Bergvesenet

Postboks 3021, N-7441 Trondheim

Rapportarkivet

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4809	0496/03			**Åpen**
Kommer fra ..arkiv	Ekstern rapport nr	Oversendt fra Crew Norway AS	Fortrolig pga	Fortrolig fra dato:

Tittel

Exploration in Meråker Sourth-Eastern Ore Field, Røros, Norway

Forfatter	Dato År	Bedrift (Oppdragsgiver og/eller oppdragstaker)
Røsholt, Bernt Wilberg, Rune	2001	Crew Norway AS

Kommune	Fylke	Bergdistrikt	1: 50 000 kartblad	1: 250 000 kartblad
Meråker	Sør-Trøndelag		17211 17212	Trondheim

Fagområde	Dokument type	Forekomster (forekomst, gruvefelt, undersøkelsesfelt)
Geologi Geofysikk Geokjemi		Husmannsberget Fossvatnet Gåsvollfjellet Svartåtjern Gåstjønna NW
Råstoffgruppe	**Råstofftype**	
Malm/metall	Zn Cu	

Sammendrag, innholdsfortegnelse eller innholdsbeskrivelse

The targets Husmannsberget (86) and Fossvatnet (87) in Meråker South East ore field warrants follow up with VLF and DOB sampling.

EXPLORATION IN

MERÅKER SOUTH-EASTERN ORE FIELD, RØROS

NORWAY

2001 Bernt Røsholt,
Rune Wilberg

Contents

Enclosures:

1. Summary of results of ore samples from Meråker South-East ore field 1998.
2. Field report Meråker September and November 2000. R. Wilberg.
3. Husmannsberget. Memorandum on Elkem's exploration work in Meråker 1966-1971.
4. Assay results, rocks from Meråker 2001.
5. Assay results 2000 of Auger soil samples, Meråker.
6. Assay results 2000 on stream sediment samples, Meråker.
7. Assay results 2001 of DOB soil samples, Meråker.
8. Assay results 2001 of Auger soil samples, Fossvatnet, Meråker

Røros-Meråker District

Fig. 1

Overview of the Exploration in Meråker Østgruvefelt (Meråker East Mining Field), southern part, with sediment- and volcanic-hosted, Zinc-Copper deposits.

Summary and background.

The Meråker district is a part of the Røros-Meråker Mining Province, Central Norway (fig. 1), and contains a number of Cu-Zn deposits, which have been exploited since the mid 1700. The entire length of the Meråker Østgruvefelt is approx. 30 km, and is here divided in a northern and southern part. The Meråker Vestgruvefelt (Meråker West Mining Field) include deposits bound to the Fundsjø Group greenstone belt, and is not included here.
The Meråker South-East ore field, Røros, is located in the Røros-Meråker Mining Province, Central Norway; see fig. 1. This ore field, fig. 3, is located 80-110 km NNE of Røros Town. Some of the old mines were significant, see below, and the ore field is also regarded to host a Zn potential with potential gold credits. The 16 mines and claims from Meråker SE ore field are listed as follows, (See fig 3 and Enclosure no 1): 88 Sagskjerpet, 89 Brenthaugvollen, 90 Langsundgruva, 91 Nordre Knoll, 92 Søndre Knoll, 93 Anna, 94 Gøsta, 95 Duddu, 96 Ebba, 97 Lillefjell Mine, 98 Peder Bentzens skjerp, 99 Peder Bentzen nord, 100 Litlfjellet south, 101 Gilså Mine, 102 dronningen Mine and 103 Svartåtjern .
The Meråker area is also covered by some 1600 soil samples collected by NGU (Norwegian Geological Survey), which were sampled in a 2x0,5 km grid. No precious elements assays are conducted on the samples. Sample pulps are still available. See fig 2. Fig no 4 exhibits the Zn anomaly map over the same area.

History.

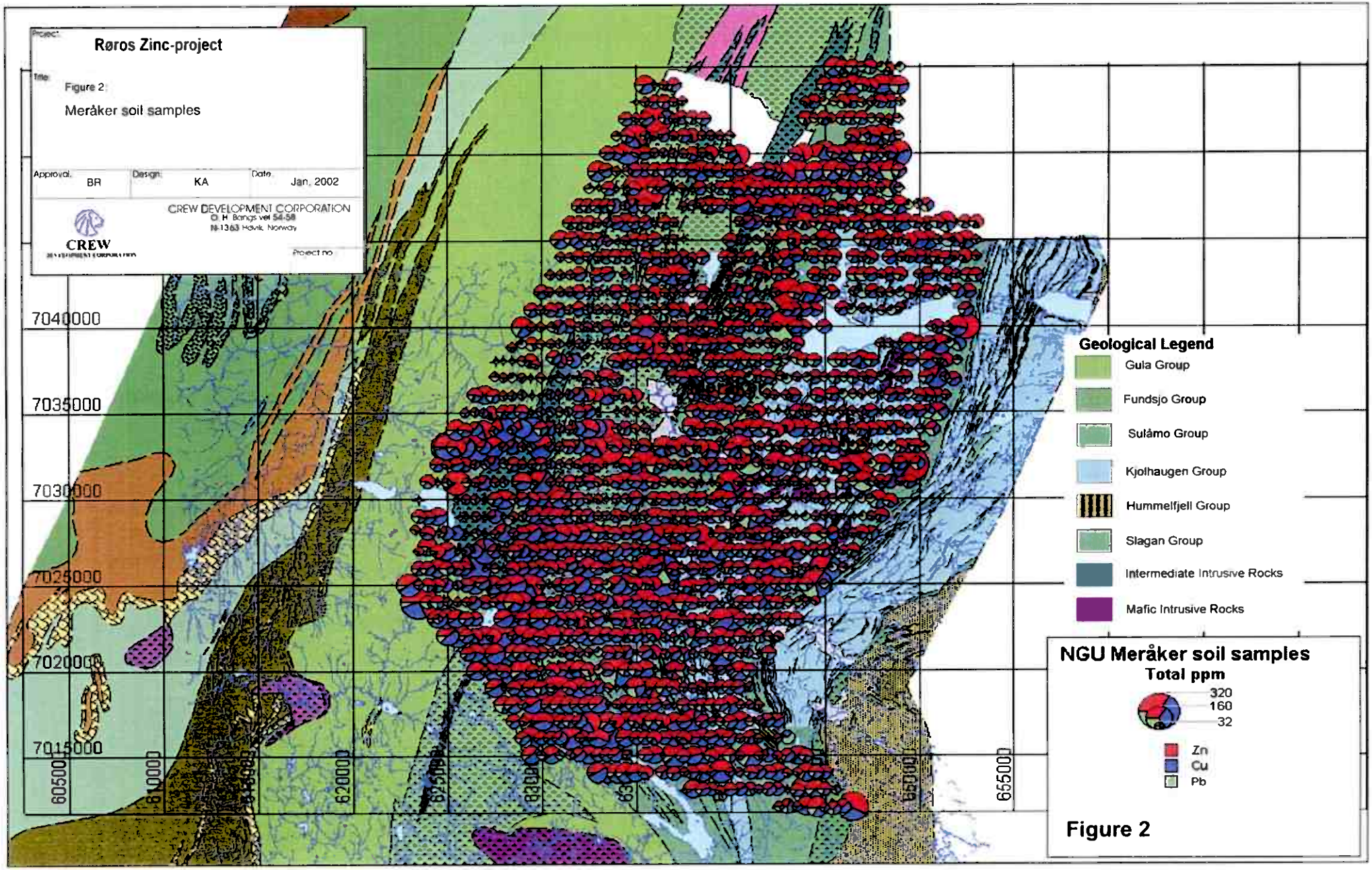
The first mine in Meråker started its production in 1747 (Dronningens mine (102), and in the years to come several deposits were detected. Lillefjell (97), which has been the main producing mine, was found in 1751. Production lasted from 1760 to 1920, and totally about 120 000 tons containing 6.5 % Cu was extracted. The Gilså mine (101) was in production in the periods 1771-1811 and 1907-1920. Several small mines and prospects, around Husmannsberget, have produced copper ore.

In 1991 the Meråker area was covered by airborne geophysics, conducted by the Geological Survey of Norway (Mogaard & Blokkum 1992, Walker 1992). They followed-up selected AEM anomalies by ground geophysics (Dalsegg & Lauritsen 1992). Noranda reprocessed the Meråker dataset in 2000.

Regional Geology.

The Cambro-Silurian rocks of the Røros-Meråker district make up the southeastern limb of a large and complexly folded synformal structure composing the Trondheim Region. The rocks belong to the Upper Allochton of the Scandinavian Caledonides.

The geology is characterized by a series of low-angle thrusts, or nappes, which dip gently towards the west. Lithologically, the rocks represent a lateral transition from epiclastic rocks along the former margin of the Baltic Shield to the east, through calcareous-pelitic shelf sediments, to predominantly volcanogenic rocks of the Iapetus Ocean in the west.


Project:
Røros Zinc-project
Title:
Figure 2:
Meråker soil samples
Approval: BR
Design: KA
Date: Jan. 2002
CREW DEVELOPMENT CORPORATION
O. H. Bangs vei 54-58
N-1363 Høvik, Norway
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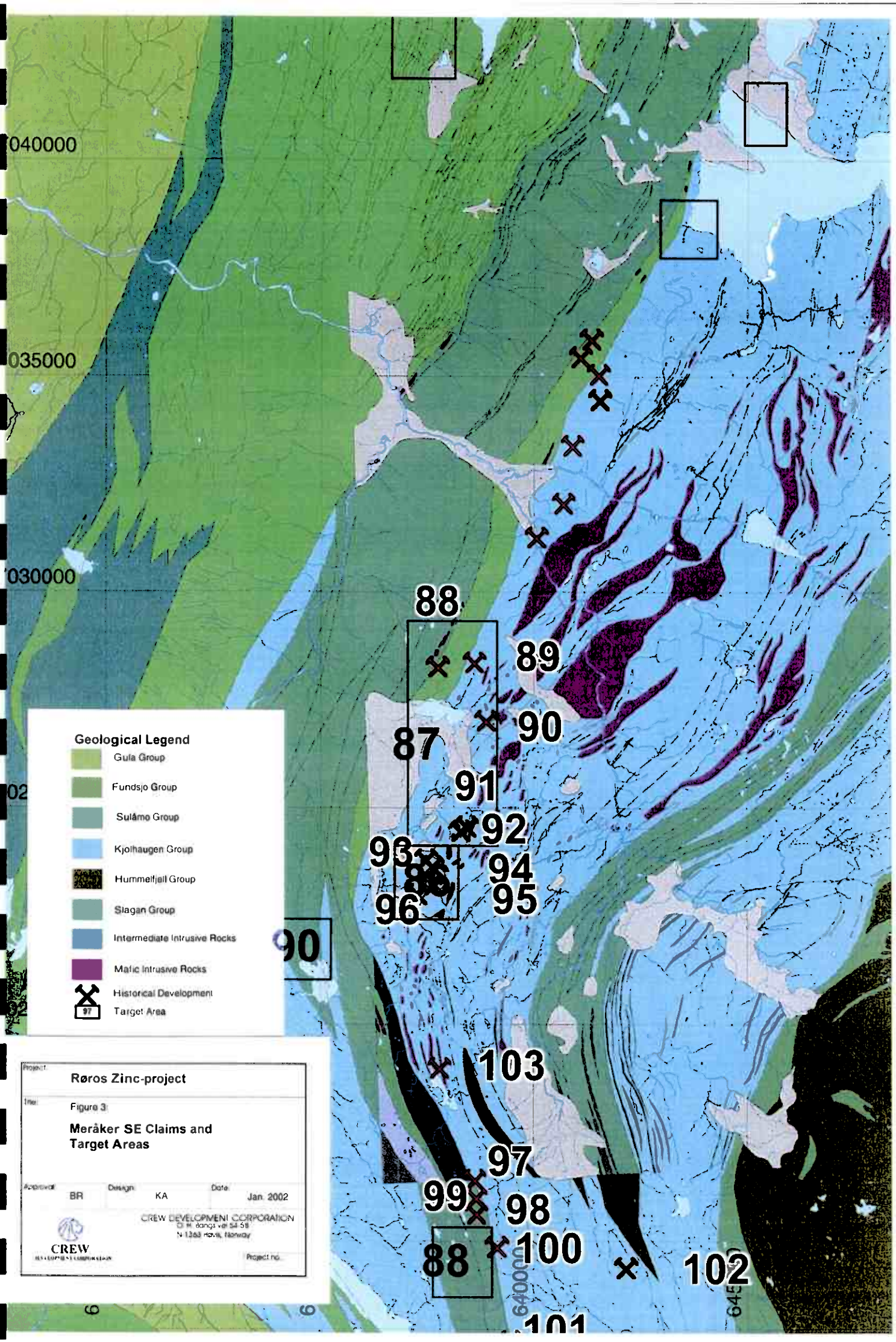
Geological Legend
Gula Group
Fundsjo Group
Sulåmo Group
Kjolhaugen Group
Hummelfjell Group
Slagan Group
Intermediate Intrusive Rocks
Mafic Intrusive Rocks
NGU Meråker soil samples
Total ppm
320
160
32
Zn
Cu
Pb
Figure 2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Geological Legend
Gula Group
Fundsjo Group
Sulåmo Group
Kjolhaugen Group
Hummelfjell Group
Slagan Group
Intermediate Intrusive Rocks
Mafic Intrusive Rocks
Historical Development
Target Area
Project: Røros Zinc-project
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Meråker SE Claims and Target Areas
Approved: BR
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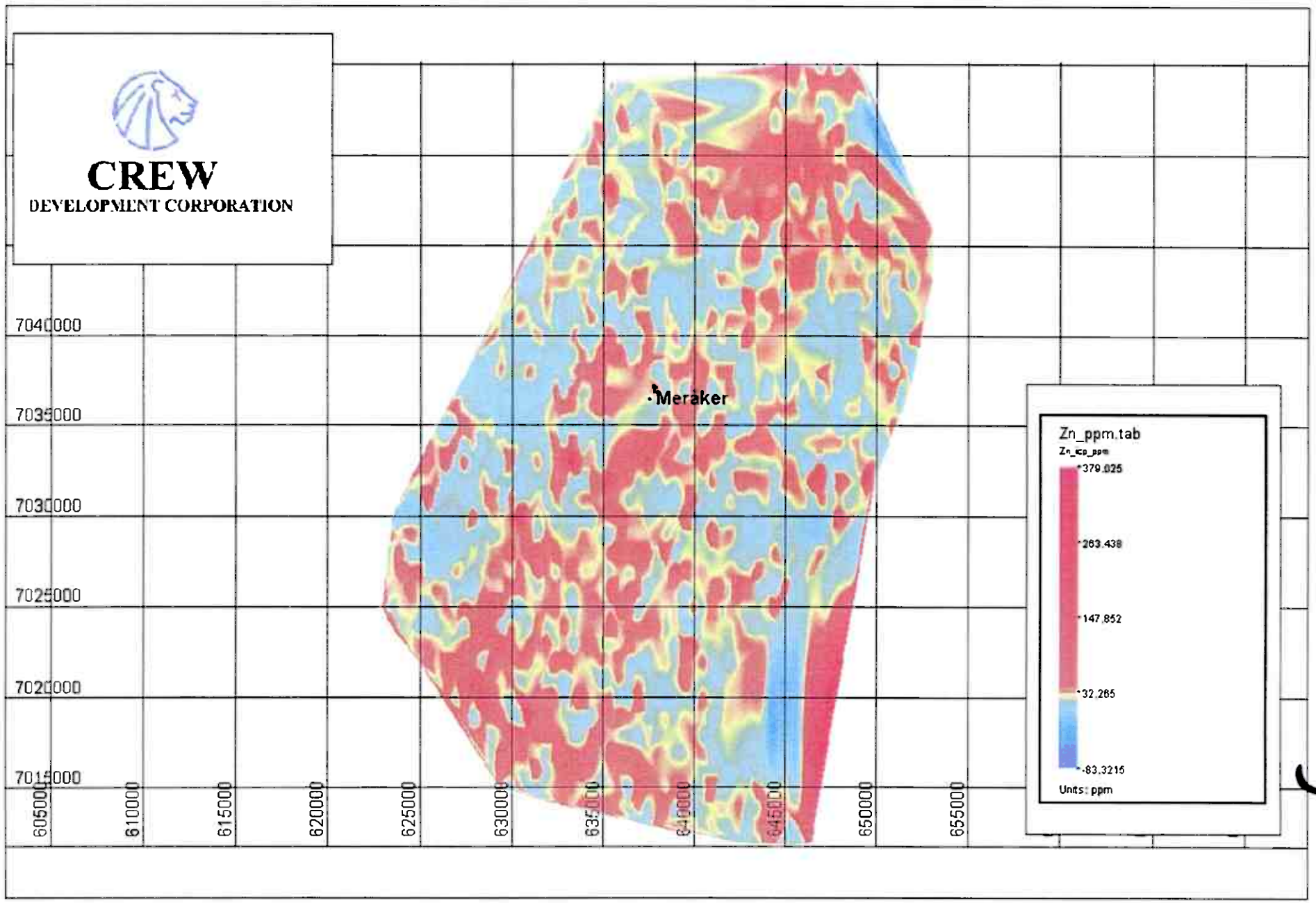
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Zn_ppm.tab
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379.025
263.438
147.852
32.265
-83.3215
Units: ppm

Fig 4

During the Caledonian Orogen in Silurian times, this lateral facies-transition piled up into a series of major nappe sheets, which roughly placed the various lithofacies on top of each other.

The Lowermost nappe sequence consists of a thick succession of epiclastic sediments (sparagmites) and augen gneisses. Overlying these Eocambrian rocks is the *Slågan Group* (correlated with the Hummelfjell Formation in the Røros district), which includes a generally sedimentary sequence of quartzites, quartz mica schists, and graphite schists, with minor associated mafic tuffs.

The Slågan Group is overlain by the *Kjølhaug Group*, correlated with the Røros Formation in the Røros district, consisting of a thick sequence of calcareous, grey to greenish phyllite and greywacke, which is heavily invaded by pre-metamorphic gabbro sills.

Overlying the Kjølhaug Group / Røros Formation is the *Sulåmo Group*, correlated with the Dalsbygda Group in the Røros district, which consists of phyllites, metasandstone, marble, conglomerate, and three greenstone units.

The *Fundsjø Group*, which is the northern continuation of the Hersjø Formation, is the next in succession, and consists mainly of basic volcanogenic rocks (greenstones and greenschists) with minor horizons of acidic volcanic tuffs and flows.

The *Gula Group* (Gula Nappe), which caps the whole greenstone belt, includes a large succession of sediments, with minor thin beds of mafic volcanics (amphibolites). The Gula Group has been considered to represent the oldest, assumed Late Precambrian / Cambrian member of the partly inverted stratigraphical succession, pre-dating the volcanogene Fundsjø Group of probable Lower Ordovician age.

It is possible, although not proven, that the rocks of the Gula Group have been overturned, and belong to a large recumbent nappe with roots far to the west; and thus the Slågan Group and the Hummelfjell Formation represent the youngest members of the supposed inverted succession.

The interpretation of the area has been challenged by work recently started in the Otta area (SW of Røros). Papers by Sturt et al. (1991 and 1995) and Bjerkgård & Bjørlykke (1994) suggest a major reinterpretation of the stratigraphy of the whole area. Rather than forming part of an isolated nappe, the Hummelfjell unit is now correlated with the Heidal series of the Otta area, and both are regarded as equivalents of the lower parts of the Gula Group. The rocks outcropping between the Gula and the Hummelfjell are considered metasediments of Ordovician age. The Dalsbygda, Fundsjø and Aursund groups plus the upper Åsli Formation (Gula Group) are now grouped together into the Sel Group. This is a single package of Ordovician sediments and volcanics, lying in the core of a major fold structure of Scandian age. The three thrust planes lying between the Gula and the Hummelfjell units are not recognized. The tectono-stratigraphy of the area thereby is greatly simplified.

Most of the rocks in the area are metamorphosed in greenschist facies. In Meråker the metamorphic grade increases from SE to NW. Contact metamorphic rocks surrounding gabbro intrusives include hornfelses as well as cordierite- and andalucite-bearing rocks.

The structural geology and deformation history is treated separately in a report by Witt-Nilsson (1998).

Local Geology.
All the known sulfide occurrences in the Meråker Østgruvefelt occur in the Kjølhaug Group and in the Turifoss Greenstone of the Sulåmo Group.

The Kjølhaug Group comprise of a thick sequence of grey-green phyllites, phyllitic greywackes, greywackes, and conglomerates. The sediments are generally banded in cm- to dm-scale, with alternating greywacke and schist bands. Quartz bands concordant with the bedding are common. Major minerals in the greywacke-dominated metasediments are quartz and feldspar, with varying and subordinate amounts of chlorite, muscovite, biotite, sphene and various opaque minerals. Carbonate occurs occasionally as cement in the greywacke, but is less abundant in the Kjølhaug Group than in the correlated Røros Formation to the south. Gabbro sills of variable sizes frequently intrude the sediments. In the south numerous small bodies have intruded, and extensive, concordant sills to the north.

The contact between the Kjølhaug Group and the Sulåmo Group is tectonic, while the contact between the Kjølhaug and Slågan groups is gradational, probably of primary depositional character.

The Sulåmo Group is mainly a metasedimentary succession, containing three greenstone units. Its basis is defined by a 10 m thick conglomerate, whose matrix and pebbles are derived from the lithologically underlying (structurally overlying) volcanic rocks of the Fundsjø Group, indicative of a general inversion. Over (lithologically) the conglomerate follows a thick phyllitic unit, named the *Meråker Phyllite* (Wolff 1973). Graphite occurs in variable, occasionally in significant amounts, leading to blackschist.

Overlying the Meråker Phyllite is a heterogeneous greywacke unit, the Brenna Formation, followed by the *Turifoss Greenstone* at the contact to the Kjølhaug Group. The Turifoss Greenstone has depositional contact to the Brenna Formation, and strongly deformed, mylonitic contact to the Kjølhaug Group. The greenstone unit is about 1000 m thick and can be followed over 25 km length.

The stratigraphically lower part of the greenstone unit is developed as pillow lava, and the upper part is greenschist, probably tuffs or tuffites (Birkeland et al. 1996).

The finegrained Turifoss Greenstone consists of hornblende and/or actinolite, epidote, feldspar, chlorite, calcite and quartz as major minerals, and has a tholeitic, ocean ridge affinity.

Ore deposits. How do they occur, and where to look for new ones?
Characteristic for the Kjølhaug Group is that it contains numerous small, polymetallic sulfide mineralizations, the most significant being the Lillefjell mine (97), has produced in excess of 100 000 tons of Cu-Zn ore. The occurrences contain variable amounts of Po, Cpy, Sl and Py, and are occasionally very Cu and/or Zn-rich. Only the Lillefjell deposit has a well-developed wallrock alteration, the other mineralizations are characterized by very limited chloritization and in some cases by silicification and sericitization.

With few exceptions (eg the Gilså deposit (101), which could be a mud-flow type mineralization) they are spatially associated with gabbros. It is not yet understod what is the gabbro bodies role in the formation of the ore bodies. The mineralizations occur invariable structurally below the gabbros, that means stratigraphically above in the inverted succession. One possible interpretation is that the gabbro magma has acted as a heat source in a convection cell, running the hydrothermal solutions, resulting in both exhalative sulfide depositions and their related feeder zones. One would the expect Zn-rich portions to be deposited distally away from the heat source. Although this scenario has not general applicability, it is indicated in some of the deposits, eg. at Anna (93) and Duddu (95), with Cu-pyrrhotitic feeder zone type mineralization proximal to the gabbro, and banded Zn-rich mineralization distally.

The gabbro bodies might have influenced the emplacement and morphology of the sulfide occurrences by deformation. During deformation the gabbros have acted as competent bodies in the sedimentary succession, creating low-pressure zones in areas of local tension, creating loci for migrating remobilized sulfides. This is in accordance with field observations: the sulfides are strongly deformed and frequently occur in zones of deformation at the contact to gabbro.

The gabbro bodies in the southern part of the area are frequently exposed in small hills, while the surrounding sediments are covered, and potential mineralizations away from the gabbros have subsequently been hard to detect for the early prospectors. It is however experienced that a very Zn-rich mineralization (0.5 m thick) is hosted in the sediments away from gabbro east of Husmannsberget. This mineralization gave no geophysical signature, and was accidentally exposed because of a tree fall. This demonstrates the importance of geochemical screening in combination with geophysics. For instance, the area south of Husmannsberget towards the Lillefjell deposit is heavily covered by swamp, and consequently no mineralizations are registered in this area.

Independent of the genetic model favored, priority should be to focus on the earlier mentioned extensive (several km long) gabbro sills occurring centrally and to the north in the Østgruvefelt. This could lead to discoveries of potentially larger deposits, even though no sulfide occurrences are so far registered associated to these extensive sills. In the Røros Mining Field to the south, the major deposits (eg. Kongens and Storwartz) are associated with significant gabbro sills.

The sulfide mineralizations in the Turifoss Greenstone (Sulåmo Group) are volcanogenic, stratabound and stratiform hydrothermal / exhalative deposits. Sagskjerpet prospect (88) is a 1 m thick massive, banded Py-Sl-Cpy mineralization. One channel sample assays 1.0 % Zn and 0.5 % Cu. The sulfide-impregnated hangingwall greenschist is enriched in Cu and Au compared to the stratiform mineralization. Like Sagskjerpet, the Geitberget prospect (82) to the north is a massive, banded pyrite mineralization. It is Zn-rich; samples assay about 20 % Zn and 0.5 % Cu. While these mineralizations are considered exhalative depositions, the Stadåsen prospect (81) just north of Geitberget resembles a feeder / stringer zone. The mineralizations at Geitberget and Stadåsen are emplaced at the transition between pillow lava and tuff.

No sulfide deposits are known to occur in the sediments of the Sulåmo Group in the Meråker area, except sulfide-disseminated, graphitic horizons in the Meråker Phyllite. In

the Røros area however, phyllite of the Dalsbygda Group (correlated with the Sulåmo Group) host sulfide deposits, eg. the Hesjedal, Rognså and Storvold mines, which produced copper ore periodically between 1750 and 1918.

Two places in the Meråker Phyllite horizons of magnetite-quartzite with Mn-rich garnets and subordinate Po, Cpy and graphite are found. Samples assay up to 0.24 % Cu, 0.23 % As and 1.01 % Mn. This could be distal exhalites associated with base metal deposits.

1998 Exploration Campaign.
In 1998 Mindex ASA (which in December 1999 merged with Crew Development Corporation) carried out an exploration campaign in the whole Røros-Meråker region (Wilberg & Røsholt 1998). All mines and claims were visited, described and sampled. Grab samples of representative ore types were collected and analyzed for 34 elements, and a database for all visited locations has been made. The table, enclosure no 1, exhibits results of the selected elements Au, Ag, Cu, Pb, Zn, As and Fe.

2000 and 2001 Reconnaissance survey.
Crew / Noranda conducted autumn 2000 reconnaissance geology and prospecting, and sediment sampling at targets outlined by the airborne survey in 1991 (Wilberg, September and November 2000, enclosure no 2). Additional DOB sampling was conducted over target no

Target 86. Husmannsberget. UTM area: 37100-37800E/7022600-7024400N.
The target comprises of claims 93 Anna, 94 Gøsta, 95 Duddu and 96 Ebba. See fig 3. The reprocessing of the Meråker dataset shows a continuous weak conductive trend extending from the Duddu showing northwards to east of the Gøsta occurrence and then stopping east of the **Anna** showing. The historical showings **Anna, Duddu and Ebba** responds to the airborne geophysics, while the small Gøsta showing and the Anna Zn-rich showing show no response. These latter two seem to occur in more or less same structural level, with Py-disseminated greywacke exposed between them. **The most interesting trend, which demands follow-up, is a buried conductor approx 100 m east of the known gabbro-contact-related showings (fig. 5).**

In the cases where mineralization has been found at some distance from the gabbros (the sediments are rarely exposed, contrary to the elevated gabbro bodies), like at the Anna Zn-showing and at the Duddu adit, they seem to be more Zn-rich than the Cu-dominated mineralizations along the gabbro-contact. This could mean that the Cu-pyrrhotitic, often brecciated mineralizations rooted along the gabbro contacts represent feeder zones to more distal exhalative, Zn-rich, banded pyritic mineralizations. Both ore types occur at Anna and Duddu, with this spatial relation to gabbro. This model favors the buried conductor, which is believed to be hosted in sediments in some distance from known gabbro.

Two soil sample profiles show that this conductor has coinciding Zn(-Cu) geochemical anomaly. Poisoned drainage is also positive indicator related to this conductor.

Husmannsberget, fig. 5 Target 86

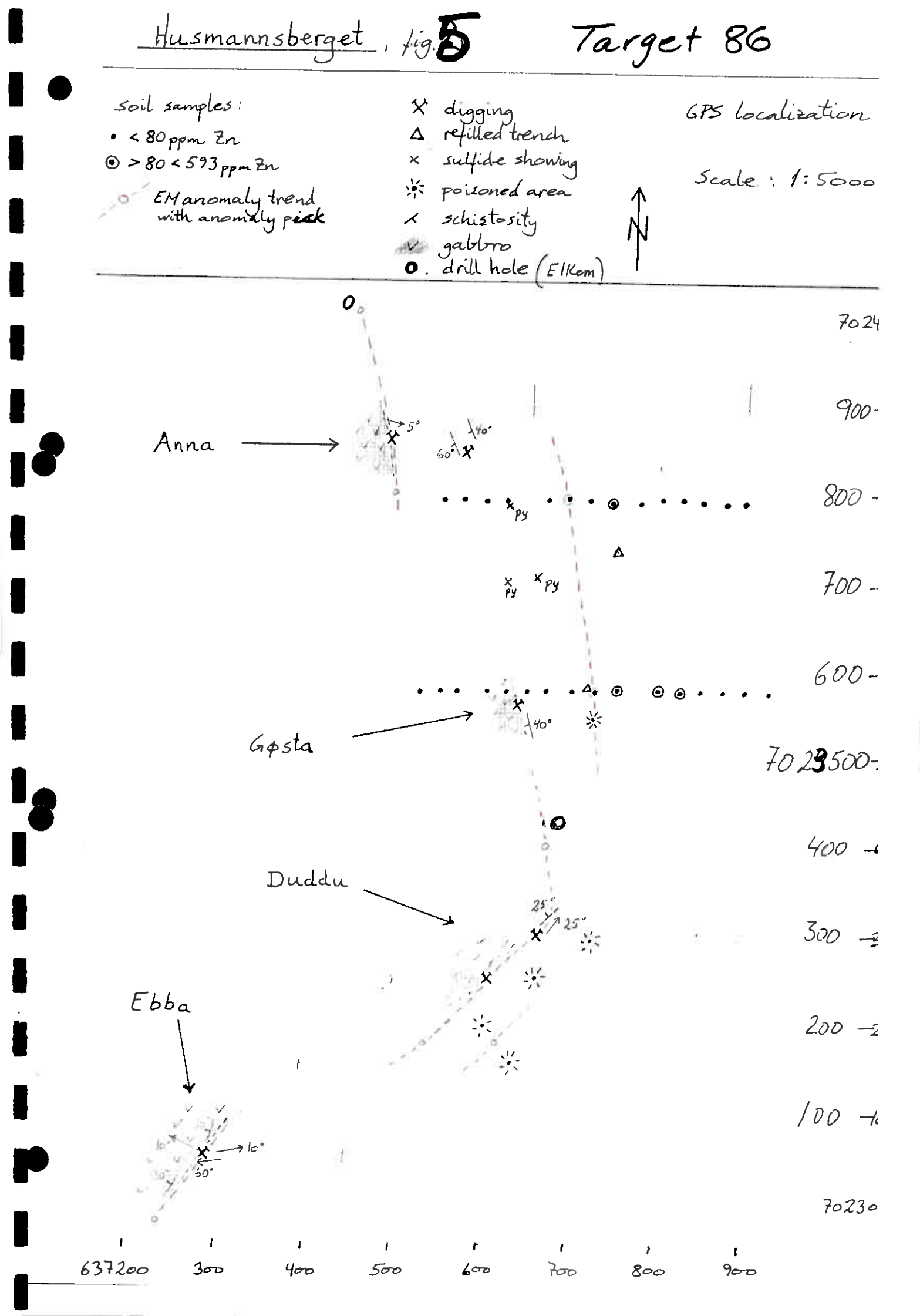
soil samples:
- • < 80 ppm Zn
- ⊙ > 80 < 593 ppm Zn

EM anomaly trend with anomaly pick

- digging
- △ refilled trench
- × sulfide showing
- poisoned area
- schistosity
- gabbro
- drill hole (ElKem)

GPS localization

Scale : 1:5000



2001:
Earlier work in this area was treated in Mindex rep. of 1998 and Crew reps. of 2000. See encl no 1 and 2.
This summer's work included one VLF profile, mag survey, and prospecting. See fig no 6 and 7.
The Berget digging (637998 7023892) exposes a layer of massive sphalerite with occasional py, cpy and ga (sample 399508) embedded in kinkfolded chlorite – muscovite schist. The thickness is variable due to folding (≈ 8 cm). Schistosity (variable): 198°/45°. The mineralization occur along the footwall of a gabbro, which is exposed at the south end of the ridge, at 637997 7023815.
The mag trend through 673486 7023583, where it is a small digging, can be explained by po (– cpy) – diss. in finegrained gabbro (399510), which is schisty, with chloritization and quartzveining. This, probably shearzone – related mineralization, occur close to the footwall – contact of the gabbro.
Just below the same mag anomaly, at 637663 7023402, is exposed rusty quartz – feldspar – mica schist with py (– cpy) – diss. (399509).
Assay results for rock samples, see enclosure no 4.

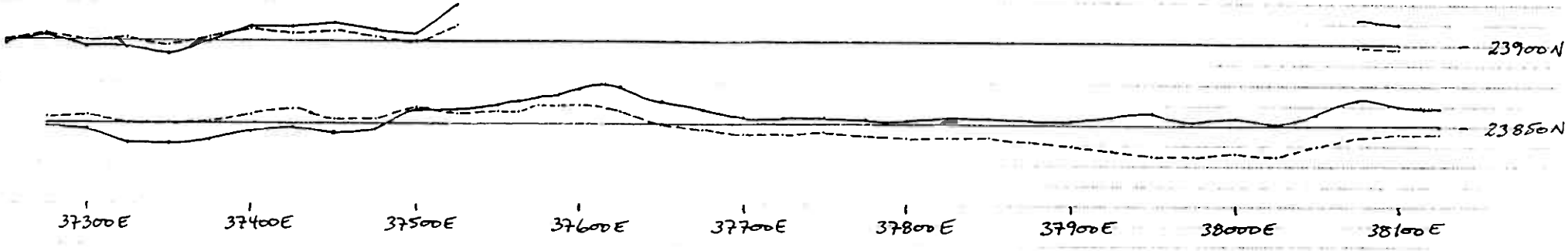
ELKEM conducted geophysical measurements and drilled 10 holes (Dh 4 (vertical) was located at 637446 7024016) in 1966 – 71 (resume in Crew rep. of 2000, enclosure no 3). The drilling defined a thick succession of Zn – Cu – impregnated sediments. Typical for all the drill sections is a disseminated, large volume and low-grade Zn-Cu mineralization. The thick sections of disseminated low-grade mineralizations may indicate that the drilled portions have a distal location, and that more massive type of ore may be found down dip or along strike.
The following five holes are stored at NGU, Løkken:

Hole no.	1	22mm diam.	Tot length:	10m	Stored: 10m
"	2	"	"	110m	" 110m
"	7	"	"	120m	" 120m
"	8	"	"	50m	" 50m
"	10	"	"	30m	" 20m

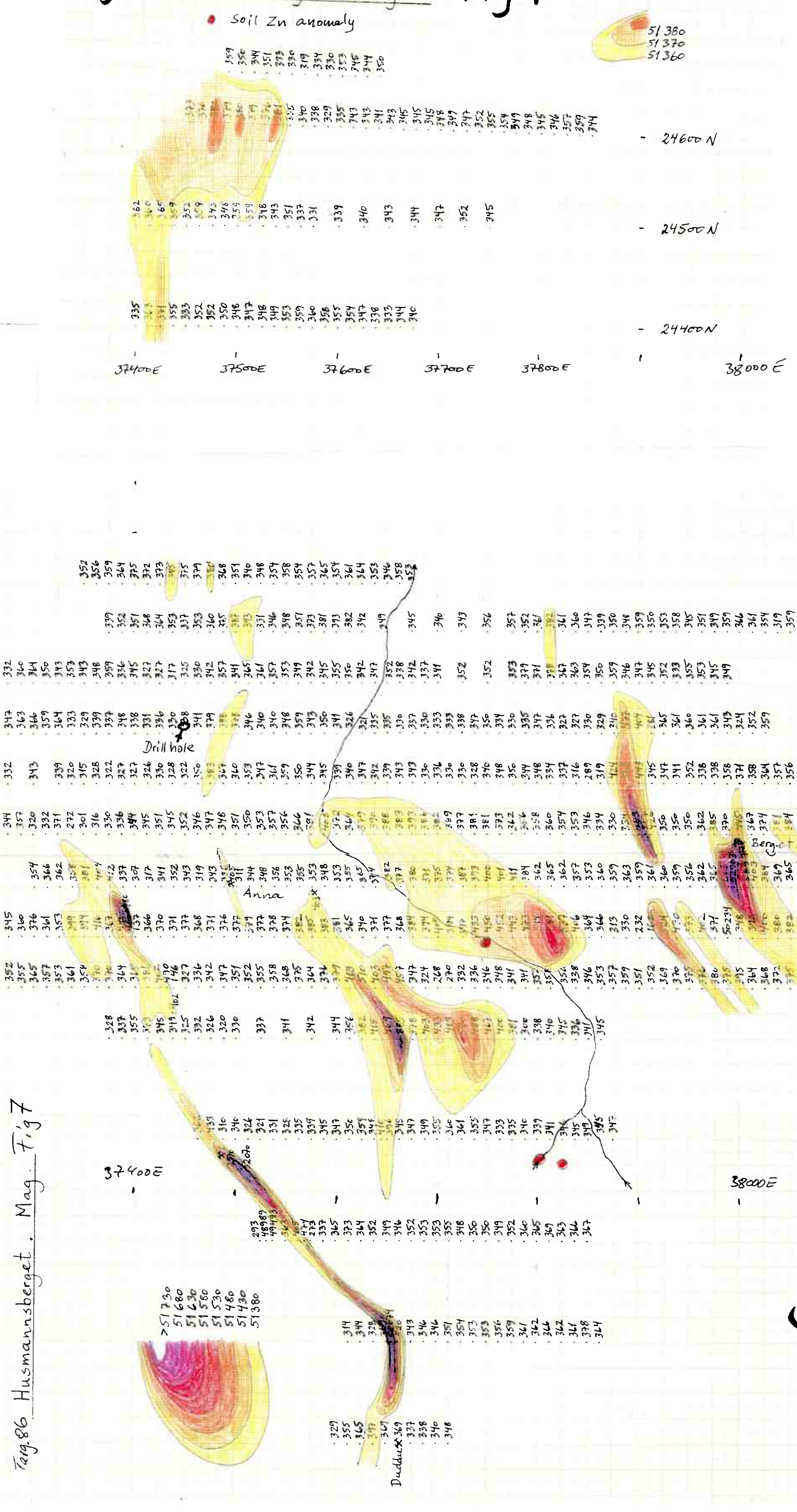
The operator of the drilling program was Skorovass Gruber.
Another drillhole, 200m, also stored at NGU, Løkken, has been drilled in combination of an engineering study of a hydropower water transfer tunnel. Since rich sphalerite samples are found at dumps most likely from the said tunnel. See below under target no 87, Fossvatnet, the collar of this hole should be located and the cores should be logged.

Væråsvollen. (Husmannsberget)
Væråsvollen is located 2,5 km NE of Husmannsberget area.
A digging, minor blasting in an east facing low cliff, was found at 639190 7024874. As a rule in this area, the mineralization is embedded along the footwall of a gabbro lens. An at least 40 cm thick rusty chlorite (minor muscovite) schist with cpy – py – sl (– po) – diss. (sample 399506) is followed over 10 m length. Schistosity: 186°/55°. Dump samples show chlorite schist with 1 – 3 cm thick diss.- to semimassive band of sl and cpy (399507).

Target 86. Husmannsberget. VLF (TxZ) facing W ← Fig no 6



Target 86 Husmannsberget N. Mag. Fig 7.



Targ 86 Husmannsberget. Mag. Fig 7

At 639158 7024773 appears a tiny digging in possibly the same rustzone, here with very weak sulfide – diss. Assay results for rock samples, see enclosure no 4.

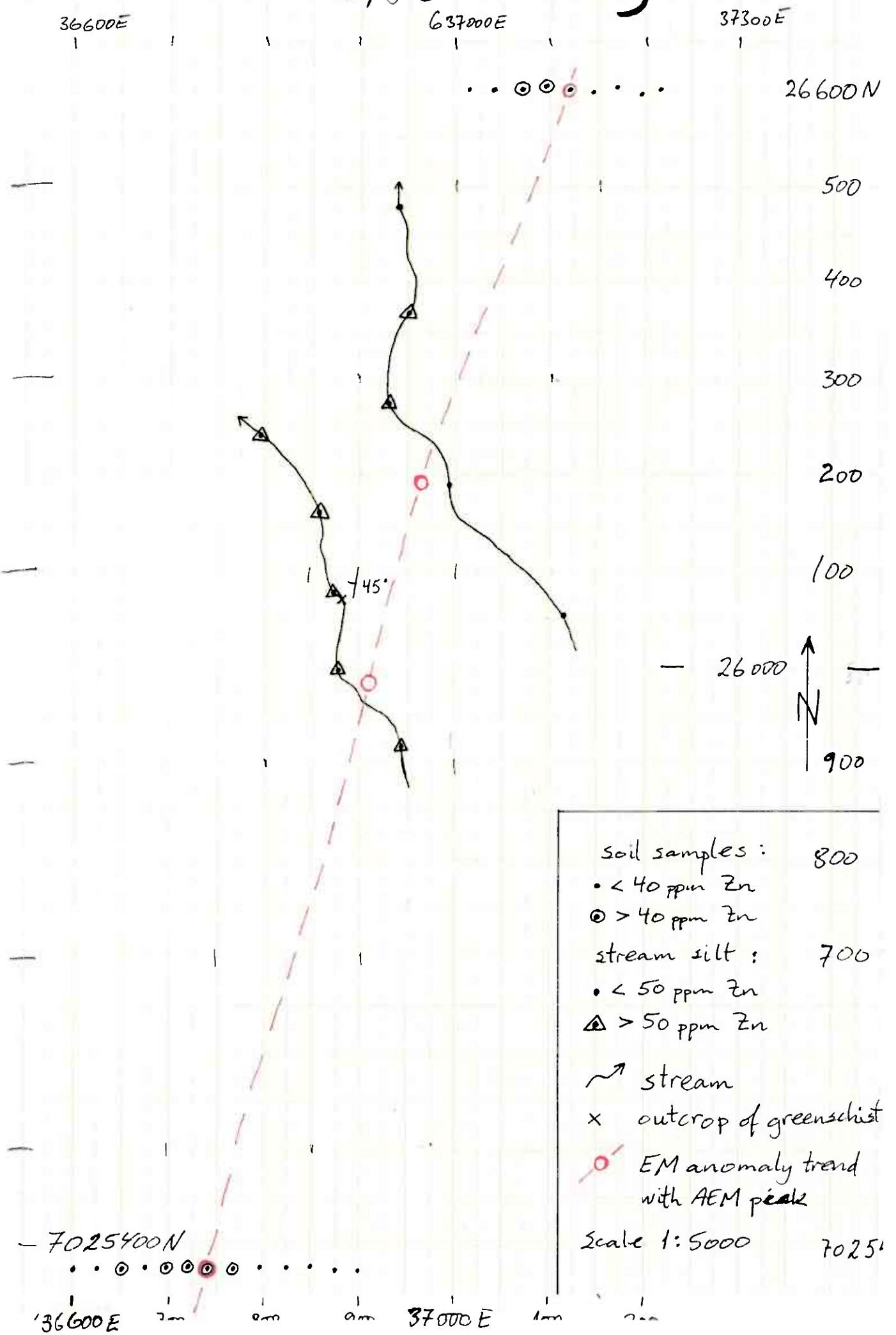
In 2000 an auger sampling was conducted at Husmannsberget with 30 samples. See enclosure no 5, Results auger samples AN 01-30 ppl and 4, Meråker 2000. Three samples were anomalous, (AN 03, 17 and 18), and the highest, AN 17, runs 593 ppm Zn. Anomalies are plotted at fig 5 and 7, and shows that it is no correlation with the mag picture and geochemistry. Target no 87; Fossvatnet is located about 2 km NNE of Husmannsberget target. At Fossvatnet, (see below), a DOB survey was conducted in 2001, collecting some 40 samples. The overburden varied from 0,7 to 7,1m averaging 3,4m. Of the 40 samples, there are as many as 24 returned anomalous contents of Zn (104-927ppm Zn). It is assumed that the overburden will be about the same at Husmannsberget as at Fossvatnet and that it will be necessary also to perform a DOB sampling program at Husmannsberget to obtain a proper answer to the Zn distribution in the soil.

Follow up.
The EM trend in the target area corresponds to some of the known claims except for the most Zn-rich claims. It is therefore important to follow up the target with both VLF and DOB sampling as well as re-positioning and re-logging of the drillholes and trenches from the area.
The old drillholes and trenches should be controlled versus the anomaly picture from the DOB and VLF survey.
It is important that "the buried EM-anomaly" in the NE of the area is properly followed up.
It is estimated that the VLF survey would be around 3 pkm and that around 60 DOB samples are collected. Further, it is estimated a four day follow up on re-logging and correct location of the old drill holes and trenches.

Target 87. Fossvatnet. UTM area: 636600-639000E/7024400-7028400N.
The target comprises of claims 88 Sagskjerpet, 89 Brenthaugvollen, 90 Langsundgruva, 91 Nordre Knoll and 92 Søndre Knoll. See fig 3.
A conductive trend extends southwards from lake Fossvatnet, at about the same level as the Sagskjerpet mineralization (fig.3). The conductor is outlined by ground geophysics (VLF, Mag and HLEM) by the Geological Survey of Norway in 1992 (NGU rep. no 93.001). Similar to the Sagskjerpet mineralization to the north, this anomaly consists of two parallel conductors. NGU`s conclusion: "Probably, this represents a covered Sagskjerp-type mineralization". The conductor is heavily covered, and soil samples (B horizon) are collected along two profiles, and stream silt samples are collected from two streams crossing the conductor. See fig no 8 and enclosure no 5 ppl-2 and 4-5, and enclosure no 6 SSF 01-10. Auger soil samples were also collected. The sediment assays were low, some samples returned slightly elevated Zn- and Cu-contents coinciding with the conductor. Since the reconnaissance sampling gave some indication of mineralization, systematic deep overburden sampling was collected in 2001. See below.

Fossvatnet south, fig. 8

Target 87



Massive Sl-Cpy mineralization, assaying 12.3 % Zn and 2.3 % Cu, was detected in a dump extracted from a hydropower shaft at the south shore of lake Fossvatnet, NE of the above-mentioned conductor. Also note the un-located drill hole above under target no 86.

Fossvatnet S. 2001:
This conductor is treated in Mindex rep. of 2000. See enclosure no 2, pp 2. The 2001 mag and VLF measurements verifies earlier surveys. See fig no 9 and 10. This winters DOB sampling (6 profiles) show Zn anomalies associated with the conductor(s), and enhanced Cu in the northern part. Fig no 11 and enclosure no7 pp 2-3 and 5-6 exhibit a strong Zn anomaly trend open in both ends striking NNE-SSW. The length of the anomaly is 1200m, and it is located about 100m east of the VLF and mag anomalies.
The mag survey indicated an anomaly at 637500 7026300, which was soil sampled in July 2001 with 7 auger soil samples, AB037-AB043. No anomalies. See enclosure no 8. Fig 12 is a copy of the helicopter EM survey by NGU (Geological Survey of Norway) from 1991 over the Fossvatnet area. It can be seen that the strike of the anomaly is about 2,5 km, and that it also may extend northwards to the peak anomaly around 37,8E/28,6N about one km north of Fossvatnet.

Follow up.
Fossvatnet, target no 87 is to a certain level well covered with DOB and ground geophysics. Some additional follow up is still proposed:
The separate mag anomaly at 637500E/7026300N should be covered with three DOB profiles 637400-637550 at 26200, 26300 and 26400N, (15 samples). Further four DOB sampling profiles to sample the Fossvatnet anomaly to the north and to the south, spacing about 150m between each profile, (35 samples).
VLF survey should be conducted in 36800-27200E at profile 26100, 26400, 26500 and 26600N and also in 36700-37100E at profile 25600 and 25700N. (2,8pkm VLF).

Target 88. Gåsvollfjellet. UTM area: 636500-638000E/7016000-7017500N.
Four separate AEM conductors at Gåsvollfjellet – Gåstjønna are prospected. They are all hosted in the Meråker Phyllite in the Sulåmo Group, related to graphitic horizons with weak Py-Po dissemination. See enclosure no 2 pp 3.

Gåsvollfjellet anomaly is located about 2 km NW of Litlfjellet Gruve in metasandstone in the Brenna formation and grey to black phyllite both in the Sulåmo group.
Sample no 400093 at UTM 0637207-7016139 is from a thrust zone stiking 149^0 and dipping about 30^0 to the SW. The sample collected from the thrust zone with Py, some graphitic schist, Po and traces of Cpy is located about 250m W of the AEM anomaly. Along the thrust zone, which can be followed for about one km, gossanous floats and "barren" areas with possible heavy metal natural pollution is occurring. Several parallel thrust zones may occur.
Sample no 400094 at UTM 0637218-7016570 is a sharp edged (local) boulder at about 100kg with Cpy, Sl(?), TiO_2(?). An ore zone 10-15cm thick (almost massive sulphide) occur as a band parallel to the foliation of the boulder. The rock is a tuffitic rock. Another flat rusty angular 1t boulder with some graphite is located about 60m to the W.

Target 87 Fossvatnet S. Mag Fig no 9.

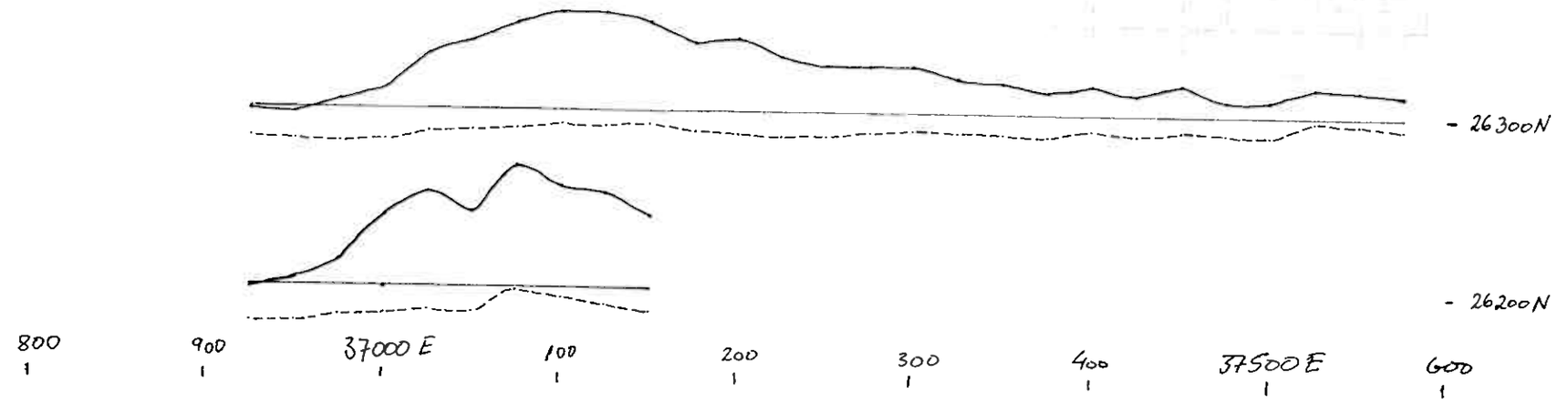
Fossvatnet Target 87.

Fig 9

Fig 9

Target 87 Fossvatnet S. VLF (GYD) ← facing W

Fig no 10



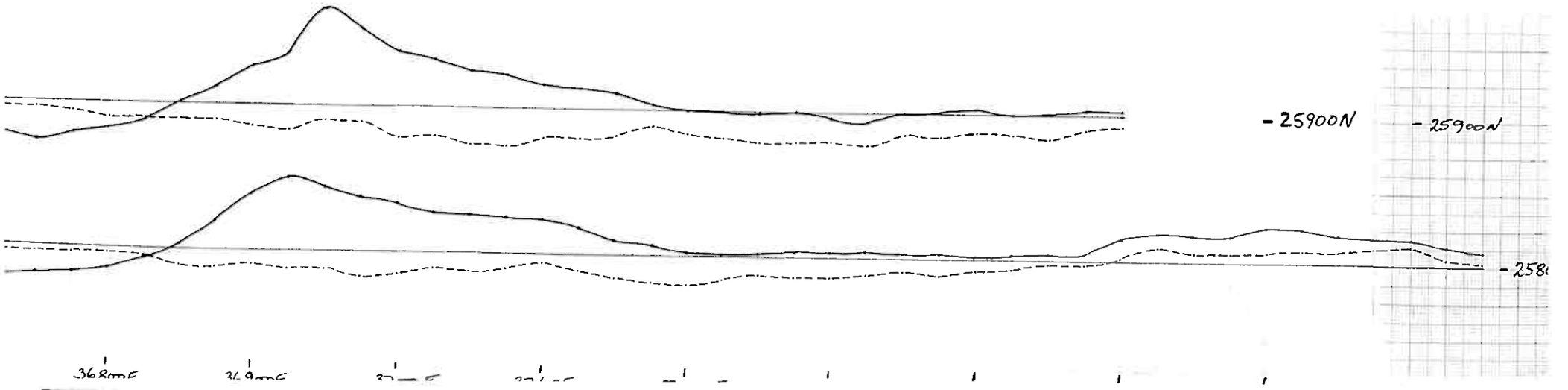
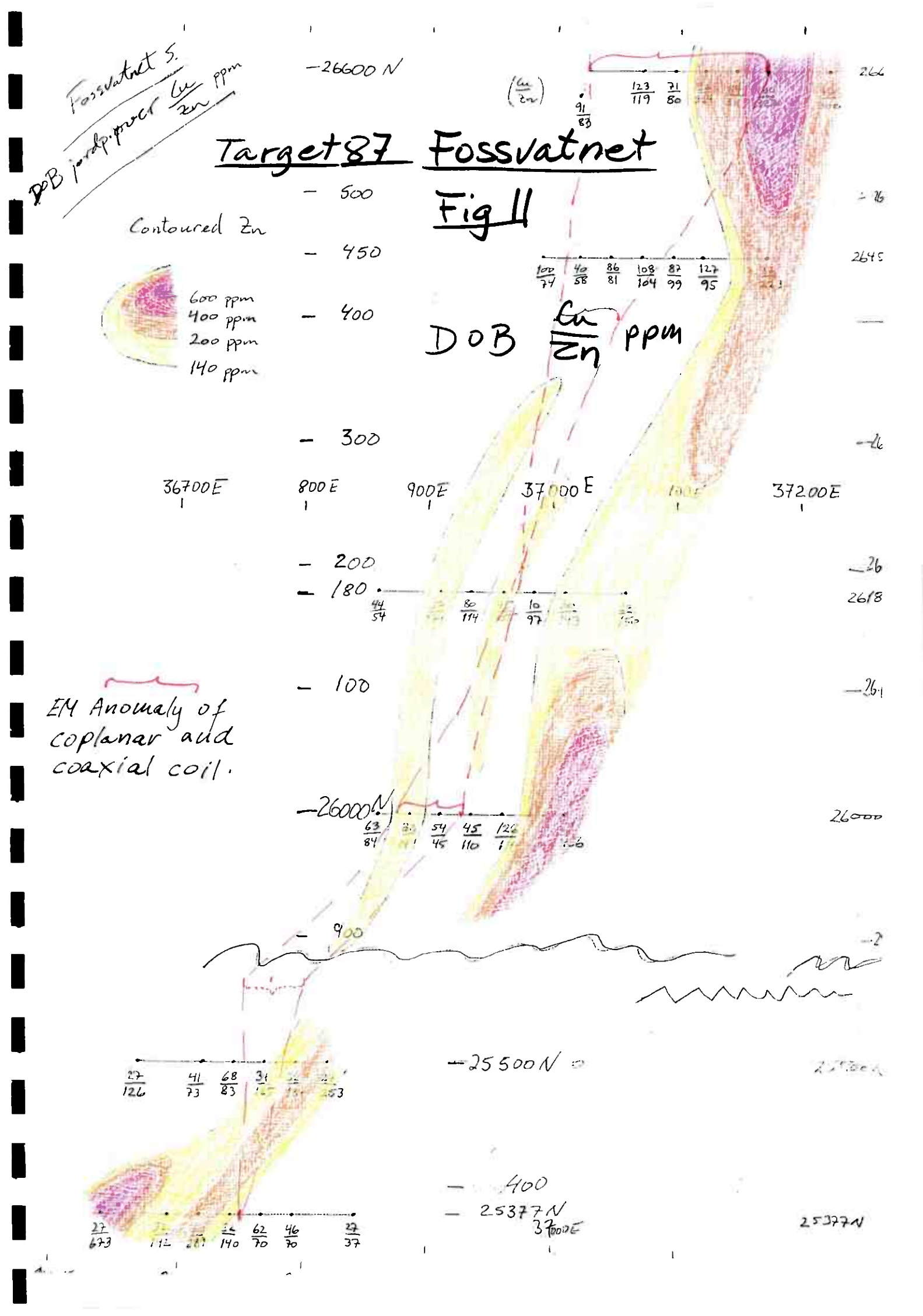


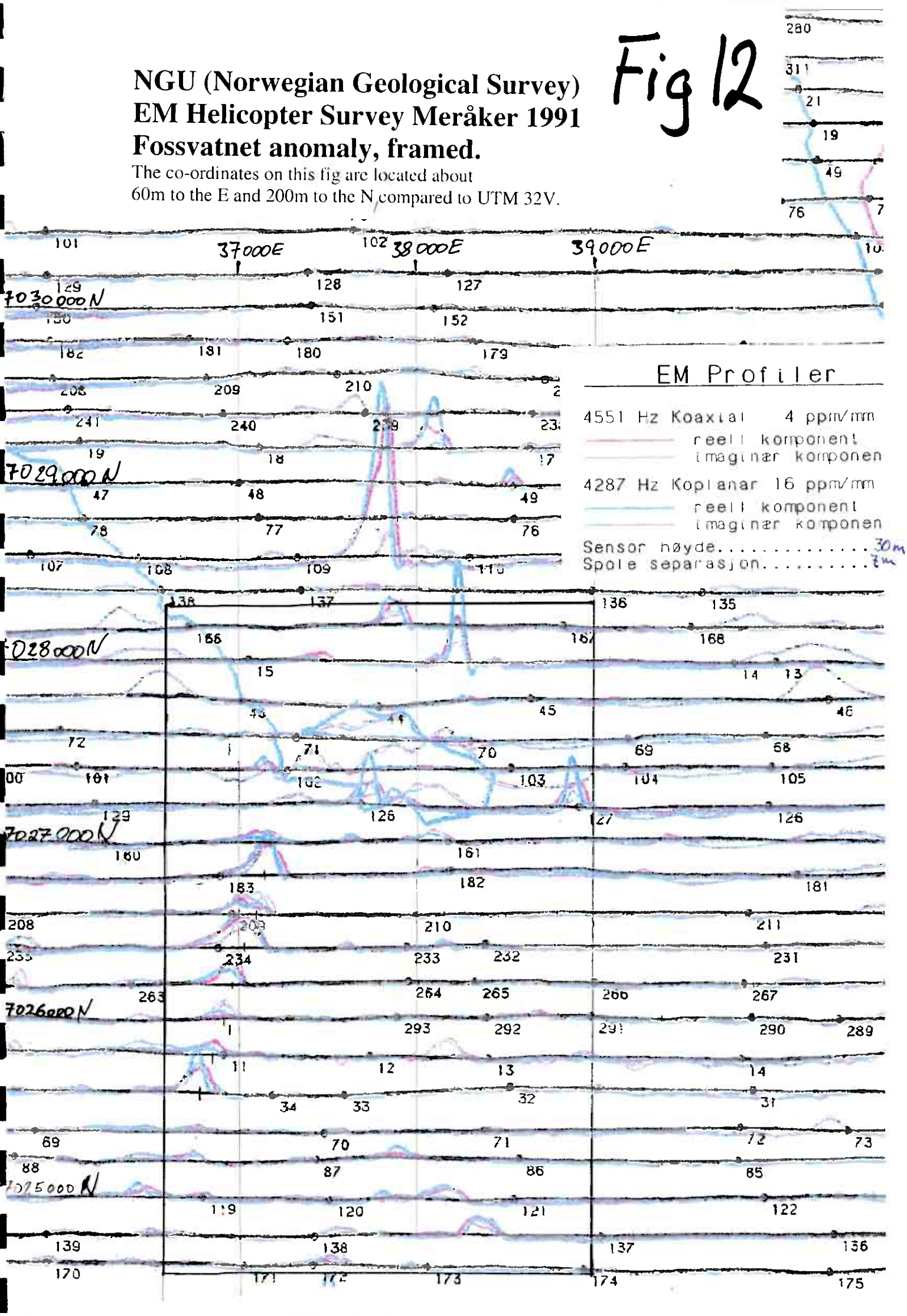
Fig 10


Fossvatnet S.
DoB in dip-proved Cu/Zn ppm
Target 87 Fossvatnet
Fig II
Contoured Zn
600 ppm
400 ppm
200 ppm
140 ppm
DoB Cu/Zn ppm
EM Anomaly of coplanar and coaxial coil.
26600 N
26000 N
25500 N
25377 N
36700 E
800 E
900 E
37000 E
37200 E
500
450
400
300
200
180
100
400
123/119
71/80
91/83
100/77
40/58
86/81
108/104
87/99
127/95
44/54
80/114
10/97
63/84
54/45
45/110
27/126
41/73
68/83
27/673
62/70
46/70
27/37

NGU (Norwegian Geological Survey)
EM Helicopter Survey Meråker 1991
Fossvatnet anomaly, framed.

Fig 12

The co-ordinates on this fig are located about
60m to the E and 200m to the N compared to UTM 32V.



occur as a band parallel to the foliation of the boulder. The rock is a tuffitic rock. Another flat rusty angular 1t boulder with some graphite is located about 60m to the W.
Sample no 400095 at UTM 0637073-7016919 is a very large boulder or most likely an outcrop of a tuffacious rock with disseminated Cpy.
Location at UTM 0637073-7016753 is from the same "ore level" as sample 400094. Abundant sulphides including Cpy and graphite. The center of the AEM anomaly is UTM 0637200-7017000.

Element	Au30	Ag	Cu	Pb	Zn
Units	Ppb	Ppm	ppm	ppm	ppm
LRL	5	0.2	1	2	1
URL	10000	200	10000	10000	10000
400093	<5	<0.2	114	9	138
400094	54	1.6	6826	9	24500
400095	<5	0.5	1202	4	810

The local boulder, sample no 400094 returned a content at 2,5% Zn, 0,7% Cu and 54ppb Au. No more follow up work is recommended in this area.

Target 89. Svartåtjern. (Husmannsberget Area).
Svartåtjern claim is located at UTM 0637800E/7019040N, and prospecting has beeen carried out in its vicinity. See enclosure no 2 pp 3.
No further work is recommended.

Target 90. Gåstjønna North-west. UTM area: 634000-635000E/7020500-7021500N.
Gåstjønna North-West is located in "Meråker phyllite" in Sulåmo Group. Graphite has not been detected, but it is assumed that graphite has caused the EM anomaly. The area has been prospected and a number of nine auger soil samples has been collected. See enclosure no 2 pp 4 and enclosure no 5 pp 2 and 5. No geochemical anomalies are detected.
No further work is recommended.

Estimated cost of proposed follow up work:

Husmannsberget, target no 86:			
VLF survey 3pkm	2 days	NOK 4000/day	NOK 8000
DOB sampling	5 days	" "	" 20000
Loc and relog of DDH	4 days	" "	" 16000
Fossvatnet, target no 87:			
VLF survey 3pkm	2 days	NOK 4000/day	NOK 8000
DOB sampling	5 days	" "	" 20000
Assays			" 15000
Shipm, field transp, travel			" 10000
Housing, allowances			" 16000
Total			" **113000**

Below is a reference list of some relevant literature to the district.

References: Røros-Meråker district

Aasgaard, G., 1927, Gruber og Skjerp i kisdraget Øvre Guldal - Tydal: Norges Geol. Unders. Bull., v. 129, p. 1 - 196.

Aasly, K. 2000, Project work. A geochemical and mineralogical characterization of drillcores from "Nordgruvefeltet" in the Røros Sulphide ore district.

Beard, L. 1999, data aquisition and processing - Helicopter geophysical survey, Røros 1999.

Birkeland, A., Solli, A., Øyvik, M., Sandstad, J.S., Grenne, T. & Erichsen, E. 1996: Malmgeologiske undersøkelser i det østlige Meråkerfelt, Nord-Trøndelag. NGU rep. no. 96.041.

Birkeland, A., 1986, Mineralogiske og geokjemiske undersøkelser av Killingdal gruver, Sør - Trøndelag., Department of Geology, University of Oslo, p. 166.

Birkeland, A., 1996, Malmgeologiske undersøkelser i det østlige Meråkerfelt, Nord - Trøndelag, Norges. Geol. Unders., p. 52.

Birkeland, T. & O. Nilsen 1972, Contact metamorphism associated with gabbros in the Trondheim region. Nor. Geol. Unders. 273, 13-22.

Bjerkgård, T. B., A.., 1994, Geology of the Folldal area, southern Trondheim Region Caledonides, Norway: Norges Geol. Unders. Bull., v. 426, p. 53-76.

Bjerkgård, T. B., A., 1994, The stratabound sulfide deposits in the Folldal area, Southern Trondheim region, Norway: Norsk Geol. Tidskr., v. 74, p. 213-237.

Bjerkgård, T. B., A., 1996, Sulfide Deposits in Folldal, Southern Trondheim Region Caledonides, Norway: Source of Metals and Wall-Rock Alterations Related to Host Rocks.: Econ. Geol., v. 91, p. 676-696.

Bjørlykke, 1993, Lead isotope systematics of Strata-bound sulphide deposits in the Caledonides of Norway.: Econ. Geol., v. 88,, p. 397-417.

Bjørlykke, A. e. a., 1980, A review of Caledonian Stratabound Sulphide deposits in Norway: Geol. Surv. Irl., v. Special Paper no5, p. 29-46.

Bjørlykke, A. S., D.F., 1992, Pb-Zn in Nordland - An evaluation of its potential and recommendations for further work.: Trondheim, Norges Geologiske Undersøkelse.

Brækken, H. 1955 and 1977. NGU/GM Report no 150. Geofysiske undersøkelser 31.3-10.6 1955 omkring Kjøli Gruber, Ålen, Holtålen, Sør-Trøndelag.

Bøckman, 1942, Rørosviddas Malmforekomster, *in* Rørosbokkomiteen, editor, Rørosboka: Trondheim, p. 53-71.

Carson, D, 1999, Mineralogy and predictive metallurgy of samples from six MS Deposits in the Røros area. Crew internal report.

Chaloupsky, 1967, Geology of the western and north-eastern part of the Meråker area.: Norges Geol. Unders., v. 245, p. 9-21.

Craig, J.R. 1980: Stratiform sulfide mineralization in the Central U.S. Appalachians. NGU 360, 295-325.

Cratochvil, M. Et al. 2000. Quantec Geoscience Inc. Geopysical Survey Logistics report. Ground survey Jensåsbekken, Kjøli, Rødalen and Svartbekken grids.

Dalsegg, 1992, Geofysiske undersøkelser, Meråkerfeltet -Øst, Meråker Nord-Trøndelag., Norges Geol. Unders. 93.001.

Dalsegg, E 1999.NGU ground survey in Klinkenberg area Røros.

Dalsegg, E. Et al 2000.NGU ground survey at Tjønnvollmyran, Holtålen.

Dalsegg, E. Et al 2000.NGU ground survey in Klinkenberg area, Røros.

Dalsegg, E. Et al 2000.NGU ground survey in Storskarven area, Røros.

Eidsvik, P. 1968: Geofysiske målinger Pustbakken – Slettmo. NGU rep. no. 769.

Eriksen, K. R., 1975, Aktieselskabet Røros Kobberverk, *in* Valmot, O., editor, Bergverk 1975, Jubileumsskr.: Trondheim, Bergingeniør Foren., p. 114-121.

Finne, 1993, Innhold av 28 grunnstoffer i salpetersyreekstrakt av jordprøver fra Meråker., Norges Geol. Unders.

Foslie, S., 1926, Norges Svovelkisforekomster: Norges Geol. Unders., v. No. 127, p. 122.

Gee, D. G. S., B.A.,, 1985, The Caledonide Orogen - Scandinavia and Related Areas, v. 1 + 2, Wiley & Sons, 1266 p.

Gilmour, P. 1971: Strata-bound massive pyritic sulfide deposits – a review. Econ. Geol. 66, 1239-1249.

Gjestland, T. 1992: Gruvene i Storwartz-feltet. Bergstuderendes Forening / Olavsgruvas Venner.

Gonzales, C, 1998: Geophysical Report from the Røros Area. Crew Internal Report No N98/10, 123pp incl. tables and figs.

Gower, C. F., 1992, The relevance of Baltic Shield Metallogeny to Mineral Exploration in Labrador, Current Research, Newfoundland Dept. of Mines and Energy, p. 331-366.

Grenne, T., 1987, Marginal basin type metavolvanites of the Hersjø Formation, eastern Trondheim District, Central Norwegian Caledonides: Norges Geol. Unders. Bull., v. 412, p. 29-42.

Grenne, T., Hertogen, J., Solli, A., Birkeland, A., Erichsen, E., Sandstad, J.S., 1995, The sequential development of magmatic ore-forming processes in the Fundsjø Group, Meråker district, Central Norway.: Norges Geol. Unders. Bull., v. 427, p. 108-111.

Grytdal, I. 1989: Fløttumsgruva. Singsås Bygdemuseum.

Gvein, Ø., 1976, Boring i Græsli, Tydal, Sør - Trøndelag., Aspro, p. 17.

Haugen, A., 1966, En Malmgeologisk beskrivelswe av Gilså - Dronningen - Lillefjell - området i Meråker., Geology Department, University of Trondheim, p. 110.

Juhava, R. 1991: Ore calculation. Fløttum. Int. rep. Folldal Verk A/S / Outokompo Oy. (Available at Bergmester office.)

Karlstrøm, 1993, Edelmetaller i kisforekomster i Nord-Trøndelag., p. 58.

Krupp, R. K., G., 1985, Geological Setting of the Tverrfjell Copper/Zonc Deposit, Central Norway: Geol. Rundsch., v. 74, p. 467-482.

Kumpulainen, R. N., J.P., 1985, Late Proterozoic basin evolution and sedimentation in the westernmost part of Baltoscandia, *in* Gee, D. G. S., B.A., editor, The Caledonide Orogen - Scandinavia and Related Areas, Wiley & Sons, p. 213-232.

Lieungh, B., 1973, Geologiske, petrografiske og malmgeologiske undersøkelser i Nordgruvefeltet, Røros, Geology Department, Blindern: Oslo, University of Oslo, p. 159.

Ljøkjell, P., 1953, Geology of the Fløttum Mine., Department of geology, University of Trondheim, p. 62.
Mogaard, J. O., Blokkum, O, 1993, Geofysiske målinger fra helikopter over Meråkerfeltet, Nord-Trøndelag.
Nilsen, O., 1969, Petrografiske og malmgeologiske undersøkelser i Haltdalen - Kjøliområdet, Department of Geology, University of Oslo, p. 214.
Nilsen, O., 1971, Sulphide mineralization and wall rock alteration at Rødhammeren mine, Sør - Trøndelag, Norway: Norsk Geol. Tidsskr., v. No 53, p. 9.
Nilsen, O., 1988, The Tectonostratigraphic Setting of Stratabound Sulfide Deposits in the southern Trondheim Region, Central Norwegian Caledonides: Norges Geol. Unders. Bull., v. 412, p. 55-66.
Nilsson, L. P., Sturt, B.A., Ramsay, D.M., 1997, Ophiolitic ultramafites in the Follsal-Røros tract, and their Cr-(PGE) mineralization: Norges Geol. Unders. Bull., v. 433, p. 10-11.
Qvale, H. S., J., 1985, Ultramafic rocks in the Scandinavian Caledonides, *in* Gee, D. G. S., B.A., editor, The Caledonide Orogen - Scandinavia and Related Areas, Wiley & Sons, p. 694-715.
Quantec Geoscience Inc. 2000, Geophysical report, Jensåsbekken, Kjøli, Rødalen and Svartbekken at Røros.
Ramsay, D. M. S., B.A., 1998, The Tjørnseter Salient: A cartographic and structural curiosity in the outcrop pattern of the Otta Nappe: Trondheim, Norges Geol. Unders., p. 12.
Riiber, C. C. A., G., 1935, Beskrivelse av kis og kobbergruver og skjerp i Foldal, Dovre, og Alvdal herreder. In Marlow, W. (ed.) Foldal. Beskrivelse til det geologiske rektangelkart.: Norges Geol. unders., v. 145, p. 28. p.68 - 96.
Rolseth, P. O., 1945, Selbo Kobber - Værk., Selbu og Tydal Historielag, 188 p.
Rui, 1998, Sulphide deposits in the nEastern Trondheim Region, Aspro, p. 17.
Rui, I., 1973, Geology and structures of the Røstvangen sulphide deposit in the Kvikne district, Norwegian Caledonides.: Norsk Geol. Tidskr., v. 53, p. 433-442.
Rui, I., 1973, Structural Control and Wall Rock Alteration at Killingdal Mine, Central Norwegian Caledonides: Econ. Geol., v. 68, p. 859-883.
Rui, I., 1990, Nordgrubefeltet ved Røros, Aspro, p. 24.
Rui, I., 1990, Sulfidforekomster i Børsjøhøfeltet, Aspro, p. 12.
Rui, I., 1998, Sulphide Deposits in the Eastern Trondheim Region, Aspro, p. 17.
Rui, I. B., I., 1975, Stratabound sulfide mineralization in the Kjøli area, Røros District, Norwegian Caledonides: Norsk Geol. Tidsskr., v. 55, p. 51-75.
Rui, I. G., G, 1976, Gravimetric indications of basement undulations below the Cambro - SWilurian deposits East of Røros, Southern Norway: Norsk Geol. Tidsskr., v. 56, p. 195 - 202.
Rui, I. J., 1972, Geology of the Røros District, South-eastern Trondheim Region with a special study of the Kjøliskarvene-Holtsjøen area.: Norsk Geol. Tidsskr., v. 52, p. 1-21.
Rui, I. J., 1980, Stratabound Massive Sulfide Deposits in the Røros District of the Trondheim region, Central Norwegian Caledonides: Nor. Geol. Unders. Bull., v. 360, p. 229.

Rui, I. 1984, Killingdal Gruber. Prospektering rundt utgående sommeren 1983. Aspro report 1470. Bergvesenet Report 1711.
Rui, I. m. F., 1990, Deformasjon og remobilisering av malmer., Bergverkenes Landssammenslutning Industrigruppe, Bergforskningen., p. 199.
Rui, I. 1998, Sulphide deposits in the Eastern Trondheim region. Crew internal report.
Sakshaug, G.F. 1941: Slettmo – Pustbakken. GM rep. no. 24.
Sakshaug, G.F. 1961: Elektromagnetisk undersøkelse Kvernenglia. GM rep. no. 274A.
Sakshaug; G.F. 1961: Elektromagnetisk undersøkelse Mugg – Lille Mugg. GM rep.no.274B.
Singsaas, P. & Brækken, H. 1944: Geofysiske undersøkelser Solskinnsfeltet. GM rep. no. 37.
Singsaas, P. 1949: Elektromagnetisk Karlegging over områder ved Killingdalen Gruber, Ålen. BV rep no 1085.
Singsaas, P. & Brækken, H. 1950: Rapport over elektromagnetisk kartlegging over og omkring Klinkenberg gruve og Abrahams gruve. NGU/GM? rep. no. 72.

Singsaas, P. & Brækken, H. 1951: Geofysisk undersøkelse over området ved Storwartz Grube. NGU/GM? rep. no. 82.
Singsaas, P. & Brækken, H. 1952: Geofysisk undersøkelse Fjellsjøfeltet, Glåmos. NGU/GM? rep. no. 85.
Singsaas, P. 1961: Geofysisk undersøkelse Lergrubebakken/Glåmos. NGU/GM? rep. no. 293.
Singsaas, P. 1965: Geofysisk undersøkelse Lobekken. NGU rep. no. 647.
Sawkins, F. S., 1990, Integrated tectonic-genetic model for volcanic-hosted massive sulfide deposits: Geology, v. 18, p. 1061-1064.
Schack-Pedersen, S. A., 1979, Structures and Ore Genesis of the Grimsdalen Sulfide Deposits, Southern Trondheim Region, Norway.: Norges Geol. Unders. Bull., v. 351, p. 77-98.
Shieh, Y. N. R., I.J., 1980, Sulfur and Oxygen Isotope Ratios in Stratabound Ores and Wall Rocks from the Killingdal Mine, Central Norwegian Caledonides.: Nor. Geol. Unders. Bull., v. 360, p. 231.
Stephens, M. B. G. D. G., 1989, Terranes and polyphase accretionary history in the Scandinavian Caledonides: Geol Soc. Am. Spec. Paper, v. 230, p. 17-30.
Stephens, M. B. R., A., 1986, Stratabound sulfide mineralizations in the Central Scandinavian Caledonides, Sveriges Geol. Unders. Ca., p. 67.
Sturt, B. A., Ramsay, D.M., Neuman, R.B., 1991, The Otta Conglomerate, the Vågåmo Ophiolite - further indications of early Ordovician Orogenesis in the Scandinavian Caledonides: Norsk Geol. Tidsskr., v. 71, p. 107-115.
Sturt, B. A., Bøe, R., Ramsay, D.M., Bjerggård, T., 1995, Stratigraphy of the Otta-Vågå tract and regional stratigraphic implications: Norges Geol. Unders. Bull., v. 427, p. 25-28.
Sturt, B. A., Ramsay, D.M., 1997, The Gudbrandsdalen Antiform - a major Late Caledonian structure: Norges Geol. Unders. Bull., v. 433, p. 12-13.
Sturt, B. A., Ramsay, D. M., Bjerkgård, T., 1997, Revisions of the tectonostratigraphy of the Otta-Røros tract: Norges geol. Unders. Bull., v. 433, p. 8-9.

Sturt, B. A. R., D., 1991, Tectonostratigraphic Relationships and Obduction Histories of Scandinavian Ophiolitic Terranes, *in* Tj. Peters et al., editor, Ophiolite Genesis and Evolution of the Oceanic Lithospher, Ministry of Petroleum and Minerals, Sultanate of Oman, p. 745-769.

Sundblad, K. 1980: A tentative "Volcanogenic" Formation Model for the Sediment-hosted Ankarvattnet Zn-Cu-Pb Massive Sulphide Deposit, Central Swedish Caledonides. NGU 360, 211-227.

Sundblad, 1983, Lead isotope systematics of stratabound sulfide deposits in the higher nappe complexes of the Swedish Caledonides.: Econ. geol., v. 78, p. 1090-1107.

Theting, F., 1935, Beskrivelse av Røstvanggruberne. In Marlow, W. (ed.). Foldal. Beskrivelse til det geologiske rektangelkart.: Norges Geol. Unders., v. 145, p. 97 - 109.

Vogt, T. 1949: Forslag til geofysisk malmleting i traktene nord for Aursunden. Bergarkivet rep. no. 2094.

Vokes, F.M. 1968: Regional metamorphism of the Palaeozoic geosynclinal sulphide ore deposits of Norway. Trans. Inst. Mining Met. 77, B53-B59.

Vokes, F.M. 1969: A review of the metamorphism of sulphide deposits. Earth Sci. Rev. 5, 99-143.

Vokes, F.M. 1976: Caledonian massive sulphide deposits in Scandinavia – a comparative review. In Wolf, K.H. (ed.) Handbook of Stratabound and Stratiform ore deposits, 6, 79-127 Elsevier.

Vokes, F. M., 1980, Some Aspects of research into Caledonian Stratabound Sulfide Deposits of Scandinavia: Nor. Geol. Unders. Bull., v. 360, p. 77-93.

Vokes, F. M., 1987, Caledonian Stratabound Sulfide Ores and Factors affecting them.: Geol. Surv. Finland. Spec. paper, v. 1, p. 15-26.

Vokes, F. M., Rundhovde, E., Boyd, R., Grenne, T., Nilsson, L.-P., Pedersen, R.-B., 1991, The metallogeny of early Ordovician ophiolites in the Norwegian Caledonides, *in* Leroy, P., editor, Source, Transport and Deposition of Metals: Rotterdam, Balkema, p. 627-630.

Vokes, F. R., A., 1980, Stratabound Sulfides in the Caledonian-Appalachian orogen, Nor. Geol. Unders., p. 325.

Walker, 1992, A geophysical investigation of Kjølhauggruppen and Sulåmogruppen over two areas near Meråker, Norway., Norges Geol. Unders.

Wilberg, R & Røsholt, B, 1998: Røros Zinc Project, Geological Investigations of Stratiform Sulfide Deposits in the Røros-Meråker Area. Crew Internal Report No. 98/8, 147 pp + maps and tables.

Witt-Nilsson, P, 1999: The Røros-Meråker district mines – a structural assessment. Crew Internal Report. No. N99/1, 99 pp + maps and diagrams.

Wolff, F. C. e. a., 1967, Studies in the Trondheim Region, Central Norwegian Caledonides II: Norges Geol Unders., v. 245, p. 146.

Wolff, F.C. 1973: Beskrivelse til de berggrunnsgeologiske kart 1721 I og 1722 II – 1:50 000. NGU no. 295.

Zachrisson, E., 1980, Aspects of Stratabound base metal Mineralization in the Swedish Caledonides.: Geol. Surv. Irl., v. Special paper no.5, p. 47-61.

Zachrisson, E., 1986, Scandinavian Caledonides Stratabound Sulfide Deposits, Sveriges Geol. Unders.

ENCLOSURES

Encl. no 1

Summary of results of ore samples from Meråker SE area:

88. Sagskjerpet (Fossvannet nord) UTM 0637755 7028317

Element	Au30	Ag	Cu	Pb	Zn	As	Fe
Units	ppb	ppm	Ppm	ppm	ppm	ppm	%
L.R.L.	5	0,2	1	2	1	5	0,01
399925	723	3,9	14900	64	2861	5	7,49
399926	32	5,1	4566	86	9923	25	> 10.00
399927	53	4,8	4014	72	192800	23	> 10.00
399928	34	3,5	3758	144	29900	22	> 10.00

89. Brenthaugvollen (Røssåsen) UTM 0638619 7028415

Element	Au30	Ag	Cu	Pb	Zn	As	Fe
Units	ppb	ppm	ppm	ppm	ppm	ppm	%
L.R.L.	5	0,2	1	2	1	5	0,01
399929	80	1,4	9900	13	2650	8	7,09
399930	135	2,8	24000	16	1056	8	> 10.00
399931	85	6,4	47100	29	2806	8	> 10.00

90. Langsundgruva (Røssåsen) UTM 0638890 7027061

Element	Au30	Ag	Cu	Pb	Zn	As	Fe
Units	ppb	ppm	ppm	ppm	ppm	ppm	%
L.R.L.	5	0,2	1	2	1	5	0,01
399896	100	4,5	14000	270	22100	86	> 10.00
399897	38	1,3	4987	35	31700	77	> 10.00
399898	92	4,6	20800	40	34000	81	> 10.00
399899	54	2	5132	22	77400	109	> 10.00
399900	71	2,7	5658	18	88300	121	> 10.00
399937	87	3,3	7305	9	74500	7	> 10.00
399938	50	3,5	14700	10	73000	< 5	> 10.00
399939	112	4,6	18000	35	2943	6	> 10.00

91. Nordre Knoll (Husmannsberget) UTM 0638443 7024623

Element	Au30	Ag	Cu	Pb	Zn	As	Fe
Units	ppb	ppm	ppm	ppm	ppm	ppm	%
L.R.L.	5	0,2	1	2	1	5	0,01
399922	137	472	681	156200	256300	39	5,23
399923	47	8,1	7447	522	229300	34	> 10.00
399924	11	1,7	1768	666	8976	30	> 10.00

92. Søndre Knoll (Husmannsberget) UTM 0638297 7024520

Element	Au30	Ag	Cu	Pb	Zn	As	Fe
Units	ppb	ppm	Ppm	ppm	ppm	ppm	%
L.R.L.	5	0,2	1	2	1	5	0,01
399918	1396	19,6	26600	1270	232700	329	> 10.00
399919	412	16,7	10400	2051	259100	260	> 10.00
399920	174	9	4684	1068	233900	227	> 10.00
399921	29	9,4	1533	1063	159600	32	> 10.00

93. Anna (Husmannsberget) UTM 0637478 7023853

Element	Au30	Ag	Cu	Pb	Zn	As	Fe
Units	ppb	ppm	ppm	ppm	ppm	ppm	%
L.R.L.	5	0,2	1	2	1	5	0,01
399915	71	10,5	9070	1738	121800	91	> 10.00
399916	893	16,6	95300	102	7920	69	> 10.00
399917	120	16,9	99100	38	9016	45	> 10.00

94. Gøsta (Husmannsberget) UTM 0637626 7023700

No samples.

95. Duddu (Husmannsberget) UTM 0637669 7023277

Element	Au30	Ag	Cu	Pb	Zn	As	Fe
Units	ppb	ppm	ppm	ppm	ppm	ppm	%
L.R.L.	5	0,2	1	2	1	5	0,01
399908	44	11,5	56900	43	97100	42	> 10.00
399940	269	17,3	21700	2179	123100	82	> 10.00
399941	281	46	16200	9035	229600	82	> 10.00
399942	222	63,2	123900	1435	88400	73	> 10.00
399943	148	10,9	13900	351	27500	75	> 10.00

96. Ebba (Husmannsberget) UTM 0637286 7023051

Element	Au30	Ag	Cu	Pb	Zn	As	Fe
Units	ppb	ppm	ppm	ppm	ppm	ppm	%
L.R.L.	5	0,2	1	2	1	5	0,01
399909	8	6,4	43600	15	2100	31	> 10.00
399910	76	7,7	45500	20	1330	29	> 10.00
399911	17	14,2	122000	24	2534	39	> 10.00
399912	430	4,8	26700	10	27100	45	8,82
399913	26	12,1	66100	15	1246	78	> 10.00
399914	33	5,3	4142	1442	5864	93	> 10.00

97. Lillefjell (Gruvefjellet) UTM 0638631 7016457

Element	Au30	Ag	Cu	Pb	Zn	As	Fe
Units	ppb	ppm	ppm	ppm	ppm	ppm	%
L.R.L.	5	0,2	1	2	1	5	0,01
399967	140	16,3	11000	5853	175500	228	> 10.00
399968	45	8,4	7470	1661	68400	11	> 10.00
399969	87	3,2	4951	585	62200	186	> 10.00
399970	37	5,8	15500	979	37700	16	5,9
399971	434	13,1	39200	956	98400	237	> 10.00
399972	177	14,7	52700	608	51600	72	> 10.00
399973	266	17,4	43900	973	76200	157	> 10.00
399974	164	20,1	60900	1099	59600	145	> 10.00

98. Peder Bentzens skjerp (Litlefjellet) UTM 0638665 7016049

Element	Au30	Ag	Cu	Pb	Zn	As	Fe
Units	ppb	ppm	ppm	ppm	ppm	ppm	%
L.R.L.	5	0,2	1	2	1	5	0,01
399961	32	1,4	6281	9	483	< 5	> 10.00
399962	90	1,1	6067	8	297	< 5	8,52

99. Peder Bentzen nord (Litlefjellet) UTM 0638678 7015681

Element	Au30	Ag	Cu	Pb	Zn	As	Fe
Units	ppb	ppm	ppm	ppm	ppm	ppm	%
L.R.L.	5	0,2	1	2	1	5	0,01
399963	65	6,2	18500	418	9565	< 5	> 10.00
399964	146	8,1	22300	479	19100	38	> 10.00
399965	181	6,6	51900	26	171	29	> 10.00

100. Litlfjellet south UTM 0639154 7014916

Element	Au30	Ag	Cu	Pb	Zn	As	Fe
Units	ppb	ppm	ppm	ppm	ppm	ppm	%
L.R.L.	5	0,2	1	2	1	5	0,01
399966	464	16,2	36800	24	14100	14	> 10.00

101. Gilså (Gilsli gruve) UTM 0639465 7012739

Element	Au30	Ag	Cu	Pb	Zn	As	Fe
Units	ppb	ppm	ppm	ppm	ppm	ppm	%
L.R.L.	5	0,2	1	2	1	5	0,01
399877	35	2,3	5198	48	27900	122	9,86
399878	536	30,3	85600	99	59800	78	> 10.00
399879	42	1,6	4413	4	72700	71	> 10.00
399880	337	3,9	10200	210	74900	59	> 10.00
399881	87	6,9	12800	30	60700	57	> 10.00
399882	54	11,3	29600	210	48400	53	> 10.00

102. Dronningen (Bjørneggfjellet) UTM 0642182 7014431

Element	Au30	Ag	Cu	Pb	Zn	As	Fe
Units	ppb	ppm	ppm	ppm	ppm	ppm	%
L.R.L.	5	0,2	1	2	1	5	0,01
399883	8	3,2	25000	32	859	157	6,83
399884	80	9	39200	28	2185	80	> 10.00
399885	59	3,4	19100	27	835	67	> 10.00
399886	122	8	28600	13	840	183	7,7
399887	83	8,5	37000	19	985	89	> 10.00
399888	162	11,3	26500	1253	6237	419	8,61

103. Svartåtjern (Husmannsberget) UTM 0637800 7019040

Element	Au30	Ag	Cu	Pb	Zn	As	Fe
Units	ppb	ppm	ppm	ppm	ppm	ppm	%
L.R.L.	5	0,2	1	2	1	5	0,01
399975	162	10,9	27600	29	1172	19	> 10.00

Encl. 2.

Meråker area
AEM follow-up Sept. 2000

The targets of interest are conductors outlined by airborne geophysics (NGU 1991). They occur in both sedimentary and volcanic settings, in the Kjølhaug-, Sulåmo-, and Fundsjø Groups.
The targets are mapped/prospected, but in many cases the degree of exposure is low, and consequently the reason for the anomalies could not be decided with confidence. In those cases the objects are geochemically screened by soil- (sampling B-horizon by hand auger) and/or stream silt sampling. In situ susceptibility measurements are utilized in target areas with coincident magnetic high anomalies.

1. Husmannsberget

Target 86

This is an area with generally low degree of exposure.
The conductive trend (picks a-d) is only partly associated with the known showings. This yields the southern part, where the Duddu showing is located along the trend between pick c and d. It could well be that this trend bends around the southern part of the Husmannsberget gabbro, SW-wards from pick d, towards Ebba showing, where the next flight line to the south has a weak pick just SW of Ebba.
North of Duddu/pick c, the conductive trend is off-set approximately 100m to the east of a trend of sulfide showings, which is assumed to be more or less the same structural level. NNW-wards from pick c these are as follows:

- 637641 7023562: Small, waterfilled pit (<1m3 dump) at the northern side of a small gabbro hill, not seen in 1998, might actually be the Gøsta showing. Along the eastern side of (below) the gabbro, runs a 0.4-0.5m thick rusty horizon comprising of qtz-chl-mica sch, chl sch, and schistose gabbro/amphibolite, all with weak cpy(-po)-diss. (sample 400622). Schistosity and direction of the mineralization (and gabbro contact): 165°/40°. A few dump samples show gabbro with qtz-carb segregations and cpy-diss. (sample 400621), and small, rusty areas indicate that the gabbro contains sulfides.
- 637659 7023705: small exposure of chloritic sch with weak py-diss.
- 637627 7023788: small exposure of chl sch with 10cm thick band of euhedral-py-diss. (approx. 30% py, sample 400620), at the contact to qtz-lens.
- 637577 7023844: Anna sl-showing (1998-rep.)

From 637721 7023581 (8m NW of pick b), a shallow, refilled trench runs 10m westwards.
637726 7023545: restricted poisoned drainage.
637751 7023736: 6m long, NW-SE-directed shallow trench with no outcrop. No min. to be seen among the few floats.
40m north of pick c, at 637678 7023429, was found a drill hole, probably from around 1970, when ELKEM held claims in the area.

Soil samples (AN01-14, enclosed sample list) are collected along profiles through pick a (a single, small outcrop of light greenish greywacke 2m away) and b (AN15-30). Sampling around pick c was not possible due to swamp, and around d not recommended due to contamination/poisoned drainage from the Duddu dumps.

The mineralization at Anna shaft (west of Anna sl-showing) is expected to be related to the weak response just to the SSE, and probably to the response at the next flight line to the north. Both are covered by bog.

The weak trend through 637500 7024500 is covered, and so are the two picks resp. just north of and 300m NNW of Søndre Knoll showing. Sample 400619 is collected from a small (1-2m2), lens shaped part of the gabbro, 2m above the mineralization in the eastern shaft of Søndre Knoll (638341 7024536), which is rusty and contains py-cpy-diss.

Even though the accuracy of the localization of the historical showings is not critical (I mean, even the scrambled locations are in most cases within 20m accuracy, and the distance between the flight lines is 200m), by means of relating them to given picks, new, unscrambled GPS locations are collected from the diggings:

Anna shaft: 637488 7023859
Anna sl-showing: 637577 7023844
Duddu adit: 637667 7023300
Duddu shaft: 637610 7023248
Nordre Knoll: 638440 7024618
Søndre Knoll, eastern shaft: 638341 7024536
Søndre Knoll; western shaft: 638311 7024525

2. Fossvatnet Target 87

The area south of Fossvatnet is almost completely covered, only one small outcrop was found in the vicinity of the conductive trend: greenschist, schistosity 190°/45°, is exposed in a stream at 636882 7026072. It is assumed that the conductor is hosted in the Turifoss greenstone.

Soil samples are collected along two profiles, covering pick b (FO14-22) and d (FO01-13), and stream silt samples (SSF01-10) are collected from two streams crossing the conductor close to pick c.

The conductor is outlined by ground geophysics (VLF, Mag and Slingram) by NGU in 1992. Similar to the Sagskjerpet mineralization to the north, this anomaly consists of two parallel conductors. NGU's conclusion: "Probably, this represents a covered Sagskjerp-type mineralization".

Fossvatnet is a "leveling basin" for a resent hydropower transfer tunnel from Torsbjørka river (631444 7024716) to the Tevla river (645100 7031700, dump at 645535 7032262). (Also the river Dalåa is drained into the tunnel at 641550 7026548, where the entrance is drifted into coarsegrained gabbro.) At the southern bank of Fossvatnet, at 637671 7026948, a shaft is driven down to the tunnel. Dump material is deposited about 200m to the SE, leveled out and vegetated. At 637769 7026776 a 10x7x3m3 dump pile is stored. As the rocks are ±fist size, it is assumed to be derived from the nearby shaft, which is conventionally drifted, opposed to the full-profile tunnel. Dump material is dominated by finegrained, greengrey greywacke and mica schist with mm-thick qtz-bands, with minor finegrained amphibolite.
Also a few samples of massive sl-cpy-po mineralization with small qtz nodules (sample 400616) appear. The po-content proves to be variable, from about equal to both sl and cpy, to almost absent. One sample with preserved wallrock, chloritic schist, shows the massive sulfide band to be 6cm thick. Other samples show greywacke with po-cpy-sl-diss. (sample 400617), and chlorite-rich amphibolite with qtz veins with associated cpy-po-mt-diss. (sample 400618).

This mineralization has possibly been picked up by the AEM as the weak anomaly pick at 637690 7027000 (and another pick 250m SSW).

North of Fossvatnet, pick a is covered, but just SW (637827 7027988) is exposed mafic volcanic/amphibole schist, schistosity 185°/20°.
By the roadside, at 637618 7027640, at what is believed to be about the same structural level as pick a, appear frequent local, rusty floats of finegrained amphibolite with dusty po-diss. (up to 5-6% po).
The area around the grade 4 anomaly located at 638190 7027789 is completely covered.

3A. Gåsvollfjellet North Target 88

Hosted in the "Meråker phyllite" (Sulåmo Group), this conductor is expected to be related to graphitic phyllite with py-diss., indicated by floats.
Anomaly pick a is located at a ridge, which is covered by locally derived floats of rusty, dark grey to, in places, almost black phyllite. Graphite was not detected. Exposures of same close by.
The same rock type extends to pick b, but the exact loc. for the pick is covered. Approx. 100m to the NV, a few local (?) floats of graphite-rich phyllite with py-diss were found.
Pick c: Not exposed, but quite a few small floats of graphite-bearing phyllite can be found in the area.

3B. Gåsvollfjellet South Target 88

Except for the southern part, this conductive trend is covered, but it is proved to occur well into the "Meråker Phyllite" (Sulåmo Group), and most likely the whole trend is related to graphitic sediments with a low sulfide content.
Anomaly pick h2: The exact spot is covered, but obviously local, upweathered floats of rusty (sulfides not seen) graphite schist (susceptibility 5-20K), with thin layers of sericite schist, are found. 3m east of h2 is a small outcrop of weakly rusty, dark grey phyllite (40-60K).
Pick h1 is covered, but outcrops of light grey phyllite and minor intercalations of calcareous mica schist appear in the immediate vicinity. A few meters downslope from h1, a few floats of graphite-bearing blackschist with py-bands (<<1mm) were found. In a steep wall 20m west of h1, the susceptibility is measured to 60-70(-100)K in locally, spotwise rusty phyllite (surroundings, 30-40K). At the bottom of this wall is partly exposed graphite-containing blackschist with weak py-diss.
h1 and h2 is separated by light grey phyllite (30K).
Northwards, the other anomaly picks along this trend is covered. Grey phyllite (30K) is frequently exposed west of the conductor.
Soil samples are collected along a profile through pick d (GF01-13).
An extensive, weak conductive trend through 637800 7016000 is also caused by graphitic phyllite.

4. Svartåtjern Northwest Target 89

A wide (at least 50m) unit of rusty (traces of py) phyllite, in places containing minor graphite in thin layers, is partly exposed along the low ridge west of the small pond where pick b (covered) is located, and extends northwards to pick a. Again, the AEM anomaly is caused by conductive, graphite-bearing phyllite of the Sulåmo Group.

5. Gåstjønna Northwest Target 90

This conductor is hosted in the "Meråker Phyllite" (Sulåmo Group). Graphite is not detected in the dark grey phyllite, but is most likely the reason for the conductivity. Bedrock is poorly exposed. Observations:
Outcropping dark grey phyllite with traces of py (20-140K) exposed in a stream from 634296 7021500 and 20m NW-wards.
634475 7021031: Upweathered local floats of phyllite.
634452 7020997: Outcrop of phyllite (strike approx. 120°) with discordant hydrothermal qtz vein (at least 1m thick).
634388 7021011: Massive quartzitic greywacke (5K), or possibly aplitic intrusive?
634599 7020760: Local floats of dark grey phyllite.
634619 7020755: Outcrop of same.
634633 7020716: Floats of 1) rusty, dark grey phyllite with traces of py, and 2) hydrothermal qtz (+minor carb.) with diss. of po and xxmin. (sample 400623).
634522 7020921: Outcropping silvergrey phyllite. Schistosity striking approx. 105°.
634433 7021173: Outcropping grey phyllite.

A few soil samples (GT01-09) were collected where obtainable (outside swamp) around pick d and e.

6. Fjergen West

It was expected, based on existing geological maps, that this conductor is hosted in the Turifoss Greenstone, but even though most of the area is covered, scattered outcrops in the southern part show that the area is underlain by sediments, belonging to the Kjølhaug Group. The structures in the target area also deviate from the prevailing strike direction given on the existing map. The rocks are striking ENE-WSW, dipping NNW.
The sediments are distinctly banded, in cm to dm scale, with alternating massive greywacke and more schistose, green bands. Gabbro lenses with a wide size range, from >500m long to small nodules, are common, and here, like so many other examples regionally, they seem to play an important controlling role for mineralization. Because of the restricted exposure, this is not proved (all the picks are covered), but rather insignificant cpy-po-disseminations bound to gabbro margins (and in the strike extension of gabbro lenses), are seen several places.
As such mineralizations are encountered at separate structural levels west of Fjergen, also the anomaly picks seem to occur at apparently different levels. Folding, with WSW-plunging axis, could explain this.
Observations along the trend:

- 643044 7038134: Small exposure. Tiny blast (<<1m3) in a 20-50cm thick rust-lens, with cpy-po-diss. in silicyfied greywacke and in hydrothermal quartz (sample 400631). A small (10x5cm2) nodule of finegrained amphibolite occur in the sulfide zone. Sch: 237°/50°. From the blast, scattered outcrops of sediment along an apparently higher structural level to 643075 7038165.
- 643018 7038116: Few floats derived from a complitely refilled, tiny "digging". They show silicyfied sediment/quartzite with weak cpy-po-diss. (sample 400632), hydrothermal quartz with rich cpy-diss. (sample 400633), and finegrained amphibolite with weak cpy as fracture filling and minor as diss. Susc. 10-60K at the floats.
- 643025 7038151: Finegrained greywacke with dm- to 1m thick bands/lenses of finegrained amphibolite.
- 642996 7038138: Folded, banded greywacke, axis 242°/20°.

- 642980 7038110: Gabbro, at least 3m thick, continues 12m SW-wards, with folded, banded sediment, containing small gabbro lenses, along the NW-contact. Almost continuous exposure to 642958 7038082.
- 642920 7038050: Small outcrop. Narrow rust-band in the sediment along margin of a 30cm thick gabbro lens. Close by, several, up to 1m wide gabbro lenses in the sediment.
- 642843 7037978: Two, 2-3m thick gabbro lenses (finegrained amphibolite) with rusty sediment along the contacts.
- 643039 7038094: Tiny outcrop of gabbro/finegrained amphibolite with po-cpy-diss. (sample 400635). 3m to the north: small sediment outcrop.
- 643084 7038194: Tiny outcrop of banded sediment with dm-thick gabbro lenses. Pick a is covered, but seem to occur at an apparently higher structural level than the mineralization at the blast.
- 643126 7038224: Folded, banded (banding 246°/50°) sediment.
- 643160 7038201: Small outcrop of medium grained gabbro.
- 643173 7038207: 10-20cm thick sheared schist zone with hydrothermal quartz and weak cpy-po-diss. between two 1m-thick gabbro-lenses. This is apparently about the same structural level as the mineralization at the blasting. Covered NE-wards, until:
- 643323 7038511: Tiny outcrop of gabbro.
- 643374 7038523: Exposed 10m thickness of banded greywacke with few gabbro-lenses. Sch: 247°/45°.
- 643750 7038900: Extensive (approx. 500m long) gabbro lens exposed along the shoreline.
- 643403 7038529: Banded greywacke.
- 643412 7038564: Banded greywacke.
- Covered northwards, until 643727 7039108, where, along the shoreline, is exposed banded (cm-dm scale) greywacke and green tuffitic(?) layers. Banding: 235°/40°. Only 15m NE, separate outcrop of same rock, but with banding 10°/70°. Just north of here can be observed mylonite zones with discordant relationships. In the southern part of the outcrop at 643727 7039108 (just north of the stream) appears a gabbro lens with a few-cm thick po-cpy-diss. along the margin.
- Weak anomaly pick at 643858 7039430: 2.5m thick gabbro lens with up to 10-15cm thick rustzones, consisting of sheared and mylonitic schist rich in hydrothermal quartz and nodules of gabbro, plus cpy-po-diss., along both margins. The gabbro lens wedge out, but the rustzone (with incorporated gabbro nodules) continues northwards into the lake. Also a few-cm hick shearzone in the gabbro lens.
- Anomaly pick at 644314 7041405: Along the shoreline and partly under the waterline can be seen a rusty schistzone, 3m thick in the south, squized to 10cm thickness between two, at least 5m thick gabbro-lenses.

Here can be mentioned the quarried gabbro in Dalådalen, which in places is significantly rusty, carrying po(-cpy)-diss. (sample 400634).

Soil samples are collected along a profile crossing anomaly pick a (FW01-11). To obtain soil samples around anomaly picks b and c, machine powered DOB sampling is necessary.

7. Fjergen North

This conductor is completely covered, located in a swampy terrain, where soil sampling by hand auger is prevented by the thickness of the bog. Surprisingly enough, it proved possible to reach down to silt in the northern part of the area, mainly in connection with small ponds and

creeks, consequently the sampled sediments could almost be characterized as stream silts. The samples (FN01-23) are collected erratically, where practically possible.
Grid lines are found crossing the conductor, expectedly NGU has conducted ground geophysics here in 1993.

SE of this conductor, is a weak anomaly pick at 645723 7040823, where it proved to be a small gossan at the shoreline. 35m to the SE is exposed a folded, banded sediment; alternating layers of greywacke and green, tuffitic(?), chloritic phyllite, with frequent, few-cm thick quartz bands, often rusty, with associated po and cpy. Exposure of same 10m SE of the gossan, here isoclinally folded, axis 20°/15°. Banding generally 200°/25°. 3-10m west of the gossan, outcrop of carbonaceous greywacke with green bands and quartz bands.

8. Funnsjøen

This anomaly appears in the Fundsjø Group volcanics, here dominated by intercalated mafic and felsic tuffs with minor massive, basaltic flows and a few thin marble layers.
The approximately 1.5km long conductor is exposed only in the northern end, in two stream intersections (very few outcrops can be found except in the stream cuts). The conductive unit is here a 4m thick felsic to intermediate tuff with po-diss. (about 5% po), with few-cm-thick sulfide bands where po is enriched to 20-50%.
Felsic tuff and quartz keratophyre (white quartz-albite rock) are occasionally found to host thin po-cpy-disseminated horizons.
In the footwall rocks of the anomaly, thin massive to semimassive layers of magnetite in felsic to intermediate tuffs, are observed in two stream cuts, and can well be connected.
As most of the conductor is covered, the crossing streams are used as a geochemical screen. 24 stream silt samples are collected (SSU01-24).
Geophysical ground measurements are conducted in 1993 by NGU.
Following observations are done, mainly along stream cuts:

- From 637799 7042830 to 637782 7042825: Greenschist with epidote nodules/lenses (from <1cm to 6-7cm size)(susceptibility 10-20K, occasionally up to 100-120K). Intercalated, up to few-dm thick felsic layers (contains mm-sized quartz eyes), with up to 160K, then with po-py-diss. 40cm thick felsic layer with cpy-diss. in the upper 5cm (5-25K), capped by 10cm thick chlorite schist (up to 130K). Sch: 175°/40°.
- 637762 7042920 and 20m downstream: Alternating (chloritic) greenschist (occasionally with weak py-diss., 50-80K) and felsic to intermediate layers (in places with weak po-diss.).
- 637770 7042918: 5cm thick layer of massive magnetite (15000-30000K, sample 400624) in light green felsic to intermediate tuff with mt-diss. Similar tuff 4m stratigraphically higher (up to 2800K), underlain by mixed mafic-felsic tuffs (5-90K).
- 6377487042937: Tiny outcrop of at least 30cm thick greenish, felsic to intermediate tuff with po-diss. (100-150K, sample 400625).
- 637726 7042953: Hosted in chloritic greenschist (40-60K), 10cm thick white quartz keratophyre (quartz-albite rock) with po(-cpy)-diss. (40-70K, sample 400626), underlain by 5cm thick marble.
- 637670 7042986: Dom. greenschist (40-140K) with felsic layers (5-10K). Sch: 195°/31°.
- 637621 7043011: Greenscist (40-50K).
- 637593 7043035: Greenschist (30K).
- 637496 7043019: 1m thick "magnetic", massive, felsic layer with up to 1mm sized blue-quartz eyes and weak po-diss. (200-1500K). Footwall: 2m thick schistose felsic tuff (0-10K), underlain by at least 15m thick greenschist (30-40K). Hangingwall: Dom. felsic tuff

with minor greenschist (5-10(-50)K). 25m upstream, another 1m thick "magnetic" felsic layer (300-500K), overlain by at least 10m thick mixed tuffs.

- 637489 7043136: Small outcrop of massive, finegrained amphibolite (80-90K).
- From 637604 7043354 to 637666 7043377: Mixed tuffs (0-20K).
- 637666 7043377: 10cm thick weakly rusty chlorite schist with po-diss. (up to 500K).
- 637700 7043409: Chloritic greenschist (40-90K). Scattered outcrops of greenschist downstream to:
- 637783 7043496: 4m thick light green felsic tuff (quartz-sericite schist) with approx. 5% po (400-1100K, sample 400628). Cm-thick bands are enriched to ca. 20% po, and contain traces of graphite. Chloritic greenschist (40-60K) above and below.
- 637819 7043490: 0.5m thick layer in chloritic greenschist contains po-diss. (100-400K, sample 400627).
- 637830 7043495: Felsic tuff.
- 637794 7043061: Low hill with exposed massive mafic flow, with footwall of greenschist with felsic layers.
- 637835 7043623: Vertical wall exposing 4-5m thick felsic to intermediate tuff with po-diss. (200-700K). Po is enriched to semimassive in few-mm thick layers. One band is fold-thickened to 6cm semimassive po (2000K, sample 400629); immediate wallrock is light quartz-feldspar-muscovite schist. Intercalated marble layers (less than 2cm thick) and –nodules/lenses (up to 50x20cm2). Sch: 172°/40°.
- 637788 7043565: Exposed 0.5m thick, white quartz keratophyre with po-cpy-diss.(sample 400630), where cpy is limited to the margins of up to 10cm thick quartz lenses.
- 637736 7042563: Chloritic greenschist to chlorite schist (with intercalated minor mm-cm-thick felsic layers) with few-mm-thick massive, finegrained magnetite-bands (2000-10000K).

Almåsen (Holtålen):

Some observations from a returntrip to Almåsen:
5 soil samples (AL01-05) were collected around the southermost anomaly pick, and 7 around the next to the north (AL06-12).
615720 6971436: Alternating mediumgrained, rel. light, foliated amphibolite and finegrained amphibolite, with minor intercalated quartz-rich mica schist. Sch: 220°/10°, while 10m to the north it is 225°/55°.
615726 6971478: Finegrained amphibol schist (mafic tuff) with 0.5m thick rusty layer, only traces of py. Sch: 170°-185°/33°.
Northwards from here, the area is covered.

Sept.16.2000.
Rune Wilberg

Addition to report by Sept. 16. 2000

Meråker area

Crew-Noranda

Conclusions and recommendations:

1. Husmannsberget (fig. 1)

The historical showings Anna, Duddu, and Ebba responds to the airborne geophysics. The small Gøsta showing and the Anna Zn-showing show no response. These latter two seem to occur in more or less same structural level, with py-disseminated greywacke exposed between them. The most interesting trend, which demands some follow-up, is a burried conductor approx. 100 m east of the known gabbro-contact-related showings.
In the cases where mineralization has been found away from the gabbros (the sediments are rarely exposed, contrary to the elevated gabbro bodies), like at the Anna Zn-showing and at the Duddu adit, they seem to be more Zn-rich than the Cu-dominated mineralizations along the gabbro-contact. This could meen that the Cu-pyrrhotitic, often brecciated, mineralizations rooted along the gabbro-contacts represent feeder-zones to more distal, Zn-rich, banded pyritic mineralizations. Both ore types occur at Anna and Duddu, with this spatial relation to gabbro (see 1998 rep.). This model favours the buried conductor, which is believed to be hosted in sediments away from known gabbro.
The two soil sample profiles show that this conductor has coinciding Zn(-Cu) geochemical anomaly. Poisoned drainage is also positive indicator related to this conductor (fig. 1). It was found a couple of shallow, regrown trenches in the overburden close to this conductor (fig. 1).
First step in the follow-up should be to dig up some info from the 1970`s ELKEM survey.

2. Fossvatnet North and South (fig. 2)

Since the ground north and south of Fossvatnet is heavily covered, soil- and stream geochem. are essential for upgrading the target(s). Geochem. was not conducted in the area north of Fossvatnet, and prospecting proved no mineralization. South of the lake, the positive fact is that we know that massive Sl-Cpy mineralization (assaying 12.3 % Zn and 2.3 % Cu) is intersected by a hydropower shaft. The dimensions are possibly small, though. A weak AEM pick shows up 60 m NNE of the shaft, with weak continuation southwards (possibly faulted, like the b-c-d conductor to the west); while the NGU ground geophysics give no response here.
The trend through b, c and d is tested with two soil profiles and two stream silt profiles, which gave slightly elevated Zn- and Cu-contents coinciding with the conductor. Since the recognitional geochem. gave some indication of mineralization, and with the conductor from the NGU survey in mind, systematic DOB sampling should be considered.

3A. Gåsvollfjellet North

No geochem. conducted. Graphite-related.

3B. Gåsvollfjellet South

The southern part of this trend is proved to be related to py-bearing graphite schist. The soil profile over the covered northern extension do not indicate any other reason for the anomaly; the slightly elevated Zn-contents occur up-slope, west of the conductor.

4. Svartåtjern NW

No geochem. conducted. Graphite-related.

5. Gåstjønna NW

Recce soil samples did not upgrade this target, which is believed to be graphitic phyllite with traces of sulfides.
The last mentioned 4 targets are hosted in the "Meråker Phyllite" in the Sulåmo Group, which seem to hold limited potential for massive base metal sulfides. Most of the AEM anomalies, if not all, are seen to be related to graphitic sediments.

6. Fjergen West (fig. 3)

The recce soil profile failed to upgrade. It could be considered to DOB-sample the swampy area around pick b and c, Although, the frequent sulfide mineralizations found in this area (disseminations bound to small gabbro lenses), genetically and sizewise, are discouraging. Two grab samples collected at the diggings assayed 1.3 % Cu.

7. Fjergen North (fig. 4)

The silt samples show no coinciding anomaly with the EM trend, but their reliability are questionable in this swampy area, and DOB-sampling should be considered, also covering the EM-anomaly with gossan to the SE (fig. 4). Check with NGU for ground geophysics from 1993.

8. Funnsjøen (fig. 5)

This anomaly should be left with a negative conclusion, based on the combined prospecting and geochemical (stream sed.) efforts. It is believed that the entire 1.5 km long conductive trend is caused by a 4-5 m thick, po-disseminated, felsic to intermediate tuff, with "no" base metals (up to 287 ppm Cu and 84 ppm Zn). The susceptibility in this zone, and in one, or more massive magnetite-layers in the footwall, can explain the mag-anomalies coinciding with the AEM trend. Minor sulfides are seen to be dispersed in a thick volcanic unit, above and below the main conductive trend; mainly as weak po-disseminated tuff layers and a few, cm-thin cpy-disseminated felsic tuff-layers.

None of the sampled sulfide-disseminations assayd more than 0.1 % combined base metals. Neither do the stream silt assays support further follow-up.

30.11.2000
Rune Wilberg

Encl 3

Husmannsberget

Memorandum on ELKEM`s exploration work 1966-71.

Study of reports from ELKEM`s exploration work around Husmannsberget in the period 1966-71 has added valuable and encouraging information to the area. We deal with considerable volumes of low-grade base-metal-contained sediments surrounding the numerous historical, massive-sulfide workings (Wilberg & Røsholt 1998). This is not mentioned in the recent work done by NGU in 1992 (NGU rep. no 93.001), nor taken into account in their conclusion, which assumes the massive sulfide occurrences in the area to be very small. These known occurrences, which are linked to generally small-volume gabbro sills, seem indeed to have limited potential for large tonnage, but the knowledge about the extensive halo of dispersed copper and zinc shed new light on the Husmannsberget claims.

ELKEM`s work included airborne geophysics, stream sediment sampling, ground geophysics (IP, Mise-a-la-masse, Slingram, Minigun, and Mag), partly conducted by themselves and partly by NGU as contractor, trenching, soil sampling and diamond drilling of 9 (?) holes, plus 2 holes at anomaly EA SSW of Husmannsberget.

1965?: Airborne geophysics, stream sediment sampling

1966: Slingram, Minigun

1967: IP, trenching, drilling

1968: Slingram, Minigun, Mag, IP, Mise-a-la-masse, trenching

1969: Mise-a-la-masse, Minigun, soil samples (Berget øst), trenching

1970: Slingram, Minigun, drilling

1971: Slingram, Minigun, Mag (EA anomaly), soil samples (anomaly P)

Available reports:

NGU rep. no 788 (1967): geophysics

NGU rep. no 839 (1968): geophysics

NGU rep. no 915 (1969): geophysics

Bergvesenet rep. no BV 1367: Collection of ELKEM exploration reports 1966-74

Bergvesenet rep. no BV 1366: Collection of ELKEM geological field reports 1920-74

The available information is (so far) quite defective, specially concerning the drilling, where only the results of analyzed sections were available (table, encl. 1), and no logs or info about depth or inclination. Hopefully this could be possible to find, and maybe even the cores are stored(?). Yes !

Information from the available maps and reports are compiled on an enclosed map. Previous work has operated in various, overlapping grids and coordinate systems: Plot of trenches and drill holes in one X-Y grid, geophysical maps in other X-Y grids

(subareas with different grid orientation), and reference to a N-S grid concerning trenches and anomalies in the outskirts.

As the IP-map shows, it is a 400-500 m wide anomaly belt consisting of several separate anomalies running through the entire grid. A general picture is a system of 4-5 more or less parallel trends. The IP level is high over the gabbro sills at Husmannsberget and Kollen to the SSE. Between these gabbros a sediment-related anomaly (anomaly E) runs NE-wards from south of the Ebba prospect, where it is trenched (see list of trenches below). It becomes wider and splits up into a curved pattern northwards.

The most distinct trend (anomaly F) extends from 900X 875Y to 1350X 1075Y and further estwards. This is coincident with the AEM anomaly that attracted our attention, where we conducted reconnaissance soil sampling autumn 2000 (Wilberg 2000). This conductor is drill-tested with DDH 1, 2, 7 (and 10?), see below for results. DDH 6 intersects mineralization at 80.90-98.00. This mineralization is assumed to crop out in the trenches I, II and IV, which fits with the dip measured in the trenches. An associated conductivity anomaly coincides partly with an IP anomaly. DDH 6 is assumed to be too short to intersect the anomaly F mineralization (no analysed sections are given in the assay table for relevant depth, 130 m +).

As mentioned, it is geophysical anomalies over the gabbros. At Husmannsberget, the strong anomaly is probably related to Po-dissemination bound to a tectonic zone (NGU 839). Microscopy study of the anomaly D-gabbro at Kollen states that it is a quartz-hornblende gabbro (BV 1367). It is tectonized, and sulfides (Sl-Po-Py-Cpy-diss.) are deposited in zones of weakness, partly replacing plagioclas and amphibol. (The information that it has ophititc texture and is deeply weathered resembles a small gabbro body near Storskarven in the Røros area.)

Calculated weighted average for Cu and Zn in the drill holes:

DDH 1:

18.50 m (5.70-24.20) 0.28 % Cu and 0.74 % Zn

includes 3.50 m (19.00-22.50) 3.17 % Zn

DDH 2:

1.15 m (3.00-4.15) 0.23 % Cu and 0.1 % Zn

16.20 m (14.00-30.20) 0.21 % Cu and 0.24 % Zn

DDH 3:

20.20 m (29.80-50.00) 0.46 % Cu and 0.22 % Zn

DDH 4:

6.20 m (20.00-26.20) 0.61 % Cu and 0.81 % Zn

3.70 m (38.50-42.20) 0.10 % Cu and 0.42 % Zn

DDH 6:

17.10 m (80.90-98.00) 0.35 % Cu and 0.29 % Zn

DDH 7:

3.70 m (4.60-8.30) 0.18 % Cu and 0.27 % Zn

7.80 m (18.20-26.00) 0.22 % Cu and 0.33 % Zn

DDH 8:

10.00 m (20.00-30.00) 0.24 % Cu and 0.21 % Zn

2.00 m (54.00-56.00) 0.32 % Cu and 0.2 % Zn

Results from trenching 1969 (for location, see compilation map):

Trench I: 6 m long, 1.5 m thick overburden. Greywacke. Strike/dip: 0/25 W. 25 cm thick layer containing 5.8 % Cu and 6.0 % Zn. Trench suggested continued towards west, because of 1.08 % Cu in the westernmost channel sample.

Trench II: 8 m long, 2.5 m cover. Greywacke. 0/20 W. 35 cm thick layer grades 4.4 % Cu and 2.5 % Zn, and sulfide diss. above. Should be extended westwards.

Trench IV: 4 m long, 2.5 m cover. Greywacke. 10/30 W. Cpy-Sl-diss. in entire section (0.1-0.2 % Zn and up to 0.4 % Cu).

Trench VF: 6 m long, 2 m cover. Greywacke. 20/50 W. 2 diss. zones: South in the trench: 30-40 cm thick Py-diss. North: 1.10 m thickness grading 0.25 % Cu and 0.1 % Zn.

Trench VIE: 15 m long, 0.5-1 m cover. Greywacke. Entire length is sulfide-diss. Enriched in the south to 1.4 % Cu over 1.40 m horisontal width. Northern part: 5.20 m (probably horisontal width?) with average 1.35 % Zn. Trench should have been extended towards the north.

Trench VIIE: 5 m long, 2-2.5 m cover. Greywacke. 60/25 NW. Weak Po-diss. Up to 0.2 % Zn (40 cm thick section). Should have been extended in both directions.

Trench VIIIE: 5 m long, 2 m cover. Greywacke. 60/30 NW. Weak Py-diss. in whole section. 0.14 % Cu and 0.2 % Zn in 50 cm thick section in southern end; also Sl-diss. above.

Trench IXE: 6 m long, 2.5 m cover. Greywacke. 40/40 NW. 0.82 % Cu and 0.1 % Zn over 40 cm thickness in northern end. Weak Sl-diss. (0.1-0.2 %) below. Should have been extended northwards.

Trench XC: 5 m long, 1.5 m cover. Contact between greywacke and the gabbroic rock in "Kollen". 0.1-0.2 % Zn.

Trench XIC: Cancelled after 4 m thick swamp.

Trench XIID: 8 m long, 0.5 m cover. Entirely gabbro with Py-Po-diss.

Trench XIIID: 6 m long, 0.5 m cover. Entirely gabbro with Py-Po-diss.

Trench XIVD: 5 m long, 1.5 m cover. Greywacke. No mineralization, but malachite seen.

Results from trenching 1968 (for location, see compilation map):

Trench A: 0/32 W. Greywacke with weak Py-diss. Defective trench. Anomaly not explained.

Trench B: Trenching over Ebba mineralization.

Trench C: Greywacke with traces of Py. Anomaly not explained.

Trench D: 1.25 m cover. Gabbroic rock with ofitic texture and Sl-Po-Py-Cpy-diss. Anomaly explained.

Trench E: 50-80 cm cover. 50/24 NW. Greywacke with weak Py-Cpy-Po-diss. Anomaly explained.

Trench F: Greywacke with quartz bands and Py-Cpy-diss. Anomaly explained.

Trench G: Given up after 2.5 m overburden.

Trench a: 70-80 cm cover. Finegrained gabbro with Po-diss.

Trench b: Fine- to mediumgrained gabbro with weak Po-diss.

Trench c: 1 m cover. Finegrained gabbro with weak Po-diss.

Trench d: Too thick overburden; given up.

Trench e: Small historical digging: 8 cm thick massive Sl-band in phyllite.

To roughly indicate the extent of mineralization intersected by the 7 drill holes, following calculation gives an estimate of tonnage and grade: Total meters intersecting mineralization (that means sections that are analyzed, see encl. 1) are 106.70 m, that means an average of 15.30 m/hole. Calculated down to 200 m down-dip over a strike length of 650 m, and specific gravity 2.7, gives approx. 5.5 mill. tons with weighted average 0.36 % Cu and 0.38 % Zn.

With a probable strike extension of at least 600 m south of DDH 1, plus the NE-ern part, at least a similar tonnage can be added. That means in magnitude of totally 11 mill. tons. The fact that it is more than one sulfide-impregnated horizon, means that this estimate is modest. The dispersed sulfides might as well continue to the Knoll prospects, which is a distance of 1 km NE-wards from the north end of the grid.

Even though this is not economic grades, the ELKEM survey has defined a thick succession of Zn-Cu-impregnated greywacke. This considerable base-metal-contained volume could be indicative of something, which calls for attention. F. ex. it could be a base metal halo related to a deep-seated massive sulfide deposit.

Other interesting targets in the area Husmannsberget – Fossvatnet are mentioned in the exploration reports (BV 1367). Exact locations are not yet determined, because it is referred to a N-S coordinate system, and grid map is not included in the reports.

Berget øst is located "by a dam, at the ropeway line, close to 1500X 700Y in the 1967-geophysical grid", which is the NE-corner of the grid at Husmannsberget (plotted on the enclosed map). Here, a small historical prospect was detected, which exposed a 8 cm thick band of massive sphalerite. Work in this area was initiated by a stream sediment anomaly (Zn), and has included Slingram, Minigun, Mag, and soil sampling. A geophysical anomaly (low conductivity, interpreted depth 30-50 m) with coinciding geochemical anomaly was detected at 800N 550E. Due to thick swamp no trenching has been conducted.

Anomaly EA is located about 550 m SSW of the highest point at Husmannsberget, just east of Vatnelva, covered by 4-5 m thick swamp. An approx. 150 m long conductor was drilltested in 1970 (2 holes totally 66m). Shallow-level intersections showed

"rich, thin veins of Cpy at several levels". A. Haugen, supervisor of the work, still consider this anomaly interesting (pers. com.).

Anomaly P is located west of Vatnelva and about 1 km south of Fossvatnet. Based on a single-line AEM anomaly and Zn-Pb anomalies in stream sediments, ground EM was conducted in 1971. The conductor is followed over a strike length of 1300 m in heavily covered terrain. 166 soil samples were collected. Assays showed elevated values (up to 0.11 % Cu) associated with the conductor, which has not been drilled or trenched. This conductor is possibly the AEM-anomaly related to the massive Zn-Cu mineralization intersected by the hydropower shaft (Wilberg 2000), which however gave no response on NGU`s VLF survey in 1992 (Dalsegg & Lauritsen 1993).

"About 300 m west of the above mentioned conductor, geophysics are conducted over a short conductive zone. Mag. measurements gave no response over the main zone, but showed a mag high at one profile over the eastern parallel-zone. The conductor(s) is assumed to be hosted in the Sulåmo Group amphibolite (Turifoss Greenstone), possibly at the same level as the Sagskjerp prospect to the north". This must be the AEM conductor followed-up by Crew/Noranda by soil- and stream sediment sampling autumn 2000 (Wilberg 2000), except the distance to anomaly P was ecpected to be more than 300 m. The 1992 NGU survey proved this conductor to be rather extensive, and in fact consisting of two adjacent, parallel conductors.

December 2000

Rune Wilberg

PRØVEUTTAK FRA DIAMANTBORKJERNER, MERÅKER 1/6

			S	Fe	Cu	Zn
DBH 6	80,90	– 82,45	5,1	11,9	2,60	0,7
	82,45	– 84,00	0,3	6,9	0,14	0,2
	84,00	– 85,00	0,1	5,6	0,05	0,2
	85,00	– 87,00	0,5	6,5	0,13	0,3
	87,00	– 90,00	0,1	6,5	0,16	0,2
	90,00	– 92,00	0,1	5,7	0,18	0,1
	92,00	– 94,00	0,1	5,9	0,12	0,1
	94,00	– 95,50	0,1	4,8	0,12	0,1
	95,50	– 98,00	0,1	5,2	0,06	0,3
DBH X.	4,60	– 7,00	0,8	9,7	0,21	0,3
	7,00	– 8,30	1,0	7,5	0,07	0,2
	19,20	– 20,00	1,4	8,8	0,11	0,5
	20,00	– 21,50	2,0	9,1	0,45	0,2
	21,50	– 23,75	0,05	4,2	0,06	0,2
	23,75	– 26,00	<0,05	9,3	0,30	0,3
DBH 8	20,00	– 22,00	0,05	7,5	0,13	0,2
	22,00	– 24,00	0,22	7,3	0,22	0,3
	24,00	– 26,00	0,28	7,5	0,30	0,2
	26,00	– 28,30	0,05	6,1	0,11	0,1
	28,30	– 30,00	<0,05	7,3	0,12	0,3
	54,00	– 56,00	1,2	5,1	0,32	0,2

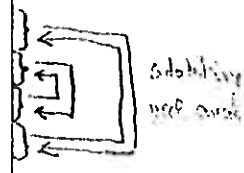
Det vil ikke komme flere borkjerne-analyser på materialet enn det jeg.

5.10.67. Hald

BV 1367 / 10

PRØVETTAK FRA DIAMANTBORKJERNER, MERÅKER 1967.

		S	Fe	Cu	Zn	
DBH 1:	5.70 - 7.70	1.1	6.8	0.40	0.2	
	7.70 - 9.00	2.3	7.1	0.15	0.1	
	9.00 - 11.00	4.5	8.3	0.10	0.3	
	11.00 - 13.00	6.0	9.4	0.12	0.2	
	13.00 - 15.20	3.4	7.4	0.28	0.1	
	15.20 - 16.50	0.5	6.2	0.41	0.1	
	16.50 - 18.00	0.6	6.8	0.52	0.2	
	18.00 - 19.00	1.3	6.6	0.69	0.1	
	19.00 - 21.00	7.5	9.7	0.21	2.7	
	21.00 - 22.50	15.4	15.3	0.55	3.8	
	22.50 - 24.20	0.1	3.4	0.02	0.2	
DBH 2:	13.00 - 14.15	0.4	6.4	0.23	0.1	
	14.00 - 16.00	1.9	5.9	0.15	0.2	
	16.00 - 18.00	6.1	8.3	0.09	0.3	
	18.00 - 20.00	1.0	6.9	0.14	0.2	
	20.00 - 22.00	0.9	7.3	0.40	0.1	
	22.00 - 24.30	3.0	7.1	0.92	0.2	
	24.30 - 26.00	2.8	7.2	0.09	0.3	
	26.00 - 28.00	2.7	7.0	0.05	0.3	
	28.00 - 30.20	4.6	7.6	0.23	0.3	
DBH 3:	29.80 - 31.00	1.0	7.1	0.67	0.2	
	31.00 - 33.00	3.2	7.0	0.60	0.3	
	33.00 - 34.90	1.4	5.4	0.08	0.2	
	34.90 - 37.00	0.4	6.9	0.39	0.1	
	37.00 - 39.00	0.7	8.1	0.25	0.1	
	39.00 - 41.00	0.4	7.3	0.28	0.1	
	41.00 - 43.10	0.9	7.5	0.46	0.3	
	43.10 - 44.10	1.3	13.1	0.92	0.4	
	44.10 - 46.00	1.0	9.1	0.81	0.5	
	46.00 - 48.00	5.2	10.9	0.66	0.2	
	48.00 - 50.00	2.6	8.9	0.18	0.1	
Prøve tatt tidlig sommeren 67.	43,1 - 44,1	1.4	11.1	1.22	0.8	43,10 - 44,10 midlå Cu to 1,2 m = 0,2
DBH 4:	20.00 - 22.00	1.4	9.9	0.35	0.4	
	22.00 - 23.55	2.6	11.5	0.45	0.2	
	23.55 - 25.40	10.7	14.3	0.60	0.9	
	25.40 - 26.20	16.7	24.8	2.36	2.8	
	38.00 - 40.00	1.8	5.4	0.04	0.3	
	40.00 - 42.20	1.3	5.2	0.13	0.5	



A/S = 0,007 %

AS = 0,005 %

Røros Rock Assays 2001
corrected results

Sampl. Id.	Loc	UTM E	UTM N	Description	Au	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni
Sch. Code					FA301	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
An. Unit					ppb	ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm
Det. Lim.					1	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01	1	1
401237	Folldalen	624902	6969700	finegr. amphibolite with py(-po)-diss. + traces of cpy	5	<0.5	0.03	1.31	2.11	0.16	1.61	0.47	8.8	0.21	406	137	377	7.76	44	93
401238	Folldalen	624902	6969700	finegr., dark grey graphitic scist with py(-po-cpy)-bands	21	<0.5	0.13	0.65	1.14	0.1	0.31	0.85	6.4	0.08	110	42	337	3.63	22	19
401239	Folldalen	625303	6969897	amphibole-mica schist with po-bands, traces of cpy	10	<0.5	0.04	1.3	1.34	0.08	0.05	0.38	1.7	0.13	66	133	311	10.8	51	78
401240	Folldalen	625302	6969880	felsic volcanic with py-diss.	11	<0.5	0.05	0.57	0.66	0.08	0.22	0.55	5.1	0.13	65	93	211	4.74	21	15
401241	Folldalen	624858	6970308	dark grey, silicyfied phyllitic mica schist with po(-cpy)-diss.	26	<0.5	0.04	1.37	2.09	0.07	0.64	0.37	9	0.21	190	111	297	6.37	37	72
401242	Bønsbud	622149	6969899	finegr. amphibolite with semimassive po(-cpy) min.	20	1.3	0.02	0.12	0.19	0.03	0.02	0.54	<0.5	0.02	18	19	156	26	746	181
401243	Bønsbud	622142	6969900	amphibolite with semimassive mt	4	1.4	0.06	0.09	0.29	0.02	0.05	0.66	<0.5	0.04	25	32	272	13.9	18	3
401244	Killingdal N	626017	6966430	blackschist with semimassive po(-cpy) min.	38	3.1	<0.01	1.39	1.98	0.17	0.26	0.45	4.1	0.06	374	79	876	22.1	83	285
401245	Killingdal N	626017	6966430	blackschist with semimassive po-cpy min.	26	2.1	<0.01	1.32	1.7	0.03	0.41	0.07	2	0.04	109	50	617	22.5	74	329
401246	Killingdal N	625683	6966338	light, intermediate tuffitic schist with py(-cpy)-diss. (boulder)	10	<0.5	0.02	1.36	1.47	0.1	0.07	0.24	6.5	0.2	141	159	197	8.78	32	11
401247	Stillbankan	625474	6973222	amphibolite with py-diss.	19	<0.5	0.18	0.26	1	0.04	0.15	1.39	1.5	0.06	20	29	406	4.79	11	6
399506	Væråsvollen	639190	7024874	chlorite schist with cpy-py(-po)-diss.	100	<0.5	<0.01	3.49	3.29	0.05	0.08	0.12	0.9	0.05	51	119	825	8.35	24	11
399507	Væråsvollen	639190	7024874	chlorite schist with band of semimassive sl-cpy-min.	27	<0.5	<0.01	4.53	4.24	0.06	0.02	0.16	2	0.07	65	140	1030	7.59	20	21
399508	Husmannsb	637998	7023892	massive sl(-py-cpy-ga)-min.	189	<0.5	<0.01	0.13	0.15	<0.01	0.08	0.19	<0.5	0.01	8	36	1000	10.2	14	9
399509	Husmannsb	637663	7023402	qtz-feldspar-mica sch. with py(-cpy)-diss.	10	<0.5	<0.01	1.99	2.36	0.05	0.1	0.09	1.3	0.02	33	152	768	6.65	11	21
399510	Husmannsb	637486	7023583	finegr. gabbro with po(-cpy)-diss.	6	<0.5	0.01	1.45	1.47	0.12	<0.01	0.5	0.9	0.13	43	65	434	3.89	36	42
400751	Tørvbekken	616154	6955259	chlorite-mica schist with cpy-stringers	136	<0.5	<0.01	2.68	3.13	0.06	0.26	0.09	6.5	0.05	91	159	651	10.3	29	36
400752	Tørvbekken	616324	6955055	chlorite-amphibole schist and qtz-feldsp-amphibolite with cpy-diss. (floats)	81	<0.5	0.05	0.49	0.87	0.06	0.02	0.49	2.9	0.02	39	64	183	4.81	34	18
400753	Lossius	634510	6938808	qtz exhalite with massive, coarsegr., cataclastic py (dump spl.)	370	1	<0.01	0.17	0.18	<0.01	0.01	<0.01	<0.5	0.01	26	118	89	26	363	58
400754	Lossius	634510	6938808	massive fine - medgr. py(-ga-sl-cpy)-min. (dump spl.)	300	1	<0.01	1.22	1.13	0.01	0.01	0.02	6.2	<0.01	97	145	395	24.1	68	139
400755	Lossius	634510	6938808	qtz exhalite with semimassive (-diss.) py-ga-sl-cpy-min. (dump spl.)	350	0.6	<0.01	0.22	0.23	<0.01	0.03	<0.01	<0.5	<0.01	19	144	129	18.1	136	107
400756	Lossius	634510	6938808	massive py-ga-min. in qtz with wallrock (greenschist) (dump spl.)	356	<0.5	<0.01	1.39	1.46	0.02	0.06	0.05	4.7	0.05	62	126	516	11.1	90	38
400757	Lossius	634510	6938808	qtz exhalite with semimassive py-ga-sl-min. (dump spl.)	240	<0.5	<0.01	1.01	1.18	0.02	0.19	0.08	3	0.07	42	135	372	7.32	40	46
400758	Lossius	634510	6938808	hydrothermal qtz vein with py(-ga)-min.	54	<0.5	<0.01	0.01	0.03	<0.01	0.02	<0.01	<0.5	<0.01	7	99	25	11.1	49	28
400759	Lossius	634491	6938817	semimassive-massive py-ga-sl-cpy-min. in qtz exhalite	316	0.7	<0.01	0.42	0.44	<0.01	0.05	<0.01	<0.5	<0.01	31	147	183	20.9	110	132
400760	Lossius	634455	6938819	massive po-cpy-sl-ga-min.	50	1.3	<0.01	0.1	0.09	<0.01	<0.01	<0.01	<0.5	<0.01	23	41	134	28.1	334	1740
400761	Sara	633777	6939167	semimassive po-cpy-sl-min. (dump spl.)	35	1.1	<0.01	1.35	1.5	0.01	0.02	0.04	7.9	0.03	92	113	629	24.9	196	169
400762	Sara	633734	6939145	semimassive po-sl-cpy-min. in qtz matrix (dump spl.)	21	1	<0.01	0.3	0.34	<0.01	0.01	<0.01	<0.5	<0.01	24	51	290	22.9	245	164
400763	Svartbekken	625614	6964368	graphitic phyllite with po-diss.	10	0.5	0.01	1.11	1.24	0.03	0.46	0.05	1.9	0.02	32	150	154	3.43	20	145
400764	Killingdal N	625603	6966509	graphitic phyllite with grt, qtz, amph + diss.-semimassive py-cpy min. (loc. float	4	0.6	<0.01	1.44	2.62	0.19	0.22	0.41	1.4	0.04	297	131	975	9.27	50	130
400765	Killingdal N	625648	6966464	coarsegr. amphibolite with qtz and cpy-py-diss. (loc. floats)	15	<0.5	0.14	0.5	1.19	0.15	0.06	2.31	5.4	0.05	109	89	350	5.23	46	11
400766	Killingdal N	625849	6966362	phyllite with semimassive py-cpy-min. (loc. floats)	4	0.8	<0.01	1.43	2.58	0.15	0.07	0.37	3.1	0.02	188	99	1030	13.1	82	276
400767	Gammelgh.	642935	6992912	chlorite-mica schist, carbonate-rich, with py-cpy-sl-diss.	81	1.2	<0.01	0.23	0.3	0.02	0.04	0.05	<0.5	<0.01	47	133	114	26.6	52	18
400768	Måltoppen	622626	7003783	massive, finegr. py	55	0.5	<0.01	0.16	0.26	0.02	0.05	0.04	<0.5	<0.01	25	88	104	15.1	41	29
400769	Måltoppen	622626	7003783	felsic volcanic / qtz "exhalite" with py-po-sl-cpy-diss.	102	0.8	<0.01	0.04	0.05	<0.01	0.02	1.97	<0.5	<0.01	20	32	2560	21.6	116	138
400770	Melshognastu	624750	7004550	massive, finegr. sl with pyxx and qtz keratophyre inclusions	392	<0.5	<0.01	1.7	2.22	0.03	0.06	0.1	4.7	0.01	92	185	418	13.1	221	112
400771	Melshognast	624750	7004550	massive, finegr. sl(-py)-min.	153	0.8	<0.01	0.05	0.09	0.03	0.03	0.74	<0.5	<0.01	21	22	3070	20.2	25	141
400772	Melshognast	624750	7004550	massive, finegr. sl(-py)-min. with qtz keratophyre incl.	262	0.5	<0.01	0.01	0.11	<0.01	<0.01	0.98	<0.5	<0.01	11	29	2580	17.5	16	134
400773	Melshognast	624750	7004550	massive medgr. sl	230	<0.5	<0.01	<0.01	0.04	<0.01	<0.01	0.02	<0.5	<0.01	3	24	2390	7.04	4	18
400774	Melshognast	624808	7004589	qtz exhalite with diss.-semimassive py(-sl)-min.	35	<0.5	<0.01	0.01	0.12	<0.01	0.06	0.01	<0.5	<0.01	8	100	112	12.6	6	3
400775	Melshognast	624681	7004485	graphite schist with cpy-py-diss. (float)	187	0.8	<0.01	0.22	0.65	0.75	0.05	2.06	1.6	0.03	378	94	206	12.6	8	124
400776	Melshognast	624883	7004307	silicyfied graphitic sed with semimass bands of po-py(-cpy)-min.	47	1	0.04	0.02	0.59	0.13	0.02	1.05	<0.5	0.07	96	70	533	13.2	57	155
400777	Melshognast	624750	7004550	graphite-muscovite schist with sulfide-diss. (dump spl.)	107	0.6	0.02	0.1	0.34	0.02	0.12	0.09	<0.5	<0.01	29	80	145	14.3	13	129
400778	Melshognast	624222	7004068	silicyfied graphite schist with semimassive po	89	2.3	<0.01	0.43	0.75	0.15	0.03	0.81	<0.5	0.07	797	118	430	26.6	76	307

Encl. 4

Roros Rock Assays 2001
corrected results

Sampl. Id.	Cu	Zn	Pb	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Bi	Ll	Cu	Pb	Zn
Sch. Code	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICAY50	ICAY50	ICAY50
An. Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Det. Lim.	0.5	0.5	2	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	5	1	0.01	0.01	0.01
401237	350	130	17	221	9.9	14.7	8.8	13	0.3	<1	<10	<5	404	16.2	<10	<5	19	n.a.	n.a.	n.a.
401238	66.8	47.8	24	<3	6.5	7.7	4.1	2	<0.2	<1	<10	<5	82	3.1	<10	<5	6	n.a.	n.a.	n.a.
401239	248	40	10	<3	3.2	4.1	2.9	4	0.3	<1	<10	<5	11	<0.5	<10	<5	8	n.a.	n.a.	n.a.
401240	25.5	27	8	<3	4.1	7.8	7.5	8	0.3	<1	<10	<5	45	7.2	<10	<5	5	n.a.	n.a.	n.a.
401241	175	55.9	12	<3	5.3	11.2	4.9	4	0.4	<1	<10	<5	107	12.8	<10	<5	28	n.a.	n.a.	n.a.
401242	3070	4.3	31	<3	6.1	1.4	8.3	<1	1.5	6	<10	<5	3	0.5	<10	*INF	<1	n.a.	n.a.	n.a.
401243	158	13.4	16	<3	5.9	3.7	11	<1	0.6	<1	<10	<5	11	<0.5	<10	9	1	n.a.	n.a.	n.a.
401244	988	1070	134	<3	11.5	22.3	19.6	30	1.4	10	<10	<5	23	23.2	<10	<5	22	n.a.	n.a.	n.a.
401245	1100	739	99	<3	3.5	10.7	17.2	48	1.9	7	<10	<5	32	<0.5	<10	*INF	19	n.a.	n.a.	n.a.
401246	41.9	70.4	16	<3	4.9	3	4.9	21	0.2	<1	<10	<5	43	<0.5	<10	<5	10	n.a.	n.a.	n.a.
401247	23.7	21.8	3	<3	6.8	4.9	7.3	<1	<0.2	<1	<10	<5	22	24.2	<10	<5	<1	n.a.	n.a.	n.a.
399506	16560	4450	12	<3	3.4	1.2	5.3	22	>10	37	<10	<5	19	<0.5	<10	*INF	9	1.74	n.a.	n.a.
399507	3060	9830	7	<3	5.1	2.9	5.1	12	2.7	82	<10	<5	7	3.6	<10	*INF	12	n.a.	n.a.	n.a.
399508	607	>10000	>10000	<3	4.2	1.2	4.2	117	>10	792	<10	6	8	<0.5	<10	<5	<1	n.a.	4.38	38.4
399509	1350	1740	181	20	1.1	1.8	7.4	3	1.1	3	<10	<5	48	<0.5	<10	*INF	5	n.a.	n.a.	n.a.
399510	314	110	11	<3	3.7	4	1.4	<1	<0.2	<1	<10	<5	<1	<0.5	<10	<5	3	n.a.	n.a.	n.a.
400751	>10000	691	53	<3	5	7	7.8	22	>10	2	<10	<5	152	13	<10	*INF	8	4.25	n.a.	n.a.
400752	23110	256	10	<3	17.9	5	3.1	14	5.2	1	<10	<5	4	6	<10	*INF	4	2.35	n.a.	n.a.
400753	8720	1790	842	487	<0.5	0.6	6.5	<1	>10	9	<10	8	6	<0.5	<10	*INF	1	n.a.	n.a.	n.a.
400754	508	>10000	>10000	324	0.5	0.9	7	<1	>10	39	<10	9	3	<0.5	<10	24	7	n.a.	1.44	1.67
400755	2460	>10000	>10000	385	<0.5	0.6	3.8	<1	>10	58	<10	16	10	<0.5	<10	*INF	2	n.a.	1.77	2.57
400756	3960	>10000	>10000	96	0.7	0.8	3.5	<1	>10	47	<10	14	5	<0.5	<10	*INF	5	n.a.	2.78	1.97
400757	3850	6080	4410	212	1.1	2	2.9	<1	>10	14	<10	<5	22	<0.5	<10	*INF	4	n.a.	n.a.	n.a.
400758	155	166	4660	170	<0.5	<0.5	2.5	<1	6.9	<1	<10	8	8	<0.5	<10	13	<1	n.a.	n.a.	n.a.
400759	2820	>10000	>10000	399	<0.5	1	5.3	<1	>10	57	<10	13	17	<0.5	<10	*INF	4	n.a.	1.6	2.52
400760	12000	>10000	>10000	<3	<0.5	<0.5	6.3	<1	>10	69	<10	25	<1	<0.5	<10	*INF	<1	1.19	5.3	2.69
400761	24260	4740	5040	<3	<0.5	1.4	6.2	<1	>10	21	<10	<5	4	<0.5	<10	*INF	5	2.36	n.a.	n.a.
400762	25210	>10000	2170	<3	<0.5	<0.5	5.5	<1	>10	198	<10	<5	4	<0.5	<10	*INF	1	2.5	n.a.	6.01
400763	269	316	107	<3	2.5	7.7	7.1	6	0.6	<1	<10	<5	37	12.6	<10	<5	17	n.a.	n.a.	n.a.
400764	425	458	169	<3	8.9	5.9	5.6	23	1	<1	<10	<5	42	13	<10	<5	16	n.a.	n.a.	n.a.
400765	487	47.6	15	<3	25	10.2	2.9	1	0.4	<1	<10	<5	11	2.3	<10	<5	4	n.a.	n.a.	n.a.
400766	776	674	37	<3	10.2	10.9	12.5	14	1.4	2	<10	<5	8	30.5	<10	<5	19	n.a.	n.a.	n.a.
400767	560	391	43	<3	1	3.3	12.8	123	2.3	6	<10	<5	2	<0.5	<10	27	2	n.a.	n.a.	n.a.
400768	2370	8380	7310	<3	0.8	2.4	5.4	2	>10	141	<10	<5	1	<0.5	<10	*INF	2	n.a.	n.a.	n.a.
400769	1600	>10000	236	131	6.6	0.5	6	13	>10	907	<10	<5	<1	<0.5	<10	*INF	<1	n.a.	n.a.	21.7
400770	30830	1150	57	<3	1.2	1.2	2.4	16	>10	4	<10	<5	2	<0.5	<10	*INF	13	3.14	n.a.	n.a.
400771	1220	>10000	487	69	2.4	1.2	5.9	22	>10	>1000	11	<5	<1	<0.5	<10	*INF	<1	n.a.	n.a.	25.8
400772	1960	>10000	64	47	4	<0.5	3.9	4	>10	972	<10	<5	<1	<0.5	<10	*INF	<1	n.a.	n.a.	25
400773	220	>10000	175	15	<0.5	<0.5	1.5	<1	9.5	>1000	21	<5	<1	<0.5	<10	<5	<1	n.a.	n.a.	39.6
400774	321	>10000	105	80	1	0.9	19.1	2	4.1	190	<10	<5	17	<0.5	<10	12	<1	n.a.	n.a.	4.56
400775	1440	1050	977	46	16.6	52.6	18	104	>10	7	<10	31	4	0.6	<10	*INF	4	n.a.	n.a.	n.a.
400776	398	208	61	93	34.1	16	9.6	36	1.5	2	<10	<5	2	6.9	<10	<5	<1	n.a.	n.a.	n.a.
400777	1720	830	614	<3	4.2	3.9	20.6	27	>10	3	<10	<5	16	<0.5	<10	*INF	2	n.a.	n.a.	n.a.
400778	582	979	111	<3	3.6	12.2	14.3	84	4.5	17	<10	<5	2	<0.5	<10	14	7	n.a.	n.a.	n.a.

Results Auger sediment samples Meraker 2000

Sample Ident	UTM E	UTM N	Description	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co
Scheme Code				ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Analysis Unit				ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm
Detection Limit				0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01	1
AN 01 Terg. 86	637695	7023794	light grey+brown silt	-0.5	-0.01	0.22	0.54	0.02	0.03	0.07	0.8	0.09	20	21	53	0.91	2
AN 02	637720	7023793	brown+light grey silt	-0.5	-0.01	0.22	0.65	-0.01	0.02	0.04	0.8	0.11	18	17	50	1.03	2
AN 03	637747	7023791	light greybrown silt	-0.5	-0.01	0.51	0.99	0.02	0.01	0.09	1.2	0.09	32	37	722	1.72	7
AN 04	637778	7023792	grey silt	-0.5	-0.01	0.32	0.54	0.04	0.04	0.16	0.7	0.06	16	75	98	0.88	4
AN 05	637803	7023796	brownish grey silt	-0.5	-0.01	0.34	0.6	0.02	0.02	0.09	0.6	0.08	18	16	59	0.93	3
AN 06	637828	7023794	light grey+redbrown silt	-0.5	-0.01	0.16	0.44	-0.01	0.02	0.03	-0.5	0.09	20	11	47	1.19	3
AN 07	637851	7023792	grey silt	-0.5	-0.01	0.35	0.54	0.01	0.02	0.08	0.8	0.13	27	18	56	0.93	4
AN 08	637876	7023790	brown silt	-0.5	-0.01	0.51	0.92	0.02	0.05	0.16	1.3	0.1	28	24	114	1.69	5
AN 09	637898	7023793	grey silt and sand	-0.5	-0.01	0.08	0.15	-0.01	0.01	0.04	-0.5	0.12	19	7	19	0.27	-1
AN 10	637671	7023792	grey+green mica-chl-rich silt (sampl. Impossible at 637650)	-0.5	0.01	0.78	1.27	0.01	0.16	0.2	1.7	0.18	53	63	148	1.8	10
AN 11	637625	7023793	dark brown silt/soil	-0.5	-0.01	0.79	1.15	0.02	0.21	0.07	1.6	0.15	32	55	103	1.8	5
AN 12	637601	7023791	brown silt	-0.5	0.01	0.76	1.33	0.06	0.11	0.22	2.7	0.07	31	35	145	1.66	7
AN 13	637575	7023794	light greybrown silt	-0.5	-0.01	0.16	0.51	0.01	0.03	0.04	0.8	0.07	18	16	35	0.5	3
AN 14	637552	7023791	light greybrown silt+green, chl-rich matr. (further W: swamp)	-0.5	-0.01	0.23	0.4	-0.01	0.06	0.06	0.8	0.09	16	18	37	0.48	3
AN 15	637727	7023576	greybrwn silt+fragm of ch. Sch. (bog iron smelting place 5m to the S)	-0.5	0.01	0.83	1.21	0.08	0.16	0.23	2.7	0.06	29	33	370	1.95	12
AN 16	637754	7023578	grey silt+fragm of chloritic sch (sampl. Impossible at 637775)	-0.5	0.01	0.43	0.95	0.02	0.04	0.09	1.4	0.11	28	30	98	0.99	6
AN 17	637800	7023576	grey silt+green, chl-rich matr	-0.5	0.01	0.88	1.28	0.07	0.14	0.34	2.6	0.09	30	41	140	2.34	12
AN 18	637825	7023575	brown silt/soil+green, chl-rich matr. Low qual. Spl	0.6	0.01	1.04	1.77	0.05	0.1	0.13	3.3	0.09	47	103	792	5.75	34
AN 19	637849	7023577	brownish grey silt	-0.5	-0.01	0.59	1.13	0.03	0.06	0.11	2.6	0.1	33	34	345	1.72	7
AN 20	637875	7023576	brownish grey sit+mica sch fragm	-0.5	-0.01	0.72	1.09	0.01	0.09	0.07	1.6	0.14	35	64	605	1.97	10
AN 21	637900	7023576	grey sand (+silt)	-0.5	0.01	0.3	0.49	0.05	0.05	0.18	1.1	0.05	14	20	68	0.69	4
AN 22	637927	7023575	grey silt	-0.5	-0.01	0.09	0.24	-0.01	0.02	0.04	0.6	0.09	15	13	18	0.26	2
AN 23	637701	7023575	brown to redbrown silt	-0.5	-0.01	0.5	1.36	0.02	0.04	0.06	1.8	0.12	45	39	110	2.91	6
AN 24	637672	7023577	light grey silt	-0.5	-0.01	0.01	0.1	-0.01	0.01	0.01	-0.5	0.07	9	7	5	0.05	-1
AN 25	637650	7023575	light greybrown to redbrown silt	-0.5	-0.01	0.94	1.59	0.05	0.1	0.14	2.6	0.09	32	43	219	2.3	10
AN 26	637625	7023575	grey+brown silt	-0.5	-0.01	0.56	1.21	0.04	0.05	0.11	2.1	0.07	21	31	85	1.17	5
AN 27	637605	7023576	brown silt+soil+chl-rich matr. Low qual. Spl	-0.5	-0.01	0.48	0.84	0.04	0.07	0.12	2.1	0.08	24	29	80	1	7
AN 28	637570	7023576	grey silt	-0.5	-0.01	0.29	0.58	0.02	0.03	0.07	0.8	0.07	12	16	51	0.58	2
AN 29	637551	7023576	greybrown silt (5m SE of bog iron smelting place)	-0.5	-0.01	0.44	0.78	0.03	0.03	0.1	1.2	0.07	19	27	93	1.1	6
AN 30	637526	7023574	redbrown silt	-0.5	0.01	0.71	1.45	0.04	0.03	0.11	2	0.09	41	42	564	2.73	11
FO 01 Terg 87	636741	7025376	grey silt	-0.5	0.02	0.65	1.03	0.08	0.04	0.3	1.8	0.06	25	28	180	1.65	8
FO 02	636720	7025377	grey silt	-0.5	0.02	0.67	1.2	0.07	0.06	0.26	2	0.06	29	37	185	1.82	10
FO 03	636697	7025377	dark greygreen silt	-0.5	0.01	1.16	1.7	0.04	0.04	0.22	2.6	0.09	79	212	330	3.48	20
FO 04	636675	7025377	grey silt	-0.5	0.01	0.29	0.58	0.03	0.04	0.13	1.2	0.07	18	17	67	0.66	4
FO 05	636650	7025376	browngrey silt	-0.5	-0.01	1.02	1.51	0.03	0.2	0.14	1.5	0.13	55	53	173	2.75	10
FO 06	636625	7025376	grey silt	-0.5	0.01	0.49	0.86	0.04	0.05	0.15	1.4	0.08	26	25	111	1.08	6
FO 07	636600	7025375	light brown silt	-0.5	-0.01	0.38	0.85	0.04	0.04	0.14	1.6	0.08	22	72	87	0.92	4
FO 08	636769	7025376	grey silt	-0.5	0.02	0.62	1	0.08	0.07	0.26	1.7	0.05	22	28	148	1.35	8
FO 09	636796	7025378	grey silt	-0.5	0.01	0.53	0.85	0.07	0.06	0.23	1.4	0.06	21	24	135	1.21	6
FO 10	636825	7025378	grey silt	-0.5	0.01	0.27	0.51	0.03	0.02	0.13	1.1	0.06	15	16	82	0.65	3
FO 11	636850	7025379	grey+minor brown silt	-0.5	0.01	0.56	0.92	0.06	0.06	0.21	1.4	0.06	23	35	204	1.4	7
FO 12	636876	7025375	light redbrown silt	-0.5	0.02	0.45	1.15	0.02	0.06	0.13	2	0.09	25	26	139	2.04	6

Encl. 3

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FO 13	636900	7025375	dark brown silt, minor soil	-0.5	0.01	0.27	0.64	0.04	0.03	0.25	2	0.06	14	18	79	0.72	6
FO 14	636120	7026600	redbrown silt/soil	-0.5	0.01	0.26	1.56	0.04	0.02	0.12	1.9	0.06	23	30	168	2.32	5
FO 15	636095	7026604	redbrown silt/soil	-0.5	-0.01	0.39	1.33	0.03	0.04	0.09	1.9	0.11	45	38	195	3.77	6
FO 16	636070	7026600	redbrown silt/soil	-0.5	-0.01	0.45	1.18	0.02	0.06	0.06	1.5	0.13	54	39	515	4.91	6
FO 17	636040	7026600	redbrown silt/soil (5m W of bog iron smelter)	-0.5	0.01	0.27	1.4	0.03	0.05	0.07	1.9	0.1	36	36	162	3.4	4
FO 18	636015	7026600	brownish grey silt	-0.5	-0.01	0.18	0.62	0.02	0.03	0.05	1.3	0.08	19	14	44	0.72	5
FO 19	636145	7026598	redbrown silt/soil	-0.5	-0.01	0.25	0.54	0.02	0.05	0.05	-0.5	0.13	50	31	419	3.02	6
FO 20	636171	7026603	redbrown silt/soil	-0.5	-0.01	0.15	0.56	0.02	0.03	0.05	-0.5	0.12	44	22	863	3.71	6
FO 21	636196	7026594	browngrey silt/soil	-0.5	-0.01	0.18	0.51	0.02	0.03	0.05	0.5	0.08	23	16	502	1.92	7
FO 22	636216	7026600	redbrown silt/soil	-0.5	-0.01	0.15	0.41	0.01	0.02	0.05	-0.5	0.11	46	17	226	1.9	4
GF 01 Torg.88	636758	7016790	grey silt	-0.5	0.01	0.48	0.77	0.05	0.06	0.19	1.6	0.07	20	36	113	1.13	5
GF 02	636782	7016791	greybrown silt	-0.5	0.01	1.12	1.6	0.04	0.41	0.15	3.4	0.15	51	72	167	2.67	8
GF 03	636802	7016792	light brown sand+silt	-0.5	0.01	0.23	1.11	0.05	0.13	0.11	2.4	0.08	19	23	59	1.13	4
GF 04	636826	7016790	greenish grey silt	-0.5	0.01	0.83	1.32	0.06	0.25	0.22	1.6	0.1	31	88	146	1.65	8
GF 05	636850	7016793	browngreen silt	-0.5	0.02	0.72	1.15	0.07	0.18	0.26	2	0.08	28	38	145	1.45	9
GF 06	636875	7016791	light greengrey silt	-0.5	0.02	0.46	0.73	0.07	0.11	0.25	2.8	0.05	21	138	102	0.88	7
GF 07	636900	7016790	brown silt	-0.5	0.01	0.51	0.99	0.07	0.13	0.19	1.8	0.06	20	30	111	1.2	5
GF 08	636731	7016791	greybrown silt	0.6	-0.01	1.6	1.89	0.03	0.39	0.11	4.9	0.12	61	360	248	2.82	16
GF 09	636704	7016791	brown sand+gravel+silt	0.6	-0.01	1.2	1.93	0.08	0.33	0.19	3.5	0.1	49	91	709	3.34	23
GF 10	636676	7016790	brown silt	0.7	-0.01	1.65	2.34	0.05	0.55	0.14	3.8	0.13	53	137	714	3.53	24
GF 11	636650	7016790	grey silt	-0.5	0.01	0.65	1.02	0.07	0.06	0.2	2.2	0.06	20	41	125	1.26	8
GF 12	636625	7016790	light greybrown silt	0.9	0.01	1.88	2.52	0.05	0.73	0.15	4.9	0.2	54	106	283	3.08	20
GF 13	636600	7016790	grey silt	0.7	-0.01	1.85	2.42	0.05	0.68	0.1	3	0.15	47	88	441	3.83	20
GT 01 Torg 90	634480	7021175	greengrey silt	-0.5	0.01	0.85	1.37	0.06	0.22	0.2	2.4	0.08	30	61	162	1.84	10
GT 02	634501	7021184	greengrey silt	-0.5	0.01	0.82	1.21	0.03	0.18	0.11	2	0.1	26	68	138	1.39	6
GT 03	634456	7021179	bluegrey silt	-0.5	-0.01	0.3	0.45	-0.01	0.04	0.02	-0.5	0.08	17	14	33	0.53	-1
GT 04	634429	7021171	brown soil+silt. Low qual. Spl	-0.5	-0.01	0.33	0.78	0.03	0.05	0.02	-0.5	0.05	21	15	50	3.46	2
GT 05	634397	7021173	light brown silt	-0.5	-0.01	0.32	1.04	0.02	0.03	0.07	1.5	0.09	20	27	147	1.94	8
GT 06	634375	7021172	light brown silt	-0.5	-0.01	0.37	0.98	0.02	0.04	0.07	1.7	0.1	28	36	90	1.72	4
GT 07	634350	7021386	light brown silt	-0.5	-0.01	0.45	1.12	0.05	0.09	0.12	1.6	0.08	30	36	127	1.91	5
GT 08	634324	7021386	light brown silt	-0.5	-0.01	0.19	0.79	0.01	0.02	0.04	1.3	0.06	17	29	39	1.32	3
GT 09	634310	7021383	grey silt+brown sand	-0.5	-0.01	0.34	0.73	0.04	0.06	0.09	1.2	0.07	20	24	75	1.43	6
FN 01	645239	7041605	light brownish grey silt	-0.5	-0.01	0.23	0.57	0.02	0.03	0.09	1.1	0.06	17	13	54	0.63	5
FN 02	645249	7041617	greenish browngrey silt	-0.5	-0.01	0.58	1.22	0.06	0.07	0.19	1.9	0.05	24	25	106	1.38	7
FN 03	645265	7041640	greenish browngrey silt	-0.5	0.01	0.5	1	0.05	0.07	0.18	1.8	0.07	24	26	122	1.37	8
FN 04	645240	7041675	greenish silt	-0.5	0.01	0.55	0.96	0.07	0.07	0.21	1.7	0.04	19	20	100	1.26	7
FN 05	645271	7041689	greenish silt	-0.5	0.01	0.71	1.25	0.06	0.08	0.2	2.2	0.05	27	27	123	1.72	7
FN 06	645228	7041779	greenish silt	-0.5	-0.01	0.95	1.43	0.07	0.07	0.2	2.2	0.06	30	34	161	2.22	8
FN 07	645264	7041751	brown silt	-0.5	0.01	0.56	1.21	0.06	0.08	0.18	2.1	0.05	27	26	96	1.25	21
FN 08	645284	7041732	greenish silt	-0.5	0.01	0.63	1.23	0.06	0.07	0.17	1.9	0.05	26	26	111	1.49	7
FN 09	645306	7041632	greenish silt	-0.5	-0.01	0.63	0.97	0.07	0.11	0.24	2.2	0.04	22	23	117	1.49	8
FN 10	645357	7041628	bluegrey silt	-0.5	-0.01	0.66	0.96	0.07	0.12	0.25	2.2	0.04	23	25	130	1.58	9
FN 11	645387	7041636	bluegrey silt	-0.5	-0.01	0.58	0.88	0.07	0.12	0.25	2.1	0.03	22	22	116	1.43	9
FN 12	645423	7041653	bluegrey silt	-0.5	-0.01	0.65	1.08	0.06	0.12	0.21	2.4	0.05	24	27	129	1.61	9
FN 13	645437	7041624	greenish silt	-0.5	-0.01	0.83	1.43	0.07	0.1	0.2	2.6	0.06	31	33	143	2.05	12
FN 14	645456	7041609	bluegrey silt	-0.5	0.01	0.79	1.24	0.07	0.11	0.24	2.6	0.04	27	28	143	1.83	10

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FN 15	645464	7041662	bluegrey silt	-0.5	0.01	0.67	1.07	0.07	0.12	0.24	2.3	0.04	23	25	125	1.58	9
FN 16	645503	7041681	greenishgrey silt	-0.5	0.01	0.82	1.24	0.08	0.09	0.22	2.3	0.04	28	31	130	1.82	11
FN 17	645536	7041707	grey silt	-0.5	0.01	0.56	0.89	0.07	0.1	0.24	2.1	0.04	20	44	113	1.34	8
FN 18	645541	7041759	grey silt	-0.5	0.01	0.68	1.07	0.07	0.13	0.25	2.2	0.04	21	24	126	1.53	9
FN 19	645492	7041765	grey silt	-0.5	0.01	0.4	0.76	0.06	0.13	0.26	1.9	0.05	19	18	106	1.14	8
FN 20	645391	7041798	brownish grey silt	-0.5	-0.01	0.5	0.98	0.07	0.06	0.2	1.5	0.05	22	21	107	1.3	6
FN 21	645320	7041853	greenishgrey silt	-0.5	-0.01	0.27	0.75	0.06	0.05	0.2	1.4	0.04	16	16	65	0.76	4
FN 22	645328	7041880	grey sand+minor silt	-0.5	-0.01	0.4	0.99	0.01	0.09	0.06	1.6	0.11	38	24	89	1.16	59
FN 23	645382	7041909	greenishgrey silt	-0.5	-0.01	0.38	0.85	0.06	0.06	0.17	1.5	0.04	16	17	73	0.9	5
FW 01	643095	7038195	brown silt	-0.5	-0.01	0.63	1.43	0.04	0.09	0.13	2.1	0.09	31	43	113	1.55	8
FW 02	643088	7038213	greybrown silt+soil	-0.5	-0.01	0.36	0.71	0.03	0.08	0.12	1.9	0.07	21	23	69	0.74	4
FW 03	643053	7038223	light brown silt	-0.5	-0.01	0.57	1.07	0.07	0.14	0.18	2.1	0.06	20	34	87	1.11	6
FW 04	643040	7038245	browngreen silt	-0.5	0.01	0.6	0.98	0.06	0.09	0.18	2	0.06	26	31	139	1.24	7
FW 05	643046	7038280	brown silt/soil	-0.5	0.01	0.42	0.91	0.06	0.06	0.19	2	0.05	18	22	68	0.86	3
FW 06	643028	7038302	brown silt/soil	-0.5	0.01	0.41	0.91	0.03	0.07	0.12	1.5	0.07	19	24	73	0.98	5
FW 07	643013	7038329	grey sand+silt	-0.5	0.02	0.67	1.17	0.07	0.18	0.34	2.3	0.08	33	29	234	2.27	17
FW 08	643113	7038171	brown silt	-0.5	-0.01	0.28	0.75	0.03	0.04	0.11	1.6	0.06	14	20	53	0.6	3
FW 09	643122	7038150	grey silt	-0.5	0.01	0.34	0.57	0.06	0.08	0.28	1.9	0.05	20	17	89	0.82	6
FW 10	643139	7038130	brown silt	-0.5	0.01	0.43	0.9	0.05	0.08	0.17	1.5	0.06	19	23	82	1.15	5
FW 11	643156	7038067	browngrey silt	-0.5	0.01	0.29	0.64	0.04	0.06	0.16	1.3	0.07	19	16	67	0.87	3

Meråker NE ore field:

FN **Fjergen North, Target no 98**
FW **Fjergen West, Target no 97**

Meråker SE ore field:

AN **Husmannsberget, target no 86**
FO **Fossvatnet S, Target no 87**
GF **Gåsvollfjell S, target no 88**
Gt **Gåstjern NW**

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Results Auger sediment samples Meraker 2000

Sample Ide	UTM E	UTM N	Ni	Cu	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb	Bi
Scheme Code			ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	IP 70
Analysis Unit			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit			1	0.5	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	2	5
AN 01	637695	7023794	6	6.4	17.9	-3	3.7	1.6	2.2	-1	-0.2	-1	-10	-5	6	4.4	-10	8	-5
AN 02	637720	7023793	5	3.4	12.8	-3	2.9	3.3	1	-1	-0.2	-1	-10	-5	5	4.3	-10	7	-5
AN 03	637747	7023791	11	79.3	108	-3	5.9	5.6	2	1	0.2	-1	-10	-5	10	9.5	-10	8	-5
AN 04	637778	7023792	39	4.1	17.2	-3	6	2.4	-0.5	-1	-0.2	-1	-10	-5	9	4.4	-10	4	-5
AN 05	637803	7023796	8	3.9	17.1	-3	5.1	2	-0.5	-1	-0.2	-1	-10	-5	9	3.7	-10	5	-5
AN 06	637828	7023794	5	2.7	8.7	-3	2.7	1.4	1.9	-1	-0.2	-1	-10	-5	6	3.2	-10	5	-5
AN 07	637851	7023792	8	4.1	15.6	-3	4.8	1.9	0.8	-1	-0.2	-1	-10	-5	9	3	-10	7	-5
AN 08	637876	7023790	11	10.5	25	-3	6.9	3.4	2.5	-1	-0.2	-1	-10	-5	10	6	-10	5	-5
AN 09	637898	7023793	2	0.9	4.6	-3	2.8	1.2	0.8	-1	-0.2	-1	-10	-5	6	2.2	-10	4	-5
AN 10	637671	7023792	20	4.5	57	-3	7	2.3	1.5	-1	-0.2	-1	-10	-5	36	4.6	-10	5	-5
AN 11	637625	7023793	20	6	37.4	-3	5.8	2.5	2.5	-1	-0.2	-1	-10	-5	18	4.6	-10	7	-5
AN 12	637601	7023791	20	14.6	36.7	-3	9.7	6.1	3.8	-1	-0.2	-1	-10	-5	31	12.9	-10	4	-5
AN 13	637575	7023794	6	4.2	8.4	-3	3.1	2	1.3	-1	-0.2	-1	-10	-5	5	4.6	-10	5	-5
AN 14	637552	7023791	6	1.2	10.4	-3	4.2	1.7	1.7	-1	-0.2	-1	-10	-5	9	3	-10	5	-5
AN 15	637727	7023576	29	43.1	43.1	-3	10.3	8.2	10	-1	-0.2	-1	-10	-5	27	16.3	-10	9	-5
AN 16	637754	7023578	12	13.3	80.8	-3	5.1	3.8	1.8	-1	-0.2	-1	-10	-5	12	7	-10	6	-5
AN 17	637800	7023576	27	32	593	-3	11.5	8.9	3.5	1	-0.2	-1	-10	-5	22	17.9	-10	5	-5
AN 18	637825	7023575	93	19.6	151	-3	6.5	14	8.1	2	-0.2	-1	-10	-5	59	28.5	-10	7	-5
AN 19	637849	7023577	18	17.1	32	-3	6	10.2	2.6	-1	-0.2	-1	-10	-5	14	21.3	-10	6	-5
AN 20	637875	7023576	42	6.8	39.3	-3	4.3	3.2	2.3	-1	-0.2	-1	-10	-5	12	4.1	-10	6	-5
AN 21	637900	7023576	8	7.9	21.4	-3	7.2	3	0.5	-1	-0.2	-1	-10	-5	15	4.5	-10	-2	-5
AN 22	637927	7023575	2	1.8	5.3	-3	3.6	1.3	-0.5	-1	-0.2	-1	-10	-5	7	2.7	-10	6	-5
AN 23	637701	7023575	14	18.8	28.9	-3	4.7	4.6	3.4	-1	-0.2	-1	-10	-5	10	8.4	-10	5	-5
AN 24	637672	7023577	2	0.8	1.6	-3	1.2	-0.5	1.4	-1	-0.2	-1	-10	-5	4	1.5	-10	11	-5
AN 25	637650	7023575	26	23.3	48.6	-3	7.8	6.8	2.5	-1	-0.2	-1	-10	-5	16	14.7	-10	6	-5
AN 26	637625	7023575	15	9.9	24.3	-3	6.1	5.1	2.5	-1	-0.2	-1	-10	-5	11	9.4	-10	4	-5
AN 27	637605	7023576	15	17.7	22.8	-3	6.2	7.9	3	-1	-0.2	-1	-10	-5	16	15.4	-10	6	-5
AN 28	637570	7023576	7	14	22.7	-3	4.3	2.7	1.5	-1	0.2	-1	-10	-5	7	5	-10	8	-5
AN 29	637551	7023576	21	18.8	36.8	-3	5.9	3.3	0.9	2	-0.2	-1	-10	-5	9	5.3	-10	5	-5
AN 30	637526	7023574	17	22.3	65.1	-3	5.9	7.3	1.3	1	-0.2	-1	-10	-5	13	7.4	-10	8	-5
FO 01	636741	7025376	24	22.1	50.5	-3	10.4	5.7	1.5	-1	-0.2	-1	-10	-5	25	10.9	-10	-2	-5
FO 02	636720	7025377	22	19.7	48.1	-3	9.8	6.1	1.3	-1	-0.2	-1	-10	-5	33	12	-10	2	-5
FO 03	636697	7025377	103	30.4	68.6	-3	5.2	13.4	3.3	-1	-0.2	-1	-10	-5	20	31.6	-10	5	-5
FO 04	636675	7025377	7	7.9	16.2	-3	5.9	3.5	1.8	-1	-0.2	-1	-10	-5	13	5.7	-10	5	-5
FO 05	636650	7025376	29	9.9	43.6	-3	5.4	3.1	2.2	-1	0.3	-1	-10	-5	47	6.7	-10	3	-5
FO 06	636625	7025376	14	18	26.8	-3	6.4	3.5	1.8	-1	-0.2	-1	-10	-5	15	6.2	-10	3	-5
FO 07	636600	7025375	47	16.6	25.4	-3	5.7	3.8	2.5	-1	-0.2	-1	-10	-5	11	7	-10	4	-5
FO 08	636769	7025376	20	28	40.1	-3	8.9	5.1	1.2	-1	-0.2	-1	-10	-5	23	10.2	-10	2	-5
FO 09	636796	7025378	15	17.2	32.2	-3	8.2	4.1	1.7	-1	-0.2	-1	-10	-5	15	7.5	-10	4	-5
FO 10	636825	7025378	7	10.8	15.9	-3	5.9	3.5	1.2	-1	-0.2	-1	-10	-5	9	6.1	-10	5	-5
FO 11	636850	7025379	25	32.5	36.5	-3	8.6	4.3	2	-1	-0.2	-1	-10	-5	21	7.7	-10	-2	-5
FO 12	636876	7025375	14	27.9	26.9	-3	7.5	6.2	3.4	-1	-0.2	-1	-10	-5	16	8.8	-10	3	-5

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FO 13	636900	7025375	10	21.7	21.9	-3	10.4	5.1	1.7	-1	-0.2	-1	-10	-5	29	6.5	-10	-2	-5
FO 14	636120	7026600	11	10.2	34	-3	5.8	3.9	3.1	-1	-0.2	-1	-10	-5	12	6.9	-10	-2	-5
FO 15	636095	7026604	12	10.4	41.7	-3	5	3.3	4.1	-1	-0.2	-1	-10	-5	15	7.6	-10	9	-5
FO 16	636070	7026600	12	8.5	46.2	-3	4.4	2.6	4.6	-1	-0.2	-1	-10	-5	16	7	-10	9	-5
FO 17	636040	7026600	7	11.1	28.7	-3	4.2	4.3	3.8	-1	-0.2	-1	-10	-5	14	8.4	-10	6	-5
FO 18	636015	7026600	7	14.2	15.1	-3	3.3	8	0.5	-1	-0.2	-1	-10	-5	10	14.5	-10	6	-5
FO 19	636145	7026598	10	4.7	20	-3	3.4	1.3	2.4	-1	-0.2	-1	-10	-5	11	4.4	-10	10	-5
FO 20	636171	7026603	4	4.3	15.5	-3	3.4	1.9	2.2	-1	-0.2	-1	-10	-5	9	5.7	-10	6	-5
FO 21	636196	7026594	4	4.2	14.3	-3	3.4	1.8	1.3	-1	-0.2	-1	-10	-5	10	4.9	-10	6	-5
FO 22	636216	7026600	4	2.9	12.9	-3	3.2	1.5	1	-1	-0.2	-1	-10	-5	8	3.8	-10	7	-5
GF 01	636758	7016790	27	18.1	22.9	6	7.5	10.4	2	2	-0.2	-1	-10	-5	9	21.4	-10	4	-5
GF 02	636782	7016791	42	12.3	41.1	6	6.1	4.8	2.8	-1	-0.2	-1	-10	-5	49	10.7	-10	5	-5
GF 03	636802	7016792	11	28.3	17.9	-3	4.5	14	3.5	-1	-0.2	-1	-10	-5	29	27.2	-10	6	-5
GF 04	636826	7016790	73	15.3	38.8	-3	7.7	6.8	4.6	-1	-0.2	-1	-10	-5	28	18.4	-10	6	-5
GF 05	636850	7016793	33	30	38.7	-3	9.8	8.1	5.9	-1	-0.2	-1	-10	-5	36	19.4	-10	5	-5
GF 06	636875	7016791	93	44.8	29.9	-3	9.9	11.6	7.7	-1	-0.2	-1	-10	-5	29	21	-10	4	-5
GF 07	636900	7016790	21	25.9	27.4	-3	6.8	6	4.8	-1	-0.2	-1	-10	-5	22	13.8	-10	4	-5
GF 08	636731	7016791	132	5.2	40.6	52	5.2	7.1	2.7	-1	0.5	-1	-10	-5	33	13.7	-10	14	-5
GF 09	636704	7016791	70	54.1	58.4	10	6.1	20.6	10.7	-1	-0.2	-1	-10	-5	42	45.6	-10	12	-5
GF 10	636676	7016790	122	38.7	65.3	3	5.6	10.8	8.4	-1	-0.2	-1	-10	-5	39	28.9	-10	10	-5
GF 11	636650	7016790	53	50.3	36.9	-3	7	16	4.2	-1	-0.2	-1	-10	-5	19	29.5	-10	7	-5
GF 12	636625	7016790	138	26	52.4	-3	4.8	7.4	13.9	-1	-0.2	-1	-10	-5	35	12	-10	-2	-5
GF 13	636600	7016790	129	42.8	73.5	-3	2.4	9.4	14.7	-1	-0.2	-1	-10	-5	26	19.3	-10	9	-5
GT 01	634480	7021175	60	44.9	44.7	-3	8	10.7	7.4	-1	-0.2	-1	-10	-5	27	24.7	-10	7	-5
GT 02	634501	7021184	32	9.1	31.9	-3	4.7	4.8	4.4	-1	-0.2	-1	-10	-5	17	12.4	-10	6	-5
GT 03	634456	7021179	2	2.6	18.4	-3	1.4	2.9	5.7	1	-0.2	-1	-10	-5	5	11.5	-10	8	-5
GT 04	634429	7021171	7	17.8	26.4	-3	1.8	5.9	8.2	-1	0.2	-1	-10	-5	7	19.5	-10	15	-5
GT 05	634397	7021173	15	15.9	25	-3	3.7	14.1	2.7	-1	-0.2	-1	-10	-5	10	21.3	-10	4	-5
GT 06	634375	7021172	22	17	18.4	-3	3.5	8.9	4.5	-1	-0.2	-1	-10	-5	9	18.6	-10	6	-5
GT 07	634350	7021386	19	10.6	23	-3	5.2	3.6	4.6	-1	-0.2	-1	-10	-5	16	10.3	-10	6	-5
GT 08	634324	7021386	10	7.4	10.1	-3	1.8	5.6	2.7	-1	-0.2	-1	-10	-5	4	12.5	-10	4	-5
GT 09	634310	7021383	23	10.1	18.5	-3	4	6.1	5.1	3	0.2	-1	-10	-5	7	16.4	-10	3	-5
FN 01	645239	7041605	9	5.3	12.2	-3	6.4	5.1	2.5	-1	-0.2	-1	-10	-5	15	11.1	-10	4	-5
FN 02	645249	7041617	22	20.7	32.4	-3	9.3	7.2	4.1	-1	-0.2	-1	-10	-5	20	17.3	-10	9	-5
FN 03	645265	7041640	23	14.3	37.6	-3	8.5	9.6	3.9	2	-0.2	-1	-10	-5	21	21.2	-10	5	-5
FN 04	645240	7041675	19	21.9	35.7	-3	10	6.9	5.3	-1	-0.2	-1	-10	-5	18	16.3	-10	8	-5
FN 05	645271	7041689	25	27.3	43	-3	10.2	7.9	6.7	-1	-0.2	-1	-10	-5	28	17.1	-10	8	-5
FN 06	645228	7041779	25	17	57.4	-3	8.9	6.6	5.5	-1	0.2	-1	-10	-5	11	14.4	-10	4	-5
FN 07	645264	7041751	19	20	25.1	-3	9.1	6.5	6.3	-1	-0.2	-1	-10	-5	23	14.2	-10	8	-5
FN 08	645284	7041732	22	17.9	33.8	5	8.7	6.5	4.2	-1	-0.2	-1	-10	-5	25	14.8	-10	8	-5
FN 09	645306	7041632	24	29.4	44.3	-3	14.7	9.7	9.1	-1	-0.2	-1	-10	-5	26	20	-10	7	-5
FN 10	645357	7041628	25	28.5	47.2	-3	13.3	9.4	14.9	-1	-0.2	-1	-10	-5	33	18.7	-10	6	-5
FN 11	645387	7041636	24	26.8	43	-3	13.8	9.3	15.4	-1	-0.2	-1	-10	-5	26	19.1	-10	8	-5
FN 12	645423	7041653	25	28.9	53.4	-3	10.8	9.8	12.7	-1	-0.2	-1	-10	-5	37	20.7	-10	7	-5
FN 13	645437	7041624	34	27.5	49.2	-3	9.4	9	8	-1	-0.2	-1	-10	-5	35	20.1	-10	7	-5
FN 14	645456	7041609	30	35.8	51.9	-3	12.2	8.7	11.7	-1	-0.2	-1	-10	-5	47	19.3	-10	8	-5

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FN 15	645464	7041662	25	29.2	47.5	-3	14.6	9.6	10.9	-1	-0.2	-1	-10	-5	33	19.2	-10	7	-5
FN 16	645503	7041681	33	22.9	45.2	-3	10.5	8	7.7	-1	-0.2	-1	-10	-5	24	18	-10	9	-5
FN 17	645536	7041707	34	25.2	41.8	-3	12.9	9.1	8.4	-1	-0.2	-1	-10	-5	24	18.6	-10	6	-5
FN 18	645541	7041759	25	33.5	44.5	-3	13.4	10.4	14.5	-1	-0.2	-1	-10	-5	25	20.1	-10	10	-5
FN 19	645492	7041765	18	23.9	43.8	-3	14.6	9.3	9.1	-1	-0.2	-1	-10	-5	46	18.1	-10	7	-5
FN 20	645391	7041798	19	11.1	38.6	-3	9.4	5.2	4.7	1	-0.2	-1	-10	-5	21	11.6	-10	6	-5
FN 21	645320	7041853	11	12.9	21.3	-3	7.8	6	2.6	-1	0.4	-1	-10	-5	12	11.6	-10	5	-5
FN 22	645328	7041880	16	14.9	45.3	-3	3.7	9.7	5.5	1	0.2	-1	-10	-5	16	19.5	-10	9	-5
FN 23	645382	7041909	15	23.1	25.8	-3	8	5.9	3	-1	-0.2	-1	-10	-5	14	13.3	-10	7	-5
FW 01	643095	7038195	20	19.3	52.3	-3	5.8	17.6	4.1	-1	-0.2	-1	-10	-5	30	23.4	-10	5	-5
FW 02	643088	7038213	9	8.4	18.1	-3	8.4	7.3	2.9	2	0.3	-1	-10	-5	20	12.6	-10	4	-5
FW 03	643053	7038223	17	13.5	28.4	-3	8.3	6.5	4.4	-1	0.3	-1	-10	-5	21	19.1	-10	5	-5
FW 04	643040	7038245	20	10	26.3	-3	7.7	8.4	4.6	-1	-0.2	-1	-10	-5	30	17.1	-10	5	-5
FW 05	643046	7038280	13	9.1	19.3	-3	7.1	6	3.8	-1	-0.2	-1	-10	-5	13	12.6	-10	3	-5
FW 06	643028	7038302	11	5.4	18.9	-3	5.3	3.9	2.8	-1	-0.2	-1	-10	-5	16	7.2	-10	3	-5
FW 07	643013	7038329	25	21.8	57.2	-3	13.5	56.6	7	-1	-0.2	-1	-10	-5	46	31	-10	9	-5
FW 08	643113	7038171	8	4.8	14.4	-3	6.4	4.3	2.8	-1	-0.2	-1	-10	-5	9	7.7	-10	5	-5
FW 09	643122	7038150	10	13.6	24.7	-3	10.2	38.8	4.8	-1	-0.2	-1	-10	-5	16	20.2	-10	-2	-5
FW 10	643139	7038130	14	8.8	24.8	-3	8.4	5.8	5	-1	-0.2	-1	-10	-5	20	12.6	-10	4	-5
FW 11	643156	7038067	8	5.6	15.7	-3	7.4	5.5	1.8	-1	-0.2	-1	-10	-5	16	9.9	-10	5	-5

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Sample Ident	UTM E	UTM N	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Sr	Y	Zr	Mo	Ag	Cd
Scheme Code			ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Analysis Unit			ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit			0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01	1	1	0.5	0.5	3	0.5	0.5	0.5	1	0.2	1
SSU01	637748	7042937	-0.5	-0.01	1.07	1.44	0.04	0.03	0.37	2	0.08	51	53	1850	3.72	32	46	57.4	42.3	-3	6	3.9	1.7	-1	-0.2	-1
SSU02	637678	7042983	0.6	-0.01	1.25	1.57	0.04	0.09	0.3	1.7	0.08	81	110	2000	9.44	42	50	23.1	78	30	7.1	5.8	4.7	-1	-0.2	4
SSU03	637604	7043030	-0.5	-0.01	0.87	1.22	0.05	0.06	0.34	2.1	0.07	57	89	1260	4.26	24	57	17	57.8	-3	7.7	5.4	4	-1	-0.2	1
SSU04	637530	7043029	-0.5	-0.01	1.26	1.49	0.04	0.03	0.16	2.3	0.08	52	47	328	2.74	11	18	21	49.3	-3	3.7	5.1	2.4	-1	-0.2	-1
SSU05	637343	7043203	-0.5	0.01	0.35	0.64	0.04	0.05	0.14	1.4	0.04	21	34	97	1.07	5	22	8.8	21	-3	6.6	4.6	3.1	-1	-0.2	-1
SSU06	637445	7043247	-0.5	0.01	0.51	0.91	0.05	0.11	0.23	1.8	0.05	32	24	1470	2.8	26	18	12.6	40.9	-3	10.1	7	4.8	-1	-0.2	-1
SSU07	637497	7043337	-0.5	-0.01	0.45	0.74	0.05	0.08	0.17	1.5	0.04	25	31	397	1.79	12	23	11.5	27.2	-3	7.1	5	4.1	-1	-0.2	-1
SSU08	637604	7043354	-0.5	0.01	0.47	0.79	0.05	0.07	0.17	1.6	0.04	29	21	928	2.22	24	14	12.7	30.5	-3	7.6	6.6	4.1	-1	-0.2	-1
SSU09	637700	7043409	-0.5	0.01	0.48	0.78	0.04	0.08	0.19	1.5	0.05	27	22	369	1.62	10	13	11.5	31.4	-3	7.8	5.2	3.5	-1	-0.2	-1
SSU10	637836	7043498	-0.5	0.01	0.95	1.24	0.06	0.08	0.35	2.4	0.07	52	76	269	2.18	14	42	29	51.2	-3	8.3	4.3	3	-1	-0.2	-1
SSU11	637907	7043555	-0.5	-0.01	0.85	1.15	0.06	0.08	0.27	2.2	0.07	51	45	1170	2.73	21	26	23.7	51.3	-3	9.5	4.6	3	-1	-0.2	-1
SSU12	637990	7043601	-0.5	-0.01	1.03	1.32	0.05	0.08	0.25	2.1	0.08	59	54	1310	2.97	23	27	32.2	55.2	-3	8	3.7	1.7	-1	-0.2	-1
SSU13	638115	7043704	-0.5	-0.01	0.88	1.11	0.05	0.07	0.22	1.6	0.06	42	41	1320	2.42	21	21	14.6	50.2	-3	7.1	3.4	2	1	-0.2	-1
SSU14	638013	7042675	-0.5	-0.01	0.52	0.95	0.02	0.02	0.12	1.4	0.06	49	37	709	2.4	14	15	10.2	33.2	-3	4.5	4.2	2.3	-1	-0.2	-1
SSU15	637902	7042755	-0.5	-0.01	0.81	1.18	0.03	0.05	0.14	1.4	0.07	55	47	1250	3.91	23	23	15.3	61	3	4.2	3.7	3	-1	-0.2	-1
SSU16	637727	7043177	-0.5	-0.01	1.4	2.17	-0.01	0.03	0.23	4.1	0.26	120	167	371	4.06	49	71	81	48.3	-3	4.6	4.5	3	-1	-0.2	1
SSU17	637837	7043163	-0.5	-0.01	0.44	1.04	0.03	0.03	0.19	1.4	0.07	32	108	155	1.61	11	66	8.8	45.7	-3	6.9	5.5	2.1	-1	-0.2	-1
SSU18	637985	7043183	-0.5	0.02	0.55	1.07	0.05	0.09	0.23	2.1	0.1	27	25	118	1.53	7	14	12.5	32.1	-3	8.8	6.2	3.2	-1	-0.2	-1
SSU19	637858	7043587	-0.5	0.01	0.9	1.25	0.06	0.09	0.31	1.9	0.08	47	64	1570	3	24	40	32	51.4	-3	9.1	5.1	2.4	-1	-0.2	-1
SSU20	637749	7043543	-0.5	0.01	0.39	0.73	0.04	0.07	0.17	1.3	0.05	21	19	452	1.66	8	11	7.2	27.7	-3	7.9	4.8	2.4	-1	-0.2	-1
SSU21	637801	7043638	-0.5	0.01	1.3	1.68	0.05	0.1	0.4	2.3	0.11	76	69	1920	3.39	27	37	34.5	49.9	-3	6.3	4.3	1.2	-1	-0.2	-1
SSU22	637556	7042634	-0.5	0.01	0.38	0.64	0.07	0.09	0.27	5.9	0.04	41	25	123	1.34	14	52	43.2	31.1	-3	9.6	10.4	8.2	-1	-0.2	-1
SSU23	637654	7042594	-0.5	-0.01	1.71	2	0.05	0.13	0.35	1	0.1	67	80	654	5.35	21	44	42.2	54	-3	6.5	2.4	1.8	-1	0.4	-1
SSU24	637839	7042504	-0.5	-0.01	0.32	0.59	0.07	0.08	0.21	1.1	0.04	11	13	83	0.82	4	14	7.1	20.2	-3	8.6	4.4	2.9	-1	-0.2	-1
SSF01	636876	7025998	0.6	0.01	0.67	1.17	0.06	0.1	0.29	4.7	0.06	43	50	1280	8.8	24	29	49.3	73.9	-3	8.8	48.6	12.1	2	0.3	2
SSF02	636945	7025918	1	-0.01	0.69	1.38	0.05	0.07	0.38	2.7	0.07	53	36	1480	>15	50	28	23.3	100	-3	17.5	14.5	7	4	0.3	5
SSF03	636874	7026078	-0.5	0.01	0.45	1.59	0.07	0.05	0.31	2.2	0.07	39	42	222	2.42	15	23	18.5	67.3	-3	8.4	9.6	1.6	1	-0.2	-1
SSF04	636857	7026161	-0.5	0.01	0.7	1.3	0.08	0.12	0.29	1.9	0.08	34	76	634	2.8	20	47	17.8	71.3	-3	9.5	5.7	1.4	-1	-0.2	-1
SSF05	636795	7026242	-0.5	0.01	0.76	1.49	0.06	0.1	0.32	2.5	0.07	33	36	903	2.83	17	23	27.3	86.4	-3	12.2	6.5	1.4	-1	-0.2	-1
SSF06	636994	7026190	-0.5	-0.01	0.11	0.32	0.02	0.01	0.07	0.9	0.05	14	14	109	0.33	2	3	6.8	8.2	-3	3.6	1.9	1	-1	-0.2	-1
SSF07	637116	7026055	-0.5	0.01	0.11	0.32	0.02	0.01	0.08	0.6	0.1	51	39	536	2.03	10	21	5.9	13.9	-3	3.8	1.7	1.1	-1	-0.2	-1
SSF08	636930	7026275	-0.5	0.01	0.33	0.59	0.06	0.06	0.19	0.9	0.07	53	35	12710	5.09	96	31	13.7	50.6	-3	9.2	2.9	1.7	-1	0.7	-1
SSF09	636951	7026370	-0.5	0.01	0.59	0.99	0.04	0.09	0.17	1.4	0.08	44	29	4910	5.32	55	21	16.4	59.1	-3	7.1	4	2.6	-1	-0.2	-1
SSF10	636941	7026481	-0.5	0.01	0.53	0.88	0.03	0.07	0.17	1.7	0.07	24	27	1090	1.71	14	17	20.3	46.7	-3	7.1	4.6	2.4	-1	-0.2	-1

Meråker NE ore field	SSU	Funnsjøen, Target no 99
Meråker SE ore field	SSF	Fossvatnet S, Target no 87

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Encl. 6

Sn	Sb	Ba	La	W	Pb	Bi
ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	IP 70
ppm	ppm	ppm	ppm	ppm	ppm	ppm
10	5	1	0.5	10	2	5
-10	-5	40	6.6	-10	4	-5
-10	-5	48	*INF	-10	12	-5
-10	-5	32	8.9	-10	13	-5
-10	-5	9	5.8	-10	2	-5
-10	-5	16	10	-10	8	-5
-10	-5	34	13.4	-10	14	-5
-10	-5	18	11	-10	9	-5
-10	-5	22	12.8	-10	11	-5
-10	-5	22	10.2	-10	9	-5
-10	-5	21	8.7	-10	8	-5
-10	-5	30	8.6	-10	8	-5
-10	-5	29	6.5	-10	15	-5
-10	-5	27	6	-10	5	-5
-10	-5	18	7.6	-10	8	-5
-10	-5	31	7.5	-10	12	-5
-10	-5	39	4.1	-10	-2	-5
-10	-5	18	11.3	-10	4	-5
-10	-5	23	14.4	-10	4	-5
-10	-5	30	9.7	-10	9	-5
-10	-5	17	9.9	-10	12	-5
-10	-5	53	7.4	-10	7	-5
-10	-5	30	14.8	-10	5	-5
-10	-5	35	8.3	-10	4	-5
-10	-5	19	8.8	-10	39	-5
-10	-5	37	*INF	-10	8	-5
-10	-5	51	*INF	-10	8	-5
-10	-5	23	20.8	-10	6	-5
-10	-5	27	11.6	-10	5	-5
-10	-5	26	10.9	-10	6	-5
-10	-5	8	4	-10	4	-5
-10	-5	9	3.9	-10	15	-5
-10	-5	78	8.3	-10	24	-5
-10	-5	45	10.8	-10	13	-5
-10	-5	29	11	-10	7	-5

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Meråker DOB samples 2001

Spl.no	UTM E	UTM N	Depth	Target	Description	Smpl. Id	Be	Na	Mg	Al	P	K	Ca	Sc	Ti
						Sch Code	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
						Ana Unit	ppm	%	%	%	%	%	%	ppm	%
						Det Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01
FN50	645267	7041383	3.4	Fjergen N	grey silt	FN 50	-0.5	0.03	0.54	0.88	0.05	0.23	1.36	1.6	0.05
FN51	645317	7041383	3.4	Fjergen N	grey silt	FN 51	-0.5	0.04	0.66	1.11	0.05	0.35	1.6	2.9	0.06
FN52	645342	7041383	2.7	Fjergen N	grey silt	FN 52	-0.5	0.04	0.66	1.31	0.05	0.4	0.5	2.4	0.07
FN53	645367	7041380	2.8	Fjergen N	grey silt with fragm. and plug of finegrained greywacke	FN 53	-0.5	0.04	0.64	1.37	0.05	0.41	0.34	2.9	0.07
FN54	645392	7041383	3.8	Fjergen N	grey silt	FN 54	-0.5	0.03	1.04	1.48	0.06	0.47	0.94	2.8	0.08
FN55	645417	7041383	3.8	Fjergen N	rustybrown, greenish-grey silt with chlorite matr.	FN 55	-0.5	0.02	1.03	1.47	0.07	0.27	0.29	3.6	0.08
FN56	645467	7041383	0.5	Fjergen N	light grey silt with fragm.of chloritic mica schist	FN 56	-0.5	0.02	0.15	0.43	-0.01	0.03	0.04	1	0.08
FN57	645262	7041591	3.3	Fjergen N	grey silt with fragm. (endplug?) of greygreen sed.	FN 57	-0.5	0.03	0.61	0.91	0.07	0.15	1.39	2	0.04
FN58	645162	7041591	3.5	Fjergen N	grey silt	FN 58	-0.5	0.03	0.71	1.06	0.06	0.3	1.4	2.7	0.05
FN59	645212	7041591	4.2	Fjergen N	dark grey silt	FN 59	-0.5	0.03	0.8	1.18	0.05	0.39	1.85	3	0.06
FN60	645237	7041591	3.8	Fjergen N	dark grey silt, plug of dark grey sed. with qtz-veins	FN 60	-0.5	0.03	0.66	1.02	0.06	0.29	2.27	2	0.05
FN61	645362	7041591	3.8	Fjergen N	grey silt	FN 61	-0.5	0.03	0.67	0.99	0.06	0.25	2.01	2	0.05
FN62	645312	7041591	3.7	Fjergen N	dark grey silt	FN 62	-0.5	0.03	0.76	1.18	0.06	0.35	1.87	2.4	0.06
FN63	645364	7041275	3	Fjergen N	greenish-grey silt with plug of greenish-grey sed. (greywacke)	FN 63	-0.5	0.03	0.52	0.89	0.06	0.19	1.13	2.3	0.05
FN64	645264	7041275	3	Fjergen N	grey silt	FN 64	-0.5	0.03	0.46	0.73	0.06	0.13	0.8	2.5	0.04
FN65	645314	7041275	3.2	Fjergen N	grey silt, plug of grey sed.	FN 65	-0.5	0.04	0.56	0.98	0.06	0.22	1.66	2.8	0.08
FN66	645339	7041275	2.9	Fjergen N	grey silt	FN 66	-0.5	0.04	0.64	1.04	0.06	0.25	1.81	2.4	0.08
FN67	645464	7041275	1.9	Fjergen N	browngrey silt	FN 67	-0.5	0.05	0.83	1.77	0.06	0.26	0.34	3	0.1
FN68	645414	7041275	3.6	Fjergen N	grey silt	FN 68	-0.5	0.03	0.46	0.81	0.06	0.18	0.73	2.2	0.05
FN69	645389	7041275	3.8	Fjergen N	brownish greengrey silt	FN 69	-0.5	0.02	0.41	0.81	0.06	0.16	0.27	2.1	0.04
FN70	645750	7040940	1.6	Fjergen N	browngrey chlorite matr.	FN 70	-0.5	0.02	1.04	1.51	0.06	0.17	0.2	1.8	0.05
FN71	645700	7040940	1	Fjergen N	matr. and plug of chloritic greywacke, minor humus	FN 71	-0.5	0.02	2.29	2.88	0.07	0.23	0.23	3.3	0.08
	645650	7040940		Fjergen N	not possible										
FN72	645725	7040940	0.7	Fjergen N	mainly humus, rusty chlorite schist in end plug. LQS	FN 72	-0.5	0.02	0.29	0.52	0.03	0.05	0.23	1.1	0.04
FN73	645850	7040940	1.5	Fjergen N	brownish-green chloritic matr.	FN 73	-0.5	0.03	1.12	1.59	0.07	0.1	0.27	2	0.05
FN74	645800	7040940	1.3	Fjergen N	greengrey matr. of chloriterich greywacke	FN 74	-0.5	0.02	1.19	1.58	0.08	0.15	0.28	2.6	0.05
FN75	645775	7040940	0.6	Fjergen N	humus, plug of chlorite schist. LQS	FN 75	-0.5	0.03	1.34	1.84	0.06	0.33	0.23	3.6	0.12
						DUP-FN 58	-0.5	0.03	0.73	1.09	0.06	0.31	1.44	3.2	0.06
						DUP-FN 70	-0.5	0.02	1.03	1.49	0.06	0.17	0.21	1.7	0.05

Encl. 7

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Meråker DOB samples 2001

Spl.no	UTM E	UTM N	Depth	Target	Description	Smpl. Id	Be	Na	Mg	Al	P	K	Ca	Sc	Ti
						Sch Code	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
						Ana Unit	ppm	%	%	%	%	%	%	ppm	%
						Det Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01
FW50	643599	7038807	4.3	Fjergen W	greygreen silt with fragm. of amphibolite (gabbro)	FW 50	-0.5	0.02	0.75	1.16	0.06	0.18	0.21	2.4	0.05
FW51	643576	7038820	3.6	Fjergen W	grey silt	FW 51	-0.5	0.03	1.29	1.53	0.07	0.59	0.39	2.5	0.15
FW52	643552	7038831	3.5	Fjergen W	grey sandy silt	FW 52	-0.5	0.03	0.88	1.31	0.06	0.26	0.3	3.8	0.08
FW53	643509	7038853	1	Fjergen W	humus, minor grey silt at end. LQS	FW 53	-0.5	0.02	1.09	1.66	0.03	0.46	0.19	-0.5	0.11
FW54	643621	7038793	2.3	Fjergen W	grey silt	FW 54	-0.5	0.03	1.44	1.97	0.06	0.57	0.25	2.3	0.1
FW55	643644	7038781	4.5	Fjergen W	grey silt, minor humus	FW 55	-0.5	0.02	0.33	0.54	0.06	0.08	0.26	1.5	0.03
				Fjergen W	50m further ESE not possible										
FW56	643464	7038594	1.5	Fjergen W	greybrown silt	FW 56	-0.5	0.02	0.63	1.21	0.06	0.2	0.2	1.8	0.07
FW57	643442	7038604	1.4	Fjergen W	grey silt	FW 57	-0.5	0.03	0.89	1.47	0.05	0.25	0.25	2.9	0.09
FW58	643420	7038614	0.3	Fjergen W	humus, plug of greywacke. LQS	FW 58	-0.5	0.02	0.61	1.17	0.03	0.06	0.12	1.9	0.12
FW59	643374	7038633	0.9	Fjergen W	grey + rustybrown silt	FW 59	-0.5	0.02	1.15	1.82	0.05	0.43	0.22	1.5	0.1
FW60	643489	7038584	3.6	Fjergen W	grey silt	FW 60	-0.5	0.03	0.83	1.27	0.06	0.32	0.64	2.3	0.06
FW61	643513	7038574	4	Fjergen W	grey silt	FW 61	-0.5	0.02	0.77	1.1	0.07	0.25	0.24	1.6	0.05
				Fjergen W	50m further ESE not possible										
						DUP-FW 56	-0.5	0.02	0.62	1.2	0.05	0.2	0.2	1.9	0.08
Spl.no	UTM E	UTM N	Depth	Target	Description	Smpl. Id	Be	Na	Mg	Al	P	K	Ca	Sc	Ti
						Sch Code	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
						Ana Unit	ppm	%	%	%	%	%	%	ppm	%
						Det Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01
FO50	637020	7026600	2	Fossvatnet S	green, partly rustybrown silt + matr. and plug of fineg. amph + qtz-fragments	FO 50	-0.5	0.03	0.74	1.16	0.06	0.17	0.27	2.8	0.08
FO51	637070	7026600	4.5	Fossvatnet S	browngrey silt, minor sand, fragm. of rusty amphibolite + plug of qtz	FO 51	-0.5	0.03	0.57	0.86	0.06	0.09	0.25	2.4	0.07
FO52	637095	7026600	5	Fossvatnet S	browngreen silt with fragm. + plug of hbl schist	FO 52	-0.5	0.03	1.16	1.67	0.07	0.27	0.32	3.1	0.11
FO53	637120	7026600	3.4	Fossvatnet S	rusty-browngreen silt with fragm. + plug of partly rusty hbl schist	FO 53	-0.5	0.03	1.05	1.51	0.05	0.31	0.21	3.3	0.1
FO54	637145	7026600	5.1	Fossvatnet S	browngrey silt with fragm. + plug of amphibolite	FO 54	-0.5	0.03	1.16	1.6	0.06	0.28	0.22	2	0.07
FO55	637170	7026600	4.1	Fossvatnet S	greygreen silt w. fragm. of greensch, plug of graphite-rich greensch w. min sulf.	FO 55	-0.5	0.02	0.94	1.18	0.05	0.05	0.24	2.6	0.09
FO56	637220	7026580	3.9	Fossvatnet S	browngreen silt + matr. of amphibolite, both partly rusty	FO 56	-0.5	0.04	1.28	1.79	0.1	0.44	0.41	3	0.15
FO57	637170	7026450	3.7	Fossvatnet S	greygreen silt + matr. of hbl schist, partly with minor mica	FO 57	-0.5	0.03	0.88	1.03	0.05	-0.01	0.32	1.9	0.14
FO58	637120	7026450	3.2	Fossvatnet S	greygreen silt + matr. of finegrained, schisty amphibolite	FO 58	-0.5	0.03	0.81	1.14	0.06	0.07	0.38	2.9	0.12
FO59	637095	7026450	2.7	Fossvatnet S	greygreen silt + matr. of finegrained, schisty amphibolite	FO 59	-0.5	0.03	0.77	1.22	0.07	0.22	0.24	2.7	0.08
FO60	637070	7026450	3.7	Fossvatnet S	greygreen silt + matr. of finegrained, schisty amphibolite	FO 60	-0.5	0.03	0.6	0.76	0.05	0.03	0.39	1.6	0.14
FO61	637045	7026450	6.2	Fossvatnet S	greygreen silt + matr. of fineg., schisty amphibolite + minor sand in upper part	FO 61	-0.5	0.03	0.79	1.14	0.06	0.13	0.34	2.6	0.11
FO62	637020	7026450	7.1	Fossvatnet S	greygreen silt + matr. of fineg., schisty amphibolite + minor sand in upper part	FO 62	-0.5	0.03	0.52	0.67	0.07	0.07	1.08	2.1	0.08
FO63	637990	7026450	5.6	Fossvatnet S	greygreen silt + matr. of finegrained, schisty amphibolite	FO 63	-0.5	0.03	0.81	1.15	0.07	0.07	0.38	2.8	0.09
FO64	637060	7026180	2.5	Fossvatnet S	grey and brown silt + fragm. and plug of mica schist	FO 64	-0.5	0.05	1.17	1.62	0.07	0.12	0.51	4	0.13
FO65	637010	7026180	2.5	Fossvatnet S	greygreen, minor rustybrown silt, rel. mica-rich	FO 65	-0.5	0.04	0.77	1.15	0.05	0.1	0.33	2.1	0.08
FO66	636985	7026180	0.7	Fossvatnet S	greygreen, minor rustybrown silt	FO 66	-0.5	0.05	0.45	0.71	0.04	0.02	0.52	2.4	0.19
FO67	636960	7026180	1.8	Fossvatnet S	greygreen silt, plug of finegrained amphibole schist	FO 67	-0.5	0.05	1.03	1.49	0.06	0.32	0.49	3.6	0.14

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Meråker DOB samples 2001

Spl.no	UTM E	UTM N	Depth	Target	Description	Smpl. Id	Be	Na	Mg	Al	P	K	Ca	Sc	Ti
						Sch Code	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
						Ana Unit	ppm	%	%	%	%	%	%	ppm	%
						Det Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01
FO68	636935	7026180	1.6	Fossvatnet S	greygreen silt, plug of finegrained amphibole schist	FO 68	-0.5	0.05	0.92	1.34	0.07	0.18	0.47	3.2	0.11
FO69	636910	7026180	0.7	Fossvatnet S	dark rustybrown silt and rock matr. + plug of chloritic amphibole schist	FO 69	-0.5	0.04	1.26	1.9	0.06	0.23	0.32	4.2	0.11
FO70	636860	7026180	2.1	Fossvatnet S	dark greybrown silt and minor sand, fragm. of amphibolite	FO 70	-0.5	0.02	0.68	1.07	0.06	0.15	0.24	1.7	0.06
FO71	637010	7026000	1.2	Fossvatnet S	browngrey silt (minor contamination from steel shavings)	FO 71	-0.5	0.05	1.11	1.76	0.07	0.27	0.43	4.6	0.13
FO72	636960	7026000	3.2	Fossvatnet S	greybrown silt, partly greenish, with fragm. + plug of amph-mica schist	FO 72	-0.5	0.03	1.42	2.01	0.07	0.37	0.38	4	0.16
FO73	636935	7026000	1.9	Fossvatnet S	greygreen silt with fragm. + plug of amph schist	FO 73	-0.5	0.03	0.77	1.16	0.06	0.21	0.29	2.5	0.09
FO74	636910	7026000	1.9	Fossvatnet S	greygreen silt with fragm. + plug of amph schist	FO 74	-0.5	0.03	0.33	0.57	0.07	0.06	0.27	1.4	0.04
FO75	636885	7026000	5.6	Fossvatnet S	greybrown silt with fragm. of amphibolite and qtz	FO 75	-0.5	0.03	1.09	1.5	0.07	0.25	0.39	2.9	0.1
FO76	636860	7026000	3.8	Fossvatnet S	dark brown, partly rustyred silt with amph fragm	FO 76	-0.5	0.03	0.73	1.03	0.06	0.16	0.37	2.7	0.07
	636810	7026000		Fossvatnet S	not possible (densely forested steep slope)										
FO77	636670	7025500	4.6	Fossvatnet S	grey silt	FO 77	-0.5	0.04	0.43	0.58	0.07	0.14	1.26	1.7	0.04
FO78	636720	7025500	3.8	Fossvatnet S	grey silt	FO 78	-0.5	0.03	0.56	0.77	0.07	0.18	0.51	1.7	0.05
FO79	636745	7025500	1.8	Fossvatnet S	grey silt	FO 79	-0.5	0.03	1.03	1.49	0.07	0.11	0.34	2.7	0.06
FO80	636770	7025500	4.3	Fossvatnet S	grey silt	FO 80	-0.5	0.03	0.52	0.71	0.06	0.15	1.3	1.8	0.05
FO81	636795	7025500	4	Fossvatnet S	grey silt	FO 81	-0.5	0.04	0.65	0.92	0.07	0.26	1.59	1.9	0.06
FO82	636820	7025500	2.8	Fossvatnet S	grey silt with bio sch fragm	FO 82	-0.5	0.04	0.85	1.12	0.07	0.29	1.26	1.6	0.07
	636870	7025500		Fossvatnet S	not possible (densely forested steep slope)										
FO83	636642	7025377	3.6	Fossvatnet S	greygreen silt (minor contamination from steel shavings)	FO 83	-0.5	0.05	0.54	0.76	0.06	0.23	1.39	1.7	0.06
FO84	636692	7025377	3.1	Fossvatnet S	greygreen silt	FO 84	-0.5	0.04	0.57	0.79	0.07	0.22	1.66	1.9	0.05
FO85	636717	7025377	2.7	Fossvatnet S	greygreen silt	FO 85	-0.5	0.05	0.66	0.97	0.06	0.28	1.42	2	0.07
FO86	636742	7025377	2.6	Fossvatnet S	greygreen silt	FO 86	-0.5	0.04	0.63	0.88	0.07	0.27	1.5	2.3	0.06
FO87	636767	7025377	1.2	Fossvatnet S	greygreen silt	FO 87	-0.5	0.02	0.87	1.28	0.07	0.15	0.31	3.5	0.06
FO88	636792	7025377	4.3	Fossvatnet S	grey silt with fragm. of assumed greywacke	FO 88	-0.5	0.03	0.71	0.91	0.07	0.2	1.56	1.8	0.05
FO89	636842	7025377	4	Fossvatnet S	grey silt with fragm. of greywacke	FO 89	-0.5	0.03	0.58	0.78	0.07	0.17	1.59	1.4	0.04

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	Spl.no	Target	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb	Bi	Li
			ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
			ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
			2	1	2	0.01	1	1	0.5	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	2	5	1
	FN50	Fjergen N	19	21	332	1.6	11	25	23.2	57.7	-3	35.9	8.5	11.5	-1	-0.2	3	-10	18	53	15.9	30	6	9	10
	FN51	Fjergen N	26	29	331	1.84	7	27	26.6	37.3	-3	36.9	9.3	15.4	-1	-0.2	-1	-10	9	63	16.4	-10	7	-5	12
	FN52	Fjergen N	30	27	248	1.91	9	23	20	37.5	-3	18.9	9.1	16.1	-1	-0.2	-1	-10	-5	77	13.8	-10	5	-5	13
	FN53	Fjergen N	24	27	195	1.95	7	24	19.7	35.7	3	16.4	10	14.6	-1	0.8	3	-10	-5	75	20.2	-10	7	-5	10
	FN54	Fjergen N	34	46	285	2.54	7	37	20.3	47.9	-3	23.8	11	18.2	-1	-0.2	-1	-10	-5	69	18.6	-10	6	-5	20
	FN55	Fjergen N	34	46	188	2.75	12	40	28.7	54.5	5	14	16.4	16.1	2	-0.2	-1	-10	37	38	27.6	-10	10	-5	22
	FN56	Fjergen N	26	17	29	0.81	-1	6	1.4	9.2	-3	3.4	1.5	3.1	-1	-0.2	-1	-10	15	8	1.1	-10	14	-5	3
	FN57	Fjergen N	19	22	248	1.59	5	27	30.5	47.6	-3	39.1	8.9	12.2	2	-0.2	1	-10	-5	39	19.3	-10	8	-5	11
	FN58	Fjergen N	20	25	353	1.81	10	25	23.2	43.8	-3	37.5	10.5	19.1	1	-0.2	-1	-10	-5	56	19.3	-10	7	-5	12
	FN59	Fjergen N	24	27	366	1.99	8	29	23.4	47	-3	47.3	10.6	17.2	1	-0.2	1	-10	15	65	19.4	-10	7	-5	14
	FN60	Fjergen N	22	23	363	1.94	7	31	28	47.1	-3	57.1	11.2	19	4	-0.2	-1	-10	10	60	18.2	-10	8	9	13
	FN61	Fjergen N	21	23	336	1.8	14	25	23.5	38.3	-3	52	10.2	14.7	-1	-0.2	4	-10	-5	43	16.9	-10	2	-5	13
	FN62	Fjergen N	23	28	369	2.02	8	29	28	50.6	-3	50.1	10.7	17.2	2	-0.2	2	-10	-5	62	18.8	-10	7	-5	13
	FN63	Fjergen N	18	18	437	1.72	5	20	23.7	44.6	6	32.5	9.7	10.7	-1	-0.2	-1	-10	28	48	13.3	-10	7	-5	9
	FN64	Fjergen N	14	17	153	1.3	4	22	24.9	41.7	-3	21.3	10.7	11.4	2	-0.2	-1	-10	-5	31	18.9	-10	10	-5	11
	FN65	Fjergen N	23	22	310	1.65	5	23	22.9	41.1	12	44.4	10.7	16.7	-1	-0.2	2	-10	-5	51	20.5	-10	7	-5	10
	FN66	Fjergen N	24	27	412	1.78	8	25	20.8	41.7	-3	45.3	11.1	15.3	2	-0.2	1	-10	-5	50	21.1	-10	7	-5	11
	FN67	Fjergen N	31	38	386	2.16	9	35	28.7	45.4	6	18	10.4	12.6	1	-0.2	-1	-10	-5	60	18.4	-10	6	-5	13
	FN68	Fjergen N	19	18	371	1.59	6	21	22.6	39.9	6	23.6	9.8	13.4	-1	-0.2	-1	-10	-5	48	19.9	14	11	-5	9
	FN69	Fjergen N	17	17	153	1.62	9	22	23.3	44.3	8	14.3	10.3	11.8	1	-0.2	3	-10	11	43	16.1	-10	12	6	8
	FN70	Fjergen N	26	36	167	2.12	6	29	16.9	63.7	-3	10.3	5.9	6.7	1	-0.2	-1	-10	8	24	11	-10	12	-5	20
	FN71	Fjergen N	39	52	261	4.59	20	65	19.8	84	-3	8.9	5	23.1	2	-0.2	-1	-10	-5	26	12.3	-10	8	12	27
		Fjergen N																							
	FN72	Fjergen N	7	18	38	0.62	-1	9	5.9	20.6	12	15.1	2.6	3.2	1	-0.2	-1	-10	-5	11	2.6	-10	5	-5	6
	FN73	Fjergen N	28	45	167	2.35	9	35	24.4	49.8	-3	13	9.2	10.4	-1	-0.2	-1	-10	-5	18	23	19	12	-5	20
	FN74	Fjergen N	27	38	151	2.45	9	36	18.8	51.1	7	13.8	7.6	9.3	-1	1.7	-1	-10	-5	19	22.2	-10	11	7	18
	FN75	Fjergen N	41	66	182	2.94	14	42	21.1	60.5	-3	9.9	6.5	10.2	-1	0.4	-1	-10	16	30	13.9	10	6	-5	18
			19	25	364	1.88	9	25	23.8	44.3	-3	38.5	10.5	17.9	2	-0.2	-1	-10	-5	55	17.1	-10	5	-5	11
			29	34	170	2.09	5	30	15.1	61.6	5	10.4	6.5	8	-1	-0.2	-1	-10	8	21	9.5	-10	11	-5	19

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Spl.no	Target	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb	Bi	Li
		ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		2	1	2	0.01	1	1	0.5	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	2	5	1
FW50	Fjergen W	23	34	464	1.89	12	29	37.7	52.1	-3	10.4	17.1	8.4	2	-0.2	2	-10	-5	52	29.4	13	15	-5	11
FW51	Fjergen W	32	58	424	2.28	18	66	29.1	145	16	13.5	10.2	13.4	-1	-0.2	-1	-10	-5	189	12.5	13	4	-5	12
FW52	Fjergen W	27	35	215	1.9	6	28	31.1	50.6	11	13.9	12.8	13	-1	-0.2	-1	-10	-5	66	22	-10	4	-5	9
FW53	Fjergen W	56	24	220	2.09	16	18	28.3	55.9	-3	6.1	3.9	4	1	-0.2	-1	-10	8	265	8	-10	5	-5	9
FW54	Fjergen W	49	64	287	2.76	9	43	32.6	195	7	9.6	11	13.9	1	0.5	-1	-10	-5	137	15.5	-10	5	-5	20
FW55	Fjergen W	11	14	78	0.77	-1	13	44.8	31.9	12	11.8	9.6	4.8	-1	-0.2	-1	-10	-5	26	17.4	-10	7	-5	6
	Fjergen W																							
FW56	Fjergen W	23	29	106	1.27	4	20	19	65.6	-3	9	5.4	5.7	1	-0.2	-1	-10	-5	34	10.2	-10	8	-5	10
FW57	Fjergen W	32	33	184	1.79	7	27	42.2	224	-3	13	8.5	11.4	1	-0.2	-1	-10	-5	56	14.1	-10	12	-5	11
FW58	Fjergen W	38	35	573	2.76	14	17	11.3	51.9	-3	5.6	4.1	5.7	-1	-0.2	2	-10	-5	33	5.2	18	5	-5	6
FW59	Fjergen W	32	60	496	2.58	9	31	106	283	6	8.2	9.5	10.9	-1	-0.2	-1	-10	7	85	16.8	-10	3	-5	11
FW60	Fjergen W	29	33	244	2.12	6	32	27.5	147	5	22.5	11.3	15.5	-1	-0.2	-1	-10	-5	58	24.4	-10	4	-5	13
FW61	Fjergen W	24	32	150	1.78	5	26	37.5	96.5	-3	10.8	9.5	11.5	-1	-0.2	-1	-10	-5	42	17.1	-10	3	-5	12
	Fjergen W																							
		26	30	106	1.26	5	19	19.1	75.1	-3	8.7	5.5	5.1	-1	-0.2	-1	-10	-5	32	11.4	-10	7	-5	10

Spl.no	Target	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb	Bi	Li
		ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		2	1	2	0.01	1	1	0.5	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	2	5	1
FO50	Fossvatnet S	29	33	182	1.95	13	29	91.4	82.5	4	6.8	8.7	1.3	2	-0.2	2	-10	-5	23	12.8	-10	5	-5	9
FO51	Fossvatnet S	20	24	389	2.68	24	33	123	119	-3	6.9	8	6.3	2	0.9	-1	-10	-5	23	9.9	-10	5	-5	5
FO52	Fossvatnet S	40	53	375	3.22	16	41	71.3	80.4	-3	10.1	8.9	10.5	2	0.5	1	-10	27	42	15.9	13	9	-5	13
FO53	Fossvatnet S	38	43	675	2.53	9	35	31.7	324	6	8.8	10.3	12	-1	-0.2	1	-10	-5	44	19	-10	10	9	14
FO54	Fossvatnet S	40	52	246	2.76	18	44	114	311	-3	7.7	8	4.2	2	-0.2	-1	-10	-5	41	13	-10	9	-5	12
FO55	Fossvatnet S	33	32	256	2.54	16	29	160	927	-3	5.1	7.6	4.7	1	-0.2	2	-10	-5	19	5.2	12	-2	6	3
FO56	Fossvatnet S	56	40	335	3.46	18	34	46.5	300	-3	11.2	12.3	9.2	3	1.2	3	-10	-5	86	12.5	-10	10	8	15
FO57	Fossvatnet S	33	32	198	1.85	21	25	96.7	223	-3	4.3	4.1	-0.5	1	0.4	-1	-10	-5	8	-0.5	-10	2	-5	3
FO58	Fossvatnet S	33	30	219	1.98	12	30	127	95.1	8	6.9	8.2	5	-1	-0.2	2	-10	-5	21	10.3	-10	4	-5	4
FO59	Fossvatnet S	28	29	173	1.83	9	29	86.7	98.8	-3	7.6	7.3	2.2	-1	-0.2	-1	-10	13	30	13.3	-10	10	-5	10
FO60	Fossvatnet S	26	21	162	1.96	16	27	108	104	4	5.6	5.6	3.1	3	-0.2	1	-10	24	11	6.4	-10	3	-5	4
FO61	Fossvatnet S	34	31	201	1.88	11	30	86.1	80.8	-3	8.7	7.4	2.3	2	0.2	3	-10	13	24	18.8	-10	6	-5	6
FO62	Fossvatnet S	20	18	224	1.15	7	16	39.7	57.9	-3	24	7.1	3.8	-1	-0.2	-1	-10	6	16	7.1	-10	2	-5	4
FO63	Fossvatnet S	30	31	205	1.77	11	27	100	74.1	-3	12.7	7.8	7	-1	1	1	-10	-5	27	11.6	-10	3	-5	6
FO64	Fossvatnet S	51	53	426	2.86	13	33	28.2	150	-3	8.9	9.3	6.9	3	-0.2	-1	-10	-5	22	11	-10	23	-5	10
FO65	Fossvatnet S	28	33	147	1.87	6	22	30.2	143	-3	6.9	4.6	2.5	-1	-0.2	2	-10	-5	18	7.9	-10	5	-5	10
FO66	Fossvatnet S	38	18	186	1.49	6	13	10.3	96.9	4	4.4	4.6	-0.5	1	-0.2	-1	-10	33	7	1.3	-10	4	-5	4
FO67	Fossvatnet S	49	41	380	2.47	12	32	44.7	155	-3	7	7.4	4.8	3	-0.2	1	-10	-5	48	4.1	-10	7	-5	8

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Meråker DOB samples 2001

	Spl.no	Target	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb	Bi	Li
			ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
			ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
			2	1	2	0.01	1	1	0.5	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	2	5	1
	FO68	Fossvatnet S	47	39	400	2.59	30	40	79.5	114	-3	8.4	7.3	5.9	2	0.7	-1	-10	-5	27	10.1	-10	7	-5	7
	FO69	Fossvatnet S	44	55	499	3.11	17	36	36.5	174	-3	9.1	8.3	7.1	3	0.2	2	-10	-5	35	17.7	-10	13	-5	13
	FO70	Fossvatnet S	24	30	158	1.46	8	20	43.5	54	-3	9.4	5.2	4.7	-1	-0.2	-1	-10	-5	39	11.4	-10	7	-5	8
	FO71	Fossvatnet S	52	63	762	2.75	19	33	28.9	456	-3	8.9	9.2	4.1	3	-0.2	-1	-10	16	55	11.9	-10	12	-5	12
	FO72	Fossvatnet S	49	56	448	3.52	18	46	126	111	-3	11.2	12.4	8.8	2	-0.2	-1	-10	-5	49	33	-10	4	-5	13
	FO73	Fossvatnet S	32	43	143	1.54	2	17	45.1	110	-3	6.7	5.3	4	2	-0.2	-1	-10	9	24	9.7	-10	3	-5	5
	FO74	Fossvatnet S	16	14	92	0.74	3	13	54	45.3	-3	6.2	4.8	3.3	2	-0.2	-1	-10	6	15	9.8	-10	2	-5	5
	FO75	Fossvatnet S	38	43	350	2.58	7	38	81.9	144	-3	14.2	12.1	6.9	1	-0.2	-1	-10	-5	45	20.6	-10	8	-5	12
	FO76	Fossvatnet S	32	33	1090	1.98	14	27	62.5	83.8	6	9.6	12.3	4.2	2	-0.2	4	-10	6	43	22.5	-10	10	-5	8
		Fossvatnet S																							
	FO77	Fossvatnet S	18	17	235	1.15	6	17	27	126	-3	30.4	6.4	7.1	-1	-0.2	2	-10	14	25	9.5	-10	3	-5	5
	FO78	Fossvatnet S	23	23	192	1.42	7	19	40.6	72.9	-3	14.5	6.6	6.6	-1	-0.2	-1	-10	-5	35	10.8	-10	4	-5	4
	FO79	Fossvatnet S	32	42	278	2.37	15	31	67.6	83.4	-3	12.2	7.5	5.5	-1	0.4	-1	-10	-5	39	16.3	-10	5	-5	5
	FO80	Fossvatnet S	19	19	240	1.33	4	17	33.7	125	-3	30.9	6.7	5.7	-1	-0.2	-1	-10	7	30	11.6	-10	2	-5	6
	FO81	Fossvatnet S	25	27	336	1.63	8	21	32.4	184	-3	38.4	8	5.4	2	-0.2	2	-10	23	50	14.2	-10	5	-5	9
	FO82	Fossvatnet S	24	35	300	1.91	4	25	26.6	253	-3	31.7	7.6	7.9	2	-0.2	2	-10	14	47	14.2	10	-2	-5	7
		Fossvatnet S																							
	FO83	Fossvatnet S	19	22	521	1.91	5	20	26.7	673	-3	38.3	8.2	3.7	1	-0.2	-1	-10	-5	35	14.7	-10	6	-5	6
	FO84	Fossvatnet S	22	21	279	1.49	7	18	31.7	142	6	40.4	7.4	7.3	1	-0.2	-1	-10	-5	38	13.3	14	4	-5	7
	FO85	Fossvatnet S	26	29	266	1.9	10	21	31.5	289	-3	33.1	7.9	5.4	-1	-0.2	-1	-10	-5	55	16.3	-10	-2	-5	7
	FO86	Fossvatnet S	21	25	278	1.7	4	20	32.2	140	4	36.6	7.5	10.8	-1	-0.2	-1	-10	-5	54	17.7	-10	6	-5	8
	FO87	Fossvatnet S	33	35	271	2.05	8	27	62.3	70.1	-3	10.5	8.5	7.5	-1	-0.2	3	-10	28	38	20.2	-10	6	5	6
	FO88	Fossvatnet S	21	24	317	1.63	7	21	45.9	69.9	-3	36.9	7.3	6.2	-1	-0.2	3	-10	-5	30	12.1	-10	6	-5	6
	FO89	Fossvatnet S	19	21	269	1.33	6	18	27.3	36.5	-3	36.5	7	5	2	-0.2	2	-10	13	30	11.3	-10	-2	-5	8

Prepared by Bernt Røsholt 1/18/02

Auger soil results Fossvatnet 2001

Sample no	UTM E	UTM N	Target	Sample Iden	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe
				Scheme Cod	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
				Analysis Uni	ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%
				Detection Li	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01
AB037	637500	7026300	Fossvatnet	AB037	<0.5	<0.01	0.03	0.26	<0.01	<0.01	0.07	1	0.19	41	10	11	0.18
AB038	637475	7026300	Fossvatnet	AB038	<0.5	0.01	0.34	0.7	<0.01	<0.01	0.17	1.9	0.47	71	20	102	0.91
AB039	637450	7026300	Fossvatnet	AB039	<0.5	<0.01	<0.01	0.29	<0.01	0.01	0.02	1.1	0.08	16	10	5	0.04
AB040	637400	7026300	Fossvatnet	AB040	<0.5	<0.01	0.02	0.37	<0.01	0.02	0.03	1.6	0.12	14	19	6	0.04
AB041	637525	7026300	Fossvatnet	AB041	<0.5	<0.01	0.05	0.31	<0.01	0.02	0.05	2	0.12	17	19	12	0.09
AB042	637550	7026300	Fossvatnet	AB042	<0.5	<0.01	0.02	0.27	<0.01	0.01	0.03	0.9	0.15	18	13	6	0.07
AB043	637600	7026300	Fossvatnet	AB043	<0.5	0.01	0.2	0.64	0.03	0.03	0.12	1.8	0.07	17	19	41	0.34

					Co	Ni	Cu	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb
					ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					1	1	0.5	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5
AB037	637500	7026300	Fossvatnet	AB037	5	<1	4.7	2.3	<3	2.8	1.9	1.1	<	<0	<	<	<5
AB038	637475	7026300	Fossvatnet	AB038	11	4	9.4	9.9	<3	2.6	4.7	<0	<	0.4	<	<	<5
AB039	637450	7026300	Fossvatnet	AB039	2	<1	5	1.6	<3	1.8	1.4	1.6	<	<0	<	<	<5
AB040	637400	7026300	Fossvatnet	AB040	2	1	3.3	1.7	<3	2.4	2.2	0.9	<	<0	<	<	<5
AB041	637525	7026300	Fossvatnet	AB041	3	1	3.8	2.9	<3	3.6	4.1	1.1	2	<0	<	<	<5
AB042	637550	7026300	Fossvatnet	AB042	2	1	1.6	1.6	<3	2.4	1.5	1.9	<	<0	<	<	<5
AB043	637600	7026300	Fossvatnet	AB043	3	4	32	10.3	<3	5.9	4.9	<0	1	0.3	<	<	<5

					Ba	La	W	Pb	Bi	Li
					ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
					ppm	ppm	ppm	ppm	ppm	ppm
					1	0.5	10	2	5	1
AB037	637500	7026300	Fossvatnet	AB037	4	2.7	<10	<2	<5	<1
AB038	637475	7026300	Fossvatnet	AB038	5	<0.5	<10	<2	<5	2
AB039	637450	7026300	Fossvatnet	AB039	5	5	<10	5	<5	<1
AB040	637400	7026300	Fossvatnet	AB040	7	4.9	<10	7	<5	<1
AB041	637525	7026300	Fossvatnet	AB041	8	7.2	<10	5	<5	<1
AB042	637550	7026300	Fossvatnet	AB042	4	3.6	<10	8	<5	<1
AB043	637600	7026300	Fossvatnet	AB043	13	8.7	<10	<2	<5	3

Enc. 8.