Bergvesenet

Postboks 3021, N-7441 Trondheim

Rapportarkivet

Bergvesenet rapport nr	Intern Journal nr	Internt arkiv nr	Rapport lokalisering	Gradering
BV 4841	06/00884			Åpen
Kommer fra ..arkiv	**Ekstern rapport nr**	**Oversendt fra**	**Fortrolig pga**	**Fortrolig fra dato:**
		Crew Norway AS		

Tittel

Gold exploration at Nabar, Kvænangen, Report of field work

Forfatter	Dato År	Bedrift (Oppdragsgiver og/eller oppdragstaker)
Wilberg, Rune	Dec 2005	Crew Norway AS

Kommune	Fylke	Bergdistrikt	1: 50 000 kartblad	1: 250 000 kartblad
Kvænangen	Troms		17341	Nordreisa

Fagområde	Dokument type	Forekomster (forekomst, gruvefelt, undersøkelsesfelt)
Geologi		Nabar
Råstoffgruppe	**Råstofftype**	
Malm/metall	Au	

Sammendrag, innholdsfortegnelse eller innholdsbeskrivelse

Scattered quartz veins are found in various titholoqies, but of insignificant dimensions, and none analyzed Au abouve detection limit. If the visible gold is found in one of thise quartz veins, it is of no economical value.

Borques

06/00884

Gold exploration at Nabar, Kvænangen

Troms county, Norway

Report of field work 2005

Rune Wilberg
Crew Minerals

Maps:

Tables:

Introduction.

The 2005 program at Nabar, Kvænangen comunity in Troms county was motivated by the finding of visible gold in a few-mm thick quartz vein by Sigbjørn Johnsen a few years ago.
This years follow-up was a joint venture between Crew and Sigbjørn Johnsen, and took place in the period 21/7-30/7.
The hope was to identify favourable structures / lithologies with Au potential.
The planned work included geological mapping in the claim area and regional stream sediment sampling, with higher sample density in the claim area.
The first day was used for regional stream sediment sampling by helicopter transport in the outscerts of the claim area.
For the work in the claim area equipment was transported partly by helicopter and partly by ATV's from the road end at Suoikajavri. A camp was raised centrally in the claim area (see map 1).
The crew consisted of 2 geologists (Rune Wilberg and Raimund Kleine-Hering) who conducted geological mapping, rock- and soil sampling, and Sigbjørn Johnsen with assistants who collected stream sediment samples.

Geology / lithologies.

According to plan the area between 558000 - 562000 E and 7715500 - 7720500 N (20 km2) should be covered with geological mapping, with the exception of another persons claim (blank square at map 2). In reality, the mappable area is limited to the western half, because of almost no outcrops east of 560000.
The area is mapped in scale 1 : 10 000 (map 2).
Kleine-Herings contribution is included in his attached map (map 1).

The area is underlain by the Nabar Nappe, belonging to the Kalak Nappe Complex, of supposed Archaean to early Proterozoic age (Zwaan 1985).

Centrally in the area quartz conglomerate and arkose occupies the core of an overturned antiform with north plunging axis, flanked by amphibolite, with banded granitic gneiss to the west.
Lithologies like a marble horizon and coarsegrained garnet-chlorite schist occur in the amphibolite both east and west of the conglomerate-arkose sequence, disturbed at the west flank by an internal thrust zone. The western amphibolite flank has been thrusted upon the conglomerate, and northwards the thrust cuts into the amphibolite. The thrust follows a marble horizon, which, by its plastic properties, has served as a lubricant.

The monomict quartz conglomerate transects northwards into schisty arkose, which also surrounds the ultramafic body in the south. In places, north and south at the map sheet, and along the western contact to the amphibolite, the conglomerate-arkose sequence grades into +/- calcareous mica schist.
A few places 0.5-1 m thick layers of biotite(-chlorite) schist with disseminated euhedral pyrite, are intercalated in the conglomerate. Ripple marks are observed in the arkose at 558942 7720533.
The amphibolite sequense is subdevided in a finegrained, massive to schisty

Fig. 1. Thrust zone north of the camp. Seen NE'wards.

Fig. 2. Treatment of arm injury. Thrust zone below snow in the background.

amphibolite (+/- garnet) and a chloritic greenschist (+/- garnet) with intercalations of mica-chlorite schist and graphite bearing phyllite. In places the chloritic greenschist has the character of garben schist, with large hornblende needles. Carbonate is widespread both in amphibolite and greenschist, as cm-thick bands and lenses.
In contrast to the competent, massive amphibolite, the soft chlorite-rich schists are generally intensely drag folded (fig. 3).

Fig. 3. Drag-folded, carbonate-banded chloritic greenschist above thrust zone at 558482 7717245.

A few meter thick layer of rusty, coarsegrained garnet (>1 cm sized)-chlorite schist (+/- carbonate, biotite and amphibole), with lenses of coarsegrained, massive garnet-aktinolite-chlorite-carbonate rock, occur at both amphibolite flanks and north of the ultrabasite. This layer possibly represent a skarn horizon.
At the east flank this layer is associated with coarsegrained garnet-cummingtonite rock with siderite layers, and along the west flank with laminated chert.
The coarsegrained garnet-cummingtonite rock contains few-cm-thick siderite layers, quartz lenses and -bands, and in places py-cpy dissemination.

Up to 2 m thick chert extends along the contact to the coarsegrained garnet-chlorite schist. It is rusty (py-po dissemination), laminated, occasionally with layers of garnet, chlorite and amphibole, and with traces of graphite.
Between this stratigraphic level and the conglomerate unit is a marble layer, generally less than a couple of meter thick. At 558749 7717926 the marble is 12 m thick (fig. 4).

Fig. 4. 12 m thick marble horizon. Viewed SE'wards.

The dolomite(?) marble is yellow to white, in places with a red surface. It is often laminated and containing muscovite, sericite and in a few places fuchsite. The content of sulphides and oxides will be treated later.
From the southern marble outcrop on the map, it is not found exposed until 2 km to the WSW, at 556596 7715011: In the covered terrain a small exposure shows marble with overlying 7 m thick carbonaceous chlorite schist and finegrained, schisty amphibolite.
Two few-meter thick layers of feldspar-quartz-biotite schist, representing either a sediment or an acid to intermediate volcanic, are found in the east.
At the western margin of the map sheet is exposed a banded granitic gneiss with amphibolite- and pegmatite bands.
In the east a body of poorly exposed (frequent boulders) mediumgrained monzonite intrudes the amphibolite sequence, and in the south a muscovite granite aplite sill, and a ultramafic body.

Mineralization.

The finder of the visible gold could not verify the location of the auriferous quartz vein, other than "somewhere inside the here mapped area". Several rock samples were collected in this area to one composite sample. His attention to the visible gold was called upon later.

Even though attention is attracted to the Cu-mineralized carbonate horizons as the only structures with economic potential, also small-sized hydrothermal quartz veins (+/- sulphides) are sampled to track the gold. None of these quartz veins (for description see table 1) analyzed above detection limit.

Elevated gold content is bound to the marble horizons, associated with sulphides, either in the marble or in the imediate hanging wall (up to 4 m above), in quartz-carbonate lenses and -bands in the chloritic greenschist and amphibolite.
The marble horizons are incomplitely exposed. The thickness of the marble along the thrust seem to be in the order of 0.5-1 m.
Between the 735- and the 758 lakes fuchsite is a constituent (together with sericite and muscovite) in the laminated marble. Generally pyrite and chalkopyrite occur in trace amounts, with 0.1 % Cu (and 96 ppb Au) in sample 99989.
Up to 3-4 m thickness of the overlying dragfolded chloritic greenschist contain few-cm thick carbonate +/- quartz bands and lenses with py-cpy dissemination (79 ppb Au in sample 99970), and seldom concordant, cm-thick quartz veins with py-cpy dissemination (49 ppb Au in sample 99990).

The marble layer crossing the 758 lake 50 m to the west, is up to 12 m thick, and is enriched in sulphides and oxide along the footwall: sample 99967 of the schisty marble with thin (<1 mm) bands of cpy-py-bornite(-malachite) analyzed 0.4 % Cu and 33 ppb Au, and sample 99968 of marble with rich magnetite-bornite(-malachite) dissemination analyzed 0.5 % Cu and 567 ppb Au.
200 m to the south is a 5 m2 exposure of marble with red surface and cm- to dm-thick quartz veins with direction 105°/≈90° (fig. 5). Sample 99991 analyzed <5 ppb Au. Also samples of quartz veined marble elsewhere analyzed < detection limit.

The eastern marble layer is below the cliff at 559640 7717539 at least 2.5 m thick. The lower 1 m is massive, overlain by schisty marble with chlorite layers, pyrite crystals (up to 1 cm in size), and up to 10 cm thick quartz bands and lenses. Sample 99972 of this marble analyzed 6 ppb Au. Sulphides and Au are enriched in the hangingwall, where sample 99971 is taken from schisty amphibolite with carbonate lenses and bands, where "rich" cpy(-py) dissemination is consentrated in a narrow zone along the amphibolite - carbonate band contact: > 1 % Cu and 767 ppb Au.
Southwards the marble is covered until 559455 7717030, where an 8 m thick carbonate-rich, chloritic, schisty amphibolite contains a 20 cm thick layer of marble with 1 cm-sized euhedral pyrite crystals. Imediately to the west, this horizon is off-set by a north-south trending fault. The carbonate-rich horizon continues parallell to the fault southwards: at 559454 7716937 the carbonate-rich, schisty amphibolite is 4 m thick. Sample 99980 (16 ppb Au): carbonate lenses with chalkopyrite aggregates and cpy-bornite(-hematite) bound to slip planes in the schisty amphibolite. Pyrite is also included in the sulphide paragenesis here.

Stream sediments.

The sample material was sieved through -0.5 mm. The coarser fraction 0.5-2 mm was stored.

100 stream sediment samples were collected (table 2), 70 from the claim area and 30 from outside. 25 of the 30 are sampled in streams draining the extension of the amphibolite horizon that is assumed to host the VG vein from the claim area, and 5 are from the Kambro-Silurian Vaddas region.

Only 4 of the 70 samples in the claim area are slightly above detection limit, while 3 of the regional samples analyzed Au above detection limit.
One sample about 10 km north of the claim area, at 558340 7728410, clearly points out with 772 ppb Au.
Another, approximately 5 km WSW of the claim area, at 554505 7715689, analyzed 88 ppb Au. The third highest sample (33 ppb Au), at 558380 7715372, is collected in a stream draining the Cu-mineralized carbonate horizon in the southwestern corner of the claim area.

The highest Cu (596 ppm) and Zn (239 ppm) contents come as can be expected from the Riehppe area. Here, the streams drain Kambro-Silurian Cu-Zn occurrences. Also one sample from the Kambro-Silurian Kjellerkampen area is anomalous in Cu (149 ppm) and Zn (104 ppm).

In the claim area the two highest Cu values (234 and 107 ppm) come from streams draining the Cu-mineralized thrust zone.

Soil samples.

To test potential soil anomalies over the covered northern extension of the eastern marble horizon, which held the highest Au-content among the rock samples (767 ppm Au), soil was collected along 3 profiles (map 2).
The samples were collected with an auger drill at the depth of 50-70 cm.
One sample in each of the two profiles closest to outcropping mineralized marble analyzed 25 ppb Au, either at or downslope of the marble horizon.

Conclusion.

The structure of any significance, capable of holding significante mineralizing potential, is the thrust zone with Cu-mineralized marble and quartz-carbonate lenses and bands.
Scattered quartz veins are found in various lithologies, but of insignificant dimensions, and none analyzed Au above detection limit. If the visible gold is found in one of these quartz veins, it is of no economic potential.
Sampling along the marble horizons has proven that they, and particularly the hangingwall chlorite schist with quartz-carbonate lenses and bands, are anomalous in Cu and Au, with contents up to >1 % Cu and 767 ppb Au.

Fig. 5. Marble with quartz veins. Seen westwards.

400 m to the west the marble (with 1 cm-sized pyrite cubes) is exposed in an anticline. It shows up again 150 m to the south, here with intercalated thin quartz layers. Variable thickness of marble, up to 10 m.
110 m further south (558996 7716644), the marble layer is 2.5-3 m thick. Sample 99975 of 20 cm thick discordant quartz vein with branches in the marble analyzed <5 ppb Au (fig. 6). Carbonaceous chlorite schist with quartz lenses above and below the marble horizon. Fig 7. from between these two localities, shows fold (axis 320°/40°) in the marble. Sample 99976 from this locality analyzed <5 ppb Au.
Further south, sample 99973 (558988 7716611) of 20 cm thick carbonate-rich layer with pyrite crystals, in carbonaceous chlorite schist, 3 m above the marble layer, analyzed 16 ppb Au.
The southernmost outcrop of marble at the bottom of this cliff is at 558992 7716593, here 0.5 m thick. Here, 1 cm-sized pyrite crystals and minor carbonate lenses with cpy dissemination occur in the chlorite-amphibole schist above the marble. The cliff wall is a large overturned fold with north-south trending axis (fig. 8).
A sediment sample taken from a stream draining this marble horizon 1.2 km to the SSW analyzed 33 ppb Au.
Westwards, towards Suoikajavri, marble is exposed at 556596 7715011. 500 m east of Suoikajavri, sample 99974 of calcareous chloritic schist with small quartz lenses and cpy dissemination analyzed 13 ppb Au. 550 m to the north, a stream sediment sample shows 88 ppb Au.

Except the carbonate horizons, only two samples from other lithologies show Au above detection limit. 99969 is a sample of chert with py-po dissemination and

Fig. 6. Marble with quartz vein. Viewed southwards.

analyzed 26 ppb Au and 226 ppm As.
One of the samples from coarsegrained garnet-cummingtonite rock with siderite layers analyzed 6 ppb Au (sample 99951): a 50 cm thick garnet-cummingtonite horizon with minor white carbonate, cpy-diss, quartz lenses, and cm-thick siderite layers.
Similar Fe-Mn-carbonate mineralizations in Reisadalen to the SW are previously analyzed and show contents up to 300 ppb Au (Wilberg 1996).

The samples of the ultrabasite at the southern end of the map analyzed <5 ppb Au, but up to 0.2 % Ni and 0.1 % Cr (sample 99992).

Certain strata in amphibolite and greenschist carry abundant sulphide dissemination (sample 99984: 416 ppm Cu). At 559464 7716906 is in carbonaceous chlorite schist an 8 cm thick lense of semimassive magnetite with minor mm-thick pyrite bands and pyrite remobilized at fractures.

Fig. 7. Fold in marble at 559001 7716672. Seen NW'wards.

Fig. 8. Cliff with overturned fold. Marble horizon at the bottom of the cliff. Seen SSW'wards.

Stream sediments.

The sample material was sieved through -0.5 mm. The coarser fraction 0.5-2 mm was stored.

100 stream sediment samples were collected (table 2). 70 from the claim area and 30 from outside. 25 of the 30 are sampled in streams draining the extension of the amphibolite horizon that is assumed to host the VG vein from the claim area, and 5 are from the Kambro-Silurian Vaddas region.

Only 4 of the 70 samples in the claim area are slightly above detection limit, while 3 of the regional samples analyzed Au above detection limit.
One sample about 10 km north of the claim area, at 558340 7728410, clearly points out with 772 ppb Au.
Another, approximately 5 km WSW of the claim area, at 554505 7715689, analyzed 88 ppb Au. The third highest sample (33 ppb Au), at 558380 7715372, is collected in a stream draining the Cu-mineralized carbonate horizon in the southwestern corner of the claim area.

The highest Cu (596 ppm) and Zn (239 ppm) contents come as can be expected from the Riehppe area. Here, the streams drain Kambro-Silurian Cu-Zn occurrences. Also one sample from the Kambro-Silurian Kjellerkampen area is anomalous in Cu (149 ppm) and Zn (104 ppm).

In the claim area the two highest Cu values (234 and 107 ppm) come from streams draining the Cu-mineralized thrust zone.

Soil samples.

To test potential soil anomalies over the covered northern extension of the eastern marble horizon, which held the highest Au-content among the rock samples (767 ppm Au), soil was collected along 3 profiles (map 2).
The samples were collected with an auger drill at the depth of 50-70 cm.
One sample in each of the two profiles closest to outcropping mineralized marble analyzed 25 ppb Au, either at or downslope of the marble horizon.

Conclusion.

The structure of any significance, capable of holding significante mineralizing potential, is the thrust zone with Cu-mineralized marble and quartz-carbonate lenses and bands.
Scattered quartz veins are found in various lithologies, but of insignificant dimensions, and none analyzed Au above detection limit. If the visible gold is found in one of these quartz veins, it is of no economic potential.
Sampling along the marble horizons has proven that they, and particularly the hangingwall chlorite schist with quartz-carbonate lenses and bands, are anomalous in Cu and Au, with contents up to >1 % Cu and 767 ppb Au.

It is likely that the thrust zone and minor dislocations along the marble horizons acted as conduits for hydrothermal and mineralizing fluids. As ore fluids encountered calcareous strata, precipitation of Cu and Au occured. Opaque minerals disseminated in the carbonates are chalkopyrite, bornite, pyrite, pyrrhotite, magnetite and hematite, and secondary malachite.

Even if the auriferous character of the Cu-disseminations is established, the grades, and at least lack of consistent grades are discouraging.
This, and the fact that among the 70 stream sediment samples collected in the 20 km2 claim area, no Au-anomaly occur, discloses further work.
The 772 ppb Au stream sediment sample at Luovasjavri do however warrant some follow-up, as stream sediment sampling and prospecting.

References.

Wilberg, R. 1996: Gull i Troms. Vurdering av gullanalyser fra Malmregisteret. Internal note. Geol Surv of Norway.
Zwaan, K.B. 1973: Preliminary geological map Nabar 1.50 000. Geol Surv of Norway.
Zwaan, K.B. 1988: Nordreisa, geological map 1.250 000. Geol Surv of Norway.

Rune Wilberg
December 2005

Table 1

Sample list
rock samples

sample no	UTM coord		description
99951	559218	7716651	gnt-cumingtonite rock w cpy-diss
99952	559494	7715414	sepentinasbestous vein w magnetite, in ultrabasite
99953	560020	7719150	in situ floats of hydrothermal qtz
99954	558138	7717745	granitic gneiss w py-po-cpy-diss
99955	558469	7718903	rusty quartzite
99956	558300	7719163	concordant hydrothermal qtz vein w minor carb
99957	558442	7719285	1.20m thick, at least 10m long hydrothermal qtz vein, 154/90
99958	558684	7718506	50cm thick, at least 5m long, discordant (168/90) qtz vein w py(-cpy)-diss
99959	558727	7717514	carb lenses w py-po-cpy-bornite-apy-diss, in chloritic greensch
99960	558727	7717506	laminated dolomite w musc, sericite, fuchsite(?). 187/27-50, at least 50cm thick
99961	558728	7717524	carb lense w po-py-cpy-bornite-apy-diss
99962	558728	7717524	chloritic greensch w mm-thick carb bands w py
99963	558727	7717498	en echelon qtz lenses, 40cm thick, in carb-rich mica sch
99964	558773	7717608	carb-lenses/-bands w sulph, in chloritic greensch
99965	558815	7717690	qtz-carb lenses w sulph, in chloritic greensch
99966	558800	7717655	carb lenses w sulph, in chloritic greensch
99967	558746	7717910	marble w thin (less than 1mm) bands of cpy-py-bornite + malachite
99968	558749	7717926	carb w rich mt-bornite-diss + malachite
99969	558498	7718035	chert w po-diss and graphite
99970	558760	7718361	chl-amph sch w carb bands and -lenses w py-cpy-diss
99971	559605	7717625	amph sch w carb lenses and -bands w cpy(-py)-diss
99972	559640	7717539	schisty carb (chl lamellae) w up to 1cm sized euhedral py crystals
99973	558988	7716611	carb-chl sch w py crystals
99974	554600	7715137	carb-rich chloritic sch w cpy-diss
99975	558996	7716644	disc qtz vein in marble
99976	559001	7716672	marble, orange, massive
99977	558999	7717015	chevronfolded, rusty chl sch w py-diss
99978	559546	7716902	rusty chl sch w sulph diss and traces of graphite, 20 - 100cm thick
99979	559464	7716906	8cm thick lense of semimass mt and minor py in carbonaceous chloritic amph sch
99980	559454	7716937	cpy-bornite(-hematite) along slip plane in schisty amphibolite
99981	558943	7718269	5-10cm thick, conc qtz vein along cont amph sch and underlying conglomerate
99982	558969	7718316	up to 1m thick, 10m long, conc (193/60) qtz vein/lense along cont amphibolite/mica sch
99983	559598	7717745	coarsegr gnt-cumingtonite rock (at least 1.5m thick) w cm-thick conc qtz bands
99984	559786	7717998	finegr amphibolite w po-cpy-diss
99985	559772	7719330	carb lense w cpy-diss, in mica-chl sch
99986	560175	7719591	gnt-cumingtonite-siderite sch
99987	558358	7717536	amphibole sch w py-diss and qtz lenses
99988	558457	7717976	carb-rich amphibole sch w py-diss
99989	558761	7718342	marble w py-cpy-diss
99990	558761	7718342	10cm thick, conc qtz vein w py-cpy-diss
99991	558705	7717711	marble w qtz veins
99992	559445	7715322	ultrabasite
99993	558482	7717245	py and cpy bound to qtz-carb lenses in amph sch
99769	558727	7717502	amphibole sch w qtz-carb lenses
99770	558793	7718258	amphibole sch w qtz-carb lenses
99771	558706	7718535	amphibolite w sulphide diss

Table 2

Sample list
stream sediment samples

sample no	sample type	UTM coord
99935	stream sediment	552012 7729684
99936	stream sediment	554942 7729272
99937	stream sediment	557883 7728437
99938	stream sediment	559267 7727322
99939	stream sediment	560204 7726324
99940	stream sediment	554505 7715689
99941	stream sediment	552678 7716120
99942	stream sediment	550990 7715740
99943	stream sediment	550799 7714334
99944	stream sediment	551410 7712820
99945	stream sediment	549882 7711222
99946	stream sediment	555739 7710998
99947	stream sediment	522610 7735060
99948	stream sediment	522508 7737221
99949	stream sediment	515565 7729348
99950	stream sediment	516759 7720297
99551	stream sediment	554021 7715536
99552	stream sediment	552536 7717074
99553	stream sediment	550764 7715307
99554	stream sediment	552372 7714601
99555	stream sediment	550106 7710629
99556	stream sediment	523295 7736313
99557	stream sediment	514825 7728783
99558	stream sediment	514250 7721612
99559	stream sediment	560121 7715962
99560	stream sediment	560072 7715953
99561	stream sediment	559699 7715926
99562	stream sediment	559416 7715923
99563	stream sediment	560164 7715961
99564	stream sediment	559140 7715848
99565	stream sediment	559042 7716021
99566	stream sediment	558982 7716881
99567	stream sediment	558202 7717552
99568	stream sediment	558205 7717541
99569	stream sediment	559981 7719609
99570	stream sediment	559718 7719396
99571	stream sediment	559720 7719397
99572	stream sediment	559659 7719302
99573	stream sediment	561557 7720107
99574	stream sediment	561558 7720104
99575	stream sediment	561675 7719453
99576	stream sediment	561673 7719458
99577	stream sediment	561465 7718286
99578	stream sediment	561123 7718024
99579	stream sediment	558328 7718712
99580	stream sediment	558373 7718521
99581	stream sediment	558386 7718432
99582	stream sediment	558803 7718312
99583	stream sediment	558802 7718217
99584	stream sediment	559035 7718037
99585	stream sediment	559110 7718045
99586	stream sediment	559117 7717866
99587	stream sediment	559147 7717682
99588	stream sediment	558621 7717290
99589	stream sediment	553146 7730936
99590	stream sediment	559294 7729434
99601	stream sediment	555087 7727657
99602	stream sediment	558340 7728410

99604	stream sediment	559557	7727767
99605	stream sediment	560228	7715990
99606	stream sediment	560152	7715978
99607	stream sediment	559849	7715949
99608	stream sediment	559309	7715946
99609	stream sediment	559024	7715770
99610	stream sediment	559127	7716038
99611	stream sediment	559122	7716171
99612	stream sediment	559109	7716377
99613	stream sediment	558872	7717078
99614	stream sediment	558277	7717383
99615	stream sediment	559385	7718552
99616	stream sediment	559338	7718648
99617	stream sediment	559997	7719509
99618	stream sediment	559817	7719404
99619	stream sediment	559619	7719213
99620	stream sediment	559791	7718930
99621	stream sediment	561516	7720306
99622	stream sediment	561589	7719990
99623	stream sediment	561663	7719566
99624	stream sediment	561611	7719134
99625	stream sediment	561544	7718438
99626	stream sediment	561350	7718226
99627	stream sediment	561000	7718041
99628	stream sediment	560715	7717812
328090	stream sediment	559365	7718634
328091	stream sediment	559889	7719432
328092	stream sediment	559760	7719381
328093	stream sediment	559636	7719233
328094	stream sediment	559747	7718860
328095	stream sediment	561585	7720248
328096	stream sediment	561630	7719869
328097	stream sediment	561706	7719529
328098	stream sediment	561549	7718779
328099	stream sediment	561246	7718081
328100	stream sediment	560878	7717951
400581	stream sediment	558426	7715522
400582	stream sediment	558380	7715372
400583	stream sediment	558339	7715592
400584	stream sediment	559002	7715764
400585	stream sediment	558880	7715882
400586	stream sediment	558696	7715911

Table 3

Sample list
soil samples

sample no	sample type	UTM coord
KVASOS-001	soil sample	559590 7717675
KVASOS-002	soil sample	559570 7717670
KVASOS-003	soil sample	559550 7717665
KVASOS-004	soil sample	559610 7717680
KVASOS-005	soil sample	559630 7717685
KVASOS-006	soil sample	559650 7717690
KVASOS-007	soil sample	559670 7717705
KVASOS-008	soil sample	559650 7717790
KVASOS-009	soil sample	559630 7717785
KVASOS-010	soil sample	559610 7717780
KVASOS-011	soil sample	559590 7717775
KVASOS-012	soil sample	559510 7717755
KVASOS-013	soil sample	559530 7717760
KVASOS-014	soil sample	559550 7717765
KVASOS-015	soil sample	559570 7717770
KVASOS-016	soil sample	559645 7717895
KVASOS-017	soil sample	559620 7717890
KVASOS-018	soil sample	559600 7717885
KVASOS-019	soil sample	559580 7717880
KVASOS-020	soil sample	559560 7717875
KVASOS-021	soil sample	559480 7717855
KVASOS-022	soil sample	559500 7717860
KVASOS-023	soil sample	559520 7717865
KVASOS-024	soil sample	559540 7717870

Table 4

Geochemical analysis
rock samples

ANALYTE	Au	Be	Na	Mg	Al	P
METHOD	FAA313	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B
DETECTION	5	0,5	0,01	0,01	0,01	0,01
UNITS	PPB	PPM	%	%	%	%
KVA 099951	6	<0.5	<0.01	0,13	0,54	0,12
KVA 099952	<5	<0.5	<0.01	5,15	0,04	<0.01
KVA 099953	<5	<0.5	<0.01	0,12	0,06	<0.01
KVA 099954	<5	<0.5	0,09	0,28	0,5	0,01
KVA 099955	<5	<0.5	0,03	0,25	0,42	<0.01
KVA 099956	<5	<0.5	<0.01	0,03	0,04	<0.01
KVA 099957	<5	<0.5	<0.01	0,01	0,02	<0.01
KVA 099958	<5	<0.5	0,01	0,28	0,36	<0.01
KVA 099959	<5	<0.5	0,06	3,28	0,83	0,09
KVA 099960	<5	<0.5	0,07	0,05	0,25	<0.01
KVA 099961	<5	<0.5	0,05	2,95	0,47	0,02
KVA 099962	<5	<0.5	0,11	1,92	1,92	0,05
KVA 099963	<5	<0.5	<0.01	0,03	0,05	<0.01
KVA 099964	<5	<0.5	0,04	2,8	1,5	0,01
KVA 099965	<5	<0.5	0,08	2,06	0,85	0,01
KVA 099966	<5	<0.5	0,06	2,19	0,8	0,03
KVA 099967	33	<0.5	0,01	8,07	0,27	0,07
KVA 099968	567	<0.5	<0.01	3,44	0,02	0,02
KVA 099969	26	<0.5	0,01	0,22	0,21	0,02
KVA 099970	79	<0.5	0,06	1,17	0,86	0,04
KVA 099971	767	<0.5	0,05	1,12	0,54	0,04
KVA 099972	6	<0.5	0,02	3,37	0,51	0,03
KVA 099973	16	<0.5	0,05	1,55	0,63	0,03
KVA 099974	13	<0.5	0,01	2,3	0,51	0,1
KVA 099975	<5	<0.5	0,02	3,44	0,07	0,01
KVA 099976	<5	<0.5	<0.01	11,2	0,02	0,01
KVA 099977	<5	<0.5	0,03	2,32	3,12	0,06
KVA 099978	<5	<0.5	0,02	2,85	2,97	0,12
KVA 099979	<5	0,9	0,14	0,6	0,81	0,02
KVA 099980	16	<0.5	0,09	1,03	0,99	0,01
KVA 099981	<5	<0.5	0,03	0,38	0,33	0,08
KVA 099982	<5	<0.5	<0.01	0,02	0,03	<0.01
KVA 099983	<5	<0.5	<0.01	0,13	0,48	0,2
KVA 099984	<5	<0.5	0,07	0,5	0,68	0,12
KVA 099985	<5	<0.5	0,02	0,83	0,22	0,03
KVA 099986	<5	<0.5	<0.01	0,76	0,37	0,11
KVA 099987	<5	<0.5	0,06	1,89	2,11	0,04
KVA 099988	<5	<0.5	0,08	1,64	1,18	0,13
KVA 099989	96	<0.5	0,08	0,26	0,24	0,04
KVA 099990	49	<0.5	<0.01	0,05	0,05	0,02
KVA 099991	<5	<0.5	0,01	9,86	0,01	0,02
KVA 099992	<5	0,8	<0.01	12,6	0,35	<0.01
KVA 099993	7	<0.5	0,09	2,08	0,89	0,03
KVA 99769	<5	<0.5	0,08	2,35	0,34	0,03
KVA 99770	<5	<0.5	0,02	6,83	0,27	<0.01
KVA 99771	<5	0,8	0,05	2,74	3,72	0,07
DUP-KVA 099951	7	<0.5	<0.01	0,12	0,57	0,11
DUP-KVA 099963	<5	<0.5	<0.01	0,03	0,06	<0.01
DUP-KVA 099975	<5	<0.5	0,02	3,62	0,08	0,02
DUP-KVA 099987	<5	<0.5	0,06	1,97	2,21	0,04

K	Ca	Sc	Ti	V	Cr	Mn
ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B
0,01	0,01	0,5	0,01	2	1	2
%	%	PPM	%	PPM	PPM	PPM
<0.01	2,37	2,6	0,02	21	127	5310
<0.01	0,33	0,7	<0.01	10	97	874
0,02	0,02	<0.5	<0.01	4	195	53
0,27	0,17	<0.5	0,06	8	109	82
0,22	0,04	2,7	0,04	54	180	71
0,01	3,2	<0.5	<0.01	<2	257	160
0,02	0,02	<0.5	<0.01	<2	208	24
<0.01	0,05	0,5	0,03	17	297	104
0,4	8,8	11,4	0,06	172	75	3590
0,14	0,11	<0.5	<0.01	4	202	96
0,12	7,3	15,2	0,03	28	56	2050
0,11	4,26	14,4	0,05	164	65	955
0,04	0,16	<0.5	<0.01	<2	165	67
0,46	6,58	13	0,08	239	102	2050
0,08	5,12	8,3	0,03	164	168	1890
0,06	6	12,1	0,02	46	115	1820
0,25	14,4	1,5	<0.01	5	49	921
<0.01	10	<0.5	<0.01	334	6	4310
0,05	0,35	<0.5	<0.01	46	264	157
0,43	9,64	4,5	0,05	42	73	1780
0,11	7,61	3,8	0,02	26	144	1760
0,16	14,3	4,9	0,02	27	92	2190
0,05	9,56	3	0,05	32	95	1350
0,05	7,05	1,7	0,02	28	46	2780
0,01	6,47	0,6	<0.01	<2	75	624
<0.01	>15	<0.5	<0.01	<2	5	1140
0,03	0,24	15,4	0,03	215	194	589
0,5	0,26	11,2	0,09	182	132	615
0,11	1,34	0,9	0,04	132	97	728
0,45	1,82	3,7	0,07	58	108	648
0,02	2,13	1,4	<0.01	13	214	320
0,01	0,04	<0.5	<0.01	2	192	36
<0.01	1,52	2,4	0,02	19	142	4990
0,07	0,54	2,2	0,07	51	101	202
0,02	>15	3,1	<0.01	26	38	3880
<0.01	11,4	2,2	<0.01	23	33	>10000
0,04	0,27	6,6	0,03	128	272	252
0,63	3,3	3,9	0,09	66	91	1170
0,05	5,88	3,6	<0.01	10	138	893
0,01	0,71	<0.5	<0.01	2	181	152
<0.01	>15	<0.5	<0.01	2	40	1180
<0.01	0,06	3,1	<0.01	11	938	878
0,16	4,49	9,7	0,04	37	86	1480
0,06	6,66	8,2	0,03	15	25	1570
0,14	13,9	4,8	<0.01	5	40	1820
2,45	0,29	4,1	0,28	197	278	391
<0.01	2,3	2,4	0,02	21	121	5340
0,04	0,16	<0.5	<0.01	<2	168	68
0,01	6,76	<0.5	<0.01	<2	76	632
0,05	0,28	6,8	0,03	132	277	249

Fe	Co	Ni	Cu	Zn	As	Sr
ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B
0,01	1	1	0,5	0,5	3	0,5
%	PPM	PPM	PPM	PPM	PPM	PPM
6,87	52	72	692	12,5	<3	23,5
>15	122	1020	23,8	24,7	10	10,1
0,98	4	30	9,3	4,6	<3	4,3
0,69	3	8	29,5	17,1	<3	13,4
1,9	1	5	41,8	10,2	3	3,3
0,36	<1	6	6,8	0,9	<3	54,1
0,23	<1	6	3,9	0,6	<3	0,8
1,69	14	23	197	10,4	4	2,6
7,23	27	35	152	48,1	7	69,4
0,34	1	5	6,9	1,8	<3	6,8
5,61	27	41	365	24,2	8	105
5,01	43	28	145	44,1	<3	113
0,23	<1	5	5,1	0,9	<3	4,1
6,56	30	38	81,1	52,8	<3	100
5,98	20	41	393	34,5	<3	46,9
6,78	54	69	999	29,5	22	54,6
2,52	4	19	4160	11,2	15	112
12,7	7	31	4950	5,2	<3	108
2,5	3	14	278	11,8	226	5,5
3,2	12	38	812	27,3	<3	112
4,41	159	54	>10000	44,5	10	121
3,67	23	101	62,1	72,9	<3	183
3,35	13	43	342	51,9	<3	69,6
3,06	17	29	317	40	<3	62,2
0,77	3	8	8	6,3	<3	52,6
1,72	4	16	<0.5	5,5	<3	72,4
10	24	71	172	174	<3	3,7
14,3	15	43	167	197	<3	13,2
14,5	111	85	514	33,1	<3	6,5
3,09	59	51	280	35,9	<3	17,3
0,85	4	10	33,8	15,3	4	32,9
0,23	<1	5	5,4	1,2	<3	1
4,53	15	24	158	10,6	<3	30,6
2,74	32	103	416	46,9	3	22
1,87	6	14	71,4	13,5	<3	93,3
7,37	31	59	325	32,8	9	354
7,13	53	113	133	120	31	7,5
4,05	52	45	105	30,6	<3	37,2
1,52	4	18	1050	7,1	<3	73,8
0,33	<1	7	252	2,4	<3	7,3
1,85	4	10	15,5	5,5	<3	149
5,71	149	2250	129	60,4	6	1,3
4,77	31	60	103	29,4	4	67,2
3,38	13	22	136	19,4	23	100
3,1	6	14	1,5	9,6	8	246
8,69	42	190	276	128	<3	6,3
6,82	52	71	650	11,5	<3	23,3
0,24	<1	5	5,1	1	<3	4,5
0,81	3	8	8	6,6	<3	57,2
7,59	56	116	138	124	32	8,1

Y	Zr	Mo	Ag	Cd	Sn	Sb
ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B
0,5	0,5	1	2	1	10	5
PPM	PPM	PPM	PPM	PPM	PPM	PPM
3,1	8,8	<1	<2	<1	<10	<5
<0.5	10,7	<1	<2	<1	<10	8
<0.5	1,6	<1	<2	<1	<10	<5
0,8	2,2	17	<2	<1	<10	<5
0,8	5,9	2	<2	<1	<10	<5
3,8	1,5	<1	<2	<1	<10	<5
<0,5	1,3	1	<2	<1	<10	<5
0,6	2	<1	<2	<1	<10	<5
8,9	5	<1	<2	<1	<10	<5
1,5	4,6	<1	<2	<1	<10	<5
8,2	3,7	<1	<2	<1	<10	<5
8,8	3,5	<1	<2	<1	<10	<5
1	1,4	1	<2	<1	<10	<5
6,7	4,1	<1	<2	<1	<10	<5
3,9	3,9	<1	<2	<1	<10	<5
9,3	4,3	2	<2	<1	<10	<5
6,4	8,1	<1	2	<1	<10	<5
2,5	7,4	<1	4	<1	<10	5
0,7	3	1	<2	<1	<10	<5
8,2	8,3	4	<2	<1	<10	<5
4,7	3,1	<1	4	<1	<10	<5
4,5	5,8	<1	<2	<1	<10	<5
4,8	9,5	1	<2	<1	<10	<5
1,5	2,2	2	<2	<1	<10	<5
1	1,1	3	<2	<1	<10	<5
2	1,6	<1	<2	<1	<10	<5
7	11,7	3	<2	<1	<10	6
6,9	15,8	7	<2	<1	<10	8
2,2	11,8	<1	<2	<1	<10	7
3,4	2,7	<1	<2	<1	<10	<5
3,3	1,7	<1	<2	<1	<10	<5
<0.5	1,2	<1	<2	<1	<10	<5
5,8	11,7	<1	<2	<1	<10	<5
5,4	14,5	2	<2	<1	<10	<5
9,3	1,6	<1	<2	<1	<10	<5
13	9,6	3	<2	<1	<10	<5
2,3	7,6	5	<2	<1	<10	<5
3,7	3,8	<1	<2	<1	<10	<5
8,8	5,4	1	<2	<1	<10	<5
0,6	1,2	<1	<2	<1	<10	<5
2,1	1,6	<1	<2	<1	<10	<5
<0.5	3,6	<1	<2	<1	<10	<5
6	3,6	<1	<2	<1	<10	<5
7	2,1	<1	<2	<1	<10	<5
7,6	2,4	<1	<2	<1	<10	<5
3,8	9,7	4	<2	<1	<10	5
3,2	8,3	<1	<2	<1	<10	<5
1	1,5	1	<2	<1	<10	<5
1	1,1	2	<2	<1	<10	<5
2,4	8	5	<2	<1	<10	<5

Ba	La	W	Pb	Bi	Li
ICP1					
1	0,5	10	2	5	1
PPM	PPM	PPM	PPM	PPM	PPM
6	11,8	<10	5	<5	<1
6	<0.5	<10	4	<5	<1
8	<0.5	<10	<2	<5	<1
61	4,2	<10	2	<5	3
138	0,9	<10	2	<5	3
7	3,3	<10	3	<5	<1
12	<0.5	<10	<2	<5	<1
2	<0.5	<10	2	<5	2
120	1,7	<10	7	<5	8
71	3	<10	<2	<5	<1
41	2	<10	6	<5	4
30	1,6	<10	3	<5	21
22	1,1	<10	<2	<5	<1
99	1,6	<10	8	<5	13
25	<0.5	<10	5	<5	4
22	1,7	<10	10	<5	6
15	4,9	<10	100	<5	4
3	<0.5	<10	6	36	<1
14	1	<10	<2	<5	<1
189	7	<10	6	<5	7
24	<0.5	<10	11	<5	5
40	4,3	<10	31	<5	9
26	11,4	<10	29	<5	7
35	<0.5	<10	2	<5	5
20	<0.5	<10	3	<5	1
1	0,7	<10	3	<5	1
14	5,2	<10	4	<5	13
188	27,7	<10	155	<5	12
41	1,7	<10	3	<5	3
126	2,5	<10	3	<5	10
6	<0.5	<10	6	<5	2
5	<0.5	<10	<2	<5	<1
6	9,2	<10	4	<5	<1
41	9,1	<10	4	<5	6
16	1,1	<10	<2	<5	5
9	14,1	<10	34	<5	2
11	0,8	<10	3	<5	9
194	2,3	<10	2	<5	12
25	4,8	<10	3	<5	2
7	<0.5	<10	<2	<5	<1
5	<0.5	<10	2	<5	<1
10	<0.5	<10	5	<5	<1
67	1,3	<10	7	<5	8
12	2,2	<10	6	<5	4
26	10,2	<10	7	<5	3
555	3,9	<10	<2	<5	26
7	12,3	<10	5	<5	<1
25	1,3	<10	<2	<5	<1
25	<0.5	<10	3	<5	1
11	1	<10	3	<5	9

Table 5

Geochemical analysis
stream sediment samples

ANALYTE	Au	Be	Na	Mg	Al	P	K
METHOD	FAA313	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B
DETECTION	5	0,5	0,01	0,01	0,01	0,01	0,01
UNITS	PPB	PPM	%	%	%	%	%
KVA SSS 99601	<5	<0.5	0,01	0,34	0,8	0,06	0,2
KVA SSS 99602	772	<0.5	0,01	0,33	0,57	0,04	0,11
KVA SSS 99604	<5	<0.5	0,03	1,21	1,24	0,07	0,2
KVA SSS 99605	<5	<0.5	0,02	0,38	0,93	0,06	0,12
KVA SSS 99606	<5	<0.5	0,02	0,35	0,68	0,05	0,11
KVA SSS 99607	<5	<0.5	0,01	0,37	0,73	0,03	0,09
KVA SSS 99608	<5	<0.5	<0.01	0,25	0,43	0,04	0,07
KVA SSS 99609	18	<0.5	0,01	0,97	1,39	0,1	0,17
KVA SSS 99610	<5	<0.5	0,01	0,68	0,95	0,05	0,08
KVA SSS 99611	<5	<0.5	0,01	0,42	0,71	0,04	0,09
KVA SSS 99612	<5	<0.5	0,03	0,26	0,48	0,02	0,12
KVA SSS 99613	<5	<0.5	0,04	0,23	0,45	0,02	0,1
KVA SSS 99614	<5	<0.5	0,03	0,24	0,42	0,02	0,11
KVA SSS 99615	<5	<0.5	0,03	0,41	0,85	0,05	0,13
KVA SSS 99616	<5	<0.5	0,02	0,15	0,51	0,04	0,13
KVA SSS 99617	<5	<0.5	0,03	0,91	1,55	0,05	0,28
KVA SSS 99618	<5	<0.5	0,02	0,79	1,38	0,06	0,29
KVA SSS 99619	<5	<0.5	0,03	0,31	0,55	0,02	0,13
KVA SSS 99620	<5	<0.5	0,03	0,36	0,63	0,02	0,15
KVA SSS 99621	<5	<0.5	0,01	0,42	0,71	0,05	0,09
KVA SSS 99622	<5	<0.5	0,04	0,63	0,65	0,06	0,19
KVA SSS 99623	<5	<0.5	0,03	0,93	0,91	0,07	0,27
KVA SSS 99624	<5	<0.5	0,04	0,94	0,86	0,08	0,28
KVA SSS 99625	<5	0,5	0,03	0,65	0,8	0,03	0,42
KVA SSS 99626	<5	<0.5	0,03	0,31	0,43	0,02	0,14
KVA SSS 99627	<5	<0.5	0,03	0,31	0,45	0,02	0,15
KVA SSS 99628	<5	<0.5	0,03	0,16	0,38	0,02	0,09
KVA SSS 99551	<5	<0.5	0,04	0,4	0,56	0,02	0,23
KVA SSS 99552	<5	<0.5	0,03	1,23	1,44	0,04	0,23
KVA SSS 99553	<5	<0.5	0,03	0,65	0,84	0,03	0,23
KVA SSS 99554	<5	<0.5	0,05	0,99	1,07	0,04	0,15
KVA SSS 99555	<5	<0.5	0,06	1,03	1,19	0,04	0,2
KVA SSS 99556	<5	<0.5	0,02	1,47	1,34	0,06	0,51
KVA SSS 99557	<5	0,5	0,03	2,47	2,29	0,05	0,18
KVA SSS 99558	<5	<0.5	0,06	0,89	1,25	0,05	0,22
KVA SSS 99559	<5	<0.5	0,03	0,33	0,72	0,03	0,21
KVA SSS 99560	<5	<0.5	0,03	0,22	0,39	0,02	0,1
KVA SSS 99561	<5	<0.5	0,03	0,2	0,36	0,02	0,09
KVA SSS 99562	<5	<0.5	0,05	0,36	0,7	0,03	0,13
KVA SSS 99563	<5	<0.5	0,02	0,59	1,03	0,03	0,16
KVA SSS 99564	<5	<0.5	0,04	0,52	0,84	0,04	0,15
KVA SSS 99565	<5	<0.5	0,03	0,82	1,06	0,06	0,15
KVA SSS 99566	<5	<0.5	0,03	0,36	0,6	0,03	0,12
KVA SSS 99567	<5	<0.5	0,03	0,64	1,23	0,05	0,34
KVA SSS 99568	<5	<0.5	0,03	0,21	0,38	0,03	0,11
KVA SSS 99569	<5	<0.5	0,04	0,54	0,91	0,04	0,16
KVA SSS 99570	<5	<0.5	0,02	0,58	1,02	0,03	0,16
KVA SSS 99571	<5	<0.5	0,02	0,36	0,69	0,02	0,11
KVA SSS 99572	<5	<0.5	0,03	0,59	0,54	0,07	0,16
KVA SSS 99573	<5	<0.5	0,03	0,88	0,88	0,06	0,24
KVA SSS 99574	<5	<0.5	0,02	1,09	1,06	0,08	0,34
KVA SSS 99575	<5	<0.5	0,02	1,51	1,46	0,09	0,47
KVA SSS 99576	<5	<0.5	0,03	0,73	0,96	0,03	0,49
KVA SSS 99577	<5	<0.5	0,02	0,35	0,67	0,01	0,13
KVA SSS 99578	<5	<0.5	0,03	0,41	0,62	0,02	0,19
KVA SSS 99579	<5	<0.5	0,02	0,25	0,45	0,03	0,1

KVA SSS 99580	<5	<0.5	0,03	0,51	0,77	0,03	0,14
KVA SSS 99581	<5	<0.5	0,03	0,53	0,8	0,03	0,18
KVA SSS 99582	12	<0.5	0,02	1,33	1,57	0,05	0,39
KVA SSS 99583	<5	<0.5	0,02	0,53	0,82	0,03	0,14
KVA SSS 99584	<5	<0.5	0,01	0,79	1,39	0,06	0,32
KVA SSS 99585	<5	<0.5	0,02	0,68	1,02	0,03	0,24
KVA SSS 99586	<5	<0.5	0,02	0,27	0,51	0,03	0,13
KVA SSS 99587	<5	<0.5	0,02	0,29	0,56	0,02	0,1
KVA SSS 99588	9	<0.5	0,02	0,32	0,93	0,03	0,07
KVA SSS 99589	<5	<0.5	0,02	0,24	0,57	0,03	0,2
KVA SSS 99590	<5	<0.5	0,02	0,33	0,7	0,03	0,19
KVA SSS 328090	<5	<0.5	0,02	0,17	0,41	0,02	0,08
KVA SSS 328091	<5	<0.5	0,03	0,48	0,86	0,04	0,19
KVA SSS 328092	<5	<0.5	0,02	0,52	0,89	0,04	0,22
KVA SSS 328093	<5	<0.5	0,02	0,46	0,87	0,04	0,16
KVA SSS 328094	<5	<0.5	0,03	0,68	0,93	0,05	0,18
KVA SSS 328095	<5	<0.5	0,02	0,63	0,65	0,06	0,18
KVA SSS 328096	<5	<0.5	0,03	1	0,98	0,08	0,3
KVA SSS 328097	<5	<0.5	0,02	0,27	0,58	0,02	0,11
KVA SSS 328098	<5	<0.5	0,03	0,55	0,81	0,02	0,27
KVA SSS 328099	<5	0,7	0,02	0,77	1,13	0,03	0,19
KVA SSS 328100	<5	<0.5	0,03	0,27	0,46	0,02	0,11
KVA SSS 400581	<5	1,1	0,04	0,3	0,56	0,02	0,12
KVA SSS 400582	33	<0.5	0,03	0,16	0,34	0,02	0,08
KVA SSS 400583	<5	<0.5	0,02	0,31	0,68	0,03	0,12
KVA SSS 400584	<5	<0.5	0,02	0,44	0,6	0,04	0,13
KVA SSS 400585	<5	<0.5	0,02	0,46	0,81	0,04	0,15
KVA SSS 400586	<5	<0.5	0,02	0,5	0,77	0,02	0,12
KVA SSS 99935	<5	<0.5	0,02	0,3	0,71	0,02	0,18
KVA SSS 99936	<5	<0.5	0,03	0,73	0,93	0,03	0,13
KVA SSS 99937	<5	<0.5	0,03	0,55	1,07	0,06	0,15
KVA SSS 99938	<5	<0.5	0,06	1,38	1,21	0,06	0,18
KVA SSS 99939	8	<0.5	0,05	1,08	1,43	0,04	0,25
KVA SSS 99940	88	<0.5	0,02	1,17	1,57	0,03	0,21
KVA SSS 99941	<5	<0.5	0,02	0,42	0,65	0,02	0,14
KVA SSS 99942	<5	<0.5	0,02	0,87	1,15	0,03	0,21
KVA SSS 99943	<5	<0.5	0,02	1	1,2	0,06	0,35
KVA SSS 99944	<5	<0.5	0,03	0,48	0,66	0,03	0,17
KVA SSS 99945	<5	<0.5	0,02	1,29	1,28	0,05	0,5
KVA SSS 99946	<5	<0.5	0,01	0,2	0,54	<0.01	0,09
KVA SSS 99947	<5	<0.5	0,11	0,7	1,49	0,08	0,06
KVA SSS 99948	<5	<0.5	0,05	0,63	1,09	0,04	0,05
KVA SSS 99949	<5	<0.5	0,05	1,07	1,43	0,06	0,19
KVA SSS 99950	<5	<0.5	0,02	0,53	1,16	0,07	0,63
DUP-KVA SSS 99601	<5	<0.5	<0.01	0,32	0,76	0,07	0,19
DUP-KVA SSS 99614	<5	<0.5	0,02	0,23	0,4	0,02	0,11
DUP-KVA SSS 99626	<5	<0.5	0,03	0,31	0,45	0,02	0,15
DUP-KVA SSS 99560	<5	<0.5	0,03	0,22	0,39	0,03	0,11
DUP-KVA SSS 99572	<5	<0.5	0,02	0,53	0,53	0,06	0,14
DUP-KVA SSS 99584	<5	<0.5	<0.01	0,76	1,33	0,05	0,3
DUP-KVA SSS 328095	<5	<0.5	0,02	0,62	0,64	0,06	0,18
DUP-KVA SSS 99935	<5	<0.5	0,02	0,28	0,68	0,02	0,17
DUP-KVA SSS 99947	<5	<0.5	0,1	0,66	1,41	0,07	0,06

Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni
ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B
0,01	0,5	0,01	2	1	2	0,01	1	1
%	PPM	%	PPM	PPM	PPM	%	PPM	PPM
0,25	2	0,1	22	17	320	1,77	10	16
0,21	1,7	0,05	36	21	499	1,68	10	16
0,52	3,5	0,06	52	46	466	2,38	15	38
0,27	2,7	0,04	40	38	387	2,01	8	25
0,22	2	0,04	33	29	349	1,6	10	21
0,16	2,2	0,05	34	27	177	1,59	13	19
0,16	1,3	0,03	19	17	83	0,83	3	10
0,36	4,3	0,06	61	59	274	2,91	15	37
0,24	2,9	0,04	38	38	177	1,72	10	23
0,18	2,2	0,04	34	25	121	1,55	7	15
0,18	1,5	0,04	20	96	93	1,02	4	12
0,19	1,4	0,05	19	97	83	0,87	6	15
0,2	1,3	0,05	19	90	113	0,87	5	13
0,13	2	0,05	41	92	196	1,67	6	16
0,1	1,2	0,02	12	66	52	0,49	2	9
0,28	4	0,07	56	129	403	3,24	15	41
0,31	3,8	0,08	47	108	380	2,7	15	50
0,17	1,6	0,05	24	89	193	1,19	6	13
0,21	1,6	0,07	29	79	147	1,29	7	16
0,2	2,3	0,05	35	28	126	1,57	8	16
0,4	1,8	0,07	34	176	217	1,31	8	40
0,45	1,7	0,09	46	230	290	1,77	12	60
0,55	2,1	0,09	46	228	268	1,7	12	59
0,36	2,3	0,11	54	116	430	2,17	12	36
0,24	1	0,07	23	84	151	1,1	5	16
0,2	0,9	0,07	23	83	148	1,13	4	17
0,19	1,4	0,04	26	100	111	1,07	4	10
0,22	1,5	0,09	32	108	229	1,43	7	21
0,36	3,8	0,08	78	132	503	2,99	19	55
0,35	1,4	0,09	27	86	238	1,31	13	34
0,47	2,2	0,11	45	84	393	1,74	19	45
0,55	2,8	0,1	50	92	274	1,88	14	91
0,56	1,5	0,13	40	104	526	1,66	14	42
0,32	4	0,08	43	83	804	2,73	26	42
0,58	3,4	0,11	34	99	340	1,88	13	23
0,26	2	0,11	25	119	173	1,16	6	12
0,23	1,8	0,04	20	73	143	0,85	5	9
0,2	1,5	0,04	21	71	143	0,82	6	11
0,26	2,4	0,05	36	139	427	1,7	9	228
0,2	3,4	0,06	41	116	199	2,18	9	26
0,36	2,7	0,07	35	117	448	1,68	11	28
0,41	3,4	0,07	50	126	254	2,25	14	40
0,25	1,6	0,05	23	80	141	1,06	7	18
0,32	3	0,11	72	120	210	3,59	13	33
0,21	1,3	0,05	16	76	80	0,74	3	10
0,3	2,9	0,09	68	117	217	2,53	11	23
0,18	2,5	0,06	40	106	316	2,12	11	26
0,17	1,9	0,05	33	100	402	1,66	8	18
0,4	1,8	0,07	28	167	207	1,2	7	37
0,45	1,7	0,1	45	222	270	1,7	13	57
0,5	1,8	0,12	54	251	297	2,01	14	72
0,66	2	0,16	73	346	368	2,61	18	99
0,35	2,5	0,13	60	131	369	2,38	13	35
0,23	1,7	0,09	35	77	189	1,5	7	18
0,23	1,8	0,1	32	98	235	1,66	7	24
0,2	1,6	0,05	25	62	194	1,07	6	13

0,32	2	0,08	38	99	333	1,68	13	24
0,31	2,5	0,07	41	87	311	1,92	12	30
0,41	3,2	0,12	44	117	414	2,5	29	97
0,26	2,1	0,06	32	69	190	1,65	10	25
0,35	2,2	0,11	55	88	903	2,92	18	34
0,35	1,7	0,13	52	74	404	2,1	13	22
0,2	1,4	0,06	27	79	424	1,23	8	14
0,21	1,4	0,07	25	80	119	0,98	5	12
0,21	2,1	0,06	42	95	276	2,06	5	16
0,23	1,4	0,07	18	72	262	1,16	7	13
0,24	1,7	0,07	24	86	194	1,43	6	15
0,13	1,3	0,03	17	90	143	0,81	5	9
0,24	2,3	0,05	34	119	510	1,97	12	30
0,24	1,9	0,06	30	77	528	1,77	12	20
0,23	2,3	0,05	38	97	552	1,92	11	23
0,37	2,6	0,09	42	134	236	1,8	11	36
0,42	1,7	0,08	38	183	218	1,5	9	42
0,52	1,7	0,11	51	244	333	1,87	15	65
0,19	1,4	0,06	26	78	95	1,03	4	11
0,31	2,2	0,11	54	119	298	2,18	10	28
0,43	1,9	0,15	59	107	386	2,67	13	40
0,22	1,6	0,06	28	86	159	1,19	6	12
0,24	2,6	0,06	37	135	205	1,53	8	18
0,19	1	0,04	14	102	116	0,64	4	8
0,25	1,8	0,05	30	101	184	1,34	6	19
0,32	1,5	0,05	21	83	147	1,15	6	19
0,26	2	0,05	33	94	348	1,55	10	25
0,13	2,1	0,08	37	90	121	1,38	6	21
0,21	1,8	0,08	30	119	389	1,63	8	18
0,29	2,4	0,06	46	106	1770	2,35	21	34
0,36	3,9	0,06	55	124	610	2,63	13	22
1,24	4,8	0,07	66	98	409	2,46	14	33
0,46	6,3	0,1	96	136	501	3,33	19	60
0,31	2,8	0,08	81	115	634	3,08	21	46
0,26	1,1	0,08	24	113	169	1,22	8	24
0,4	2,2	0,12	49	176	442	2,27	24	121
0,48	1,6	0,12	48	124	350	1,87	16	44
0,29	1,1	0,08	26	110	205	1,12	7	23
0,47	1,5	0,12	41	121	410	1,71	15	37
0,16	0,8	0,05	38	79	109	1,25	4	13
0,76	4,3	0,09	54	59	196	2,02	14	33
0,41	2,8	0,08	51	85	197	1,97	14	28
0,58	4,1	0,09	47	108	373	2,5	16	30
0,2	2,6	0,16	33	92	171	1,73	9	20
0,27	1,4	0,09	21	16	320	1,65	9	15
0,19	1,2	0,04	18	87	112	0,81	5	13
0,25	1	0,08	23	83	143	1,08	5	15
0,23	1,8	0,04	20	72	143	0,85	5	10
0,38	1,4	0,06	28	155	186	1,07	7	34
0,32	2	0,1	53	81	873	2,76	18	32
0,39	1,5	0,07	36	173	211	1,41	9	40
0,2	1,8	0,07	27	110	370	1,49	9	17
0,71	3,9	0,09	51	54	185	1,91	13	31

Cu	Zn	As	Sr	Y	Zr	Mo	Ag	Cd
ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B
0,5	0,5	3	0,5	0,5	0,5	1	2	1
PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
15,8	57,1	<3	9,5	9,4	4,6	<1	<2	<1
25,9	29,2	<3	9,7	4,9	2,5	<1	<2	<1
86,6	45,6	<3	10	6,5	1,8	<1	<2	<1
36	43,3	8	8,8	7,6	1,9	1	<2	<1
26,6	37,2	<3	7,1	5,3	1,8	<1	<2	<1
30,7	23,9	<3	6,1	5,5	3,4	2	<2	<1
11,3	17,6	<3	6,6	3,2	2,4	<1	<2	<1
61,9	51,6	<3	12,4	5	2,8	2	<2	<1
14,1	39,7	<3	8,7	3,8	2,1	<1	<2	<1
17,8	32	<3	6,8	3,9	2,5	<1	<2	<1
11,1	14,8	<3	9	3,4	3,8	<1	<2	<1
23,3	10,7	<3	8,4	3,6	1,5	<1	<2	<1
10,7	13,1	<3	9,4	3,7	3,8	<1	<2	<1
13,2	18,6	<3	6,6	3,7	2,3	<1	<2	<1
7,1	12,2	<3	7,9	5,8	0,6	<1	<2	<1
34,3	110	6	11,2	7,8	4,7	<1	<2	<1
30,8	72,7	<3	13,8	7,9	3,4	<1	<2	<1
10,5	25,2	<3	7,8	3,8	3,2	<1	<2	<1
16,4	19,3	<3	10,8	3,9	3,2	<1	<2	<1
18,3	31,8	<3	7,1	3,7	2,6	<1	<2	<1
13,9	28,4	10	35,8	4,2	4,9	<1	<2	<1
19,2	34,5	15	44,1	3,7	3,5	<1	<2	<1
20,4	32,3	20	60,7	4,6	4,5	<1	<2	<1
25,3	71,4	11	57,3	6	26,9	<1	<2	<1
10,9	33,6	<3	31,8	4,1	9,7	<1	<2	<1
9,8	33,2	<3	28,6	4,1	16,3	<1	<2	<1
8,5	12,2	<3	17,8	4	1,9	<1	<2	<1
10,9	41,1	<3	35	5	13,2	<1	<2	<1
82,4	58,3	<3	11,1	3,6	3,6	<1	<2	<1
19,1	29,5	<3	14,4	4,8	2,2	1	<2	<1
53,5	34	<3	11,7	6,4	1,5	2	<2	<1
61,2	59,1	<3	13,1	4,3	1,5	1	<2	<1
18,7	29,4	<3	18,5	3,7	2,5	<1	<2	<1
149	104	<3	9,5	13	4,4	<1	<2	<1
34	50	<3	12,6	8,9	2,8	<1	<2	<1
13,1	23	<3	8,8	7,1	<0.5	1	<2	<1
10,7	12,5	<3	7	4,2	4,5	<1	<2	<1
11,1	12,2	<3	6,5	3,7	3,6	<1	<2	<1
27,3	37,3	4	9	5,3	4,5	1	<2	<1
21,9	41,5	<3	8,3	4,4	4,3	<1	<2	<1
31,7	29,5	4	14,6	4,9	4,2	2	<2	<1
30	39,5	7	14,9	4,5	3,8	5	<2	<1
22,9	17,5	<3	11,2	4	3	<1	<2	<1
98,7	42,9	<3	10,5	4,4	3,9	<1	<2	<1
15,3	12	<3	9,8	4	4,3	2	<2	<1
52,9	29,9	<3	10,4	6,7	4,3	<1	<2	<1
23,2	61,2	4	9	5,4	3,5	<1	<2	<1
16,3	31,9	4	8,4	4,6	1,9	<1	<2	<1
13,1	22	8	35,6	4,4	3,9	<1	<2	<1
18,4	34,5	13	37,8	3,9	3,7	<1	<2	<1
24,4	41,4	23	50,8	4,1	4,6	<1	<2	<1
34,1	57,7	20	80	4,3	5,7	<1	<2	<1
21,8	72,7	45	48,4	4,9	15,9	<1	<2	<1
8,9	27,2	<3	22,9	4,9	7,1	<1	<2	<1
9,6	48,2	<3	35,6	6,2	19,7	<1	<2	<1
22,9	12,2	<3	8,7	4,1	4	<1	<2	<1

32,9	31	<3	11	4,2	2,3	1	<2	<1
44,2	38,4	<3	10,6	3,9	3,5	<1	<2	<1
234	42,6	<3	12,3	12,2	7	<1	<2	<1
41,5	27,8	<3	9,3	5,3	2,3	<1	<2	<1
107	77,7	<3	15,2	6	2,5	<1	<2	<1
44,9	42,1	<3	15	3,7	2,4	<1	<2	<1
19,1	18,3	<3	10,1	4,3	3,6	<1	<2	<1
12,5	15	<3	9,7	3,3	2,9	<1	<2	<1
25,5	20,6	<3	9,1	4,3	1,7	1	<2	<1
9,6	27,9	<3	13	6,7	3,2	<1	<2	<1
14,2	33,2	<3	10,9	7,1	3,4	<1	<2	<1
9,8	12,1	<3	7,4	4	1,3	<1	<2	<1
21,6	51,7	4	11,7	6	3,3	<1	<2	<1
21	45,4	3	12,4	7,5	3,8	<1	<2	<1
23,7	48,2	4	10,5	5,8	1,8	<1	<2	<1
18,3	44,1	<3	28,9	5,1	6,2	<1	<2	<1
15,3	29	12	36,8	4,4	2,9	<1	<2	<1
22,9	38,8	20	45,7	4,3	3,5	<1	<2	<1
12	13,3	<3	9,9	3,7	1,6	<1	<2	<1
16	65,3	<3	40,2	5,7	14,1	<1	<2	<1
19,6	76,2	<3	71,8	5,8	17,6	<1	<2	<1
10,5	21,2	<3	15,9	3,7	4,6	<1	<2	<1
17,4	16,8	<3	10,6	5,1	4,4	2	<2	<1
6,1	9,7	5	8,3	3,1	2,5	<1	<2	<1
23,5	25,2	4	9,3	5	2,6	<1	<2	<1
30,9	18,4	<3	10,5	3,3	3,9	1	<2	<1
23,2	28,6	3	10,7	5	1,2	2	<2	<1
28,9	16,5	<3	6,8	3,2	2,8	<1	<2	<1
22,1	27	<3	8,6	7,4	3,4	<1	<2	<1
44,7	27	<3	10,3	4,5	2,6	<1	<2	<1
22,7	92,5	3	11,7	16,8	1	<1	<2	<1
68	40,1	<3	10,8	6	3,2	<1	<2	<1
73,3	61,8	<3	9,7	7,9	4,8	<1	<2	<1
71,3	68	<3	7	3,2	2,9	<1	<2	<1
22,3	23,5	<3	11,9	3,2	2,6	1	<2	<1
70,5	34,9	<3	8,8	4,2	1	4	<2	<1
52,4	44,7	<3	15	5,1	2,3	<1	<2	<1
17,4	20,6	<3	13,7	3	2	<1	<2	<1
27,9	29,2	<3	14,7	3,7	2,5	<1	<2	<1
15,7	11,3	<3	7,2	2,4	3,6	4	<2	<1
596	63,3	<3	14,2	8,4	1,7	<1	<2	<1
308	239	<3	7,1	6	1	1	<2	<1
92,9	77,2	<3	11,8	8	2,5	<1	<2	<1
19,4	44,8	<3	7,5	10,9	1,6	<1	<2	<1
14,9	52,6	<3	8,7	8,8	4,5	<1	<2	<1
10,9	12,8	<3	8,4	3,5	3,8	<1	<2	<1
9,9	31,3	<3	28,3	4	10,4	<1	<2	<1
10,9	12,6	<3	7	4,2	4,8	<1	<2	<1
12,2	21,6	7	34,2	3,7	3,2	<1	<2	<1
104	74,9	<3	15	5,7	1,9	<1	<2	<1
15,2	28,3	12	35,9	3,9	2,6	<1	<2	<1
21,5	25,9	<3	8	6,9	4,2	<1	<2	<1
560	60,3	<3	13,4	7,8	1,5	<1	<2	<1

Sn	Sb	Ba	La	W	Pb	Bi	Li
ICP12B	ICP12B	ICP1					
10	5	1	0,5	10	2	5	1
PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
<10	<5	54	19,8	<10	4	<5	11
<10	<5	47	9,7	<10	6	<5	4
<10	<5	81	11,8	<10	<2	<5	8
<10	<5	65	13,2	<10	12	<5	9
<10	<5	53	9,7	<10	9	<5	6
<10	<5	42	11	<10	6	<5	7
<10	<5	28	7,4	<10	<2	<5	4
<10	<5	70	8,9	<10	<2	<5	10
<10	<5	41	7,3	<10	3	<5	8
<10	<5	39	6,4	<10	3	<5	7
<10	<5	34	6,3	<10	<2	<5	4
<10	<5	30	6,2	<10	3	<5	3
<10	<5	36	6,7	<10	3	<5	3
<10	<5	31	6,7	<10	9	<5	5
<10	<5	86	9	<10	3	<5	4
<10	<5	55	10,8	<10	7	<5	18
<10	<5	61	11,7	<10	7	<5	14
<10	<5	29	5,1	<10	3	<5	5
<10	<5	30	6,9	<10	2	<5	6
<10	<5	38	6,5	<10	2	<5	6
<10	<5	77	5,8	<10	5	<5	7
<10	<5	114	4,9	<10	3	<5	10
<10	<5	129	6,2	<10	4	<5	9
<10	<5	73	11,1	<10	26	<5	11
<10	<5	52	7,5	<10	14	<5	6
<10	<5	42	6,6	<10	16	<5	7
<10	<5	36	7,4	<10	8	<5	3
<10	<5	53	10,2	<10	21	<5	8
<10	<5	92	6,6	<10	<2	<5	12
<10	<5	50	12,3	<10	<2	<5	9
<10	<5	45	10,6	<10	2	<5	12
<10	<5	75	8,3	<10	<2	<5	10
<10	<5	47	13,4	<10	<2	<5	15
<10	<5	37	21,7	<10	8	<5	31
<10	<5	52	14,3	<10	<2	<5	10
<10	<5	39	12,5	<10	<2	<5	5
<10	<5	29	6,2	<10	6	<5	3
<10	<5	27	6,9	<10	3	<5	3
<10	<5	46	9,1	<10	6	<5	7
<10	<5	54	8	<10	3	<5	8
<10	<5	71	9,8	<10	3	<5	8
<10	<5	86	7,9	<10	2	<5	10
<10	<5	38	8,5	<10	4	<5	5
<10	<5	110	8,9	<10	3	<5	11
<10	<5	29	7,1	<10	<2	<5	3
<10	<5	34	13,4	<10	6	<5	7
<10	<5	40	8,8	<10	4	<5	10
<10	<5	38	8,8	<10	14	<5	5
<10	<5	73	5,3	<10	<2	<5	6
<10	<5	93	5,4	<10	4	<5	9
<10	<5	138	6,6	<10	5	<5	12
<10	<5	240	8	<10	7	<5	16
<10	<5	86	9,2	<10	20	<5	12
<10	<5	41	10,7	<10	8	<5	6
<10	<5	58	9,4	<10	19	<5	10
<10	<5	23	7,9	<10	4	<5	3

<10	<5	39	8,4	<10	10	<5	7
<10	<5	62	7,4	<10	7	<5	6
<10	<5	116	19,2	<10	5	<5	19
<10	<5	39	10,1	<10	4	<5	7
<10	<5	57	9,8	<10	6	<5	21
<10	<5	35	5,8	<10	6	<5	10
<10	<5	30	8,2	<10	4	<5	5
<10	<5	21	6,5	<10	2	<5	5
<10	<5	28	8	<10	7	<5	6
<10	<5	43	10	<10	3	<5	5
<10	<5	45	11,8	<10	<2	<5	7
<10	<5	35	7,8	<10	7	<5	4
<10	<5	43	9,8	<10	11	<5	7
<10	<5	47	13,3	<10	9	<5	8
<10	<5	46	8,8	<10	12	<5	8
<10	<5	80	8,6	<10	2	<5	10
<10	<5	79	5,8	<10	3	<5	7
<10	<5	124	6,3	<10	5	<5	11
<10	<5	29	6,9	<10	2	<5	4
<10	<5	57	10,7	<10	22	<5	9
<10	<5	78	18,3	<10	21	<5	14
<10	<5	27	6,4	<10	9	<5	4
<10	<5	34	8,9	<10	3	<5	6
<10	<5	29	5,7	<10	3	<5	3
<10	<5	46	10,9	<10	5	<5	8
<10	<5	45	7,8	<10	<2	<5	5
<10	<5	68	9,7	<10	<2	<5	9
<10	<5	23	7,4	<10	3	<5	4
<10	<5	49	12	<10	<2	<5	8
<10	<5	79	8,5	<10	3	<5	5
<10	<5	59	19,5	<10	6	<5	11
<10	<5	60	9,1	<10	<2	<5	6
<10	<5	86	12,2	<10	3	<5	8
<10	<5	74	6,6	<10	3	<5	13
<10	<5	41	6,2	<10	<2	<5	6
<10	<5	64	8,7	<10	4	<5	12
<10	<5	64	10,9	<10	4	<5	12
<10	<5	45	7,3	<10	4	<5	6
<10	<5	49	14,2	<10	<2	<5	14
<10	<5	49	5,9	<10	4	<5	4
<10	<5	15	6,5	<10	6	<5	4
<10	<5	12	6,8	<10	3	<5	4
<10	<5	30	13,9	<10	4	<5	9
<10	<5	110	22,2	<10	<2	<5	8
<10	<5	51	20	<10	4	<5	11
<10	<5	33	7,1	<10	<2	<5	3
<10	<5	54	6,5	<10	15	<5	5
<10	<5	29	6,3	<10	4	<5	3
<10	<5	65	5,3	<10	<2	<5	5
<10	<5	55	9	<10	6	<5	20
<10	<5	81	5,6	<10	4	<5	7
<10	<5	47	12,2	<10	3	<5	8
<10	<5	15	6,1	<10	7	<5	4

Table 6

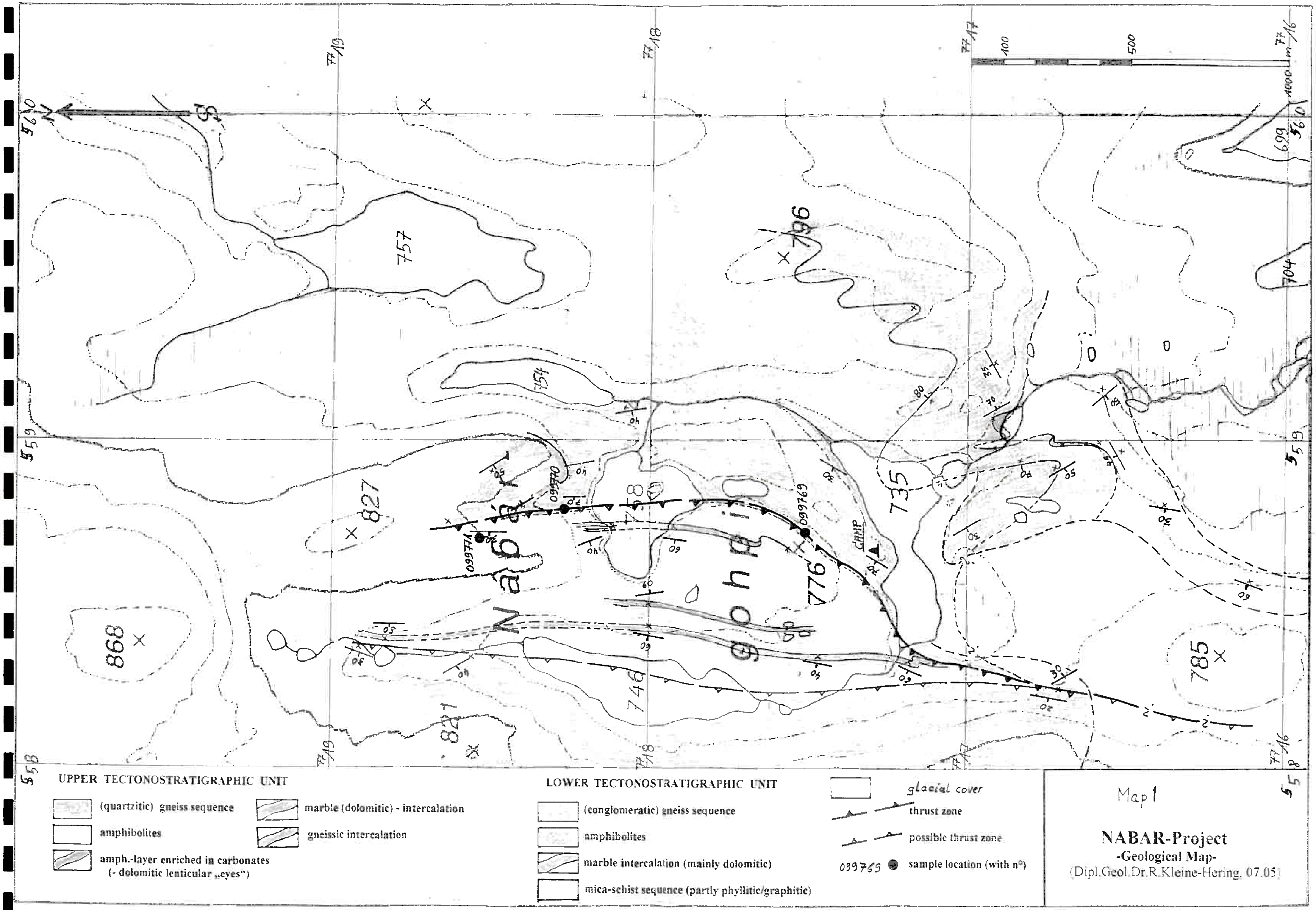
Geochemical analysis
soil samples

ANALYTE	Au	Be	Na	Mg	Al	P	K
METHOD	FAA313	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B
DETECTION	5	0,5	0,01	0,01	0,01	0,01	0,01
UNITS	PPB	PPM	%	%	%	%	%
KVA SOS 001	<5	<0.5	<0.01	0,53	0,86	0,04	0,11
KVA SOS 002	<5	<0.5	<0.01	0,31	0,71	0,03	0,07
KVA SOS 003	<5	<0.5	0,01	0,65	1,13	0,04	0,23
KVA SOS 004	<5	<0.5	<0.01	0,42	0,75	0,04	0,08
KVA SOS 005	24	<0.5	<0.01	0,34	0,68	0,03	0,06
KVA SOS 006	<5	<0.5	<0.01	0,32	0,64	0,04	0,07
KVA SOS 007	<5	<0.5	<0.01	0,29	0,69	0,03	0,06
KVA SOS 008	<5	<0.5	<0.01	0,32	0,91	0,04	0,05
KVA SOS 009	<5	<0.5	<0.01	0,35	0,75	0,02	0,05
KVA SOS 010	<5	<0.5	<0.01	0,37	0,76	0,03	0,07
KVA SOS 011	<5	<0.5	<0.01	0,65	1,31	0,03	0,05
KVA SOS 012	<5	<0.5	0,01	1,47	2,2	0,05	0,6
KVA SOS 013	<5	<0.5	<0.01	0,29	0,62	0,03	0,07
KVA SOS 014	25	<0.5	<0.01	0,45	0,8	0,05	0,1
KVA SOS 015	<5	<0.5	<0.01	0,27	0,55	0,04	0,07
KVA SOS 016	<5	<0.5	<0.01	0,28	0,57	0,03	0,06
KVA SOS 017	<5	<0.5	0,01	1,44	2,13	0,02	0,31
KVA SOS 018	<5	<0.5	<0.01	2,38	2,98	0,07	0,06
KVA SOS 019	<5	<0.5	<0.01	0,4	0,89	0,03	0,06
KVA SOS 020	<5	<0.5	<0.01	0,32	0,67	0,03	0,06
KVA SOS 021	<5	<0.5	<0.01	0,29	0,69	0,03	0,06
KVA SOS 022	<5	<0.5	<0.01	0,19	0,57	0,03	0,04
KVA SOS 023	<5	<0.5	<0.01	0,39	0,58	0,04	0,09
KVA SOS 024	<5	<0.5	<0.01	0,42	0,84	0,05	0,07
DUP-KVA SOS 001	<5	<0.5	<0.01	0,54	0,87	0,04	0,11
DUP-KVA SOS 013	<5	<0.5	<0.01	0,3	0,64	0,03	0,07

Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni
ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B
0,01	0,5	0,01	2	1	2	0,01	1	1
%	PPM	%	PPM	PPM	PPM	%	PPM	PPM
0,16	2,4	0,06	34	32	205	1,67	14	180
0,12	1,3	0,05	31	25	133	1,32	8	19
0,2	2,6	0,1	55	68	424	2,64	16	65
0,13	2,2	0,05	35	30	200	1,49	10	40
0,1	1,5	0,04	29	23	134	1,34	7	18
0,1	1,8	0,04	28	22	122	1,27	7	18
0,1	1,6	0,04	27	21	101	1,16	6	17
0,11	1,8	0,04	29	25	157	1,51	9	17
0,09	1,3	0,04	30	21	120	1,42	7	13
0,14	1,8	0,04	32	25	141	1,37	7	15
0,08	2,9	0,06	64	34	426	2,75	12	19
0,2	3,2	0,19	86	176	910	3,87	36	116
0,12	1,4	0,04	26	22	140	1,19	7	14
0,11	2,6	0,04	40	36	240	1,81	11	26
0,13	1,1	0,03	22	18	119	0,99	6	11
0,14	1,8	0,03	27	22	86	1,26	7	16
0,33	7,6	0,13	103	42	817	4,09	30	46
0,18	10,2	0,03	161	83	1960	6,74	50	70
0,07	2	0,04	44	28	225	1,68	7	15
0,1	1,7	0,04	35	21	172	1,43	8	15
0,11	1,4	0,04	28	23	142	1,29	7	14
0,06	0,9	0,05	30	16	83	1,16	4	8
0,11	1,4	0,03	26	27	194	1,4	9	35
0,12	2,7	0,03	42	26	304	1,95	13	24
0,15	2,5	0,06	35	34	211	1,66	14	189
0,13	1,4	0,04	27	23	140	1,23	8	15

Cu	Zn	As	Sr	Y	Zr	Mo	Ag	Cd
ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B
0,5	0,5	3	0,5	0,5	0,5	1	2	1
PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
62,7	31	<3	5,1	5,9	2,6	<1	<2	<1
23,8	14,3	<3	4,4	3,1	2,3	<1	<2	<1
62,8	27,4	<3	6,8	3,8	4,2	<1	<2	<1
37,8	20,5	<3	4,4	4,6	3,1	<1	<2	<1
24,3	16,3	<3	3,8	3,1	2,4	<1	<2	<1
27,5	17,5	<3	3,9	4,1	3,1	<1	<2	<1
27,2	17,3	<3	3,9	3,6	3,4	<1	<2	<1
25,6	14,6	5	4,1	2,6	3,6	<1	<2	<1
22,2	12,6	<3	2,8	2,1	2,6	<1	<2	<1
23,5	16,3	<3	5,1	3,7	3,1	<1	<2	<1
19,3	32	3	4,1	3,4	2,9	<1	<2	<1
75,9	41,2	<3	7,3	2,8	4	<1	<2	<1
19,9	12,9	<3	4,1	3,1	2,9	<1	<2	<1
41,3	31	6	3,4	4	3,9	<1	<2	<1
14,5	12,4	<3	4,2	2,5	2,7	<1	<2	<1
31,3	18,7	4	6,3	3,7	3	<1	<2	<1
146	52	23	10,4	11,1	4,4	<1	<2	<1
150	75,4	<3	5,6	19,6	4,3	<1	<2	<1
19,9	25,1	<3	3,1	2,3	2,4	<1	<2	<1
25,2	22,4	4	3,4	2,8	2,4	<1	<2	<1
26,9	15,4	<3	3,9	2,6	3,1	<1	<2	<1
9,8	9,4	<3	2,7	1,9	2	<1	<2	<1
30,7	19,1	6	3,7	3,4	3,9	<1	<2	<1
43,3	30,3	4	3,6	4,6	4,6	<1	<2	<1
64	34,1	<3	4,8	6,1	2,6	<1	<2	<1
19,9	12,9	<3	4,2	3,2	2,9	<1	<2	<1

Sn	Sb	Ba	La	W	Pb	Bi	Li
ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B	ICP12B
10	5	1	0,5	10	2	5	1
PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
<10	<5	40	8,6	<10	5	<5	8
<10	<5	27	7,6	<10	5	<5	5
<10	<5	121	7,1	<10	5	<5	11
<10	<5	29	8,6	<10	6	<5	6
<10	<5	23	7,2	<10	5	<5	6
<10	<5	29	7,9	<10	5	<5	6
<10	<5	23	8,1	<10	6	<5	5
<10	<5	20	5,5	<10	5	<5	6
<10	<5	16	5	<10	4	<5	5
<10	<5	34	9	<10	6	<5	5
<10	<5	44	5,4	<10	5	<5	8
<10	<5	247	7,1	<10	6	<5	23
<10	<5	20	6,9	<10	5	<5	4
<10	<5	27	8,9	<10	3	<5	7
<10	<5	19	5,9	<10	5	<5	5
<10	<5	36	7,2	<10	5	<5	6
<10	<5	193	6,8	<10	4	<5	14
<10	<5	68	3,4	<10	5	<5	15
<10	<5	19	4,9	<10	5	<5	5
<10	<5	20	5,5	<10	5	<5	4
<10	<5	20	6,5	<10	5	<5	4
<10	<5	16	4,9	<10	5	<5	3
<10	<5	23	9,8	<10	5	<5	5
<10	<5	33	5,9	<10	6	<5	6
<10	<5	42	8,7	<10	5	<5	8
<10	<5	22	7	<10	6	<5	4


UPPER TECTONOSTRATIGRAPHIC UNIT
(quartzitic) gneiss sequence
amphibolites
amph.-layer enriched in carbonates (- dolomitic lenticular „eyes“)
marble (dolomitic) - intercalation
gneissic intercalation
LOWER TECTONOSTRATIGRAPHIC UNIT
(conglomeratic) gneiss sequence
amphibolites
marble intercalation (mainly dolomitic)
mica-schist sequence (partly phyllitic/graphitic)
glacial cover
thrust zone
possible thrust zone
099769 sample location (with n°)
Map 1
NABAR-Project
-Geological Map-
(Dipl.Geol.Dr.R.Kleine-Hering. 07.05)

Nabar scale 1 : 10 000 (map 2)

- Banded granitic gneiss
- Amphibolite, finegrained, massive to schisty
- Chloritic greenschist, minor graphitic phyllite
- Feldspar-quartz-biotite schist
- Chert
- Coarsegrained garnet-chlorite schist
- Coarsegrained garnet-cummingtonite-siderite rock
- Marble
- Quartz conglomerate / arkose and mica schist
- Biotite-chlorite schist
- Aplite
- Monzonite
- Ultrabasite

- Outcrop
- Hydrothermal quartz vein
- Carbonate layers and -lenses
- Rusty surface / sulphide dissemination
- Strike / dip schistosity
- Strike / dip quartz vein
- Fold axis with plunge indicated
- Axial-plane trace of overturned antiform, plunge indicated
- Axial-plane trace of overturned synform, plunge indicated
- Thrust fault
- Fault
- Sample location with number
99

Rune Wilberg