist		
?	36496	EK 960720032 -	Massive sulphide		
71 V.2	36996	Ukkusissat	Biotite gneiss w. disseminated sulphides	-51.90275	71.04446
64 V.1	37196	Between St. Malene mountain and Kuaninguit, Nu	Micaceous amphibolite	-51.58770	64.18389
64 V.1	37996	Between St. Malene and Kuaninguit	Anthophyllite schist	-51.58770	64.18389
64 V.1	38096	Between St. Malene and Kuaninguit	Anthophyllite schist	-51.58770	64.18389
64 V.1	38196	Between St. Malene and Kuaninguit	Biotite schist	-51.58770	64.18389
64 V.1	38296	Between St. Malene and Kuaninguit	Antophyllite schist	-51.58770	64.18389
64 V.1	38696	Between St. Malene and Kuaninguit	Amphibole schist	-51.58770	64.18389
64 V.1	38896	Between St. Malene and Kuaninguit	Ultramafite	-51.58770	64.18389
?	39196	AKQK 960727042 (Senders own coordinates)	Graphite pyrrhotite schist		
?	39296	AIAK 960727043 -	Mineralised dolerite		
?	39396	AT 960725037 -	Amphibolite w. disseminated sulphide		
?	39496	AT 960725038 -	Amphibolite w. disseminated sulphide		
?	39596	AKS 960727039 -	Amphibolite w. disseminated sulphide		
?	39696	EAA 960720033 -	Biotite schist with sulphides		
?	39796	EK 960720034 -	Quartz		
?	39896	AKQK 960727040 -	Graphite pyrrhotite schist		
?	39996	AKQK 960727041 -	Mineralised amphibolite		
?	40096	QAKS 960721035 -	Amphibolite with quartz		
?	40196	QS 960721036 -	Amphibolite		
68 V.2	41296	Simiuktaq, southern part	Quartzite		
65 Ø.2	41796	Isortoq	Ultramafite	-38.99064	65.53343
66 V.1	41996	Tuapanguit, Sisimiut town	Amphibolite with sulphides	-53.67079	66.94021
71 V.1	42096	Illorsuit	Amphibolite with pyrrhotite	-53.66148	71.31033
71 V.2	43096	North of Ukkusissat	Amphibole schist		
69 V.2	43396	Tasiusaq	Silicified schist	-50.22475	69.06464
68 V.1	45296	Kanala	Massive sulphide	-52.72156	68.36335
61 V.3	46196	North of Narsaq town	Amphibole mica schist	-45.96625	61.22495
64 V.1	46796	Præstefjord near Nuuk	Ultramafite w. sulphide, rock magnetic	-51.37885	64.03256
64 V.1	46896	Præstefjord near Nuuk	Massive sulphide	-51.37885	64.03256
64 V.1	46996	Præstefjord near Nuuk	Amphibolite w. mineralised quartz vein	-51.37885	64.03256
64 V.1	47696	Isertoq	Garnet amphibolite, magnetic	-50.89051	64.26491

66 Ø.2	48196	Depotfjord	Dolerite with sulphides	-35.87348	66.13215
66 V.1	48796	North of Sisimiut	Magnetic granite	-53.64050	66.95841
64 V.1	49296	Nuuk quarry	Pegmatite with sulphide	-51.66184	64.18359
65 Ø.1	40696	Kungmiut	Silicified amphibolite	-37.01880	65.85319
69 V.2	50596	Qinngua in Tasiussaq	Silicified gneiss	50.14153	69.02916
69 V.2	50796	Tasiussaq close to Qinngua	Banded iron-formation	50.14153	69.02916
72 V.1	51696	Upernavik town	Mica schist with sulphide	-56.14397	72.79387
64 V.2	51996	Ivisaartoq	Magnetic granite		
64 V.2	52596	Ivisaartoq	Hydrothermally altered granite		
60 V.2	53396	Old Town in Nanortalik	Graphite schist with quartz veins		
68 V.1	53496	Aumat island S of Aasiaat	Amphibolite with quartz veins		
60 V.2	54596	N of Ammassivik	Carbonatite	-45.51078	61.14045
?	54996	UIK 960803044 (senders coordinates)	Pegmatite with sulphide		
?	55096	960813045 -	Quartz vein with sulphides		
?	55196	960813046 -	Quartz vein with sulphides		
?	55296	960813047 -	Amphibolite with sulphides		
68 V.1	56596	Aasiaat heliport	Phyllite with quartz vein	-52.86712	68.70826
69 V.2	56695	Trail near Ilulissat town	Banded chert with magnetite and carbonate	-51.12418	69.21287
69 V.1	56796	Nuunnguaq	Silicified rock	-53.55911	69.23948
64 V.1	56896	Napparutiliiarneq	Rusty sulphidic diorite	-52.17064	64.64651
69 V.1	57496	Uunartorsuaq	Sulphidic rock		
69 V.2	57696	At Ilimanaq (Claushavn) village	Dark schist with graphite and sulphide		
77 V.1	58696	Qungasissat	Gneiss with malakite coating	-67.06260	77.68300
77 V.1	58796	Qeqertat	Sulphidic banded iron formation	-66.75255	77.49020
77 V.1	58896	Nuussuaq, near Qaanaaq	Dark sulphidic rock	-69.33086	77.45993
77 V.1	59096	Qeqertaq	Sulphidic iron ore	-66.75255	77.49020
77 V.1	59196	Qeqertat	Gossan	-66.75255	77.49020
77 V.1	59396	Qeqertat	Sulphidic iron ore	-66.75255	77.49020
73 V.1	59596	Avattap Ilua	Gossan	-55.64940	73.47610
73 V.1	59796	Avattap Ilua	Gossan	-55.64940	73.47610
68 Ø.3	60096	Amdrup Fjord	Rusty pyritised dyke	-32.41111	68.23333
68 Ø.3	60196	Amdrup Fjord	Pyritic quartz vein	-32.41111	68.23333
72 V.1	60396	Qeqertaarsuk	Gossan	-55.77108	72.79104
68 Ø.3	61196	Kangerlussuaq, (near Skaergaard intrusion)	Volcanic rock	-31.73696	68.14426
70 V.1	62896	Niaqornat	Basalt with oxide	-53.67156	70.79414
64 V.1	62996	Kobbefjord fault	Quartz vein w. sulphides	-51.53051	64.19036

64 V.1	63096	Kobbefjord fault	Quartz-carbonate vein	-51.53051	64.19036
65 Ø.2	63396	Ikkatseq	Quartz-rich rock w. sulphides	-37.93575	65.60857
65 Ø.2	63496	Ikkatseq	Quartzite with disseminated sulphides	-37.93575	65.60857
65 Ø.2	63596	Ikkatseq	Graphitic quartz-rich rock	-37.93575	65.60857
69 V.2	63996	Ilulissat fjord	Pyritic schist	-51.12418	69.21287
68 V.1	67996	Attu island	Pyritic amphibolite	-53.59831	67.93396
68 V.1	68096	Attu village	Garnet amphibolite with magnetite	-53.59831	67.93396
65 Ø.1	68396	Helistop - Tiniteqilaaq	Sulphidic rock	-37.79260	65.86638
65 Ø.1	68696	Near Sermiligaaq village	Mica-rich gneiss w. disseminated sulphide	-36.37904	65.89993
65 Ø.1	69096	Sappaarlaainni, in bay just E of Pikiitse island	Skarn		
60 V.2	69196	Nuuluk mountain at Igaliko village	Altered granodiorite		
61 V.2	70096	Paradisdalen in inner Qoornoq	Cu-mineralised quartz-carbonate rock	-47.83320	61.18845
61 V.2	70396	Main valley in Qoornoq	Basalt(lava) w. pyrite + carbonate		
68 V.1	70596	Nassaaq in Aasiaat	Carbonate schist	-52.86712	68.70826
65 V.1	71396	Evighedsfjorden at Mt. Atter	Gabbroic rock	-52.18630	65.95139
64 V.1	71496	Kobbefjord at the fault	Quartz-carbonate rock	-51.47491	64.17356
65 V.1	71596	Evighedsfjorden	Pyrrhotite-graphite rock		
64 V.1	71696	Large boulder by Qorsussuaq school, Nuuk	Altered granitoid	-51.73544	64.17470
65 Ø.1	73196	Near Kulusuk village, W-coast of Kulusuk island	Monzonite		
66 V.1	73796	Near Itilleq at Qingartaq	Rusty schist	-53.54191	66.50204
68 V.2	74696	Iluliarusinguit lidt N for Ikamiut	Black chert	-51.90531	68.64829
65 Ø.1	74896	Kaartulluk, in bay just SW of Kulusuk	Gossan		
68 V.2	75096	Narsarsuaq c. 2 km from Ikamiut	Pyrite	-51.85412	68.63260
68 V.2	75296	Near Ikamiut	Metapelite with sulphide	-51.88778	68.54675
68 V.2	75396	Near Ikamiut	Quartzite w. sulphide	-51.88778	68.54675
68 Ø.3	76496	Ryberg fjord	Siltstone w. pyrite & calcite	-30.77917	68.29347
68 Ø.3	76596	Ryberg fjord	Mineralised siltstone	-30.77917	68.29347
65 Ø.1	76996	At Sermiligaaq	Quartz diorite	-36.39455	66.01986
61 V.1	77896	Almost certainly inner Kungnat bay, Arsuk	Lamprophyre	-48.38979	61.20182
65 Ø.1	78196	Near Tiniteqilaaq village	Skarn	-37.79260	65.86638
68 Ø.3	78296	Søkongen island	Silstone with massive pyrite	-29.99540	68.17201
68 Ø.3	78396	Ryberg Fjord	Siltstone w. disseminated to massive pyrite	-30.77917	68.29347
68 Ø.3	78496	Ryberg fjord	Sulphide-graphite rock	-30.77917	68.29347
69 V.2	78896	Above Taseraasat	Marble with calc-silicates	-51.12418	69.21287
74 V.1	79196	Bloch island at Amdrup Ø, N of Kullorsuaq	Calc-silicate rock		
73 V.2	79296	Appilattoq island, N of Upernavik	Skarn		

73 V.1	79396	Appilattoq island, N of Upernavik	Quartz vein w. sulphide & graphite		
73 V.1	79496	Appilattoq island, N of Upernavik	Skarnoid rock		
73 V.1	79596	Appilattoq island, N of Upernavik	Quartz vein		
65 Ø.1	80196	W of Kulusuk	Rusty garnet biotite gneiss with pyrrhotite	-37.21143	65.53243
69 V.2	80696	Pikiulik island N of Ilulissat	Silicified marble	-50.89797	69.42493
69 V.2	80796	Sermermiut at Ilulissat town	Altered quartzite	-51.12418	69.21287
72 V.1	81196	N of Upernavik, Kingittorssuak island	Quartz with chlorite & pyrite	-56.22169	72.97279
65 Ø.1	81296	Bay c. 2 km E of Sermiligaaq (at Issi)	Pegmatite with sulphide minerals	-36.22001	65.92255
65 Ø.1	81396	Issi at Sermiligaaq	Hydrothermally altered volcanic rock	-36.22001	65.92255
65 Ø.1	81596	Issi at Sermiligaaq	Altered and mineralised calc-silicate rock	-36.22001	65.92255
65 Ø.1	81696	Issi at Sermiligaaq	Quartz with pyrrhotite	-36.22001	65.92255
65 Ø.1	81796	Issi at Sermiligaaq	Very mica-rich rusty schist	-36.22001	65.92255
68 V.1	82296	Aasiaat town	Quartz-carbonate altered metasediment	-52.86712	68.70826
70 V.2	82396	Paarnat E of Uummannaq	Gneiss with white sulphate coating	-51.47912	70.64972
70 V.2	82496	Paarnat E of Ummannaq	Quartz w. graph., pyrite & white sulphate coating	-51.47912	70.64972
61 V.1	82896	Northern Arsuk Ø (Arsuk Island)	Pyritised+silicified graphitic chert	-48.27800	61.17245
61 V.1	82996	North coast of Arsuk Ø	Graphitic chert w. sulphide+quartz+carbonate	-48.27800	61.17245
61 V.1	83096	Itivittarfinnguaq	Tremolite mica schist w. sulphide on cracks	-48.25762	-48.25762
61 V.1	83196	Northern Arsuk Ø	Silicified & carbonatised graphitic chert	-48.27800	61.17245
61 V.1	83296	Northern Arsuk Ø	Silicified schist w. qz+py stringers	-48.27800	61.17245
61 V.1	83396	Northern Arsuk Ø	Quartz w. graphite, pyrite & carbonate	-48.27800	61.17245
61 V.1	83496	Northern Arsuk Ø	Mineralised graphitic schist	-48.27800	61.17245
60 V.2	83596	Tusarluarnaaq mountain at Nanortalik	Mineralised calc-silicate marble	-45.18208	60.14278
60 V.2	84096	Mountain at Nanortalik	Graphite schist	-45.18208	60.14278
65 V.1	84196	?	Iron-bearing mafic rock		
61 V.1	84296	Slæbestedet at Sarfap ilua, NE of Arsuk	Quartz-carbonate altered rock	-48.25828	61.21977
65 Ø.1	84396	Addeqqi, northwestern Kulusuk Ø	Rusty sulphidic micaceous ultramafite	-37.21902	65.55482
65 Ø.1	84496	Umiivik	Pyrrhotitic mica-rich gneiss		
61 V.1	84596	Nerutussoq fjord near Paamiut	Carbonatised rock		
65 V.1	84696	Qiqertatsaat island in Eqaluk, outer Fiskefjord	Dark chert w. disseminated magnetite	-52.16188	64.94398
65 Ø.1	84996	Addeqqi, northwestern Kulusuk Ø	Rusty garnetite w. sulphides	-37.21902	65.55482
65 Ø.1	85096	Addeqqi, northwestern Kulusuk Ø	Garnet mica rock w. sulphides	-37.21902	65.55482
68 Ø.3	85196	Amdrup Fjord	Quartz-pyrite vein in dark fine-grained rock	-32.41111	68.23333
68 Ø.3	85296	Amdrup Fjord	Altered dyke rock w. pyrite and calcite	-32.41111	68.23333
65 Ø.1	85496	East of Kuummiut	Graphite schist	-37.10106	65.88371
65 Ø.1	85596	East of Kuummiut	Graphite schist	-37.10106	65.88371

64 V.1	85796	Atammik	Quartz vein with pyrite	52.17699	52.17699
66 V.2	85896	Køkkenfjeld, Sondre Stromfjord airport	Rusty amphibolite w. disseminated pyrrhotite	-50.72407	67.02563
66 V.2	85996	Køkkenfjeld, Sondre Stromfjord airport	Micaceous amphibolite	-50.72407	67.02563
64 V.1	86396	Atammik	Pyritic quartz vein	-52.17699	64.80376
68 Ø.3	86696	Amdrup Fjord	Pyritic quartz vein	-32.41111	68.23333
70 V.2	86796	Qaarsorsuaq	Quartz vein with pyrrhotite	-51.08972	70.68599
63 V.1	87296	Fault at Grædefjord runoff measuring station	Min. & alt. granitoid w. K-feldspar phenocrysts	-50.79160	63.38841
61 V.1	87396	Niaqornarsuaq at Ikerasaarsuk	Sulphide-mineralised quartz-banded rock	-45.19593	60.43111
61 V.1	87596	Near Arsuk	Lamprophyric rock		
61 V.1	87896	Niaqornarsuaq at Ikerassarsuk	Quartz-pyrite-graphite rock	-45.19593	60.43111
68 Ø.3	87996	Amdrup fjord	Quartz-pyrite banded rock - possibly meta-IF	-32.41111	68.23333
60 V.2	88096	Matorsuaq, W-shore of head of Amitsuarsuk, 500	Ultramafic rock	-45.23510	60.75175
70 V.2	88196	Torsuqartarmi nunataime	Marble w. quartz & pyrite	-50.24266	70.04003
65 Ø.1	88396	Kangertivak	Quartz w. chalcopyrite, mica & amphibole	-37.20932	66.01445
68 Ø.3	88496	Amdrup Fjord	Altered and mineralised dyke rock	-32.41111	68.23333
65 Ø.1	89496	Tasiilap qinngua	Graphitic rock rich in carbonate	-37.69086	65.62304
68 Ø.3	89796	Amdrup Fjord	Pyritic rock	-32.41111	68.23333
68 Ø.3	89896	Amdrup Fjord	Sulphide-rich rock	-32.41111	68.23333
69 V.2	89996	Mudderbugten, eastern Disko island	Quartz-carbonate rock	-52.01683	69.69804
60 V.1	90096	Tunulliarfik	Altered hematite-mineralised rock	-45.37658	61.05167
61 V.1	90196	Niaqornarsuaq	Sulphidic rock	-45.19593	60.43111
65 V.1	90396	Nær Napasoq: Portusoq island	Pyrrhotite mineralised gneiss	-52.28484	65.24102
68 V.2	90896	Angissat S of Qasigiannguit	Mineralised meta-chert	-51.31244	68.74302
61 V.1	91196	N-shore of Ikerasaarsuk (Karsakken)	Black fine-grained rock w. diss. to mass. sulphide	-48.26656	61.17664
73 V.1	91596	Nunatakassak semi-nunatak	Mineralised granitic rock	-55.11181	73.19401
73 V.1	91796	Iterlassuup ilua	Rusty biotite granite with pyrrhotite	-55.30188	73.17452
73 V.1	91896	Iterlassuup ilua	Partly silicified granite w. magnetite	-55.30188	73.17452
73 V.1	92096	Near Inaarsuit village	Dark fine-grained rock w. carbonate	-55.90194	73.20223
73 V.1	92496	Nunatakassak semi-nunatak	Dioritic gneiss w. pyrrhotite	-55.11181	73.19401
61 V.1	93696	Iggavik	Dark volcanic rock	-48.51543	61.29856
61 V.1	93796	Ikka	Rock containing magnetite	-48.13301	61.12401
61 V.1	93896	Eqalunnguit, northern Arsuk Ø	Massive sulphide in volcanic rock	-48.33574	61.16787
64 V.1	17096	Nuuk town quarry	Coarse gneiss	-51.70916	64.18735
64 V.1	16896	Nuuk town quarry	Mineralised gneiss	-51.70916	64.18735
65 V.1	06196	Maniitsoq town (from Maarmorilik)	Quartz with galena and sphalerite		
68 V.1	21096	Aasiaat town (from Maarmorilik)	Quartzsite with sulphides	-52.86712	68.70826

60 V.1	32396	Qaqortoq (from Ivittuut)	Massive sulphide	-51.12418	69.21287
71 V.2	36896	Ukkusissat (near Maarmorilik)	Amazonite-granite	-51.90275	71.04446
64 V.2	43196	Quassunnguaq (from Maarmorilik)	Quartz with sulphides	-51.72792	64.17937
70 V.2	44796	Uummannap Sissaani (from Maarmorilik)	Quartz with sulphides	-52.12523	70.67806
65 Ø.1	46396	NW of Kuummiut (Mestersvig or Maamorilik)	Massive sulphide in calcite		
61 V.1	58596	Paamiut town (from Ivittuut cryolite pit)	Baryte & celestite w. diss. pyrite	-49.67256	61.99648

 Analysis results from instrumental neutron activation analysis (INAA)

ID	Au_ppb	As_ppm	Br_ppm	Co_ppm	Cr_ppm	Cs_ppm	Hf_ppm	Hg_ppm	Ir_ppb	Mo_ppm	Rb_ppm	Sb_ppm	Sc_ppm	Se_ppm	Ta_ppm	Th_ppm
00196	-5	-2	-1	8	37	-1	12	-1	-5	12	120	-0.20	2	-3	-1	380.0
00396	7	3	-1	25	1290	89	-1	-1	-5	34	747	1.50	27	-3	-1	2.2
00696	-5	-2	2	4	15	2	2	-1	-5	-5	36	0.30	2	-3	2	9.1
00796	-5	-2	5	2	5	-1	-1	-1	-5	-5	-10	-0.20	1	-5	-2	-0.5
00896	-5	9	1	16	14	1	6	-1	-5	6	210	0.30	1	-3	1	24.0
00996	-5	-2	-1	24	93	1	6	2	-5	-5	-10	-0.20	15	-3	-1	1.8
01496	-5	-2	-1	12	27	1	3	-1	-5	-5	101	-0.20	5	-3	-1	4.4
01796	-5	-2	-1	6	15	-1	3	-1	-5	-5	65	-0.20	1	-3	-1	0.8
01996	-5	-2	-1	1	16	-1	-1	-1	-5	-5	-10	-0.20	1	-3	-1	-0.5
02096	-5	-2	-1	29	888	-1	2	-1	-5	-5	36	-0.20	39	-3	-1	-0.5
02196	-5	-2	3	78	2390	-1	1	-1	-5	-5	-10	-0.20	23	-3	-1	1.4
02296	-5	-2	1	98	2130	-1	-1	-1	-5	-5	76	-0.20	27	-3	-1	-0.5
02596	-5	-2	2	94	1510	2	4	-1	-5	-5	60	-0.20	15	-3	6	6.7
02696	-5	-2	-1	3	47	-1	1	-1	-5	-5	-10	-0.20	1	-3	-1	1.7
03096	-5	10	-1	3	37	-1	1	-1	-5	-5	-10	3.50	4	-3	-1	0.9
03196	-5	14	-1	8	96	3	2	-1	-5	-5	18	-0.20	14	-3	-1	3.8
03796	158	-2	-1	231	467	1	1	-1	-5	-5	28	-0.20	36	-3	-1	1.0
04096	315	160	-1	20	444	8	9	-1	-5	-5	415	1.80	45	-3	8	14.3
04196	146	52	-1	27	14	1	6	-1	-5	-5	41	0.80	15	-3	3	4.4
04296	34	24	-1	42	466	4	6	-1	-5	-5	103	1.90	38	-3	6	12.4
04396	-5	-2	-1	28	14	-1	6	-1	-5	-5	42	0.20	18	-3	3	4.3
04496	-5	2	-1	62	800	16	1	-1	-5	-5	308	0.40	22	-3	3	17.2
04596	-5	-2	-1	66	441	-1	1	-1	-5	-5	-10	-0.20	28	-3	-1	-0.5
04696	-5	-2	-1	86	14	-1	11	-1	-5	-5	-10	0.40	4	4	-1	6.2
05096	-5	-2	-1	40	13	-1	1	-1	-5	-5	-10	-0.20	34	-3	-1	0.8
05196	16	-2	-2	-2	30	-1	5	-1	-5	-5	-10	2.40	1	-3	9	1000.0
05396	-5	-2	-1	25	13	3	4	-1	-5	-5	238	-0.20	9	-3	-1	0.8
05796	-5	-2	-1	98	1830	3	1	-1	-5	-5	224	-0.20	18	-3	-1	-0.5
06096	-5	13	-1	5	39	-1	5	-1	-5	-5	89	2.20	7	-3	-1	8.5
06196	49	5	-1	1	18	-1	-1	-1	-5	-5	-10	20.80	0	-3	-1	-0.5
06396	-5	-2	-1	6	53	3	1	-1	-5	-5	64	-0.20	6	-3	-1	4.8
06496	9	4	-1	18	8	-1	10	-1	-5	-5	51	0.60	13	-3	-1	13.0
06696	-5	-2	-1	8	19	-1	-1	-1	-5	-5	-10	-0.20	1	-3	-1	-0.5
07496	170	140	-1	30	102	2	1	-1	-5	34	41	6.70	9	22	-1	1.4
07996	143	2	-1	600	23	2	1	-1	-5	10	-10	-0.20	8	-3	-1	-0.5

ID	Au_ppb	As_ppm	Br_ppm	Co_ppm	Cr_ppm	Cs_ppm	Hf_ppm	Hg_ppm	Ir_ppb	Mo_ppm	Rb_ppm	Sb_ppm	Sc_ppm	Se_ppm	Ta_ppm	Th_ppm
08096	9	2	-1	5	173	2	1	-1	-5	10	41	0.50	15	-3	-1	0.9
08296	6	14	-1	1	18	-1	-1	-1	-5	-5	-10	0.80	0	-3	-1	-0.5
08496	5	3	-1	3	26	-1	-1	-1	-5	6	-10	1.10	0	4	-1	-0.5
08596	-5	-2	-1	3	10	-1	2	-1	-5	-5	217	-0.20	1	-3	-1	9.4
08696	6	-2	-1	17	58	4	4	-1	-5	14	95	-0.20	7	-3	-1	4.9
08896	-5	7	-1	33	169	6	3	-1	-5	-5	99	0.30	30	-3	-1	5.0
09296	-5	3	4	44	181	-1	1	-1	-5	-5	43	0.40	24	-3	-1	0.9
10496	23	-2	-1	2	11	3	2	-1	-5	-5	182	-0.20	3	-3	6	5.8
10696	-5	6	-1	21	138	9	-1	-1	-5	-5	26	0.30	3	-3	-1	-0.5
10896	9	10	-1	48	278	3	2	-1	-5	-5	29	0.60	43	-3	-1	1.4
11096	-5	-2	-1	9	19	2	3	-1	-5	-5	85	-0.20	1	-3	-1	4.5
12896	-5	2	-1	33	263	5	4	-1	-5	-5	166	0.20	39	-3	-1	5.2
13096	-5	-2	-1	27	171	-1	2	-1	-5	-5	-10	0.80	28	-3	-1	1.4
13996	-5	296	-1	1	7	-1	-1	-1	-5	-5	-10	1.20	0	-3	-1	-0.5
14596	103	-2	-1	187	396	-1	1	-1	-5	-5	49	-0.20	15	6	-1	0.7
14996	10	3	2	42	293	5	3	-1	-5	44	56	0.40	28	18	-1	2.2
15696	16	3	-1	33	292	3	3	-1	-5	56	56	0.70	22	14	-1	1.8
15896	-5	2	2	92	263	1	3	-1	-5	11	23	0.30	23	9	-1	4.0
15996	-5	-2	2	4	16	1	3	-1	-5	-5	46	-0.20	2	-3	-1	-0.5
16096	-5	-2	-1	14	13	1	-1	-1	-5	-5	-10	-0.20	1	-3	-1	0.8
16196	-5	-2	-1	6	7	-1	-1	-1	-5	-5	-10	-0.20	0	-3	-1	-0.5
16296	-5	-2	5	77	291	-1	2	-1	-5	-5	-10	-0.20	23	5	-1	2.9
16496	4	-2	23	537	103	-1	1	-1	-5	-5	28	-0.20	17	6	-1	7.2
16596	50	20	-1	57	183	2	2	-1	-5	-5	17	1.60	53	4	-1	1.0
16796	6	-2	4	75	66	-1	1	-1	-5	8	-10	-0.20	9	-3	-1	0.9
16896	13	-2	-1	21	14	1	6	-1	-5	7	56	-0.20	3	-3	-1	5.4
17096	-5	-2	1	16	22	2	11	-1	-5	6	105	-0.20	3	-3	-1	16.2
17296	-5	-2	1	8	24	-1	1	-1	-5	30	18	0.50	1	6	-1	0.8
17396	-5	-2	1	8	10	-1	2	-1	-5	-5	66	0.30	0	-3	-1	0.9
17496	-5	-2	-1	7	87	1	2	-1	-5	1010	-10	0.20	2	-3	-1	11.7
17596	-5	-2	-1	39	106	1	8	-1	-5	-5	30	-0.20	37	-3	1	5.8
17696	-5	-2	1	59	142	-1	1	-1	-5	8	-10	-0.20	7	-3	-1	3.1
17996	-5	-2	-1	9	8	-1	-1	-1	-5	-5	97	-0.20	3	-3	-1	2.8
19096	98	351	-1	125	47	-1	-1	-1	-5	41	38	7.30	3	24	-1	0.9
19296	58	36	2	62	229	1	1	-1	-5	89	-10	3.90	8	19	-1	4.6

ID	Au_ppb	As_ppm	Br_ppm	Co_ppm	Cr_ppm	Cs_ppm	Hf_ppm	Hg_ppm	Ir_ppb	Mo_ppm	Rb_ppm	Sb_ppm	Sc_ppm	Se_ppm	Ta_ppm	Th_ppm
19396	-5	-2	1	7	113	-1	6	-1	-5	-5	36	-0.20	18	-3	-1	10.3
19496	14	-2	-1	46	154	2	7	-1	-5	8	88	0.40	28	-3	2	1.8
20496	-6	-2	-1	12	2	-1	-1	-1	-5	-5	140	-0.20	4	-3	-1	300.0
21096	6	41	-1	3	8	-1	-1	3	-5	-5	-10	7.20	0	-3	-1	0.6
21196	14	-2	2	10	32	2	1	-1	-5	-5	27	0.30	5	-3	-1	1.3
21696	-5	-2	-1	36	642	-1	1	-1	-5	-5	64	-0.20	47	-3	-1	-0.5
21796	-5	-2	1	16	114	6	4	-1	-5	-5	94	-0.20	14	-3	-1	3.7
21896	-5	-2	-1	13	80	1	3	-1	-5	-5	79	0.30	6	-3	2	5.2
22096	47	7	-1	3	13	-1	-1	-1	-5	7	-10	0.40	1	-3	-1	-0.5
22196	6	-2	2	2	-1	-1	-1	-1	-5	-5	189	1.10	2	-3	2	8.1
22396	-5	-2	23	186	165	-1	1	-1	-5	7	-10	0.20	23	-3	-1	-0.5
22496	9	22	-1	52	62	2	3	-1	-5	-5	-10	0.30	39	-3	-1	1.1
22596	-5	-2	2	56	390	6	1	-1	-5	-5	28	0.60	40	-3	-1	-0.5
22696	-5	-2	1	1	14	2	-1	-1	-5	4900	117	0.30	0	-3	-1	-0.5
23096	15	-2	-1	29	19	-1	-1	-1	-5	26	-10	-0.20	0	-3	-1	-0.5
23296	-5	-2	-1	26	8	-1	3	-1	-5	-5	-10	0.40	2	-3	-1	4.7
23496	-5	-2	-1	540	780	-1	-1	-1	-5	25	-10	1.30	17	-3	-1	-0.5
24696	-5	3	-1	65	461	-1	13	-1	-5	-5	-11	0.90	29	-3	-1	2.7
24796	6	-2	-1	40	311	-1	-1	2	-5	-5	-10	0.40	46	-3	-1	-0.5
25096	6	5	-1	85	1970	2	2	-1	-5	-5	32	0.90	34	-3	-1	3.8
25296	-5	-2	-1	35	31	4	3	-1	-5	-5	229	-0.20	13	-3	-1	13.9
25696	-5	-2	-1	41	2500	-1	1	-1	-5	-5	39	-0.20	38	-3	-1	-0.5
25596	10	-2	-1	9	15	1	1	-1	-5	-5	77	0.40	2	-3	-1	8.8
25996	-5	-2	-1	49	1290	3	2	-1	-5	-5	23	-0.20	20	3	-1	2.0
26196	-5	-2	-1	4	18	1	6	-1	-5	-5	39	0.20	2	-3	-1	17.6
26396	-5	-2	-1	45	85	5	1	-1	-5	280	87	0.30	19	-3	-1	12.0
26496	-5	-2	-1	74	115	19	2	-1	-5	-5	158	0.40	23	-3	-1	1.5
26596	58	3	-1	25	57	-1	1	-1	-5	8	-10	0.70	11	5	-1	2.3
26696	21	-2	-1	35	109	2	1	-1	-5	5	121	0.20	21	-3	-1	0.5
26796	-5	-2	-1	36	254	1	2	-1	-5	6	24	0.20	30	-3	-1	1.4
26896	13	2	-1	42	129	1	1	-1	-5	139	38	1.60	8	13	-1	1.1
27196	13	-2	-1	24	77	3	2	-1	-5	-5	48	-0.20	52	-3	-1	-0.5
27296	11	-2	-1	32	74	-1	3	-1	-5	14	41	-0.10	88	-3	-1	8.5
27396	-5	-2	-1	28	97	9	5	-1	-5	21	116	0.60	12	-3	-1	12.0
27496	-5	2	-1	3	8	-1	-1	-1	-5	-5	-10	0.50	0	-3	-1	-0.5

ID	Au_ppb	As_ppm	Br_ppm	Co_ppm	Cr_ppm	Cs_ppm	Hf_ppm	Hg_ppm	Ir_ppb	Mo_ppm	Rb_ppm	Sb_ppm	Sc_ppm	Se_ppm	Ta_ppm	Th_ppm
27596	121	-2	-1	17	244	-1	-1	-1	-5	-5	-10	-0.20	22	-3	-1	0.7
27796	5	72	-1	2	53	-1	-1	-1	-5	-5	-10	1.40	0	-3	-1	-0.5
28396	122	-2	3	3	-1	-1	-1	1	-5	-5	-10	164.00	29	12	-1	-0.5
28896	-5	-2	-1	42	26	-1	2	-1	-5	-5	35	0.80	15	-3	-1	9.8
29196	137	47	-1	71	125	3	1	3	-5	73	78	6.70	12	40	-1	3.0
29296	-5	-2	-1	42	283	-1	2	-1	-5	-5	-10	0.90	35	-3	-1	-0.5
29396	-5	-2	4	35	395	-1	-1	-1	-5	-5	-10	0.30	17	-3	-1	-0.5
29596	6	-2	-1	12	255	2	3	-1	-5	7	68	-0.20	20	-3	-1	0.6
29696	-5	-2	-1	292	83	-1	1	-1	-5	-5	-10	-0.20	20	-3	-1	5.5
29896	-5	-2	-1	50	255	-1	2	-1	-5	-5	26	-0.20	50	-3	-1	-0.5
30196	-5	6	-1	43	129	1	4	-1	-5	87	81	-0.20	8	-3	-1	11.3
30296	-5	29	-1	84	268	1	4	-1	-5	71	114	0.30	19	3	-1	19.4
30596	8	9	-1	84	25	-1	-1	-1	-5	12	-20	0.40	1	10	-1	-0.5
30796	78	24	-1	87	76	2	2	-1	-5	52	28	11.00	13	8	-1	1.6
30996	90	17	-1	49	120	3	2	-1	-5	61	41	8.90	23	8	-1	2.2
31196	5	-2	5	46	11	-1	-1	-1	-5	-5	-20	-0.20	0	15	-1	-0.5
31296	-5	-2	8	37	35	-1	3	-1	-5	-5	45	-0.20	26	-3	-1	3.0
31396	5	-2	7	9	12	1	-1	-1	-5	-5	-20	-0.20	2	-3	-1	0.5
31696	-5	-2	5	2	6	2	-1	-1	-5	-5	411	-0.20	0	-3	-1	-0.5
31796	-5	-2	2	2	11	-1	-1	-1	-5	73	-20	-0.20	0	-3	-1	-0.5
31996	5	-2	-1	19	46	-1	1	-1	-5	-5	-20	-0.20	4	-3	-1	0.8
32196	-5	-2	2	2	9	2	-1	-1	-5	-5	39	-0.20	1	-3	-1	2.5
32296	-5	4	-1	37	470	-1	5	-1	-5	-5	-20	0.30	20	-3	2	4.8
32396	23	34	-1	14	-5	-1	-1	39	-5	13	-20	36.50	0	-3	-1	-0.5
32496	-5	-2	-1	8	78	-1	6	-1	-5	5	-20	-0.20	8	-3	-1	17.0
32596	-5	-2	-1	29	190	-1	6	-1	-5	6	41	-0.20	28	-3	-1	18.0
32696	6	-2	-1	68	140	-1	2	-1	-5	-5	-20	-0.20	50	-3	-1	-0.5
32796	-5	-2	2	130	3320	14	-1	-1	-5	-5	110	0.20	11	-3	-1	-0.5
33496	-5	-2	-1	71	3000	-1	2	-1	-5	-5	-20	-0.20	17	-3	-1	-0.5
33896	-5	-2	-1	6	100	-1	4	-1	-5	-5	47	-0.20	3	-3	-1	0.6
33996	-5	-2	-1	-1	5	-1	-1	-1	-5	-5	-20	-0.20	0	-3	-1	-0.5
34196	-5	-2	4	24	160	4	3	-1	-5	-5	130	1.40	23	-3	-1	4.4
34296	7	-2	-1	46	56	-1	9	-1	-5	-5	-20	1.90	31	-3	-1	1.9
34596	8	-2	-1	50	260	-1	2	-1	-5	-5	-20	0.90	47	-3	-1	-0.5
35696	-5	-2	-1	110	1300	-1	1	-1	-5	-5	-20	0.70	20	-3	-1	-0.5

ID	Au_ppb	As_ppm	Br_ppm	Co_ppm	Cr_ppm	Cs_ppm	Hf_ppm	Hg_ppm	Ir_ppb	Mo_ppm	Rb_ppm	Sb_ppm	Sc_ppm	Se_ppm	Ta_ppm	Th_ppm
36096	-5	-2	1	33	500	-1	1	-1	-5	-5	-20	0.80	20	3	-1	0.5
36196	-5	-2	-1	3	17	-1	2	-1	-5	-5	70	0.70	1	-3	-1	6.2
36296	34	-2	2	36	62	2	2	-1	-5	7	-20	0.90	9	4	-1	2.6
36496	-5	-2	-1	720	23	-1	1	-1	-5	-5	-20	0.40	1	73	-1	1.4
36896	-5	4	-1	2	12	30	2	-1	-5	8	337	8.40	3	-3	2	7.4
36996	-5	-2	-1	10	35	1	2	-1	-5	-5	118	0.20	5	-3	2	3.6
37196	-5	-2	12	71	190	9	7	-1	-5	-5	-20	-0.20	34	-3	-1	1.9
37996	-5	-2	-1	120	2500	1	-1	-1	-5	-5	-20	-0.20	11	-3	-1	-0.5
38096	-5	-2	3	99	4100	-1	-1	-1	-5	-5	-20	0.30	27	-3	-1	-0.5
38196	-5	-2	-1	51	1400	12	3	-1	-5	-5	740	-0.20	37	-3	2	18.0
38296	-5	-2	2	130	4550	3	-1	-1	-5	-5	32	-0.20	15	-3	-1	-0.5
38696	-5	-2	5	130	4540	4	-1	-1	-5	-5	29	0.20	16	-3	-1	-0.5
38896	-5	-2	-1	79	2100	2	-1	-1	-5	-5	-20	-0.20	13	-3	-1	-0.5
39196	13	-2	-1	79	86	3	1	-1	-5	15	-20	-0.20	9	10	-1	5.1
39296	17	-2	1	19	70	-1	1	-1	-5	9	-20	0.20	7	5	-1	1.6
39396	13	-2	-1	86	10	3	3	-1	-5	-5	-20	-0.20	56	-3	-1	-0.5
39496	10	-2	-1	170	11	-1	4	-1	-5	-5	41	-0.20	58	7	-1	1.3
39596	23	-2	-1	44	100	-1	3	-1	-5	7	-20	0.30	15	4	-1	7.1
39696	-5	-2	4	470	39	-1	1	-1	-5	9	-20	-0.20	4	31	-1	2.7
39796	-5	-2	1	15	12	-1	-1	-1	-5	-5	-20	-0.20	0	8	-1	-0.5
39896	-5	-2	-1	16	19	-1	-1	-1	-5	-5	-20	-0.20	6	-3	-1	-0.5
39996	28	2	-1	39	70	-1	1	-1	-5	19	-20	0.30	13	5	-1	0.7
40096	-5	-2	-1	8	39	1	-1	-1	-5	40	-20	-0.20	4	-3	-1	-0.5
40196	-5	-2	-1	53	250	20	2	-1	-5	-5	236	0.40	49	-3	-1	-0.5
40396	49	8	-1	100	37	-1	1	-1	-5	25	27	7.70	4	10	-1	0.6
40596	-5	-2	-1	4	3	-1	-1	-1	-5	-5	-20	-0.20	0	-3	-1	-0.5
40696	-5	-2	-1	49	58	-1	3	-1	-5	9	-20	-0.20	46	-3	-1	0.6
40796	-5	-2	-1	15	55	6	3	-1	-5	-5	101	-0.20	10	-3	-1	3.5
41296	-5	-2	-1	1	14	-1	-1	-1	-5	-5	-20	-0.20	0	-3	-1	1.1
41796	-5	-2	9	120	4300	-1	1	-1	-5	-5	-20	-0.20	13	-3	-1	0.6
41996	61	-2	-1	501	220	-1	-1	-1	-5	-5	-20	-0.20	22	12	-1	-0.5
42096	49	530	-1	31	76	2	-1	-1	-5	22	-20	5.40	9	5	-1	1.8
42196	-5	-2	-1	31	37	7	6	-1	-5	-5	72	0.30	20	-3	-1	2.0
42496	42	19	2	4	37	-1	-1	-1	-5	32	-10	9.50	4	9	-1	-0.5
42596	10	-2	-1	10	52	-1	1	-1	-5	6	-10	-0.20	2	4	-1	1.2

ID	Au_ppb	As_ppm	Br_ppm	Co_ppm	Cr_ppm	Cs_ppm	Hf_ppm	Hg_ppm	Ir_ppb	Mo_ppm	Rb_ppm	Sb_ppm	Sc_ppm	Se_ppm	Ta_ppm	Th_ppm
43096	-5	-2	-1	20	160	8	4	-1	-5	-5	163	0.40	22	-3	2	11.0
43196	-5	22	-1	1	10	-1	-1	7	-5	-5	-10	180.00	0	-3	-1	-0.5
43396	-5	-2	-1	12	9	2	1	-1	-5	-5	-10	-0.20	1	-3	-1	1.4
44096	-5	-2	-1	8	76	2	2	-1	-5	-5	30	0.70	7	-3	-1	3.2
44396	-5	-2	-1	7	81	-1	2	-1	-5	-5	41	1.30	14	-3	-1	0.6
44796	70	27	-1	1	5	-1	-1	-1	-5	-5	-10	483.00	0	-3	-1	-0.5
45296	7	18	2	150	26	-1	1	-1	-5	26	-10	1.40	6	8	-1	0.5
45396	15	-2	2	15	110	3	1	-1	-5	-5	22	2.20	7	-3	-1	1.7
45496	-5	4	-1	3	38	1	4	-1	-5	-5	61	1.00	2	-3	-1	4.9
45596	12	-2	-1	10	97	-1	1	-1	-5	-5	-10	-0.20	20	-3	-1	-0.5
45996	-5	-2	2	6	12	-1	18	-1	-5	-5	-10	0.40	5	-3	-1	-0.5
46196	29	85	-1	5	8	3	4	-1	-5	8	119	0.70	8	-3	-1	6.1
46396	-5	960	-1	3	9	-1	-1	5	-5	-5	-10	350.00	0	5	-1	-0.5
46796	13	-2	-1	21	13	-1	19	-1	-5	-5	-10	-0.10	5	10	-1	43.0
46896	24	-2	-1	56	4	-1	4	-1	-5	10	-10	0.20	7	128	-1	-0.5
46996	13	5	7	84	160	-1	2	-1	-5	7	-10	2.40	36	-3	-1	-0.5
47696	14	-2	-1	29	140	-1	13	-1	-5	-5	-10	0.60	44	-3	-1	5.6
48196	-5	5	-1	3	22	-1	1	-1	-5	-5	-10	0.60	3	8	-1	1.9
48796	-5	-2	-1	3	6	-1	4	-1	-5	-5	-10	0.40	4	-3	-1	-0.5
49196	6	-2	-1	76	440	-1	10	-1	-5	5	-10	0.50	25	-3	8	8.8
49296	7	-2	-1	36	220	5	-1	-1	-5	-5	260	0.30	15	-3	-1	17.0
50596	-5	66	-1	11	14	-1	3	-1	-5	-5	-10	0.50	10	-3	-1	9.5
50796	-5	-2	-1	13	59	3	2	-1	-5	-5	-10	0.30	10	-3	-1	3.3
51196	238	72	-1	33	140	-1	1	-1	-5	93	19	34.00	8	-3	-1	1.0
51696	28	13	-1	23	130	1	7	-1	-5	10	217	0.40	2	-3	-1	5.4
51896	11	4	4	58	3100	3	1	-1	-5	-5	70	0.50	16	-3	-1	-0.5
51996	-5	-2	-1	1	5	3	2	-1	-5	-5	289	0.50	1	-3	-1	3.0
52596	-5	4	1	1	6	1	-1	-1	-5	-5	39	0.60	0	-3	-1	0.5
53396	-5	6	2	8	74	3	1	-1	-5	32	55	-0.20	8	-3	-1	2.8
53496	-5	-2	-1	41	260	-1	1	-1	-5	-5	-20	0.30	28	-3	-1	-0.5
54596	10	73	-1	48	70	-1	-1	-1	-5	-5	-20	3.60	5	-3	-1	4.8
54996	-5	-2	-1	35	28	-1	-1	-1	-5	-5	120	-0.20	14	-3	1	0.7
55096	35	4	1	5	19	-1	-1	-1	-5	-5	-20	0.30	2	-3	-1	-0.5
55196	6	3	-1	8	18	-1	-1	-1	-5	-5	-20	-0.20	1	-3	-1	-0.5
55296	5	7	-1	19	96	1	8	-1	-5	7	45	0.30	11	-3	-1	13.0

ID	Au_ppb	As_ppm	Br_ppm	Co_ppm	Cr_ppm	Cs_ppm	Hf_ppm	Hg_ppm	Ir_ppb	Mo_ppm	Rb_ppm	Sb_ppm	Sc_ppm	Se_ppm	Ta_ppm	Th_ppm
55396	7	-2	-1	11	53	2	3	-1	-5	6	56	-0.20	8	-3	-1	5.0
56596	-5	28	-1	29	240	2	2	2	-5	-5	52	0.70	16	-3	-1	2.8
56696	14	190	-1	2	45	-1	-1	-1	-5	-5	-20	0.90	1	-3	-1	-0.5
56796	5	-2	-1	16	140	-1	-1	-1	-5	-5	-20	0.20	24	3	-1	-0.5
56896	21	3	-1	120	180	-1	3	-1	-5	-5	-20	-0.20	65	-3	-1	-0.5
57496	22	-2	-1	4	8	7	-1	-1	-5	-5	261	0.30	1	-3	-1	1.0
57696	-5	52	-1	17	110	6	5	-1	-5	27	191	6.30	16	9	-1	12.0
58596	7	16	-1	7	-2	-1	-1	-1	-5	-5	-20	0.20	5	-3	-1	1.3
58696	-5	-2	3	28	160	1	3	-1	-5	-5	120	0.40	15	-3	-1	6.8
58796	-5	4	-1	8	10	1	-1	-1	-5	-5	25	-0.20	4	-3	-1	0.6
58896	-5	2	-1	94	760	1	3	-1	-5	-5	-20	-0.20	34	-3	-1	1.5
59096	128	3	-1	8	10	-1	-1	-1	-5	-5	-20	-0.20	2	-3	-1	-0.5
59196	273	-2	-1	12	39	-1	-1	-1	-5	-5	-20	-0.20	80	-3	-1	2.3
59396	-5	4	-1	6	14	1	1	-1	-5	5	-20	-0.20	13	-3	-1	8.3
59596	-5	3	-1	8	110	2	4	-1	-5	11	88	-0.20	5	-3	-1	23.0
59796	8	-2	-1	29	130	2	6	-1	-5	13	138	-0.20	7	-3	-1	32.0
60096	15300	760	1	110	88	3	3	-1	-5	-5	131	2.80	15	-3	4	5.4
60196	13700	230	-1	100	170	4	4	-1	-5	-5	172	1.50	20	-3	5	7.4
60296	125	-2	-1	43	480	2	5	-1	-5	-5	-20	-0.20	29	-3	3	5.9
60396	-5	-2	-1	4	140	-1	5	-1	-5	-5	73	-0.20	12	-3	-1	4.9
60696	93	72	-1	500	62	2	1	-1	-5	26	31	6.90	3	10	-1	1.4
61196	-5	-2	-1	27	9	-1	6	-1	-5	-5	-20	0.30	17	-3	3	3.4
61396	-5	-2	-1	13	5	-1	4	-1	-5	6	154	-0.20	5	-3	-1	5.6
61796	-5	-2	-1	160	39	-1	1	-1	-5	-5	-20	-0.20	36	-3	-1	0.7
62596	-5	-2	-1	53	670	-1	1	-1	-5	-5	-20	-0.20	45	-3	1	0.9
62896	-5	-2	-1	15	72	2	6	-1	-5	-5	79	-0.20	29	-3	-1	5.2
62996	-5	-2	7	2	8	-1	-1	-1	-5	-5	-20	-0.20	0	-3	-1	-0.5
63096	-5	-2	3	4	14	-1	-1	-1	-5	-5	-20	-0.20	2	-3	-1	-0.5
63396	-5	-2	-1	15	43	-1	6	-1	-5	-5	-20	0.30	3	-3	-1	13.0
63496	-5	-2	1	1	25	2	2	-1	-5	-5	85	-0.20	1	-3	-1	1.7
63596	-5	-2	-1	1	28	5	4	-1	-5	12	101	0.20	5	-3	-1	17.0
63996	-5	4	-1	20	170	3	3	-1	-5	22	130	0.70	11	17	1	11.0
64196	13	-2	-1	31	32	-1	1	-1	-5	-5	-20	-0.20	3	10	-1	0.8
64896	8	-2	-1	7	15	-1	-1	-1	-5	-5	-20	-0.20	0	-3	-1	-0.5
64996	63	10	-1	25	81	2	1	-1	-5	200	52	18.00	7	24	-1	2.2

ID	Au_ppb	As_ppm	Br_ppm	Co_ppm	Cr_ppm	Cs_ppm	Hf_ppm	Hg_ppm	Ir_ppb	Mo_ppm	Rb_ppm	Sb_ppm	Sc_ppm	Se_ppm	Ta_ppm	Th_ppm
65996	27	-2	-1	54	9	2	5	-1	-5	-5	56	0.30	13	-3	-1	7.7
66396	11	-2	-1	6	33	2	1	-1	-5	-5	-20	-0.20	5	-3	-1	-0.5
66496	7	-2	2	3	32	-1	1	-1	-5	-5	-20	-0.20	5	-3	-1	0.8
66796	23	-2	-1	150	160	-1	4	-1	-5	-5	-20	-0.20	72	4	-1	-0.5
66896	-5	-2	-1	25	40	3	2	-1	-5	-5	64	-0.20	12	-3	-1	0.5
67196	-5	4	1	6	17	-1	-1	-1	-5	-5	-20	0.90	1	-3	-1	-0.5
67296	-5	-2	-1	12	16	-1	-1	-1	-5	6	-20	-0.20	2	-3	-1	1.8
67396	-5	-2	-1	5	40	-1	-1	-1	-5	11	-20	-0.20	2	3	-1	-0.5
67496	-5	-2	-1	4	24	-1	-1	-1	-5	11	-20	-0.20	0	-3	-1	0.6
67596	-5	-2	-1	30	20	-1	-1	-1	-5	36	-20	-0.20	3	5	-1	1.9
67996	5	-2	-1	26	-2	-1	7	-1	-5	-5	-20	-0.20	47	-3	-1	-0.5
68096	-5	-2	-1	64	10	-1	2	-1	-5	-5	-20	-0.20	69	-3	-1	-0.5
68396	5	-2	-1	25	11	-1	-1	-1	-5	-5	-20	-0.20	1	-3	-1	-0.5
68496	-5	-2	-1	65	130	-1	1	-1	-5	-5	-20	-0.20	48	-3	-1	-0.5
68696	64	-2	2	47	250	2	3	-1	-5	-5	76	-0.20	60	-3	-1	2.7
69096	40	-2	2	59	50	-1	1	-1	-5	-5	-20	-0.20	5	5	-1	0.8
69196	-5	-2	-1	59	10	-1	5	-1	-5	17	73	-0.20	9	-3	-1	23.0
69396	-5	-2	-1	4	18	-1	4	-1	-5	-5	70	-0.20	3	-3	-1	14.6
70096	-5	-2	-1	15	25	-1	-1	-1	-5	-5	40	-0.20	3	-3	-1	1.1
70396	-5	6	-1	81	110	6	11	-1	-5	9	181	1.10	14	-3	9	12.0
70596	-5	7	-1	7	22	2	3	-1	-5	-5	52	0.40	6	-3	-1	1.4
71396	-5	-2	-1	140	530	-1	-1	-1	-5	-5	-20	-0.20	37	-3	-1	1.1
71496	-5	-2	4	4	18	-1	2	-1	-5	-5	-20	-0.20	3	-3	-1	1.2
71596	30	3	3	300	57	2	1	-1	-5	-5	34	-0.20	3	16	-1	1.0
71696	13	-2	3	73	240	1	1	-1	-5	-5	-20	-0.20	8	-3	-1	1.6
71896	-5	-2	-1	12	44	-1	4	-1	-5	-5	-20	-0.20	9	-3	-1	-0.5
72396	7	2	-1	62	350	-1	1	-1	-5	-5	-20	-0.20	48	-3	-1	-0.5
72696	-5	-2	-1	19	37	-1	12	-1	-5	-5	-20	-0.20	10	-3	-1	0.8
72896	33	-2	-1	45	50	-1	1	-1	-5	-5	-20	-0.20	7	-3	-1	1.3
73196	-5	-2	-1	69	1800	-1	1	-1	-5	-5	-20	-0.20	32	-3	-1	1.0
73796	9	-2	-1	16	34	1	1	-1	-5	-5	-20	-0.20	3	-3	-1	0.8
74596	1020	4	-1	83	110	-1	4	-1	-5	-5	-20	0.90	23	12	-1	2.7
74696	-5	15	-1	3	34	2	6	-1	-5	-5	126	0.50	5	-3	-1	27.0
74896	82	-2	-1	250	550	-1	1	-1	-5	6	44	-0.20	28	10	-1	1.0
74996	68	580	-1	210	65	-1	1	-1	-5	84	-20	5.40	5	32	-1	0.9

ID	Au_ppb	As_ppm	Br_ppm	Co_ppm	Cr_ppm	Cs_ppm	Hf_ppm	Hg_ppm	Ir_ppb	Mo_ppm	Rb_ppm	Sb_ppm	Sc_ppm	Se_ppm	Ta_ppm	Th_ppm
75096	333	530	-1	230	54	-1	1	-1	-5	48	-20	4.00	4	28	-1	1.2
75296	13	3	-1	8	28	1	2	-1	-5	9	-20	0.80	15	-3	-1	1.0
75396	24	2	-1	9	17	-1	2	-1	-5	-5	-20	-0.20	19	-3	-1	-0.5
75196	139	520	-1	220	43	-1	1	-1	-5	75	-20	4.20	5	20	-1	0.9
76496	11	41	-1	8	25	-1	1	-1	-5	-5	-20	19.00	6	16	-1	1.9
76596	-5	82	-1	5	18	-1	1	-1	-5	-5	-20	1.00	2	30	-1	1.5
76996	6	-2	-1	55	71	2	10	-1	-5	-5	45	-0.20	29	-3	-1	0.8
77896	-5	-2	-1	71	260	2	9	-1	-5	-5	106	-0.20	28	-3	6	4.9
78196	8	-2	-1	26	9	-1	-1	-1	-5	24	-20	-0.20	1	4	-1	-0.5
78296	7	4	-1	4	29	-1	1	-1	-5	-5	-20	0.40	5	13	-1	2.3
78396	-5	100	-1	15	31	-1	2	-1	-5	-5	-20	3.20	5	35	-1	2.7
78496	10	59	-1	5	31	-1	2	-1	-5	-5	-20	4.70	4	9	-1	2.3
78896	-5	11	-1	-1	4	1	-1	-1	-5	-5	-20	-0.20	1	-3	-1	0.5
79196	-5	-2	-1	73	4300	1	-1	-1	-5	-5	-20	-0.20	18	-3	-1	0.8
79296	-5	-2	-1	31	34	-1	1	-1	-5	26	-20	-0.20	4	3	-1	3.9
79396	-5	-2	-1	12	31	1	-1	-1	-5	50	-20	-0.20	1	3	-1	1.3
79496	-5	-2	-1	11	9	-1	-1	-1	-5	14	-20	-0.20	2	-3	-1	1.8
79596	12	-2	-1	24	20	-1	1	-1	-5	36	-20	-0.20	3	-3	-1	2.8
80196	15	-2	-1	60	180	-1	6	-1	-5	22	105	-0.20	9	-3	-1	13.0
80696	-5	-2	-1	4	13	-1	5	-1	-5	-5	126	-0.20	5	-3	-1	7.3
80796	-5	-2	-1	1	14	4	3	-1	-5	-5	369	-0.20	0	-3	-1	8.2
81196	-5	-2	2	140	33	-1	1	-1	-5	-5	-20	-0.20	4	3	-1	-0.5
81296	-5	-2	-1	6	16	1	5	-1	-5	-5	26	-0.20	0	3	-1	0.9
81396	6	-2	-1	29	150	1	3	-1	-5	-5	29	-0.20	23	-3	-1	0.5
81596	-5	-2	-1	62	77	-1	1	-1	-5	-5	-20	-0.20	51	-3	-1	-0.5
81696	-5	-2	-1	6	17	-1	-1	-1	-5	-5	-20	-0.20	0	-3	-1	-0.5
81796	-5	-2	-1	59	100	7	4	-1	-5	-5	299	-0.20	46	-3	11	4.3
82296	-5	-2	1	3	20	1	1	-1	-5	-5	40	-0.20	1	-3	-1	1.4
82396	-5	2	2	15	130	5	3	-1	-5	-5	99	-0.20	12	-3	-1	5.5
82496	-5	14	3	1	25	-1	-1	-1	-5	-5	-20	0.20	0	-3	-1	-0.5
82896	-5	9	-1	24	45	-1	1	-1	-5	-5	-20	-0.20	6	-3	-1	9.2
82996	7	13	-1	61	62	-1	1	-1	-5	-5	-20	-0.20	8	7	-1	12.0
83096	-5	-2	-1	11	21	6	17	-1	-5	-5	49	-0.20	4	5	-1	6.0
83196	-5	3	2	8	52	-1	1	-1	-5	-5	-20	-0.20	3	-3	-1	5.9
83296	9	-2	-1	38	190	-1	6	-1	-5	13	30	-0.20	16	-3	-1	6.3

ID	Au_ppb	As_ppm	Br_ppm	Co_ppm	Cr_ppm	Cs_ppm	Hf_ppm	Hg_ppm	Ir_ppb	Mo_ppm	Rb_ppm	Sb_ppm	Sc_ppm	Se_ppm	Ta_ppm	Th_ppm
83396	-5	-2	-1	19	21	1	1	-1	-5	19	-20	-0.20	2	3	-1	2.3
83496	-5	-2	-1	43	240	2	5	-1	-5	9	50	-0.20	20	-3	-1	4.9
83596	-5	3	-1	4	32	-1	-1	-1	-5	-5	-20	-0.20	7	-3	-1	-0.5
84096	10	45	-1	34	65	6	5	-1	-5	42	168	0.20	14	10	-1	15.0
84196	9	-2	-1	25	57	-1	-1	-1	-5	6	-20	-0.20	15	-3	-1	0.7
84296	5	2	-1	4	35	1	-1	-1	-5	-5	-20	0.20	1	-3	-1	0.6
84496	8	-2	3	84	500	-1	3	-1	-5	-5	38	-0.20	17	-3	-1	2.8
84596	-5	-2	-1	8	180	-1	4	-1	-5	100	35	-0.20	10	13	-1	15.0
84696	-5	-2	6	53	3200	-1	-1	-1	17	-5	-20	-0.20	5	-3	-1	-0.5
84996	68	-2	-1	150	800	-1	2	-1	-5	-5	34	0.30	37	4	-1	-0.5
85096	148	4	-1	160	900	-1	2	-1	-5	-5	38	-0.20	42	5	-1	0.8
85196	16000	630	-1	56	48	1	1	-1	-5	-5	-20	4.30	4	-3	1	1.6
85296	66	9	-1	31	12	-1	6	-1	-5	-5	53	0.70	10	-3	3	7.3
85496	-5	4	-1	13	240	-1	1	-1	-5	200	54	-0.20	9	17	-1	4.2
85596	-5	-2	19	9	86	-1	-1	-1	-5	-5	-20	-0.20	8	-3	-1	1.2
85796	-5	-2	-1	6	20	-1	1	-1	-5	-5	24	-0.20	1	-3	-1	1.0
85896	-5	8	-1	15	55	-1	3	-1	-5	-5	28	0.70	40	-3	1	1.5
85996	9	4	2	7	110	-1	2	-1	-5	7	60	-0.20	28	-3	-1	1.7
86396	-5	-2	-1	12	7	1	1	-1	-5	-5	-20	-0.20	1	-3	-1	2.6
86496	-5	-2	7	77	45	-1	3	-1	-5	-5	45	-0.20	6	-3	-1	1.2
86696	7100	220	-1	44	22	2	-1	-1	-5	-5	-20	1.30	3	-3	-1	1.2
86796	9	3	-1	9	56	-1	2	-1	-5	14	-20	1.40	2	8	-1	1.9
87296	-5	-2	3	67	14	-1	8	-1	-5	-5	127	-0.20	11	-3	-1	12.0
87396	-5	3	-1	32	260	2	2	-1	-5	-5	57	0.30	39	-3	-1	1.0
87596	-5	-2	-1	67	450	2	13	-1	-5	-5	49	-0.20	23	-3	7	4.2
87896	-5	-2	-1	19	84	1	2	-1	-5	7	38	4.20	12	-3	-1	4.7
87996	5820	420	1	64	34	-1	-1	-1	-5	-5	32	3.70	3	-3	-1	1.4
88096	-5	-2	-1	65	530	4	8	-1	-5	-5	73	-0.20	54	-3	-1	3.8
88196	-5	8	-1	11	9	-1	-1	-1	-5	-5	-20	0.30	1	-3	-1	-0.5
88396	29	-2	1	76	17	-1	-1	-1	-5	8	-20	-0.20	1	15	-1	-0.5
88496	2260	260	-1	66	500	6	6	-1	-5	-5	239	0.30	35	-3	8	12.0
89496	-5	-2	37	9	69	2	3	-1	-5	-5	-20	-0.20	6	-3	-1	3.9
89796	1130	490	-1	44	24	2	3	-1	-5	-5	60	-0.20	10	-3	2	2.7
89896	1380	290	-1	54	340	7	4	-1	-5	-5	284	2.30	42	-3	8	11.0
89996	6	2	9	79	1300	-1	4	-1	-5	-5	23	-0.20	12	-3	10	8.4

ID	Au_ppb	As_ppm	Br_ppm	Co_ppm	Cr_ppm	Cs_ppm	Hf_ppm	Hg_ppm	Ir_ppb	Mo_ppm	Rb_ppm	Sb_ppm	Sc_ppm	Se_ppm	Ta_ppm	Th_ppm
90096	7	-2	-2	-3	26	-1	580	-1	-5	-5	-20	-0.20	6	-3	235	49.0
90196	-5	-2	-1	21	73	1	4	-1	-5	-5	33	-0.20	14	-3	1	10.0
90396	12	-2	2	52	320	1	3	-1	-5	-5	-20	-0.20	25	-3	-1	3.2
90896	-5	4	-1	11	50	2	3	-1	-5	-5	36	0.40	10	-3	-1	1.2
91096	-5	22	-1	75	130	-1	3	-1	-5	-5	-20	-0.20	19	4	-1	3.8
91196	79	-2	-1	450	54	3	2	-1	-5	-5	-20	-0.20	13	7	-1	0.5
91596	18	44	-1	45	240	2	5	-1	-5	-5	114	-0.20	94	-3	-1	9.8
91796	21	3	-1	27	71	2	2	-1	-5	-5	205	-0.20	14	-3	-1	5.1
91896	19	2	-1	38	140	3	4	-1	-5	-5	116	-0.20	3	-3	-1	12.0
92096	-5	7	-1	11	92	4	10	-1	-5	-5	80	0.50	12	-3	-1	23.0
92496	33	4	2	69	280	1	12	-1	-5	15	73	-0.20	5	-3	8	1.3
93696	24	-2	-1	64	16	2	8	-1	-5	-5	34	-0.20	23	-3	-1	2.0
93796	5	-2	-1	11	23	-1	15	-1	-5	-5	-20	-0.20	5	-3	-1	5.5
93896	66	-2	2	66	56	-1	1	-1	-5	11	-20	0.30	7	-3	-1	2.0

U_ppm	W_ppm	La_ppm	Ce_ppm	Nd_ppm	Sm_ppm	Eu_ppm	Tb_ppm	Yb_ppm	Lu_ppm	MASS
11	-3	690	1300	500	80.00	1.50	3.20	-0.20	-0.05	1.53
1	490	14	34	22	4.10	0.40	0.70	1.50	0.24	1.42
2	6	8	14	6	1.30	0.30	-0.50	1.70	0.22	1.12
-1	8	-1	3	-5	0.30	-0.10	-0.50	-0.20	-0.05	1.18
3	3	1	8	-5	0.50	-0.10	-0.50	8.30	1.26	1.30
1	-3	19	36	13	2.60	1.00	1.10	1.40	0.22	1.58
1	-3	37	62	22	2.60	0.70	-0.50	0.60	0.08	1.57
1	-3	13	20	7	0.90	0.70	-0.50	-0.10	-0.05	1.70
-1	-3	1	-3	-5	0.10	-0.10	-0.50	-0.10	-0.05	1.99
-1	-3	9	24	17	4.60	0.80	0.70	2.10	0.29	1.66
1	-3	8	16	10	1.60	0.50	-0.50	0.90	0.14	1.52
-1	-3	-1	5	-5	0.40	-0.10	-0.50	0.30	0.06	1.33
1	-3	76	161	68	7.80	2.10	-0.50	0.60	0.07	1.85
4	-3	3	7	-5	0.50	-0.10	-0.50	-0.10	-0.05	1.61
2	-3	10	22	11	1.70	0.50	-0.50	1.60	0.22	1.65
1	-3	5	14	7	1.30	0.50	-0.50	1.10	0.15	2.02
-1	-3	3	5	-5	0.60	0.20	-0.50	0.60	0.10	2.08
5	56	138	272	124	17.30	3.10	1.50	3.10	0.42	1.27
2	9	51	109	49	7.00	1.20	0.60	1.60	0.24	1.48
3	8	121	235	124	17.70	5.30	1.30	1.10	0.14	1.56
1	-3	49	106	59	10.50	3.30	1.10	2.50	0.34	1.49
1	-3	32	66	24	3.80	0.50	-0.50	-0.10	-0.05	1.31
-1	-3	6	15	9	2.40	0.70	-0.50	1.80	0.25	2.37
2	-3	-1	-3	-5	-0.10	0.50	-0.50	0.80	0.14	1.31
-1	-3	25	64	53	9.40	2.80	1.10	1.30	0.18	2.10
180	-3	3590	5200	1900	220.00	27.40	32.00	34.30	3.55	1.42
-1	-3	17	35	16	2.20	0.40	-0.50	0.30	0.06	1.64
-1	-3	11	32	17	3.30	0.60	-0.50	1.40	0.21	1.18
2	-3	32	55	22	4.10	0.70	-0.50	1.90	0.28	1.44
-1	-3	-1	-3	-5	-0.10	-0.10	-0.50	-0.10	-0.05	1.22
1	-3	14	31	12	1.90	0.30	-0.50	0.50	0.08	1.70
7	14	592	1000	530	68.00	22.50	6.20	4.80	0.86	1.43
-1	-3	1	-3	-5	0.10	-0.10	-0.50	-0.10	-0.05	1.55
7	-3	6	16	5	1.50	0.50	-0.50	1.60	0.30	2.52
-1	-3	13	22	5	0.80	0.80	-0.50	0.30	-0.05	1.61

U_ppm	W_ppm	La_ppm	Ce_ppm	Nd_ppm	Sm_ppm	Eu_ppm	Tb_ppm	Yb_ppm	Lu_ppm	MASS
19	-3	7	19	7	1.30	0.60	-0.50	0.90	0.17	1.87
-1	-3	6	5	7	2.00	0.60	0.70	1.60	0.22	2.80
-1	-3	1	-3	-5	0.10	-0.10	-0.50	-0.10	-0.05	1.91
5	-3	34	69	28	4.30	1.20	-0.50	1.60	0.25	1.28
2	-3	19	39	18	2.80	0.90	0.50	1.20	0.17	1.83
4	-3	22	46	24	3.60	1.20	-0.50	1.70	0.21	1.37
-1	-3	6	14	8	1.90	0.70	-0.50	1.10	0.19	1.35
4	-3	5	10	5	1.10	-0.10	-0.50	2.90	0.44	1.24
-1	-3	-1	-3	-5	0.20	-0.10	-0.50	0.20	-0.05	1.42
1	-3	6	16	10	2.40	0.90	-0.50	2.20	0.31	1.97
-1	-3	32	50	15	1.60	-0.10	-0.50	-0.10	-0.05	1.44
2	-3	22	42	19	3.30	1.00	-0.50	1.80	0.25	1.68
1	-3	3	8	-5	0.70	0.30	-0.50	2.90	0.40	1.43
-1	-3	-1	-3	-5	-0.10	-0.10	-0.50	-0.10	-0.05	2.75
-1	-3	32	70	36	5.10	1.30	-0.50	0.80	0.15	1.80
10	5	12	28	13	3.50	0.90	0.70	3.10	0.49	1.55
12	5	14	34	17	3.70	1.10	0.90	3.20	0.56	1.66
5	-3	10	24	11	2.80	0.90	0.60	2.40	0.33	1.75
-1	-3	8	12	-5	0.60	0.40	-0.50	-0.10	-0.05	1.76
1	-3	1	4	-5	0.30	0.20	-0.50	0.50	0.09	1.61
-1	-3	-1	-3	-5	-0.10	-0.10	-0.50	0.10	-0.05	1.58
1	-3	11	23	11	2.00	0.70	-0.50	2.00	0.30	1.66
1	-3	36	67	26	3.80	1.00	-0.50	0.70	0.13	1.83
-1	-3	5	18	10	3.90	1.40	1.10	3.80	0.55	1.45
2	-3	6	15	5	1.00	0.50	-0.50	0.80	0.11	2.14
13	-3	8	20	7	1.10	0.60	-0.50	0.30	-0.05	1.43
10	-3	38	65	24	4.10	0.70	-0.50	0.70	0.16	1.57
-1	-3	4	8	-5	0.50	0.10	-0.50	0.30	-0.05	1.41
1	-3	3	4	-5	0.20	0.50	-0.50	0.50	0.06	1.32
4	-3	4	11	5	0.70	0.30	-0.50	-0.10	-0.05	1.28
1	-3	41	115	66	14.90	2.80	1.80	6.40	0.90	1.61
1	-3	11	24	10	1.80	1.00	-0.50	1.30	0.20	1.68
-1	-3	69	147	73	11.30	1.70	1.10	0.60	0.07	1.50
2	-3	2	7	-5	0.50	-0.10	-0.50	0.50	0.09	1.82
18	7	20	35	16	3.60	1.50	0.80	2.80	0.46	1.75

U_ppm	W_ppm	La_ppm	Ce_ppm	Nd_ppm	Sm_ppm	Eu_ppm	Tb_ppm	Yb_ppm	Lu_ppm	MASS
1	-3	48	93	37	5.70	1.00	0.80	3.00	0.39	1.71
2	-3	57	177	162	25.60	6.60	2.40	2.90	0.37	1.32
5	-3	1130	1900	590	42.00	1.50	-0.50	-0.20	-0.05	1.24
-1	-3	5	9	-5	0.70	0.10	-0.50	0.20	-0.05	1.94
-1	4	8	18	7	1.20	0.60	-0.50	0.80	0.13	2.12
-1	-3	30	93	66	11.50	2.20	-0.50	2.60	0.33	1.42
-1	-3	2	6	-5	0.70	0.60	-0.50	1.30	0.19	1.60
1	-3	7	15	6	1.10	0.40	-0.50	0.50	0.07	1.31
4	4	3	5	-5	0.60	0.30	-0.50	0.70	0.10	2.26
-1	-3	5	25	14	5.80	-0.10	1.60	5.50	0.51	1.14
-1	-3	1	3	-5	0.40	0.20	-0.50	0.70	0.14	2.25
-1	-3	8	23	14	3.20	1.10	0.80	3.10	0.43	1.84
-1	-3	2	6	6	1.30	0.40	-0.50	1.50	0.20	2.02
-1	7	-1	-3	-5	-0.10	0.30	-0.50	-0.10	-0.05	1.73
-1	-3	-1	-3	-5	-0.10	-0.10	-0.50	-0.10	-0.05	1.51
-1	-3	12	26	8	1.40	0.50	-0.50	0.20	-0.05	1.50
-1	17000	3	-3	-5	1.50	1.00	-0.50	4.90	0.24	1.60
-1	10	15	143	12	3.20	1.40	-0.50	2.60	0.38	0.86
-1	257	2	8	6	1.70	0.80	0.60	2.10	0.32	1.17
2	-3	36	86	34	5.10	1.10	-0.50	0.90	0.17	1.24
1	6	46	95	34	4.20	0.70	-0.50	0.50	0.05	1.33
-1	-3	19	55	24	3.40	1.00	-0.50	1.70	0.25	1.56
2	-3	26	49	18	2.50	0.60	-0.50	0.30	-0.05	1.30
-1	-3	4	15	8	2.30	1.00	0.60	2.00	0.27	1.55
1	-3	11	24	9	0.90	0.20	-0.50	0.20	-0.05	1.42
7	-3	2	7	-5	1.60	0.40	0.70	2.10	0.34	1.51
-1	-3	14	33	18	3.20	1.40	-0.50	1.70	0.21	1.79
3	-3	21	56	24	4.80	1.50	2.00	4.50	0.63	1.64
1	-3	40	89	34	7.60	1.80	0.80	2.00	0.28	1.74
1	-3	7	16	6	1.80	0.70	-0.50	1.60	0.27	1.77
12	9	6	17	6	1.40	0.30	-0.50	1.80	0.29	1.36
-1	-3	3	10	8	2.50	0.90	-0.50	3.50	0.52	1.61
-1	-3	31	68	35	8.30	2.80	1.90	3.00	0.43	1.94
9	-3	44	87	35	6.20	2.20	-0.50	2.30	0.33	1.71
-1	-3	1	3	-5	0.20	-0.10	-0.50	-0.10	-0.05	1.90

U_ppm	W_ppm	La_ppm	Ce_ppm	Nd_ppm	Sm_ppm	Eu_ppm	Tb_ppm	Yb_ppm	Lu_ppm	MASS
1	5	1	3	-5	0.40	0.20	0.60	0.50	0.08	1.48
-1	-3	1	-3	-5	0.10	-0.10	-0.50	0.10	-0.05	1.57
-1	-3	1	-3	-5	-0.10	-0.10	-0.50	1.70	0.33	1.79
3	4	108	233	107	14.10	3.20	0.90	1.10	0.16	1.34
14	5	9	25	9	1.80	0.60	-0.50	1.80	0.29	1.48
-1	-3	3	9	5	2.20	0.90	-0.50	2.00	0.29	1.72
-1	-3	4	10	-5	1.60	0.60	-0.50	1.10	0.17	1.01
-1	-3	16	31	14	2.30	1.10	-0.50	1.40	0.18	1.65
-1	-3	17	33	14	2.10	0.70	-0.50	2.00	0.29	1.06
-1	-3	12	31	17	4.60	1.20	-0.50	2.60	0.42	2.02
1	-3	32	70	31	4.20	0.90	-0.50	0.20	0.05	1.61
3	-3	52	111	44	8.00	1.00	1.00	0.90	0.14	1.80
6	-3	5	5	7	1.10	0.30	-0.50	0.90	0.14	1.94
9	-3	6	11	6	2.10	0.60	0.60	1.70	0.30	1.73
9	6	13	28	15	3.60	0.90	0.80	3.30	0.48	1.88
-1	-3	1	-3	-5	0.10	-0.10	-0.50	0.20	-0.05	2.25
1	-3	14	31	17	4.00	1.10	-0.50	3.10	0.43	2.25
1	-3	3	6	-5	0.50	0.10	-0.50	0.20	-0.05	2.07
-1	-3	1	-3	-5	-0.10	-0.10	-0.50	-0.10	-0.05	2.04
-1	-3	0	-3	-5	-0.10	-0.10	-0.50	-0.10	-0.05	2.11
1	-3	8	15	10	2.40	0.70	-0.50	2.20	0.29	2.64
-1	-3	9	17	6	0.90	0.40	-0.50	-0.10	0.05	2.25
2	-3	15	32	15	3.10	0.50	0.70	1.70	0.25	1.63
-1	-3	1	-3	-5	-0.10	-0.20	-0.50	-0.20	-0.05	3.47
3	-3	49	105	49	9.10	1.20	1.40	3.80	0.51	2.14
-1	-3	53	91	34	4.50	1.00	1.40	4.60	0.63	2.61
-1	-3	2	6	-5	2.00	0.70	0.90	3.00	0.42	2.24
-1	-3	0	-3	-5	-0.10	-0.10	-0.50	0.20	-0.05	2.18
-1	-3	4	13	8	1.50	0.30	-0.50	0.70	0.11	1.37
-1	-3	45	75	26	2.30	1.20	-0.50	0.30	-0.05	2.12
-1	-3	0	-3	-5	-0.10	-0.10	-0.50	-0.10	-0.05	1.45
1	-3	19	46	17	3.50	0.90	-0.50	0.90	0.13	1.89
-1	-3	29	75	48	12.00	3.70	1.80	3.70	0.50	2.34
-1	-3	3	10	-5	2.00	0.50	0.60	3.50	0.47	2.20
-1	-3	13	36	25	4.60	0.90	-0.50	1.50	0.24	2.09

U_ppm	W_ppm	La_ppm	Ce_ppm	Nd_ppm	Sm_ppm	Eu_ppm	Tb_ppm	Yb_ppm	Lu_ppm	MASS
-1	-3	5	10	-5	1.00	0.40	-0.50	0.80	0.10	2.25
-1	-3	34	45	10	0.90	0.40	-0.50	0.20	-0.05	1.96
4	-3	31	64	30	6.10	1.60	1.60	5.00	0.63	2.41
-1	-3	3	4	-5	0.30	-0.10	-0.50	0.30	-0.05	3.83
10	-3	14	30	12	2.70	0.40	0.70	3.20	0.49	2.18
1	-3	8	15	-5	1.30	0.40	-0.50	0.90	0.16	2.00
-1	-3	21	54	41	7.90	5.90	1.40	4.00	0.53	1.61
-1	-3	3	5	-5	0.50	0.20	-0.50	0.30	0.07	1.86
-1	-3	1	-3	-5	0.60	-0.10	-0.50	0.80	0.12	1.48
-1	-3	4	6	-5	0.80	-0.10	-0.50	-0.10	-0.05	1.05
-1	-3	1	-3	-5	0.30	-0.10	-0.50	0.30	-0.05	1.92
-1	-3	1	-3	-5	0.30	-0.10	-0.50	0.50	0.07	1.75
-1	-3	3	7	5	0.60	-0.10	-0.50	0.50	0.08	1.78
5	-3	45	90	41	8.20	1.50	1.20	2.70	0.40	2.25
2	-3	11	22	9	2.10	0.80	-0.50	0.80	0.14	1.55
-1	-3	8	21	13	4.20	1.10	1.10	4.80	0.66	2.09
-1	10	22	52	30	7.00	2.10	1.30	5.20	0.76	2.24
5	-3	41	95	41	8.00	1.90	1.30	4.50	0.66	1.98
-1	-3	10	18	6	1.40	0.50	-0.50	0.50	0.07	2.20
-1	-3	0	-3	-5	-0.10	-0.10	-0.50	-0.10	-0.05	1.55
-1	-3	1	-3	-5	0.30	-0.10	-0.50	0.40	-0.05	1.77
4	-3	10	17	14	3.70	1.10	1.00	4.00	0.50	2.30
4	-3	1	-3	-5	0.50	-0.10	-0.50	0.40	0.09	1.60
-1	-3	5	11	10	2.30	1.10	-0.50	1.60	0.19	1.72
3	-3	5	7	5	1.20	0.40	-0.50	0.90	0.15	2.64
-1	-3	3	7	5	0.70	-0.10	-0.50	0.10	-0.05	1.64
7	-3	7	19	16	3.80	1.30	0.90	4.20	0.60	1.96
1	-3	16	35	16	2.80	0.90	-0.50	1.50	0.22	1.99
-1	-3	2	4	-5	0.30	-0.10	-0.50	-0.10	-0.05	2.16
-1	-3	5	8	-5	0.60	-0.10	-0.50	0.40	0.06	1.87
-1	-3	7	10	-5	0.50	0.40	-0.50	0.60	0.10	1.92
5	-3	17	34	17	4.10	1.30	0.90	3.10	0.46	1.85
-1	-3	59	150	89	15.00	3.40	1.60	2.30	0.34	1.64
3	-3	4	5	-5	1.20	0.30	-0.50	1.10	0.17	2.41
1	-3	1	6	-5	1.30	0.30	-0.50	1.40	0.23	2.48

U_ppm	W_ppm	La_ppm	Ce_ppm	Nd_ppm	Sm_ppm	Eu_ppm	Tb_ppm	Yb_ppm	Lu_ppm	MASS
3	4	33	63	29	5.20	1.00	-0.50	2.20	0.33	1.47
-1	-3	0	-3	-5	-0.10	-0.10	-0.50	-0.10	-0.05	1.69
-1	-3	10	17	11	1.80	0.50	-0.50	0.40	0.06	1.79
1	-3	20	40	15	2.60	0.60	-0.50	1.70	0.24	1.90
1	-3	2	6	-5	1.80	0.90	-0.50	1.70	0.25	1.89
-1	-3	-1	-3	-5	-0.10	-0.20	-0.50	-0.20	-0.05	5.59
4	-3	5	10	-5	1.30	0.30	-0.50	0.90	0.13	2.65
1	-3	5	10	5	0.90	1.00	-0.50	0.50	0.07	1.80
2	-3	2	3	-5	0.40	-0.10	-0.50	0.40	0.06	1.50
1	-3	14	25	16	2.80	1.20	-0.50	1.00	0.17	1.91
-1	-3	23	27	9	0.50	1.20	-0.50	0.30	-0.05	1.53
9	-3	9	29	18	3.60	0.70	-0.50	1.60	0.25	1.93
-1	-3	-1	-3	-5	-0.10	-0.20	-0.50	-0.20	-0.05	6.42
6	-3	297	549	324	108.00	20.90	24.00	88.70	13.00	1.79
2	-3	6	16	9	3.20	1.00	-0.50	0.40	0.07	2.36
1	-3	5	16	8	3.00	1.00	0.60	2.90	0.40	1.55
-1	-3	52	88	35	6.90	2.00	1.60	9.50	1.40	1.79
-1	-3	11	22	9	1.70	3.10	-0.50	0.50	0.08	2.15
-1	-3	14	20	7	0.60	1.20	-0.50	0.30	0.05	1.51
2	-3	81	152	82	15.00	4.80	1.60	1.40	0.18	1.86
-1	-3	199	281	115	16.00	1.10	-0.50	1.40	0.19	1.40
4	-3	8	13	8	1.30	0.50	-0.50	1.60	0.25	1.80
1	-3	14	30	16	2.30	0.70	-0.50	1.00	0.15	1.85
1	6	8	16	9	1.60	0.20	-0.50	0.60	0.10	1.01
-1	-3	35	54	18	2.10	1.50	-0.50	-0.10	-0.05	1.55
-1	-3	6	15	9	1.80	0.30	-0.50	0.70	0.11	1.75
2	-3	3	5	-5	0.60	0.30	-0.50	2.40	0.38	1.80
-1	-3	1	-3	-5	0.10	-0.10	-0.50	-0.10	-0.05	1.60
2	-3	9	17	8	1.30	-0.10	-0.50	0.50	0.09	1.44
-1	-3	3	7	-5	1.30	0.40	-0.50	1.30	0.17	1.79
8	409	942	691	244	37.20	10.00	1.60	2.40	-0.05	2.56
2	-3	6	8	-5	0.40	0.10	-0.50	-0.10	-0.05	2.41
-1	-3	4	4	5	0.30	-0.10	-0.50	-0.10	-0.05	1.19
-1	-3	1	-3	-5	0.20	-0.10	-0.50	-0.10	-0.05	1.48
6	-3	25	53	24	5.30	1.40	1.50	2.30	0.37	1.78

U_ppm	W_ppm	La_ppm	Ce_ppm	Nd_ppm	Sm_ppm	Eu_ppm	Tb_ppm	Yb_ppm	Lu_ppm	MASS
2	-3	17	34	14	2.90	0.90	-0.50	0.40	0.08	1.35
1	-3	12	26	12	2.10	0.60	-0.50	0.90	0.13	1.56
-1	-3	6	4	-5	0.90	0.60	-0.50	0.70	0.12	1.98
-1	-3	3	8	-5	1.10	0.40	1.00	1.20	0.18	1.35
-1	-3	9	14	-5	1.80	0.40	-0.50	1.90	0.27	1.77
2	-3	3	5	-5	0.40	0.50	-0.50	0.20	-0.05	1.38
7	-3	42	80	38	6.50	1.00	-0.50	3.50	0.49	1.22
-1	-3	2	4	-5	0.60	-0.10	-0.50	0.70	0.10	2.66
1	-3	23	41	16	2.90	0.70	-0.50	2.40	0.37	1.49
1	-3	12	21	11	1.80	0.60	-0.50	1.80	0.29	1.73
1	-3	14	32	19	4.70	1.50	-0.50	1.20	0.14	1.71
-1	-3	4	7	-5	0.80	0.50	-0.50	1.20	0.21	1.61
-1	-3	53	137	91	22.20	1.30	6.10	27.60	3.91	2.39
2	-3	17	38	9	4.30	0.70	2.80	11.10	1.49	2.16
2	-3	46	86	34	6.10	0.80	-0.50	0.90	0.13	1.45
3	-3	69	130	48	8.70	1.30	-0.50	0.80	0.13	1.56
-1	24	66	121	60	8.00	1.30	-0.50	0.60	0.07	1.92
2	310	113	191	88	12.00	2.50	-0.50	1.10	0.16	2.15
3	110	17	40	21	5.40	2.10	0.60	1.80	0.27	1.57
-1	-3	30	55	19	3.20	1.10	-0.50	0.50	0.07	1.52
8	3	6	9	6	1.40	0.40	-0.50	0.70	0.10	2.59
-1	-3	43	89	46	9.30	3.00	1.20	1.80	0.29	1.64
-1	-3	72	141	65	8.20	1.80	-0.50	0.50	0.07	1.71
-1	-3	8	22	12	3.50	0.80	1.00	3.10	0.43	2.06
-1	-3	6	16	9	1.80	0.50	0.50	1.60	0.29	1.56
1	-3	24	52	31	6.30	1.50	-0.50	2.50	0.40	1.33
-1	-3	0	-3	-5	-0.10	-0.10	-0.50	-0.10	-0.05	1.58
-1	-3	1	4	-5	0.20	-0.10	-0.50	2.50	0.40	1.73
2	-3	33	67	24	3.40	1.30	-0.50	0.30	0.05	1.44
-1	-3	5	8	-5	0.70	0.60	-0.50	0.20	-0.05	1.61
3	-3	7	14	10	1.80	0.70	-0.50	1.40	0.23	1.32
7	-3	40	72	33	6.00	0.80	1.00	2.70	0.39	1.39
1	-3	18	43	17	4.00	0.60	0.80	2.40	0.40	2.11
1	-3	1	-3	-5	0.20	-0.10	-0.50	-0.10	-0.05	1.83
13	8	7	15	7	2.00	0.50	-0.50	1.90	0.29	1.42

U_ppm	W_ppm	La_ppm	Ce_ppm	Nd_ppm	Sm_ppm	Eu_ppm	Tb_ppm	Yb_ppm	Lu_ppm	MASS
2	3	26	55	27	4.90	1.50	0.60	2.40	0.36	1.87
-1	-3	4	9	7	0.90	0.40	-0.50	0.50	0.09	2.02
-1	-3	2	3	-5	0.70	0.30	-0.50	0.80	0.13	2.39
-1	-3	7	12	-5	1.20	0.70	-0.50	2.90	0.46	1.89
-1	-3	15	28	12	2.80	1.00	-0.50	1.40	0.22	1.60
-1	-3	2	-3	-5	0.30	0.30	-0.50	0.50	0.10	2.07
2	-3	6	13	6	0.70	0.10	-0.50	0.30	0.05	1.82
-1	-3	2	5	-5	0.40	-0.10	-0.50	0.20	-0.05	1.54
-1	-3	2	3	-5	0.40	-0.10	-0.50	0.20	0.05	1.58
3	5	8	19	7	1.10	0.20	-0.50	0.60	0.09	2.04
-1	-3	7	27	17	7.50	2.10	2.90	12.60	1.76	2.02
-1	-3	2	10	-5	2.80	1.10	1.20	4.80	0.70	2.33
-1	-3	3	8	-5	0.90	0.40	-0.50	0.40	0.06	1.82
-1	-3	13	26	13	2.60	1.00	-0.50	1.60	0.25	1.55
1	17	12	29	10	3.40	1.10	1.10	4.90	0.71	1.56
1	-3	16	38	17	4.10	1.00	0.60	2.90	0.40	1.62
11	6	31	79	33	5.70	1.00	-0.50	1.70	0.25	1.50
16	-3	43	85	26	5.00	0.80	-0.50	0.40	-0.05	1.64
2	-3	2	6	-5	0.80	0.60	-0.50	0.40	0.05	1.56
4	-3	147	280	151	26.00	7.80	2.80	2.70	0.38	1.43
-1	-3	13	31	14	2.50	0.60	-0.50	1.20	0.20	1.32
-1	-3	44	108	65	10.00	0.30	1.20	2.50	0.40	2.30
1	-3	3	7	-5	0.50	-0.10	-0.50	2.10	0.43	1.43
-1	-3	2	4	-5	0.30	-0.10	-0.50	0.30	0.05	2.68
-1	-3	11	17	8	0.50	1.00	-0.50	-0.10	-0.05	1.45
-1	-3	15	28	14	2.20	1.00	-0.50	0.80	0.11	1.65
-1	-3	3	9	8	2.20	0.90	0.70	2.30	0.32	1.88
-1	-3	49	86	45	5.20	2.20	1.60	0.70	0.12	1.59
1	-3	31	59	27	6.10	1.70	1.70	6.60	0.98	1.94
1	-3	27	65	39	7.70	1.90	1.00	1.20	0.15	1.67
-1	13	3	6	-5	0.50	0.20	-0.50	0.20	-0.05	1.63
-1	-3	8	15	-5	1.60	1.30	-0.50	2.70	0.45	1.56
6	-3	74	147	61	10.00	0.70	1.40	5.00	0.70	1.48
-1	-3	30	74	50	8.40	1.50	0.70	1.40	0.20	1.66
-1	7	3	5	-5	0.60	0.20	-0.50	0.90	0.13	1.67

U_ppm	W_ppm	La_ppm	Ce_ppm	Nd_ppm	Sm_ppm	Eu_ppm	Tb_ppm	Yb_ppm	Lu_ppm	MASS
2	-3	1	4	-5	0.30	0.30	-0.50	0.50	0.11	1.87
3	-3	4	8	-5	1.30	-0.10	-0.50	2.60	0.35	1.87
-1	-3	3	9	8	1.80	0.50	-0.50	2.60	0.40	1.36
1	5	1	3	-5	0.30	-0.10	-0.50	0.70	0.12	2.02
-1	-3	15	32	9	2.80	2.70	-0.50	1.50	0.25	2.37
-1	-3	33	53	16	3.50	10.50	-0.50	0.80	0.13	2.57
-1	-3	19	39	23	3.90	1.40	-0.50	1.50	0.25	1.74
-1	-3	50	97	54	11.00	3.60	-0.50	1.50	0.24	1.71
-1	-3	3	9	5	0.80	0.30	-0.50	0.40	0.05	2.22
-1	-3	30	55	22	5.40	5.40	0.70	1.20	0.15	1.85
-1	-3	28	55	23	6.90	8.60	1.60	1.30	0.20	2.17
1	-3	9	17	8	1.20	4.60	-0.50	0.70	0.13	2.45
2	-3	10	15	6	0.90	0.20	-0.50	0.20	0.05	1.60
-1	-3	6	11	-5	1.00	0.40	-0.50	0.70	0.09	1.94
5	-3	12	29	11	1.90	0.30	-0.50	0.80	0.11	1.16
1	-3	3	8	-5	0.70	0.10	-0.50	0.30	0.06	1.86
2	-3	6	14	6	0.90	0.20	-0.50	0.30	0.06	1.90
3	-3	6	15	6	1.10	0.20	-0.50	0.50	0.06	2.03
-1	-3	50	86	39	5.00	1.90	-0.50	0.80	0.17	1.58
-1	-3	29	51	15	2.40	0.60	-0.50	0.70	0.12	1.75
7	-3	1	-3	-5	0.20	0.30	-0.50	0.10	-0.05	1.48
-1	-3	5	8	-5	0.40	0.20	-0.50	0.20	-0.05	1.74
2	-3	2	5	5	0.40	0.60	-0.50	0.50	0.08	1.37
-1	-3	8	19	15	3.50	1.20	0.60	1.80	0.23	1.59
-1	-3	1	8	-5	1.10	0.60	1.10	10.20	1.52	2.36
-1	-3	0	-3	-5	-0.10	-0.10	-0.50	-0.10	-0.05	1.66
-1	-3	8	17	8	1.90	0.40	-0.50	1.00	0.16	1.62
-1	-3	4	7	-5	0.60	0.20	-0.50	-0.10	-0.05	1.65
2	6	15	34	12	2.50	0.80	-0.50	1.30	0.20	1.39
-1	-3	1	-3	-5	0.20	-0.10	-0.50	0.10	-0.05	1.85
-1	-3	7	14	7	2.20	1.00	1.00	2.30	0.31	1.73
1	-3	8	14	-5	2.00	0.90	-0.50	1.90	0.31	1.57
1	-3	55	138	85	24.00	4.80	6.30	26.40	3.65	1.79
1	-3	3	5	-5	0.80	0.30	-0.50	1.00	0.16	1.50
4	-3	19	34	14	2.80	0.90	-0.50	1.50	0.22	1.76

U_ppm	W_ppm	La_ppm	Ce_ppm	Nd_ppm	Sm_ppm	Eu_ppm	Tb_ppm	Yb_ppm	Lu_ppm	MASS
3	-3	7	17	7	1.20	0.30	-0.50	0.40	0.09	1.81
3	-3	16	31	11	2.50	0.80	-0.50	1.40	0.23	1.95
-1	-3	1	-3	-5	0.40	0.10	-0.50	0.70	0.10	1.65
20	-3	39	74	37	6.30	1.10	0.90	3.60	0.59	1.38
-1	-3	3	5	-5	0.70	0.30	-0.50	1.20	0.18	2.90
-1	-3	2	-3	-5	0.30	-0.10	-0.50	0.10	-0.05	1.58
-1	-3	20	35	13	2.40	1.20	-0.50	0.90	0.14	1.74
18	6	19	41	22	4.50	1.20	0.70	4.00	0.71	1.33
-1	-3	1	-3	-5	0.20	-0.10	-0.50	0.10	-0.05	2.19
-1	-3	27	74	56	10.00	2.10	0.90	1.40	0.22	2.02
-1	-3	30	81	58	12.00	2.00	0.80	1.90	0.30	1.93
-1	97	27	47	22	3.00	0.60	-0.50	0.30	-0.05	2.22
2	-3	91	173	75	11.00	3.10	1.00	1.90	0.31	1.55
22	5	18	29	17	3.90	1.10	0.90	3.90	0.64	1.21
-1	-3	8	16	7	1.50	0.50	-0.50	1.20	0.19	1.68
-1	-3	2	3	-5	0.30	0.20	-0.50	-0.10	-0.05	1.94
1	-3	17	41	22	5.10	1.90	-0.50	2.50	0.38	1.97
5	-3	6	13	10	1.90	0.50	-0.50	1.40	0.20	1.88
-1	-3	4	5	-5	0.30	0.10	-0.50	-0.10	-0.05	1.94
2	-3	8	14	5	0.80	0.20	-0.50	0.70	0.10	2.58
-1	3	24	45	22	2.90	0.50	-0.50	0.20	-0.05	2.05
7	7	15	17	10	1.50	0.50	-0.50	0.80	0.14	2.27
1	-3	40	82	37	8.70	1.40	1.30	3.50	0.43	1.72
1	-3	8	17	9	2.40	0.60	0.60	1.60	0.22	2.02
1	-3	52	104	59	13.00	4.40	1.40	1.80	0.25	1.99
1	-3	19	38	16	2.50	0.50	-0.50	1.30	0.20	2.02
-1	17	25	43	22	2.80	0.60	-0.50	0.20	-0.05	2.35
-1	-3	37	73	42	8.70	3.00	-0.50	1.10	0.15	2.30
1	-3	4	6	-5	0.40	0.20	-0.50	0.10	-0.05	1.84
3	-3	1	-3	-5	-0.10	0.20	-0.50	-0.10	-0.05	2.22
2	68	133	241	108	15.00	3.00	-0.50	1.40	0.20	2.08
6	-3	12	21	13	2.40	0.50	-0.50	1.10	0.15	2.14
1	11	55	99	41	6.20	1.10	-0.50	0.80	0.13	2.33
3	40	137	239	107	17.00	3.20	1.80	2.30	0.34	2.07
2	-3	95	153	58	6.40	1.50	-0.50	0.40	0.06	1.83

U_ppm	W_ppm	La_ppm	Ce_ppm	Nd_ppm	Sm_ppm	Eu_ppm	Tb_ppm	Yb_ppm	Lu_ppm	MASS
24	-3	1660	2020	638	235.00	20.20	35.00	125.00	17.60	1.83
1	-3	38	67	26	4.80	1.10	-0.50	1.60	0.20	2.05
1	-3	6	17	13	3.80	1.30	0.80	1.90	0.28	2.36
-1	-3	9	18	10	1.90	0.70	-0.50	0.80	0.12	1.65
1	-3	18	38	19	3.60	1.00	0.60	2.30	0.34	1.91
-1	-3	11	21	13	2.80	1.10	-0.50	1.10	0.15	2.41
2	-3	29	62	20	4.70	0.50	2.30	17.60	2.64	2.39
1	-3	16	31	10	2.20	0.70	-0.50	3.80	0.50	1.91
3	-3	40	73	31	5.60	0.50	-0.50	0.40	0.06	2.03
3	4	59	112	43	7.70	1.40	-0.50	2.50	0.35	1.89
1	-3	5	11	-5	0.80	0.40	-0.50	0.40	0.06	2.59
-1	-3	51	104	59	11.00	3.80	1.00	3.00	0.45	2.40
3	-3	4	9	-5	0.60	0.60	-0.50	1.40	0.23	2.45
7	-3	29	46	27	5.30	0.80	1.10	3.20	0.48	2.25

Appendix 3 **Analysis results from total digestion - ICP**

ID	TYPE	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Cd ppm	Bi ppm
00196	F (grab)	15	84	91	0	6	1	-5
00396	L (float)	66	5	425	0	276	1	-5
00696	F	5	-5	19	0	3	1	-5
00796	L	4	-5	12	0	2	-1	-5
00896	L	16	17	7	0	4	-1	-5
00996	F	26	11	132	0	67	-1	-5
01496	F	30	10	36	0	9	1	-5
01796	F	4	8	36	0	5	-1	-5
01996	F	2	-5	2	0	2	-1	-5
02196	L	51	17	77	0	771	-1	-5
02296	L	3	18	31	0	908	-1	-5
02596	L	72	25	70	0	906	1	-5
02696	L	5	-5	17	0	6	-1	-5
03096	L	53	7	7	1	6	-1	-5
03196	L	28	-5	98	1	31	-1	-5
03796	L	653	21	385	1	924	-1	7
04196	F	89	13	197	1	17	-1	-5
04296	F	299	12	158	1	159	1	-5
04396	F	14	-5	141	0	4	1	-5
04496	F	12	16	285	1	321	1	-5
04596	L	573	24	162	0	170	-1	-5
04696	F	8	25	93	0	1411	-1	-5
05096	-	50	-5	131	0	11	-1	-5
02096	F	89	11	182	0	126	-1	-5
04096	F	696	26	247	1	108	-1	-5
22096	L	182	-5	116	1	61	2	-5
22196	L	407	934	55	7	2	-1	10
22396	F	1864	-5	107	1	473	-1	-5
22496	F	138	-5	154	0	56	-1	-5
22596	F	292	-5	94	0	188	1	-5
22696	F	21	7	5	0	7	-1	-5
23096	F	199	61	7	1	22	-1	-5
23296	F	120	-5	14	0	11	-1	-5
23496	F	8230	8	86	2	273	-1	-5
24696	L	12	12	448	0	348	-1	-5
24796	L	200	-5	76	0	93	-1	-5
25096	F	48	-5	80	0	774	1	-5
25296	F	265	-5	196	0	66	-1	-5
25696	L	79	-5	337	0	185	1	-5
25596	L	828	90	62	2	19	-1	-5
25996	L	97	-5	121	0	383	1	-5
26196	L	18	6	27	0	176	-1	-5
26396	F	4	-5	137	0	236	-1	-5
26496	F	322	-5	318	0	110	1	-5
26596	F	356	-5	238	0	46	-1	-5
26696	F	951	-5	54	0	36	-1	-5
26796	F	618	22	144	0	33	1	-5
26896	F	290	23	1353	1	379	6	-5
27196	F	278	58	87	1	27	-1	-5
27296	F	277	28	421	0	26	1	-5
27396	F	72	13	17	0	64	1	-5
27496	F	30	11	27	0	6	-1	-5
27596	F	496	-5	50	0	15	-1	-5
27796	L	11	-5	5	0	5	-1	-5
28896	L	37	421	55	1	30	1	-5

ID	TYPE	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Cd ppm	Bi ppm
29196	L	157	129	2343	3	291	12	-5
29296	F	160	533	84	1	119	-1	-5
29396	L	65	-5	47	0	164	-1	-5
29596	F	67	30	164	0	14	-1	-5
29696	F	252	-5	293	0	86	-1	-5
29896	F	1045	18	201	0	112	1	-5
30196	?	209	22	82	0	97	-1	-5
30296	?	567	5	69	1	189	-1	-5
05196	L	12	63	44	0	2	-1	10
05396	F	8	8	190	0	25	-1	-5
05796	-	13	-5	160	0	1179	1	-5
06096	-	9	16	45	0	12	-1	-5
06396	-	15	20	40	0	13	-1	-5
06496	-	5	34	162	0	35	1	-5
06696	L	21	9	12	0	12	-1	-5
07496	F	93	24	104	1	255	-1	-5
07996	F	935	13	82	1	269	1	-5
08096	F	79	115	35	1	17	-1	-5
08296	L	8	-5	60	0	6	-1	-5
08496	L	282	11	15	0	15	-1	-5
08596	F	930	55	18	5	4	-1	-5
08696	L	111	16	189	0	62	-1	-5
08896	L	115	16	174	0	105	1	-5
09296	L	111	-5	70	0	107	-1	-5
10496	F	24	29	14	0	4	-1	-5
10696	F	106	-5	17	0	122	-1	-5
10896	F	199	6	203	1	120	3	-5
11096	?	393	7	38	0	8	-1	-5
12896	L	147	17	184	0	100	1	-5
13096	L	15	6	64	0	116	-1	-5
13996	L	40	175	2	1	2	-1	-5
14596	F	6478	7	202	2	4330	1	-5
14996	L	266	12	149	1	543	1	-5
15696	L	375	21	189	1	478	1	-5
15896	?	862	24	2130	1	509	13	-5
15996	F	25	26	39	0	8	-1	-5
16096	L	10	-5	257	0	55	-1	-5
16196	L	5	9	10	0	14	-1	-5
16296	L	425	12	563	0	337	2	-5
16496	L	840	14	78	1	376	3	-5
16596	L	845	18	147	2	340	1	-5
16796	L	18948	13	125	6	182	1	9
16896	L	878	25	40	1	51	-1	-5
17096	L	523	35	39	1	10	-1	-5
17296	F	34	1066	12	30	15	-1	59
17396	F	165	54	13	0	17	-1	-5
17496	F	10	16	13	0	35	-1	-5
17596	F	671	-5	12	0	67	2	-5
17696	L	1308	7	103	1	239	-1	-5
17996	-	52	18	40	0	8	-1	-5
19096	F	208	-5	227	2	37	-1	-5
19296	F	383	-5	24	2	405	-1	-5
19396	F	13	14	45	0	8	-1	-5
19496	F	620	-5	185	0	194	2	-5
20496	F	18	-5	204	1	11	-1	-5

ID	TYPE	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Cd ppm	Bi ppm
21196	F	98	33	235	0	25	-1	-5
21696	L	13	-5	95	0	284	-1	-5
21796	F	41	28	364	0	50	-1	-5
21896	F	466	14	59	1	31	-1	-5
76496	L	82	83	89	1	17	-1	-5
76596	L	69	61	12	1	18	-1	-5
76996	L	409	15	139	1	120	-1	-5
77896	?	93	-5	165	1	167	-1	-5
78196	L	208	-5	73	1	25	-1	-5
78296	L	23	13	38	1	14	1	-5
78396	L	31	46	46	1	34	-1	-5
78496	L	63	114	179	1	17	-1	-5
79196	F	6	-5	166	1	1016	-1	-5
79296	F	111	-5	84	1	46	1	-5
79396	F	65	-5	60	1	71	-1	-5
79496	F	67	-5	90	0	28	1	-5
79596	F	132	-5	70	1	68	1	-5
80196	L	473	28	170	1	198	-1	-5
80696	F	8	6	26	0	8	-1	-5
80796	L	15	66	5	0	3	-1	-5
81196	F	403	17	34	0	332	-1	-5
81296	L	323	22	5	0	6	-1	-5
81396	L	188	-5	66	0	64	-1	-5
81596	L	592	-5	106	1	64	-1	-5
81696	L	43	-5	6	0	28	-1	-5
81796	L	887	8	222	1	24	-1	-5
82296	F	26	-5	13	0	9	-1	-5
82396	F	26	10	113	0	52	-1	-5
82496	F	25	-5	6	0	10	-1	-5
82896	F	197	9	23	0	100	-1	-5
82996	F	209	11	26	0	115	-1	-5
83096	F	127	-5	1495	0	9	2	-5
83196	F	64	-5	17	0	27	-1	-5
83296	F	345	12	56	0	88	-1	-5
83396	F	92	5	11	0	78	-1	-5
83496	F	391	7	77	0	114	-1	-5
83596	L	34	-5	19	0	14	-1	-5
84096	L	373	28	203	1	110	2	-5
84196	-	768	-5	388	0	10	-1	-5
84296	L	28	29	54	0	15	-1	-5
84496	L	574	-5	253	0	247	-1	-5
84596	L	11	5	27	0	33	-1	-5
84696	F	9	8	160	0	2059	-1	-5
84996	F	2592	7	146	1	2933	-1	-5
85096	F	6818	-5	190	1	3880	-1	-5
85196	F	1653	106	27	13	116	-1	182
85296	F	24	11	84	0	12	-1	-5
85496	L	68	7	713	0	492	4	-5
85596	L	71	12	127	0	294	-1	-5
78896	L	2	-5	4	0	7	-1	-5
30596	L	161	8	29	2	147	2	-5
30796	F	698	13	645	3	388	4	-5
30996	L	848	-5	537	2	332	4	-5
31196	F	799	-5	4	1	500	-1	-5
31296	F	442	-5	94	1	48	-1	-5

ID	TYPE	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Cd ppm	Bi ppm
31396	L	230	-5	12	0	8	-1	-5
31696	F	59	27	6	0	3	-1	-5
31796	F	80	5	15	0	5	-1	-5
31996	F	19	-5	157	0	20	2	-5
32196	F	4	13	11	0	6	-1	-5
32296	F	35	9	88	0	81	-1	-5
32496	F	8	30	196	0	20	1	-5
32596	-	136	67	222	0	105	1	-5
32696	F	433	-5	213	1	113	1	-5
32796	F	5	10	104	1	1155	-1	-5
33496	L	11	-5	216	0	744	-1	-5
33896	L	25	14	72	0	22	-1	-5
33996	F	2	-5	2	0	2	-1	-5
34196	L	54	8	185	0	59	-1	-5
34296	L	364	-5	189	1	67	-1	-5
34596	L	151	8	134	0	102	-1	-5
35696	L	343	5	190	1	1258	1	-5
36096	L	4	-5	78	0	137	-1	-5
36196	F	39	-5	7	0	13	-1	-5
36296	F	242	11	152	1	76	1	-5
36496	F	63	51	2	1	1227	-1	-5
36996	L	6	22	44	0	19	-1	-5
37196	L	7	-5	69	1	122	1	-5
37996	L	20	-5	74	0	2023	-1	-5
38096	L	37	-5	71	0	947	-1	-5
38196	L	26	7	399	0	131	-1	-5
38296	L	14	-5	74	0	1868	-1	-5
38696	L	34	-5	97	0	1979	-1	-5
38896	L	31	-5	89	0	1226	-1	-5
39196	F	327	6	33	1	187	1	-5
39296	F	517	8	85	0	35	-1	-5
39396	F	2482	-5	110	0	21	-1	-5
39496	F	875	132	293	2	73	1	6
39596	F	1642	-5	65	0	92	-1	-5
39696	F	362	49	2	2	908	-1	-5
39796	F	87	5	61	0	130	-1	-5
39896	F	25	-5	43	0	11	-1	6
39996	F	522	12	44	1	78	1	-5
40096	F	99	26	128	0	76	1	-5
40196	F	6	-5	224	0	124	-1	-5
40396	L	172	5	479	2	506	2	-5
40596	L	4	-5	9	0	3	-1	-5
40696	L	504	18	121	0	36	1	-5
40796	F	141	-5	182	0	39	-1	-5
41296	F	8	-5	8	0	4	-1	-5
41796	L	120	-5	84	0	1767	-1	-5
41996	F	1039	-5	155	3	303	1	-5
42096	L	627	18	621	1	149	3	-5
42196	L	114	26	182	0	41	3	-5
42496	L	189	29	283	2	417	5	-5
42596	L	97	16	151	1	2	2	-5
43096	F	76	29	162	0	52	1	-5
43396	L	3	5	66	0	6	-1	-5
44096	F	57	542	289	2	9	4	-5
44396	L	59	820	47	1	23	-1	-5

ID	TYPE	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Cd ppm	Bi ppm
45296	L	159	127	48	2	406	5	6
45396	L	96	419	56	0	44	1	-5
45496	F	6	280	5	0	2	-1	-5
45596	F	78	37	124	0	15	1	-5
45996	L	12	373	21	0	3	1	-5
46196	F	17	60	51	1	2	-1	-5
46796	L	242	72	4059	0	2	8	-5
46896	L	1753	184	1040	2	23	6	10
46996	L	950	1603	671	2	135	6	12
47696	F	49	389	176	1	26	2	-5
48196	L	42	229	104	1	9	4	-5
48796	-	32	125	107	0	7	1	-5
49196	L	133	275	177	0	438	3	-5
49296	L	1079	45	238	1	292	2	-5
50596	L	12	159	8	0	61	-1	-5
50796	F	65	12	74	0	41	2	-5
51196	L	34	111	12	0	31	-1	-5
51696	F	286	44	74	0	42	1	-5
51896	L	619	140	392	1	313	2	-5
51996	F	4	134	39	0	2	-1	-5
52596	F	21	95	7	0	2	-1	-5
53396	-	250	6	39	0	43	-1	-5
53496	F	11	6	99	0	143	1	-5
54596	-	827	36	143	0	13	1	-5
54996	F	26	7	372	0	28	-1	-5
55096	F	212	-5	21	1	12	-1	-5
55196	F	74	-5	23	0	33	-1	-5
55296	F	342	8	127	1	35	-1	-5
55396	F	156	16	47	0	19	1	-5
56596	L	50	264	76	5	134	-1	7
56696	L	28	7	127	0	8	-1	-5
56796	L	13	-5	35	0	62	-1	-5
56896	F	1142	12	93	1	154	1	-5
57496	L	8248	53	23	10	14	1	-5
57696	-	110	68	101	2	112	1	-5
58696	F	1441	476	475	1	142	1	-5
58796	F	577	16	51	1	27	-1	-5
58896	L	267	9	133	0	551	1	-5
59096	F	687	11	77	0	19	-1	-5
59196	L	65	17	46	0	7	1	-5
59396	F	207	19	43	0	23	-1	-5
59596	L	250	48	83	0	17	-1	-5
59796	L	85	48	302	1	65	2	-5
60096	L	1249	518	93	26	54	1	525
60196	L	2709	106	61	10	70	1	63
60296	L	133	11	126	1	198	-1	-5
60396	F	30	21	78	1	8	-1	-5
60696	L	2368	57	2396	5	459	12	-5
61196	F	32	-5	156	1	4	-1	-5
61396	L	61	8	72	1	15	-1	-5
61796	F	1111	6	122	0	251	-1	-5
62596	F	84	-5	25	0	203	-1	-5
62896	L	11	-5	123	1	7	-1	-5
62996	F	19	6	5	0	11	-1	-5
63096	L	27	12	46	0	18	-1	-5

ID	TYPE	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Cd ppm	Bi ppm
63396	L	891	8	27	0	27	-1	-5
63496	L	12	38	9	0	3	-1	-5
63596	L	23	27	68	1	5	-1	-5
63996	F	73	-5	9	1	288	-1	-5
64196	L	327	-5	284	1	87	2	-5
64896	L	112	-5	6	0	27	-1	-5
64996	F	581	85	3547	3	654	20	-5
65996	F	695	9	76	2	24	1	-5
66396	F	11	11	91	0	8	1	-5
66496	F	14	-5	147	0	10	1	6
66796	F	2447	-5	71	0	360	1	-5
66896	L	129	-5	117	0	37	-1	-5
67196	L	12	7	27	0	28	-1	-5
67296	F	76	-5	54	0	26	1	-5
67396	F	120	-5	55	0	34	-1	-5
67496	F	60	-5	20	0	30	-1	-5
67596	F	178	-5	88	1	64	1	-5
67996	F	394	-5	97	0	4	1	-5
68096	F	68	-5	113	0	18	1	-5
68396	L	139	-5	96	0	21	1	-5
68496	F	200	9	190	0	107	1	-5
68696	L	339	22	143	0	142	-1	-5
69096	L	590	5	93	1	138	-1	-5
69196	L	156	38	115	0	28	-1	6
69396	F	10	13	20	0	7	-1	-5
70096	F	4974	-5	49	0	14	-1	-5
70396	L	89	30	206	4	117	2	-5
70596	L	14	-5	160	0	8	-1	-5
71396	F	902	-5	524	0	717	1	-5
71496	F	7	6	96	0	9	-1	-5
71596	F	127	15	37	3	1461	2	10
71696	L	778	13	174	0	323	1	-5
71896	L	29	-5	48	0	43	-1	-5
72396	F	15	-5	105	0	183	1	-5
72696	L	23	10	135	0	24	-1	-5
72896	L	254	9	222	1	60	4	-5
73196	L	264	-5	107	0	1052	1	-5
73796	L	365	12	39	2	14	-1	-5
74596	F	6086	-5	370	8	64	2	-5
74696	L	27	27	31	1	8	-1	-5
74896	F	5216	8	182	2	4685	2	-5
74996	L	366	18	95	3	124	-1	6
75096	L	823	19	88	2	118	-1	-5
75196	L	1020	10	72	2	140	-1	-5
75296	L	154	-5	27	1	141	-1	-5
75396	L	168	-5	30	1	7	-1	-5
84396	F	1193	-5	160	1	1733	-1	-5
85796	F	147	7	10	0	8	-1	-5
85896	F	61	-5	247	0	24	1	-5
85996	F	50	5	121	0	15	-1	-5
86396	F	283	9	10	0	20	-1	-5
86496	F	838	-5	225	0	83	1	-5
86696	F	316	51	21	4	57	-1	33
86796	L	111	35	27	0	132	-1	-5
87296	F	5	10	52	0	11	-1	-5

ID	TYPE	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Cd ppm	Bi ppm
87396	F	91	17	542	0	133	1	-5
87596	L	67	-5	165	0	312	-1	-5
87896	F	91	8	178	0	73	-1	-5
87996	F	766	58	21	6	52	-1	48
88096	L	102	-5	151	0	196	1	-5
88196	F	5	-5	226	0	6	1	-5
88396	L	20781	-5	58	3	228	-1	-5
88496	F	1550	23	89	2	126	1	96
89496	L	42	16	67	0	32	-1	-5
89796	L	204	437	96	19	50	1	63
89896	L	446	75	77	3	101	1	31
89996	L	56	7	36	0	884	-1	-5
90096	F	22	37	98	4	4	-1	-5
90196	F	52	9	151	0	43	-1	-5
90396	L	502	-5	144	0	263	1	-5
90896	?	25	7	70	0	37	-1	-5
91096	F	215	84	1007	1	281	6	-5
91196	F	1330	157	141	1	3323	3	-5
91596	L	233	8	53	1	92	1	-5
91796	L	163	32	52	0	79	1	-5
91896	L	255	14	121	0	143	1	-5
92096	L	24	27	77	1	36	-1	-5
92496	L	649	16	172	0	180	-1	-5
93696	F	482	58	150	0	196	1	-5
93796	F	95	8	81	0	16	1	-5
93896	F	428	15	54	1	178	3	-5
06196	-	15	20511	4687	10	12	35	-5
21096	F	28	11012	21679	8	5	117	-5
32396	L	173	40934	99999	40	19	2229	-5
36896	L	3	6339	1238	6	4	2	-5
43196	F	235	40676	75623	245	14	499	6
44796	L	329	38768	8984	489	2	150	-5
46396	L	680	35765	53227	533	4	410	12
58596	L	42	179	3489	2	3	12	-5

ID	SiO2 %	Al2O3 %	Fe2O3 %	MnO %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	LOI	TOTAL	Ba ppm	Sr ppm
00196	60.10	19.88	4.78	0.04	0.70	2.87	5.09	5.30	0.83	0.18	0.18	99.94	1189.00	500.00
00396	45.49	11.18	15.35	0.33	14.06	3.05	0.23	6.88	0.76	0.24	1.61	99.17	177.00	14.00
00696	60.54	13.80	2.84	0.03	0.71	11.92	5.98	1.04	0.05	0.14	1.37	98.42	67.00	115.00
00796	0.96	24.12	1.02	-0.01	0.13	0.17	41.23	0.01	0.13	0.06	0.00	67.84	72.00	17.00
00896	74.63	14.01	1.80	-0.01	0.05	0.07	5.26	4.30	0.03	0.02	0.61	100.78	124.00	34.00
00996	60.75	15.24	9.11	0.12	3.58	4.89	3.49	1.24	0.86	0.14	0.67	100.09	345.00	201.00
01496	80.41	9.55	2.93	0.03	0.86	1.75	1.26	2.55	0.30	0.13	1.14	100.90	600.00	163.00
01796	75.10	13.52	1.94	0.02	0.51	2.38	4.09	2.26	0.20	0.06	0.81	100.90	720.00	331.00
01996	98.85	0.87	0.34	-0.01	0.06	0.13	0.05	0.16	0.02	0.02	0.27	100.77	72.00	16.00
02096	51.24	15.54	13.16	0.16	7.80	6.55	3.22	0.91	0.81	0.03	1.40	100.81	626.00	340.00
02196	50.52	9.97	10.36	0.15	19.25	6.75	1.65	0.34	0.37	0.06	-0.01	99.19	170.00	181.00
02296	41.78	2.44	7.27	0.08	38.47	-0.01	-0.01	-0.01	0.04	-0.01	11.00	100.99	3.00	-1.00
02596	28.55	1.66	11.79	0.18	27.76	10.60	0.16	1.01	2.27	0.37	14.45	98.80	371.00	748.00
02696	89.93	6.14	0.72	-0.01	0.16	0.11	3.66	-0.01	0.04	0.02	0.09	100.83	17.00	31.00
03096	78.25	1.83	6.21	0.08	3.18	3.76	0.63	0.38	0.10	0.19	5.83	100.43	749.00	13.00
03196	47.39	11.38	33.22	0.37	3.23	3.69	0.18	0.22	0.37	0.13	0.21	100.38	95.00	2.00
03796	44.02	4.46	29.47	0.26	14.98	0.92	0.45	0.17	0.19	-0.01	3.32	98.24	140.00	95.00
04096	39.99	8.75	23.12	0.42	7.15	2.43	0.02	4.83	4.88	1.60	5.51	98.70	193.00	251.00
04196	38.29	15.10	25.54	0.39	6.17	1.99	0.76	0.95	1.98	0.53	6.85	98.56	299.00	193.00
04296	32.96	6.19	12.92	0.38	10.79	18.93	0.11	3.30	3.88	1.33	7.24	98.04	1132.00	1094.00
04396	51.89	14.11	12.49	0.19	3.70	7.57	3.63	1.41	2.93	0.88	1.41	100.21	563.00	715.00
04496	40.71	18.05	15.79	0.07	10.75	2.41	1.29	6.81	1.98	0.10	1.49	99.45	1015.00	70.00
04596	54.89	11.48	14.54	0.14	7.20	5.78	3.06	0.28	0.71	0.05	1.91	100.04	330.00	222.00
04696	30.34	19.12	8.64	0.11	30.79	-0.01	-0.01	-0.01	0.04	-0.01	11.62	100.56	2.00	-1.00
05096	40.00	13.66	18.32	0.20	6.85	10.83	2.59	0.33	3.88	2.77	0.14	99.57	329.00	1064.00
22096	45.79	0.26	10.43	0.04	15.33	25.06	0.06	0.01	-0.01	-0.01	2.08	98.88	1.00	71.00
22196	12.83	14.38	1.41	-0.01	0.41	42.30	8.51	1.17	-0.01	0.02	4.77	85.82	747.00	1775.00
22396	37.95	8.68	28.84	0.23	3.62	14.30	1.04	0.12	0.26	0.08	5.00	100.12	20.00	74.00
22496	54.14	14.38	15.31	0.18	3.94	7.91	2.05	0.57	1.28	0.15	0.59	100.49	70.00	115.00
22596	48.72	17.13	10.04	0.21	5.55	16.18	1.33	0.40	0.63	0.03	0.51	100.73	72.00	119.00
22696	91.75	4.32	0.75	-0.01	0.03	0.12	0.35	3.42	-0.01	-0.01	0.20	100.97	373.00	74.00
23096	94.34	0.16	3.93	-0.01	0.02	0.05	0.05	0.05	-0.01	-0.01	2.05	100.65	-1.00	5.00
23296	66.50	20.03	1.55	-0.01	0.10	1.42	9.40	1.27	0.11	0.06	0.53	100.97	257.00	238.00
23496	42.18	6.15	16.04	0.19	13.19	11.25	0.51	0.09	0.05	0.03	4.77	94.44	-1.00	7.00
24696	56.40	6.32	14.29	0.06	7.71	0.78	7.92	1.25	2.11	0.29	1.01	98.14	91.00	30.00

ID	SiO2 %	Al2O3 %	Fe2O3 %	MnO %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	LOI	TOTAL	Ba ppm	Sr ppm
24796	48.29	14.00	10.69	0.17	8.43	10.87	2.35	0.08	0.77	0.06	2.46	98.17	22.00	73.00
25096	44.56	6.65	10.03	0.16	22.47	9.53	1.58	0.76	0.45	0.27	2.05	98.52	183.00	624.00
25296	68.18	7.96	10.93	0.11	5.17	0.61	0.31	4.13	1.45	0.26	0.58	99.70	1504.00	47.00
25696	48.84	4.94	14.36	0.34	15.63	12.39	0.80	0.77	0.41	0.03	1.43	99.93	113.00	42.00
25596	75.17	13.09	2.45	0.03	0.83	1.53	3.25	3.82	0.23	0.16	0.38	100.93	1925.00	249.00
25996	50.30	8.54	16.83	0.29	10.57	10.03	1.04	0.76	0.26	-0.01	1.06	99.68	44.00	9.00
26196	94.45	1.28	2.18	0.02	0.45	0.12	0.23	0.38	0.14	0.02	0.25	99.51	53.00	13.00
26396	49.62	16.87	9.72	0.26	8.34	7.27	2.77	0.84	0.14	0.03	2.61	98.45	26.00	274.00
26496	46.98	13.37	19.24	0.19	4.49	7.23	1.31	1.78	1.03	0.32	1.76	97.71	41.00	103.00
26596	45.02	7.05	27.39	3.10	4.16	3.96	0.10	0.06	0.21	0.74	6.18	97.97	2.00	44.00
26696	48.22	22.81	12.96	0.05	2.06	4.82	4.47	3.02	0.55	0.06	0.42	99.45	280.00	200.00
26796	51.55	14.53	11.35	0.17	5.56	10.61	2.95	0.63	0.60	0.07	1.87	99.88	141.00	103.00
26896	57.51	2.82	26.32	0.31	0.81	0.29	0.17	0.89	0.17	0.06	10.11	99.46	109.00	5.00
27196	42.13	15.77	16.22	0.23	7.52	10.40	1.67	0.32	1.36	0.10	3.39	99.11	66.00	120.00
27296	39.41	12.81	24.53	0.43	6.17	10.55	1.43	1.72	1.11	0.16	0.50	98.82	122.00	39.00
27396	52.21	17.09	5.99	0.12	4.43	11.25	4.71	0.49	0.69	0.20	1.53	98.71	116.00	190.00
27496	96.56	0.11	1.48	0.02	0.03	0.06	0.03	0.01	-0.01	0.01	0.47	98.79	-1.00	1.00
27596	69.32	8.78	7.30	0.17	2.80	8.33	1.83	0.12	0.35	0.02	1.61	100.61	25.00	75.00
27796	82.00	0.10	11.31	-0.01	0.16	0.27	0.04	0.01	-0.01	-0.01	7.07	100.94	5.00	-1.00
28896	51.89	18.87	9.02	0.08	2.34	8.45	5.36	1.02	0.52	0.79	1.98	100.33	186.00	3951.00
29196	20.07	3.76	43.65	0.17	2.00	0.21	0.18	1.49	0.24	-0.01	23.27	93.79	76.00	29.00
29296	39.14	12.09	10.69	0.16	9.31	13.39	1.71	0.32	1.02	0.07	10.68	98.57	48.00	139.00
29396	43.06	14.22	6.18	0.09	6.03	13.90	2.73	0.51	0.62	0.07	12.30	99.69	7.00	100.00
29596	60.27	18.22	7.55	0.09	2.77	1.80	5.65	2.89	0.58	0.03	1.05	100.89	457.00	154.00
29696	50.88	11.61	18.40	0.28	8.40	3.11	3.09	1.21	0.11	0.06	2.83	99.98	378.00	390.00
29896	50.82	16.86	13.05	0.17	5.19	8.17	3.41	0.58	1.41	0.10	0.89	100.64	332.00	196.00
30196	70.09	10.84	8.51	0.01	2.52	1.89	2.21	1.87	0.50	0.02	2.26	100.72	265.00	90.00
30296	42.49	16.81	23.68	0.23	4.49	1.49	1.60	3.40	0.83	-0.01	4.62	99.58	664.00	108.00
05396	47.02	17.26	10.18	0.09	11.41	0.91	1.76	7.79	0.44	0.08	1.76	98.70	1041.00	146.00
05796	46.49	7.70	12.62	0.20	22.67	3.79	0.42	3.99	0.34	0.05	0.67	98.94	291.00	11.00
06096	71.97	13.90	2.71	0.07	0.52	1.77	5.18	3.24	0.25	0.08	0.51	100.22	742.00	533.00
06196	96.97	0.23	0.60	-0.01	0.04	0.02	0.08	0.08	-0.01	0.01	0.37	98.41	19.00	6.00
06396	87.07	4.70	2.82	0.03	0.98	0.39	0.49	1.08	0.23	0.10	0.75	98.64	125.00	32.00
06496	47.61	10.24	7.63	0.26	4.39	15.50	1.17	3.44	0.18	4.04	-0.01	94.46	34809.00	9940.00
06696	97.56	0.64	1.21	-0.01	0.25	0.05	0.09	0.14	0.06	0.02	0.39	100.40	202.00	19.00

ID	SiO2 %	Al2O3 %	Fe2O3 %	MnO %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	LOI	TOTAL	Ba ppm	Sr ppm
07496	18.84	2.85	49.40	0.05	0.91	0.04	0.08	1.71	0.29	0.05	23.78	98.00	131.00	17.00
07996	28.82	10.41	34.52	0.06	1.98	2.92	2.08	0.60	1.16	0.02	15.23	97.80	391.00	529.00
08096	68.57	5.80	19.43	0.12	1.23	0.69	0.10	2.38	0.54	0.21	1.20	100.27	458.00	48.00
08296	35.55	0.06	39.26	0.07	7.28	7.87	-0.01	0.01	-0.01	2.80	5.89	98.80	5.00	45.00
08496	92.67	0.18	3.80	0.01	0.15	0.11	0.04	0.05	-0.01	0.04	2.70	99.76	18.00	3.00
08596	68.36	15.37	1.05	0.01	0.16	0.85	3.16	8.77	0.20	0.03	0.46	98.43	1547.00	266.00
08696	68.07	12.43	9.27	0.06	4.59	0.73	1.07	2.18	0.37	0.08	2.03	100.86	104.00	94.00
08896	58.40	14.37	10.73	0.07	5.23	1.00	1.13	3.42	1.09	0.06	4.35	99.86	209.00	94.00
09296	54.94	8.60	9.11	0.18	4.35	7.59	2.74	1.02	0.70	0.08	8.85	98.16	575.00	229.00
10496	74.86	13.01	1.62	0.18	0.14	0.98	5.51	2.35	0.05	0.03	0.44	99.15	73.00	56.00
10696	96.01	0.68	2.16	0.02	0.39	0.12	0.03	0.27	0.08	0.03	0.30	100.09	15.00	1.00
10896	49.90	14.41	12.41	0.18	8.54	10.75	0.72	0.24	1.06	0.06	1.32	99.60	199.00	159.00
11096	82.61	7.70	2.65	0.02	0.91	1.50	2.26	1.04	0.42	0.08	0.25	99.43	293.00	194.00
12896	54.63	17.56	9.54	0.06	4.84	1.42	1.62	5.06	1.51	0.04	3.70	99.97	654.00	116.00
13096	62.21	12.39	7.75	0.09	4.50	0.35	10.53	0.35	0.60	0.10	0.43	99.29	731.00	58.00
13996	0.42	0.05	59.99	-0.01	0.27	1.39	0.02	0.02	-0.01	-0.01	32.13	94.29	21.00	4.00
14596	47.12	6.65	17.20	0.17	18.02	2.99	0.97	1.07	0.58	0.53	2.42	97.72	943.00	513.00
14996	26.39	7.98	34.01	0.14	4.12	1.61	0.69	2.42	1.13	0.11	20.45	99.05	68.00	32.00
15696	29.10	7.65	35.21	0.11	2.97	1.61	0.41	2.67	1.21	0.11	18.24	99.29	198.00	52.00
15896	62.14	10.59	9.40	0.07	2.34	4.40	2.93	1.04	0.61	0.05	4.96	98.54	173.00	71.00
15996	71.09	15.28	1.49	0.02	0.44	2.64	5.84	1.72	0.17	0.06	0.47	99.21	668.00	518.00
16096	50.65	1.32	42.41	0.34	4.49	1.02	0.14	0.07	0.01	0.01	-1.32	100.46	4.00	2.00
16196	80.58	0.08	12.28	-0.01	3.23	0.10	0.04	-0.01	-0.01	-0.01	2.40	98.72	4.00	2.00
16296	75.56	7.71	5.89	0.05	1.59	5.49	0.32	0.14	0.39	0.03	2.90	100.07	40.00	42.00
16496	36.34	13.45	24.99	0.16	2.42	13.74	1.82	0.17	0.26	0.13	5.51	99.00	51.00	359.00
16596	44.65	15.15	19.87	0.17	6.44	6.98	0.12	0.01	1.58	0.11	4.97	100.06	38.00	135.00
16796	42.65	6.94	29.65	0.11	0.77	8.18	0.04	-0.01	0.13	0.07	6.74	95.30	6.00	183.00
16896	64.16	16.54	4.62	0.02	0.60	2.61	5.79	2.38	0.18	0.06	0.86	97.82	595.00	442.00
17096	64.13	19.12	2.95	0.03	0.82	2.57	6.13	4.31	0.22	0.08	0.45	100.82	882.00	492.00
17296	89.13	2.46	4.69	-0.01	0.10	0.28	0.80	0.48	0.05	0.02	2.18	100.19	284.00	38.00
17396	64.77	20.09	1.26	-0.01	0.07	4.62	6.78	0.93	-0.01	0.02	0.48	99.04	546.00	514.00
17496	76.32	12.92	1.11	0.02	0.86	3.98	3.74	0.18	0.06	-0.01	0.28	99.45	149.00	332.00
17596	31.69	11.52	24.51	0.19	13.42	9.04	1.52	0.38	3.13	0.54	1.80	97.74	51.00	147.00
17696	63.00	5.31	16.28	0.58	2.74	8.89	0.36	0.30	0.23	0.08	2.04	99.79	39.00	36.00
17996	59.89	19.59	2.78	0.05	1.44	4.89	4.31	6.49	0.05	0.95	0.41	100.86	1684.00	662.00

ID	SiO2 %	Al2O3 %	Fe2O3 %	MnO %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	LOI	TOTAL	Ba ppm	Sr ppm
19096	5.25	0.93	65.11	-0.01	0.04	-0.01	0.05	0.22	0.10	0.02	26.35	98.07	46.00	3.00
19296	22.26	2.79	43.96	0.10	0.79	1.40	0.12	0.70	0.16	0.13	25.68	98.08	78.00	15.00
19396	74.53	12.46	7.41	0.20	1.98	1.02	0.84	1.24	0.77	0.04	-0.04	100.50	361.00	71.00
19496	46.74	10.53	14.04	0.14	6.58	12.65	0.41	0.87	3.29	1.04	2.16	98.45	1800.00	1797.00
20496	66.77	12.41	7.74	0.03	1.15	1.37	2.60	4.79	1.02	0.27	0.30	98.43	582.00	127.00
21096	1.96	0.35	17.58	0.04	1.40	29.85	0.11	0.01	0.01	-0.01	12.65	63.96	22.00	47.00
21196	50.06	3.54	38.39	0.22	2.15	3.41	0.22	0.69	0.13	0.15	-1.30	98.94	96.00	52.00
21696	42.22	3.62	6.91	0.31	10.41	21.98	0.45	1.10	0.30	0.06	10.26	97.61	458.00	145.00
21796	59.73	15.86	6.83	0.18	4.18	3.53	3.03	3.36	0.69	0.13	1.29	98.81	455.00	163.00
21896	65.78	14.99	7.01	0.04	1.57	2.57	4.61	1.65	0.37	0.08	1.71	100.38	335.00	450.00
05196	46.20	14.47	16.78	0.22	-0.01	9.72	6.27	0.04	0.14	0.37	3.88	98.10	5.00	2625.00
76496	16.43	3.07	49.91	0.58	1.53	6.32	0.02	0.02	0.15	1.19	17.59	96.81	11.00	43.00
76596	17.15	1.98	44.37	0.05	0.43	6.70	0.03	0.06	0.14	4.69	22.92	98.51	16.00	106.00
76996	48.08	12.96	13.28	0.21	8.99	10.15	2.61	1.69	1.09	0.05	1.84	100.95	597.00	408.00
77896	35.15	9.38	18.88	0.23	11.03	11.29	1.37	3.30	6.52	0.68	1.82	99.63	1245.00	968.00
78196	50.33	0.54	12.34	0.20	14.75	20.61	0.16	-0.01	0.05	0.01	1.83	100.83	20.00	53.00
78296	6.67	3.08	32.18	0.15	1.32	22.11	0.06	0.05	0.21	1.58	6.55	73.94	26.00	184.00
78396	12.73	4.13	41.65	0.09	1.48	9.65	0.05	0.10	0.21	4.09	19.85	94.02	28.00	164.00
78496	7.23	4.07	49.73	0.73	3.18	11.73	0.10	0.08	0.19	8.68	10.99	96.70	11.00	91.00
78896	7.90	0.35	0.98	0.08	20.53	29.18	0.08	0.19	0.01	0.02	36.07	95.39	5.00	38.00
79196	55.30	1.96	7.42	0.30	22.16	10.61	0.39	0.33	0.05	0.06	1.00	99.58	14.00	14.00
79296	50.83	2.37	7.08	0.13	15.90	22.49	0.12	0.12	0.09	-0.01	1.50	100.64	58.00	63.00
79396	85.92	2.19	4.34	0.03	2.66	3.76	0.18	0.19	0.05	0.03	1.48	100.82	94.00	35.00
79496	52.00	2.56	6.15	0.14	16.00	22.38	0.15	0.08	0.05	0.06	1.28	100.85	33.00	69.00
79596	57.75	2.68	8.36	0.11	12.05	17.45	0.14	0.17	0.07	-0.01	1.65	100.42	81.00	73.00
80196	50.53	20.51	10.26	0.02	4.70	0.35	0.98	6.54	1.13	0.04	3.60	98.66	2907.00	403.00
80696	54.43	20.52	3.32	0.03	0.61	5.66	4.88	4.46	0.32	0.13	4.51	98.85	1399.00	189.00
80796	74.67	13.44	1.15	-0.01	0.02	0.55	2.68	7.41	0.02	-0.01	0.67	100.62	273.00	258.00
81196	80.67	4.07	9.31	0.03	0.83	0.58	0.55	0.17	0.24	0.02	3.76	100.24	73.00	49.00
81296	66.87	20.15	1.06	-0.01	-0.01	4.78	6.67	0.61	-0.01	-0.01	0.35	100.50	237.00	609.00
81396	45.92	9.10	8.89	0.34	3.94	16.99	1.77	0.56	1.58	0.17	9.33	98.59	142.00	205.00
81596	53.29	13.50	16.58	0.44	6.00	8.76	1.39	0.05	0.38	-0.01	-0.19	100.20	8.00	30.00
81696	99.02	0.51	0.64	-0.01	0.01	0.25	0.09	-0.01	-0.01	-0.01	0.07	100.60	4.00	9.00
81796	41.12	17.49	18.50	0.14	6.82	2.34	2.38	5.76	1.83	0.38	2.90	99.66	2489.00	226.00
82296	88.95	5.70	1.61	0.01	0.18	0.23	2.26	1.40	0.06	0.15	0.34	100.89	214.00	49.00

ID	SiO2 %	Al2O3 %	Fe2O3 %	MnO %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	LOI	TOTAL	Ba ppm	Sr ppm
82396	71.36	12.51	5.27	0.04	3.07	2.32	2.51	2.04	0.51	0.10	1.15	100.89	373.00	170.00
82496	98.90	0.17	0.79	-0.01	0.02	0.07	0.03	-0.01	0.01	0.19	0.24	100.43	4.00	4.00
82896	66.68	3.76	10.62	0.11	1.89	4.67	2.01	0.15	0.18	0.27	8.83	99.17	76.00	115.00
82996	68.99	3.14	9.38	0.08	1.69	4.08	1.71	0.12	0.17	-0.01	9.30	98.48	64.00	129.00
83096	72.84	6.15	9.02	0.18	7.78	0.26	0.29	1.46	0.24	0.06	1.21	99.49	157.00	12.00
83196	87.22	2.06	3.46	0.05	0.86	2.03	1.08	0.12	0.08	0.02	3.59	100.58	41.00	48.00
83296	62.29	15.22	7.58	0.03	2.30	1.27	5.05	1.39	0.98	0.09	4.04	100.24	720.00	97.00
83396	85.60	1.22	4.63	0.03	0.72	1.80	0.64	0.07	0.09	0.05	4.11	98.96	32.00	55.00
83496	59.33	14.72	9.08	0.05	3.53	1.39	4.55	1.24	0.89	0.05	4.53	99.36	508.00	78.00
83596	38.49	2.20	2.58	0.29	1.13	45.34	0.07	0.02	0.13	-0.01	10.04	100.28	6.00	190.00
84096	64.14	12.16	5.85	0.03	1.24	1.44	2.16	3.44	0.46	0.07	6.56	97.55	433.00	111.00
84196	27.27	4.02	55.31	0.23	11.12	1.39	0.12	0.11	0.20	0.07	-0.64	99.21	5.00	2.00
84296	91.49	1.22	3.79	0.01	0.99	1.23	0.13	0.43	0.02	0.03	1.31	100.64	114.00	14.00
84496	45.94	21.60	15.91	0.13	6.20	3.92	2.37	1.29	1.15	-0.01	2.31	100.82	522.00	713.00
84596	64.71	0.45	4.90	0.19	4.93	10.13	0.04	0.04	0.03	-0.01	13.57	98.99	19.00	192.00
84696	40.90	0.96	10.09	0.10	37.00	0.06	0.02	-0.01	0.03	-0.01	10.51	99.66	19.00	9.00
84996	48.62	4.83	14.15	0.14	16.19	11.08	0.80	0.65	0.55	0.32	2.94	100.27	493.00	321.00
85096	48.49	3.47	13.49	0.15	17.61	10.14	0.29	1.31	0.82	0.43	2.30	98.50	1056.00	109.00
85196	49.26	1.82	30.87	0.03	0.78	0.21	0.04	0.61	0.43	0.15	15.09	99.29	576.00	26.00
85296	51.76	16.81	9.52	0.16	3.20	5.67	4.30	2.93	1.94	1.17	2.92	100.39	1876.00	1541.00
85496	34.70	8.80	5.83	0.03	4.44	4.12	1.76	1.91	0.30	0.06	36.77	98.73	356.00	84.00
85596	38.66	9.84	5.76	0.04	3.44	5.66	1.65	1.50	0.53	0.20	32.16	99.44	268.00	274.00
60296	50.08	16.52	9.10	0.19	5.30	10.57	2.77	0.37	2.17	0.57	1.90	99.52	82.00	877.00
60396	64.47	10.20	11.49	0.03	1.72	1.72	1.83	2.86	0.38	0.03	3.49	98.21	644.00	162.00
60696	17.23	1.17	60.82	0.02	0.21	0.14	0.09	0.42	0.43	0.03	16.38	96.93	64.00	7.00
61196	50.47	13.38	12.14	0.19	3.67	7.53	3.65	1.63	2.99	0.74	1.89	98.25	527.00	780.00
61396	62.42	17.14	4.22	0.04	1.50	2.39	3.80	5.22	0.57	0.35	1.98	99.63	1126.00	428.00
61796	58.22	3.42	17.16	0.31	6.26	10.52	0.71	0.07	0.29	0.15	2.95	100.05	20.00	42.00
62596	42.69	9.41	10.79	0.23	14.89	15.12	0.99	0.36	0.39	-0.01	3.93	98.80	91.00	84.00
62896	55.37	13.18	10.79	0.13	2.61	5.32	3.69	1.38	1.52	0.28	3.80	98.07	329.00	172.00
62996	97.42	0.05	0.49	-0.01	-0.01	0.10	-0.01	-0.01	-0.01	0.01	0.06	98.14	1.00	2.00
63096	69.84	0.63	1.03	0.20	0.28	17.14	0.11	0.10	0.03	0.02	8.69	98.08	12.00	69.00
63396	58.94	19.57	4.20	0.08	1.00	6.34	6.59	0.59	0.41	0.15	1.55	99.44	184.00	718.00
63496	73.96	14.15	0.70	0.02	0.09	1.18	2.67	6.45	0.04	0.03	0.42	99.70	804.00	277.00
63596	74.34	11.99	2.16	0.03	1.20	2.34	2.20	3.15	0.26	0.16	1.69	99.53	479.00	105.00

ID	SiO2 %	Al2O3 %	Fe2O3 %	MnO %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	LOI	TOTAL	Ba ppm	Sr ppm
63996	61.94	13.78	7.63	0.02	2.30	0.53	0.76	5.72	0.57	0.13	6.14	99.52	833.00	36.00
64196	53.58	1.74	22.26	0.83	3.41	7.58	0.07	0.09	0.08	0.47	4.68	94.77	16.00	86.00
64896	92.03	0.74	3.73	0.02	0.05	0.17	0.21	0.10	0.02	0.02	1.08	98.15	16.00	14.00
64996	49.28	12.63	9.39	0.11	1.93	4.92	0.84	1.33	0.67	0.22	19.02	100.34	564.00	169.00
65996	58.72	14.89	11.01	0.13	2.31	5.82	0.96	1.55	0.82	0.26	4.10	100.58	673.00	197.00
66396	45.86	3.47	43.34	0.24	2.90	2.74	0.22	0.28	0.13	0.11	-1.21	99.29	37.00	45.00
66496	49.41	3.77	40.21	0.26	2.33	2.41	0.07	0.03	0.12	0.17	-2.12	98.78	8.00	20.00
66796	42.90	18.12	21.33	0.29	7.46	3.67	2.49	0.34	1.26	0.05	2.43	100.32	306.00	317.00
66896	60.17	17.70	7.16	0.10	2.41	4.89	4.28	1.83	0.67	0.23	0.50	99.93	347.00	230.00
67196	56.77	0.19	42.83	0.03	0.05	0.01	0.02	0.04	-0.01	0.03	0.21	100.18	7.00	2.00
67296	70.01	2.17	5.21	0.08	9.02	12.64	0.11	0.32	0.08	0.08	1.17	100.89	114.00	49.00
67396	94.61	1.02	2.18	-0.01	0.14	0.10	0.16	0.15	0.10	0.03	1.02	99.51	12.00	7.00
67496	97.15	0.16	1.86	-0.01	0.01	0.02	0.01	0.04	0.05	0.02	1.03	100.36	3.00	2.00
67596	48.80	2.65	10.71	0.12	14.83	21.25	0.12	0.14	0.10	0.08	2.02	100.81	56.00	69.00
67996	52.27	11.24	19.75	0.45	2.25	6.55	2.29	0.13	2.57	0.36	0.59	98.44	21.00	64.00
68096	42.21	10.79	22.80	0.34	6.68	13.08	0.36	0.02	2.47	0.10	-0.79	98.84	5.00	10.00
68396	51.38	0.63	12.42	0.27	14.17	20.34	0.20	0.02	0.03	0.02	1.28	100.75	9.00	62.00
68496	45.70	15.71	15.45	0.22	7.17	8.32	0.57	0.09	1.29	0.05	4.24	98.81	71.00	566.00
68696	56.78	19.08	8.01	0.11	3.07	2.64	2.49	2.45	1.19	0.01	2.25	98.07	210.00	102.00
69096	61.66	3.52	20.51	1.78	4.26	4.38	0.08	0.04	0.14	0.30	2.86	99.55	6.00	39.00
69196	47.62	14.84	24.26	0.08	0.86	0.69	6.30	1.97	0.49	0.12	1.47	98.69	385.00	199.00
69396	70.80	14.11	5.66	0.01	1.73	0.24	1.60	2.06	0.24	0.09	1.53	98.08	452.00	95.00
70096	48.98	2.44	4.69	0.24	6.94	14.08	0.02	0.76	0.07	0.03	16.73	94.97	134.00	252.00
70396	35.52	8.48	16.14	0.27	7.64	13.37	1.98	3.71	4.58	1.65	4.96	98.31	1065.00	1370.00
70596	66.11	16.81	3.17	0.05	1.36	2.25	3.64	2.36	0.39	0.13	2.02	98.28	477.00	317.00
71396	48.75	2.81	27.35	0.42	14.53	2.41	0.54	0.14	0.12	0.80	0.67	98.54	35.00	51.00
71496	83.32	3.90	1.82	0.08	0.55	5.31	1.14	0.45	0.08	0.05	1.95	98.65	41.00	82.00
71596	11.18	2.34	65.97	0.09	0.47	0.77	0.24	0.33	0.10	-0.01	15.88	97.39	31.00	6.00
71696	53.11	18.80	11.01	0.12	4.32	4.18	4.65	0.99	0.16	0.01	2.61	99.97	330.00	404.00
71896	60.81	15.78	5.61	0.08	1.36	4.78	4.07	1.60	0.64	0.15	4.69	99.57	396.00	355.00
72396	39.60	15.45	12.31	0.22	5.09	17.15	0.70	0.21	0.83	0.05	3.87	95.49	16.00	83.00
72696	54.04	20.38	6.87	0.08	1.73	6.15	5.09	1.26	1.85	0.33	0.99	98.77	734.00	850.00
72896	47.93	5.26	28.20	4.24	4.67	7.60	0.05	0.04	0.20	0.10	0.70	99.00	7.00	48.00
73196	52.17	6.97	9.84	0.16	16.72	9.07	1.20	0.88	0.49	0.14	1.13	98.77	543.00	551.00
73796	65.25	3.24	16.85	0.01	0.42	1.11	0.41	0.40	0.12	-0.01	12.30	100.07	122.00	82.00

ID	SiO2 %	Al2O3 %	Fe2O3 %	MnO %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	LOI	TOTAL	Ba ppm	Sr ppm
74596	60.48	12.97	11.61	0.18	5.27	3.54	3.89	0.30	0.64	0.11	1.71	100.71	100.00	79.00
74696	69.84	12.60	1.33	0.01	1.01	0.16	1.04	9.85	0.13	0.04	2.39	98.41	1325.00	34.00
74896	44.40	3.63	20.00	0.16	17.88	5.77	0.36	1.17	0.83	0.45	3.97	98.61	959.00	125.00
74996	10.05	1.72	49.36	-0.01	0.42	0.10	0.09	0.40	0.20	0.02	34.99	97.34	83.00	6.00
75096	8.22	1.14	50.03	-0.01	0.12	-0.01	0.03	0.28	0.14	0.01	36.47	96.44	48.00	2.00
75196	7.93	1.46	51.09	-0.01	0.17	-0.01	0.02	0.28	0.16	-0.01	35.74	96.86	43.00	1.00
75296	69.72	11.32	6.57	0.02	0.50	2.14	2.54	2.43	0.17	-0.01	3.22	98.62	580.00	33.00
75396	74.68	12.11	4.30	0.06	1.32	1.61	5.45	0.08	0.21	0.04	0.84	100.70	15.00	42.00
30596	35.32	0.14	30.64	0.02	8.45	14.67	0.03	-0.01	-0.01	0.83	7.91	98.02	4.00	48.00
30796	35.89	5.27	30.18	0.08	1.05	2.22	0.23	0.42	0.77	0.06	22.05	98.22	34.00	24.00
30996	37.48	8.14	23.42	0.14	2.67	2.86	0.33	1.12	1.04	0.05	21.34	98.59	37.00	27.00
31196	85.03	0.41	10.38	-0.01	0.06	0.08	0.06	0.02	0.03	0.02	2.49	98.57	4.00	3.00
31296	66.54	9.78	10.66	0.14	2.66	5.76	2.05	0.82	1.33	0.18	0.49	100.41	153.00	163.00
31396	92.88	0.87	2.53	0.01	0.26	0.37	0.16	0.14	0.17	0.06	0.72	98.17	53.00	21.00
31696	72.22	14.37	0.52	-0.01	0.14	0.10	1.00	11.60	0.04	-0.01	0.13	100.14	2012.00	238.00
31796	96.47	0.13	2.41	0.02	0.01	0.02	0.02	0.03	0.02	-0.01	-0.07	99.14	5.00	2.00
31996	46.42	2.48	40.01	2.34	5.06	2.35	0.11	0.03	0.19	0.62	-1.28	99.60	9.00	38.00
32196	71.16	14.59	5.89	0.02	0.07	2.09	5.26	1.25	0.10	0.02	0.36	100.81	366.00	323.00
32296	62.01	14.10	6.07	0.05	0.71	4.17	2.20	2.05	0.83	0.10	7.85	100.12	269.00	148.00
32396	0.49	0.06	35.36	0.02	0.09	1.53	-0.01	-0.01	-0.01	0.02	23.24	60.79	11.00	5.00
32496	75.54	12.36	2.96	0.09	1.35	5.37	1.32	0.28	0.47	0.20	0.79	100.73	37.00	158.00
32596	66.78	12.67	10.59	0.10	3.09	2.13	2.08	1.27	0.87	0.02	0.45	100.04	403.00	157.00
32696	43.89	14.59	22.01	0.32	8.89	7.45	1.10	0.07	0.95	0.07	0.23	99.56	10.00	57.00
32796	43.39	3.10	12.24	0.16	35.87	0.71	0.17	1.73	0.12	-0.01	0.70	98.18	16.00	5.00
33496	48.71	3.30	16.08	0.29	23.83	1.01	0.17	0.08	0.26	0.13	3.82	97.66	63.00	8.00
33896	75.10	11.31	3.39	0.02	1.56	2.80	2.90	0.86	0.37	0.02	0.54	98.88	198.00	185.00
33996	0.22	0.04	-0.01	-0.01	0.02	32.69	0.01	-0.01	-0.01	-0.01	20.95	53.80	-1.00	137.00
34196	57.98	15.02	10.80	0.11	3.75	2.16	2.80	3.77	1.29	0.13	0.69	98.51	720.00	185.00
34296	47.66	11.72	17.04	0.23	5.37	8.82	2.48	0.51	4.80	0.57	0.82	100.03	214.00	385.00
34596	54.94	16.10	14.60	0.14	4.53	4.07	2.13	1.80	1.43	0.13	0.65	100.52	307.00	71.00
35696	48.52	6.43	15.56	0.25	18.07	7.30	0.69	0.52	0.84	0.08	1.93	100.20	91.00	24.00
36096	70.08	7.15	6.67	0.12	7.22	5.10	2.60	0.08	0.31	0.04	1.24	100.61	13.00	107.00
36196	73.55	15.11	1.20	0.01	0.30	0.66	7.08	2.26	0.09	0.03	0.25	100.55	842.00	110.00
36296	45.86	5.48	30.57	2.16	3.45	4.21	0.11	0.03	0.27	1.51	6.03	99.68	7.00	31.00
36496	2.67	0.83	57.31	-0.01	0.02	0.02	0.03	0.08	0.20	-0.01	31.91	93.09	13.00	-1.00

ID	SiO2 %	Al2O3 %	Fe2O3 %	MnO %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	LOI	TOTAL	Ba ppm	Sr ppm
36896	72.88	13.47	1.06	0.10	0.13	0.94	1.91	7.57	0.04	0.07	0.31	98.46	97.00	44.00
36996	72.48	14.47	2.56	0.04	1.01	2.39	4.24	2.90	0.22	0.06	0.32	100.68	412.00	237.00
37196	35.45	18.80	14.87	0.16	13.16	9.94	1.07	1.22	1.36	0.40	1.67	98.10	240.00	283.00
37996	44.77	3.37	11.75	0.15	33.66	1.83	0.14	0.01	0.10	0.01	4.54	100.33	46.00	12.00
38096	43.65	6.77	11.36	0.15	26.63	5.38	0.29	0.04	0.26	0.01	3.57	98.10	4.00	19.00
38196	38.49	14.12	24.42	0.26	9.59	0.06	0.17	8.28	2.25	0.01	1.18	98.82	571.00	7.00
38296	41.72	3.37	11.48	0.17	37.58	3.05	0.30	0.37	0.13	0.01	1.53	99.71	12.00	7.00
38696	42.23	3.53	10.43	0.15	36.78	3.01	0.26	0.34	0.14	0.02	2.09	98.97	15.00	8.00
38896	52.86	3.61	9.30	0.15	27.72	3.70	0.48	0.54	0.11	-0.01	1.59	100.06	102.00	33.00
39196	40.60	5.52	32.78	0.19	6.10	3.68	0.21	1.15	0.37	0.28	7.39	98.28	171.00	9.00
39296	73.04	4.85	11.87	0.31	2.04	3.82	0.37	0.28	0.28	0.29	2.44	99.57	91.00	20.00
39396	44.19	12.34	15.81	0.29	5.02	10.57	2.35	0.46	2.39	0.16	4.50	98.09	34.00	123.00
39496	29.19	11.68	31.87	0.26	3.51	7.31	1.19	0.76	3.22	0.14	8.83	97.93	61.00	72.00
39596	45.66	8.35	18.68	0.36	8.47	8.22	0.46	0.65	1.17	0.21	5.94	98.17	181.00	36.00
39696	11.63	2.98	53.81	-0.01	0.27	0.24	0.45	0.68	0.41	0.03	27.76	98.24	48.00	44.00
39796	91.62	0.13	5.93	0.01	0.03	0.08	0.04	0.01	0.01	-0.01	2.62	100.49	4.00	2.00
39896	50.76	18.87	9.87	0.26	0.91	4.99	6.22	0.63	8.35	-0.01	-0.18	100.87	68.00	236.00
39996	38.30	4.59	38.04	0.12	3.96	5.32	0.44	0.14	0.22	0.67	6.94	98.75	8.00	24.00
40096	89.79	2.00	4.93	0.01	0.31	1.08	0.18	0.15	0.14	0.04	1.98	100.61	88.00	14.00
40196	40.48	16.45	25.06	0.21	5.54	4.28	1.10	5.24	1.44	0.11	0.55	100.44	487.00	123.00
40396	8.14	1.61	67.61	-0.01	0.40	0.79	0.38	0.13	0.14	0.05	13.50	92.75	51.00	9.00
40596	1.54	0.10	0.47	0.08	22.76	34.74	0.02	-0.01	-0.01	-0.01	40.15	99.84	13.00	45.00
40696	50.80	12.76	13.24	0.17	2.99	16.53	0.14	0.15	1.75	0.26	2.14	100.93	18.00	624.00
40796	66.75	11.61	11.68	0.28	2.22	3.26	1.04	1.84	0.45	0.10	1.69	100.92	225.00	62.00
41296	95.82	0.48	0.82	-0.01	0.09	0.11	0.06	0.10	0.03	0.02	0.03	97.55	19.00	5.00
41796	44.24	4.32	11.40	0.16	31.41	2.26	0.04	0.05	0.26	0.04	4.22	98.40	3.00	90.00
41996	35.56	11.10	33.58	0.12	3.65	3.27	2.73	0.40	0.10	0.02	7.66	98.18	263.00	210.00
42096	41.76	2.85	32.73	0.87	4.59	3.38	0.11	0.44	0.21	0.42	10.72	98.07	42.00	24.00
42196	45.10	13.22	12.69	0.15	4.31	8.38	3.27	1.94	3.47	0.88	0.66	94.07	371.00	571.00
42496	17.53	1.25	57.08	0.02	0.56	0.99	0.19	0.11	0.12	0.11	16.18	94.15	41.00	24.00
42596	49.10	3.48	13.11	0.22	8.07	14.37	0.75	0.16	0.05	0.04	1.54	90.89	31.00	74.00
43096	53.67	15.60	7.69	0.06	4.11	1.24	2.18	4.18	0.70	0.15	1.69	91.27	838.00	97.00
43196	51.07	0.01	1.47	0.01	0.02	0.04	0.01	-0.01	-0.01	0.03	3.61	56.27	8.00	-1.00
43396	51.63	2.57	5.22	0.15	8.08	10.26	0.04	0.21	0.06	0.14	13.64	92.00	617.00	68.00
44096	45.72	10.05	36.98	0.40	2.84	2.85	0.09	0.10	0.31	0.13	0.32	99.80	44.00	8.00

ID	SiO2 %	Al2O3 %	Fe2O3 %	MnO %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	LOI	TOTAL	Ba ppm	Sr ppm
44396	78.68	13.36	1.92	0.02	0.32	3.68	0.70	0.67	0.37	0.06	0.75	100.54	186.00	154.00
44796	26.19	0.11	0.61	-0.01	0.04	0.18	0.03	0.03	-0.01	-0.01	5.16	32.32	11.00	3.00
45296	13.79	2.34	62.29	0.03	0.91	1.71	0.54	0.16	0.29	0.07	16.74	98.87	70.00	22.00
45396	62.92	16.74	2.40	0.03	1.38	3.85	3.97	1.76	0.18	0.03	0.75	94.01	231.00	388.00
45496	80.79	5.49	0.55	-0.01	0.73	0.86	0.97	2.59	0.24	0.09	1.02	93.32	10197.00	115.00
45596	59.74	13.61	7.29	0.10	3.34	5.96	3.07	0.99	0.52	0.22	1.21	96.04	679.00	486.00
45996	67.43	12.23	5.60	0.03	0.25	1.80	3.70	1.85	2.17	0.02	0.28	95.35	1251.00	480.00
46196	64.74	14.15	2.75	0.09	0.77	2.33	3.98	3.54	0.35	0.13	0.99	93.82	777.00	522.00
46396	0.48	0.13	1.39	0.11	0.20	5.96	0.04	0.11	-0.01	-0.01	-6.23	8.43	13.00	15.00
46796	40.36	11.06	14.12	0.04	21.56	0.21	0.19	0.02	0.12	0.16	2.15	89.99	4.00	3.00
46896	25.80	2.65	32.22	0.07	16.05	3.16	0.04	0.06	0.19	0.02	13.18	93.44	7.00	5.00
46996	45.02	12.09	14.23	0.24	4.92	11.83	0.81	0.28	0.86	0.14	2.47	92.89	34.00	137.00
47696	44.78	20.59	16.25	0.45	4.18	3.00	2.48	0.63	0.96	0.05	-0.64	93.37	594.00	432.00
48196	4.96	3.18	36.71	0.71	0.86	19.65	0.03	0.02	0.15	0.21	8.66	75.13	12.00	252.00
48796	70.98	12.19	2.03	0.02	0.45	2.57	3.51	1.16	0.13	0.02	0.57	93.62	672.00	254.00
49196	32.47	5.19	17.67	0.22	15.32	12.21	1.29	1.20	3.77	0.74	2.37	92.45	438.00	888.00
49296	44.45	16.64	12.41	0.13	4.90	2.89	3.89	4.49	1.28	0.88	1.18	93.13	822.00	324.00
50596	69.89	10.33	2.79	0.01	0.43	0.67	6.11	0.10	0.10	0.06	2.19	92.68	40.00	18.00
50796	55.99	12.00	18.08	0.31	2.51	3.47	0.14	0.86	0.39	0.09	1.84	95.67	119.00	114.00
51196	66.90	3.07	9.21	-0.01	0.27	0.09	0.06	1.10	0.87	0.03	18.22	99.82	190.00	4.00
51696	47.88	20.28	7.64	0.01	3.37	0.60	1.60	5.69	0.66	0.02	5.18	92.93	1361.00	186.00
51896	50.69	3.97	15.38	0.23	20.26	6.79	0.39	1.33	0.25	0.06	1.07	100.40	225.00	78.00
51996	76.92	9.97	3.02	0.02	0.81	0.24	1.93	4.82	0.28	0.09	0.20	98.32	809.00	62.00
52596	95.09	1.12	0.91	-0.01	0.02	0.04	0.22	0.65	-0.01	0.01	0.08	98.15	98.00	14.00
53396	91.36	1.88	3.94	0.03	1.06	0.06	0.07	0.76	0.38	0.01	0.98	100.52	51.00	5.00
53496	61.02	11.05	9.55	0.14	6.87	8.64	0.98	0.63	0.49	0.02	1.18	100.56	40.00	82.00
54596	9.91	0.68	5.00	60.06	0.49	6.91	0.01	0.02	0.13	0.07	3.95	87.23	12647.00	145.00
54996	15.91	4.07	74.80	0.36	1.07	0.40	0.53	1.26	2.44	0.01	-0.01	98.77	195.00	39.00
55096	90.76	0.44	8.70	0.19	0.06	0.05	0.06	0.15	0.14	-0.01	0.38	100.95	91.00	3.00
55196	91.86	0.68	7.11	0.03	0.08	0.05	0.10	0.15	0.09	-0.01	0.57	100.71	19.00	4.00
55296	54.39	11.32	8.75	0.20	7.27	14.05	0.48	0.49	0.46	0.10	2.99	100.52	804.00	202.00
55396	65.98	16.57	5.60	0.02	0.60	3.01	4.07	2.67	0.46	0.10	1.69	100.77	496.00	388.00
56596	71.84	10.61	6.18	0.07	3.40	2.01	1.36	1.22	0.39	0.08	3.57	100.72	315.00	135.00
56696	53.18	0.12	32.61	0.17	4.22	3.50	0.01	0.02	0.01	2.43	4.33	100.61	5.00	53.00
56796	61.92	15.66	5.78	0.08	3.44	4.84	7.87	0.08	0.39	0.05	0.59	100.71	41.00	136.00

ID	SiO2 %	Al2O3 %	Fe2O3 %	MnO %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	LOI	TOTAL	Ba ppm	Sr ppm
56896	42.37	20.51	21.14	0.32	6.42	3.73	2.35	0.53	1.35	0.10	2.15	100.97	284.00	297.00
57496	63.71	18.99	3.02	0.01	0.18	1.18	4.51	7.19	0.05	-0.01	1.11	99.95	1963.00	1137.00
57696	60.74	14.02	6.33	0.06	2.74	2.05	2.13	3.86	0.57	0.12	8.22	100.84	608.00	116.00
58596	1.64	12.62	22.37	0.15	0.64	2.37	2.46	0.43	-0.01	-0.01	17.23	58.94	37533.00	185683.00
58696	65.31	13.50	10.85	0.11	2.38	1.16	2.61	3.53	0.50	0.03	0.90	100.89	774.00	621.00
58796	66.73	1.80	24.26	0.15	1.64	2.27	0.09	0.11	0.08	0.14	1.91	99.17	63.00	175.00
58896	44.11	7.49	19.77	0.21	13.36	9.46	1.82	0.62	2.89	0.13	0.05	99.92	232.00	313.00
59096	67.35	0.89	26.34	0.12	2.97	1.45	0.06	0.09	0.08	0.15	1.45	100.95	15.00	36.00
59196	38.21	18.47	30.41	0.70	3.99	5.77	0.23	0.24	0.03	2.37	-0.01	100.01	54.00	47.00
59396	56.60	5.16	30.29	0.31	2.20	1.68	0.25	0.33	0.14	0.19	2.27	99.41	72.00	32.00
59596	43.12	9.70	29.49	0.03	1.04	0.75	1.13	3.29	0.37	0.07	10.31	99.30	663.00	96.00
59796	60.80	18.33	6.01	0.06	2.85	1.68	2.25	4.01	0.47	0.05	3.77	100.27	631.00	139.00
60096	23.07	2.93	44.77	0.11	2.30	0.89	0.05	1.53	1.82	0.69	21.07	99.23	213.00	102.00
60196	37.81	5.31	31.51	0.17	3.35	1.45	0.14	3.13	3.11	1.09	12.40	99.48	1097.00	169.00
84396	50.91	6.18	1385.00	0.19	18.65	6.81	0.98	0.87	0.61	0.17	0.94	99.55	685.00	435.00
85896	48.10	16.20	7.53	0.19	4.78	12.00	3.53	0.87	2.54	0.21	2.50	98.50	527.00	440.00
85996	52.70	12.00	9.62	0.08	7.89	6.68	1.84	2.74	1.21	0.22	3.74	98.70	359.00	160.00
86496	47.70	3.10	17.60	0.67	6.75	19.70	0.70	0.98	0.11	0.08	1.10	98.50	230.00	182.00
87296	55.00	19.40	7.27	0.07	1.53	3.90	4.89	3.46	1.18	0.33	2.38	99.40	737.00	283.00
87396	49.70	13.50	12.00	0.34	7.30	3.29	1.62	1.99	0.97	0.08	7.31	98.10	416.00	121.00
87596	34.80	7.25	17.70	0.24	13.70	12.40	1.14	2.16	4.25	0.61	3.95	98.20	773.00	620.00
87896	75.40	8.44	5.01	0.10	1.72	0.54	1.08	1.96	0.40	0.06	4.04	98.70	406.00	54.00
87996	56.60	2.11	25.30	0.03	0.66	0.11	0.11	0.67	0.13	0.05	12.60	98.30	702.00	45.00
88096	36.50	8.07	18.40	0.21	8.47	14.60	1.18	2.50	5.18	0.40	2.97	98.40	1930.00	836.00
88496	42.40	7.54	23.50	0.27	5.11	2.43	0.63	3.41	4.15	1.45	7.20	98.10	607.00	305.00
89496	33.10	7.68	2.78	0.05	4.16	33.40	0.61	0.19	0.25	0.15	16.00	98.30	241.00	318.00
89796	38.50	7.30	33.10	0.12	1.67	0.48	0.15	2.22	0.79	0.32	14.80	99.40	448.00	33.00
89896	37.60	6.61	27.80	0.21	6.56	2.23	0.05	3.57	3.26	1.41	8.77	98.00	384.00	207.00
89996	24.90	1.40	9.15	0.15	28.30	9.26	0.14	0.53	1.59	0.29	18.50	94.20	592.00	792.00
90096	41.40	13.00	12.60	0.13	1.09	16.00	4.43	0.21	0.55	0.11	2.83	92.40	28.00	1500.00
90196	64.90	13.10	7.08	0.18	4.70	0.93	1.65	1.59	0.67	0.07	3.79	98.70	505.00	197.00
90396	48.40	13.70	19.80	0.26	6.12	7.37	0.38	0.33	0.59	0.05	2.29	99.20	78.00	104.00
90896	59.70	16.30	4.77	0.06	2.69	3.88	2.99	1.97	0.36	0.13	5.55	98.40	387.00	378.00
91096	66.10	12.80	7.22	0.06	3.02	1.06	4.80	0.36	0.50	0.15	2.15	98.20	67.00	112.00
91196	34.50	10.90	35.00	0.11	3.46	3.46	2.13	0.93	0.85	0.18	6.86	98.40	296.00	218.00

ID	SiO2 %	Al2O3 %	Fe2O3 %	MnO %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	LOI	TOTAL	Ba ppm	Sr ppm
91596	47.60	19.10	19.60	0.36	4.36	0.68	1.36	2.61	0.19	0.09	2.45	98.40	422.00	73.00
91796	56.10	20.30	8.16	0.12	3.09	0.39	1.67	4.99	0.07	0.09	3.13	98.00	619.00	90.00
91896	58.30	19.60	8.19	0.04	3.73	1.27	2.16	1.98	0.69	0.06	2.18	98.20	176.00	68.00
92096	68.90	12.50	5.85	0.07	1.97	0.54	2.54	2.45	0.68	0.24	2.05	97.80	526.00	145.00
93696	49.90	12.50	16.40	0.18	3.21	5.18	2.95	1.50	2.25	0.83	2.72	97.60	1120.00	409.00
93896	36.20	3.60	32.50	1.45	3.00	6.12	0.58	0.12	0.17	0.24	10.20	94.20	30.00	42.00
85796	91.20	3.42	1.37	0.02	0.15	0.72	1.14	0.25	0.05	0.03	0.31	98.70	36.00	40.00
86696	67.80	1.85	18.60	0.03	1.00	0.12	0.08	0.35	0.09	0.04	8.71	98.60	102.00	28.00
86796	75.40	1.65	15.70	0.01	0.14	0.19	0.02	0.30	0.08	0.11	3.09	96.70	16500.00	27.00
88196	11.10	0.18	2.79	0.06	2.39	44.90	0.04	-0.01	-0.01	0.01	32.50	94.00	38.00	714.00
88396	79.90	0.63	9.38	0.01	0.15	0.25	0.14	0.06	0.03	0.02	2.92	93.50	31.00	11.00
92496	31.30	33.90	19.90	0.05	0.80	0.87	1.54	1.69	1.87	-0.01	6.36	98.30	77.00	88.00
93796	57.10	10.90	22.90	0.10	0.14	2.09	4.27	0.40	0.89	0.02	-0.01	98.40	141.00	234.00

Y ppm	Zr ppm	Be ppm	V ppm
19.00	578.00	-1.00	25.00
15.00	101.00	2.00	261.00
19.00	48.00	1.00	22.00
-1.00	0.00	4.00	-1.00
21.00	48.00	1.00	7.00
13.00	193.00	-1.00	122.00
6.00	113.00	-1.00	57.00
2.00	129.00	-1.00	23.00
-1.00	0.00	2.00	-1.00
20.00	69.00	3.00	311.00
8.00	42.00	-1.00	122.00
2.00	3.00	-1.00	106.00
7.00	140.00	1.00	122.00
-1.00	30.00	-1.00	22.00
19.00	26.00	3.00	59.00
11.00	76.00	-1.00	90.00
4.00	56.00	-1.00	175.00
39.00	350.00	3.00	505.00
15.00	251.00	2.00	173.00
25.00	230.00	4.00	317.00
32.00	241.00	3.00	241.00
4.00	16.00	2.00	238.00
18.00	56.00	1.00	186.00
2.00	192.00	-1.00	73.00
25.00	28.00	2.00	324.00
8.00	7.00	-1.00	40.00
24.00	5.00	14.00	8.00
7.00	43.00	-1.00	116.00
28.00	91.00	-1.00	273.00
14.00	29.00	1.00	221.00
-1.00	-1.00	-1.00	-1.00
-1.00	9.00	-1.00	-1.00
2.00	69.00	-1.00	10.00
16.00	6.00	-1.00	76.00
17.00	732.00	57.00	225.00

Y ppm	Zr ppm	Be ppm	V ppm
17.00	38.00	-1.00	272.00
11.00	54.00	1.00	103.00
6.00	86.00	-1.00	157.00
15.00	27.00	1.00	172.00
4.00	33.00	-1.00	25.00
17.00	39.00	1.00	106.00
-1.00	177.00	-1.00	15.00
21.00	42.00	1.00	58.00
14.00	87.00	1.00	184.00
73.00	56.00	1.00	98.00
29.00	36.00	-1.00	112.00
15.00	63.00	-1.00	172.00
12.00	29.00	1.00	397.00
31.00	68.00	6.00	372.00
50.00	67.00	4.00	248.00
27.00	181.00	4.00	77.00
-1.00	4.00	-1.00	-1.00
3.00	17.00	-1.00	115.00
1.00	4.00	-1.00	-1.00
15.00	110.00	-1.00	210.00
15.00	56.00	2.00	557.00
19.00	53.00	-1.00	267.00
11.00	33.00	-1.00	218.00
13.00	86.00	4.00	151.00
10.00	31.00	3.00	30.00
27.00	69.00	2.00	344.00
3.00	156.00	10.00	158.00
16.00	136.00	5.00	197.00
4.00	124.00	124.00	1.00
12.00	45.00	45.00	1.00
18.00	176.00	2.00	14.00
-1.00	4.00	-1.00	-5.00
4.00	41.00	-1.00	35.00
98.00	56.00	1.00	48.00
-1.00	9.00	-1.00	8.00

Y ppm	Zr ppm	Be ppm	V ppm
12.00	49.00	1.00	421.00
2.00	64.00	-1.00	142.00
10.00	46.00	2.00	502.00
30.00	12.00	-1.00	3.00
-1.00	67.00	-1.00	35.00
13.00	48.00	1.00	10.00
14.00	149.00	2.00	87.00
15.00	92.00	2.00	244.00
11.00	43.00	4.00	241.00
21.00	12.00	7.00	-5.00
1.00	4.00	-1.00	16.00
21.00	52.00	-1.00	305.00
1.00	138.00	1.00	42.00
11.00	136.00	1.00	295.00
24.00	114.00	3.00	164.00
-1.00	15.00	-1.00	-5.00
34.00	33.00	-1.00	92.00
27.00	96.00	3.00	759.00
31.00	103.00	2.00	727.00
23.00	97.00	1.00	191.00
1.00	84.00	1.00	11.00
4.00	14.00	1.00	-5.00
-1.00	3.00	-1.00	-5.00
13.00	61.00	1.00	115.00
12.00	43.00	2.00	70.00
34.00	90.00	2.00	418.00
7.00	16.00	4.00	31.00
4.00	161.00	2.00	13.00
8.00	302.00	2.00	17.00
3.00	21.00	-1.00	-5.00
4.00	24.00	3.00	-5.00
1.00	36.00	5.00	7.00
52.00	298.00	2.00	436.00
14.00	35.00	-1.00	55.00
15.00	2.00	-1.00	-5.00

Y ppm	Zr ppm	Be ppm	V ppm
9.00	29.00	-1.00	181.00
27.00	50.00	2.00	542.00
24.00	229.00	-1.00	56.00
46.00	320.00	3.00	220.00
6.00	63.00	1.00	32.00
3.00	10.00	-1.00	-5.00
10.00	39.00	-1.00	10.00
32.00	30.00	-1.00	112.00
9.00	130.00	1.00	102.00
5.00	112.00	1.00	36.00
1219.00	400.00	360.00	-5.00
20.00	73.00	-1.00	62.00
24.00	101.00	-1.00	27.00
14.00	355.00	2.00	383.00
28.00	365.00	4.00	425.00
8.00	20.00	3.00	27.00
31.00	96.00	-1.00	87.00
50.00	141.00	-1.00	86.00
10.00	178.00	-1.00	64.00
3.00	3.00	-1.00	5.00
6.00	9.00	-1.00	22.00
5.00	16.00	1.00	29.00
5.00	13.00	-1.00	15.00
5.00	10.00	-1.00	29.00
6.00	15.00	1.00	29.00
9.00	224.00	9.00	239.00
7.00	173.00	1.00	56.00
-1.00	40.00	-1.00	5.00
1.00	30.00	-1.00	29.00
3.00	86.00	2.00	-1.00
20.00	134.00	1.00	204.00
60.00	30.00	-1.00	244.00
-1.00	-1.00	-1.00	2.00
17.00	121.00	1.00	365.00
1.00	28.00	-1.00	26.00

Y ppm	Zr ppm	Be ppm	V ppm
13.00	93.00	1.00	91.00
1.00	-1.00	-1.00	4.00
38.00	43.00	-1.00	35.00
26.00	39.00	-1.00	34.00
227.00	583.00	-1.00	35.00
10.00	23.00	1.00	20.00
15.00	236.00	1.00	254.00
24.00	36.00	-1.00	15.00
14.00	191.00	1.00	248.00
8.00	3.00	-1.00	43.00
28.00	145.00	2.00	265.00
11.00	22.00	-1.00	93.00
2.00	10.00	-1.00	15.00
9.00	117.00	2.00	317.00
12.00	-1.00	-1.00	3.00
2.00	2.00	-1.00	26.00
22.00	47.00	1.00	134.00
24.00	49.00	1.00	160.00
4.00	37.00	2.00	27.00
25.00	242.00	2.00	135.00
37.00	45.00	5.00	1888.00
37.00	157.00	4.00	1586.00
22.00	180.00	4.00	158.00
5.00	188.00	1.00	108.00
8.00	59.00	-1.00	135.00
31.00	243.00	2.00	231.00
10.00	146.00	2.00	57.00
40.00	30.00	1.00	146.00
17.00	41.00	1.00	253.00
36.00	199.00	2.00	71.00
-1.00	1.00	-1.00	-5.00
7.00	2.00	-1.00	-5.00
6.00	291.00	1.00	48.00
1.00	60.00	1.00	-5.00
15.00	156.00	3.00	88.00

Y ppm	Zr ppm	Be ppm	V ppm
36.00	115.00	4.00	525.00
34.00	26.00	-1.00	40.00
-1.00	7.00	-1.00	-5.00
21.00	151.00	1.00	88.00
28.00	213.00	2.00	83.00
7.00	35.00	1.00	32.00
10.00	36.00	-1.00	29.00
25.00	90.00	2.00	339.00
14.00	128.00	-1.00	79.00
11.00	11.00	1.00	-5.00
4.00	12.00	-1.00	25.00
3.00	4.00	-1.00	45.00
2.00	17.00	-1.00	10.00
7.00	17.00	1.00	36.00
112.00	264.00	-1.00	22.00
46.00	51.00	4.00	850.00
8.00	14.00	3.00	33.00
15.00	28.00	-1.00	195.00
33.00	109.00	2.00	264.00
29.00	30.00	-1.00	64.00
20.00	215.00	4.00	215.00
12.00	240.00	2.00	49.00
6.00	15.00	1.00	22.00
62.00	503.00	6.00	259.00
11.00	110.00	1.00	38.00
32.00	61.00	-1.00	134.00
5.00	50.00	-1.00	16.00
4.00	27.00	-1.00	7.00
2.00	25.00	2.00	45.00
8.00	142.00	-1.00	72.00
21.00	41.00	2.00	297.00
9.00	499.00	2.00	106.00
64.00	56.00	1.00	111.00
15.00	33.00	1.00	110.00
3.00	42.00	-1.00	25.00

Y ppm	Zr ppm	Be ppm	V ppm
23.00	115.00	-1.00	133.00
47.00	150.00	2.00	7.00
17.00	41.00	1.00	135.00
7.00	44.00	1.00	194.00
5.00	34.00	-1.00	174.00
5.00	43.00	-1.00	123.00
21.00	57.00	-1.00	63.00
19.00	52.00	-1.00	-5.00
16.00	12.00	-1.00	25.00
15.00	78.00	2.00	226.00
32.00	94.00	2.00	398.00
1.00	4.00	-1.00	-5.00
29.00	117.00	1.00	193.00
3.00	12.00	-1.00	18.00
-1.00	6.00	-1.00	-5.00
-1.00	1.00	-1.00	41.00
24.00	34.00	-1.00	65.00
3.00	22.00	1.00	54.00
18.00	162.00	-1.00	144.00
7.00	10.00	-1.00	-5.00
40.00	248.00	2.00	37.00
59.00	253.00	-1.00	133.00
26.00	57.00	1.00	319.00
1.00	6.00	-1.00	37.00
6.00	76.00	-1.00	70.00
1.00	158.00	-1.00	83.00
-1.00	-1.00	-1.00	-5.00
10.00	156.00	1.00	130.00
48.00	362.00	2.00	444.00
26.00	98.00	-1.00	331.00
18.00	56.00	-1.00	139.00
7.00	22.00	2.00	109.00
-1.00	58.00	-1.00	15.00
62.00	65.00	2.00	159.00
4.00	35.00	-1.00	-5.00

Y ppm	Zr ppm	Be ppm	V ppm
23.00	42.00	3.00	-5.00
8.00	47.00	1.00	25.00
43.00	266.00	2.00	210.00
3.00	8.00	-1.00	43.00
6.00	15.00	-1.00	96.00
-1.00	88.00	-1.00	211.00
3.00	8.00	-1.00	47.00
3.00	8.00	-1.00	50.00
4.00	12.00	-1.00	56.00
39.00	71.00	1.00	205.00
14.00	73.00	-1.00	106.00
46.00	127.00	2.00	650.00
51.00	145.00	2.00	389.00
49.00	150.00	-1.00	222.00
6.00	50.00	-1.00	-5.00
-1.00	4.00	-1.00	-5.00
4.00	3.00	-1.00	71.00
48.00	45.00	3.00	222.00
4.00	13.00	-1.00	178.00
17.00	80.00	8.00	393.00
11.00	59.00	-1.00	68.00
4.00	2.00	-1.00	-5.00
39.00	104.00	2.00	436.00
17.00	118.00	1.00	61.00
-1.00	7.00	-1.00	-5.00
4.00	27.00	-1.00	72.00
4.00	14.00	-1.00	40.00
34.00	46.00	3.00	342.00
36.00	289.00	2.00	171.00
12.00	25.00	-1.00	126.00
12.00	27.00	1.00	211.00
21.00	108.00	2.00	141.00
-1.00	2.00	-1.00	-5.00
10.00	34.00	-1.00	9.00
16.00	85.00	-1.00	59.00

Y ppm	Zr ppm	Be ppm	V ppm
27.00	83.00	-1.00	42.00
-1.00	-1.00	-1.00	-5.00
10.00	54.00	-1.00	66.00
4.00	67.00	2.00	46.00
3.00	89.00	1.00	33.00
11.00	38.00	1.00	109.00
1.00	897.00	1.00	178.00
14.00	163.00	2.00	28.00
3.00	2.00	-1.00	-5.00
904.00	552.00	4.00	-5.00
7.00	137.00	-1.00	-5.00
25.00	63.00	1.00	201.00
74.00	469.00	-1.00	163.00
12.00	49.00	-1.00	31.00
1.00	119.00	-1.00	12.00
32.00	405.00	3.00	242.00
25.00	7.00	1.00	97.00
15.00	86.00	-1.00	29.00
11.00	84.00	-1.00	54.00
6.00	46.00	1.00	452.00
3.00	259.00	21.00	91.00
9.00	29.00	-1.00	92.00
47.00	206.00	1.00	18.00
-1.00	6.00	-1.00	-5.00
3.00	35.00	-1.00	90.00
11.00	29.00	-1.00	156.00
47.00	54.00	49.00	87.00
2.00	43.00	1.00	471.00
1.00	5.00	-1.00	58.00
-1.00	4.00	-1.00	27.00
23.00	232.00	1.00	57.00
6.00	77.00	-1.00	68.00
8.00	55.00	-1.00	97.00
11.00	13.00	1.00	10.00
10.00	33.00	2.00	122.00

Y ppm	Zr ppm	Be ppm	V ppm
18.00	102.00	1.00	341.00
-1.00	6.00	4.00	12.00
26.00	143.00	2.00	309.00
4.00	7.00	3.00	-5.00
25.00	107.00	1.00	75.00
23.00	13.00	-1.00	-5.00
18.00	105.00	3.00	458.00
12.00	11.00	1.00	-5.00
313.00	14.00	-1.00	42.00
144.00	40.00	1.00	12.00
13.00	153.00	3.00	114.00
15.00	192.00	9.00	113.00
11.00	144.00	-1.00	145.00
21.00	225.00	2.00	220.00
13.00	42.00	1.00	110.00
29.00	122.00	2.00	391.00
16.00	109.00	2.00	346.00
5.00	136.00	6.00	67.00
49.00	390.00	1.00	53.00
16.00	66.00	4.00	286.00
33.00	564.00	4.00	305.00
10.00	73.00	2.00	89.00
3.00	22.00	2.00	18.00
24.00	265.00	4.00	537.00
23.00	247.00	2.00	295.00
16.00	94.00	1.00	72.00
11.00	125.00	3.00	103.00
36.00	321.00	3.00	447.00
7.00	132.00	2.00	156.00
1550.00	28400.00	28.00	10.00
21.00	178.00	2.00	60.00
22.00	130.00	2.00	158.00
9.00	147.00	1.00	69.00
21.00	102.00	1.00	109.00
15.00	79.00	1.00	166.00

Y ppm	Zr ppm	Be ppm	V ppm
149.00	216.00	3.00	103.00
32.00	58.00	8.00	24.00
8.00	147.00	11.00	149.00
27.00	352.00	2.00	82.00
38.00	348.00	2.00	174.00
37.00	57.00	1.00	152.00
1.00	17.00	-1.00	5.00
2.00	12.00	-1.00	27.00
10.00	17.00	-1.00	118.00
3.00	-1.00	-1.00	6.00
1.00	3.00	-1.00	7.00
2.00	412.00	2.00	254.00
7.00	492.00	2.00	163.00