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Tittel Drilling results Røsjøen (Rødalen) Target 2001, Røros, Norway				
Forfatter Rosholt, Bernt Wilberg, Rune		Dato År 2001	Bedrift (Oppdragsgiver og/eller oppdragstaker) Crew Norway AS	
Kommune Roros	Fylke Sør-Trøndelag	Bergdistrikt	1: 50 000 kartblad 17203	1: 250 000 kartblad Roros
Fagområde Boring		Dokument type	Forekomster (forekomst, gruvefelt, undersøkelsesfelt) Rødalen Røsjøen	
Råstoffgruppe Malm/metall		Råstofftype Zn Cu Au		
Sammendrag, innholdsfortegnelse eller innholdsbeskrivelse A drilling program of 6 holes with a total of 643m was carried out during August/September 2001. The proposed program was envisaged to be about 1300m, but as results became clear during the drilling operation, the program was limited to about the half. In spite of encouraging anomalies and several intersections of cupper and zink mineralizations, it is obvious that this target for the time being is not economic. No further work is recommended.				



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DRILLING RESULTS

RØSJØEN (RØDALEN) TARGET 2001

Bernt Røsholt
Rune Wilberg

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Enclosures.

- No 1 Røsjøen (Rødalen) field report 2001 with core logging, R. Wilberg.
- No 2 Complete list of chemical analysis Au + 34.
- No 3 Certificate of analysis, ALS Chemex.

Drilling results Røsjøen (Rødalen) 2001

Background.

The Røsjøen target is located East of lake Røsjøen in the Western part of The Kongens trend in "Nordgruvefeltet". The target is located about 15 km NNW of the Røros Township in Røsjø formation and intrusive and extrusive rocks "Nordgruvefeltet" ("North Mining ore field") was found as early as 1657 when the first mine Arvedal was found in this area, and mining has taken place in this area almost continuously until 1977, when Lergruvbakken mine was closed. Around 4 mill. tonnes of copper-zinc ore has been extracted from "The North Mining ore field". Zinc was only extracted from the last operating mine, Lergruvbakken. All the deposits and claims in the target area was described and sampled by Crew (Mindex) in 1998. Overview over Nordgruvefeltet, **see fig no 1**.

In 1999 the Røros area was covered by a helicopter survey and a distinct coinciding EM-Mag anomaly appeared over Røsjøen target area. See NGU Report 99.118.

Ground Mag, VLF and EM horizontal loop survey over the target area confirmed the helicopter anomalies. See Quantec Geoscience report Sept 2000.

Deep soil samples and prospecting was also carried out in the target area. Strong geochemical anomalies as well as mineralized floats and heavy metals poisoned areas were located. The local target area is covered by marshland, however, a geological map has been made. Rui 1981. **Fig no2** exhibits the local geology with DOB samples anomalies, proposed and actual drill holes 2001.

Drilling program.

A drilling program of 6 drill holes with a total of 643m was carried out during August/September 2001. The proposed program was envisaged to be about 1300m, but as the results became clear during the drilling operation, the program was limited to about the half.

The table below gives the locations, depths etc. of the holes.

Drilling at Røsjøen (Rødalen) Target, Røros

Drillhole	UTM E	UTM N	Elev.(m)	Dip	Azim.	Overb.	Tot depth
1A	615555	6951644	852	60	54	3,1	71,30
1B	615503	6951571	845	70	234	5,0	110,30
2A	615686	6951500	858	45	54	3,9	125,35
2B	615643	6951500	853	60	54	4,8	98,20
2C	615566	6951435	848	60	54	4,0	110,10
3A	615810	6951365	865	45	54	5,1	127,60
Sum						25,9	642,85

6960000

6955000

6950000

6945000

6940000

615000

620000



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Røros Northern Ore Field

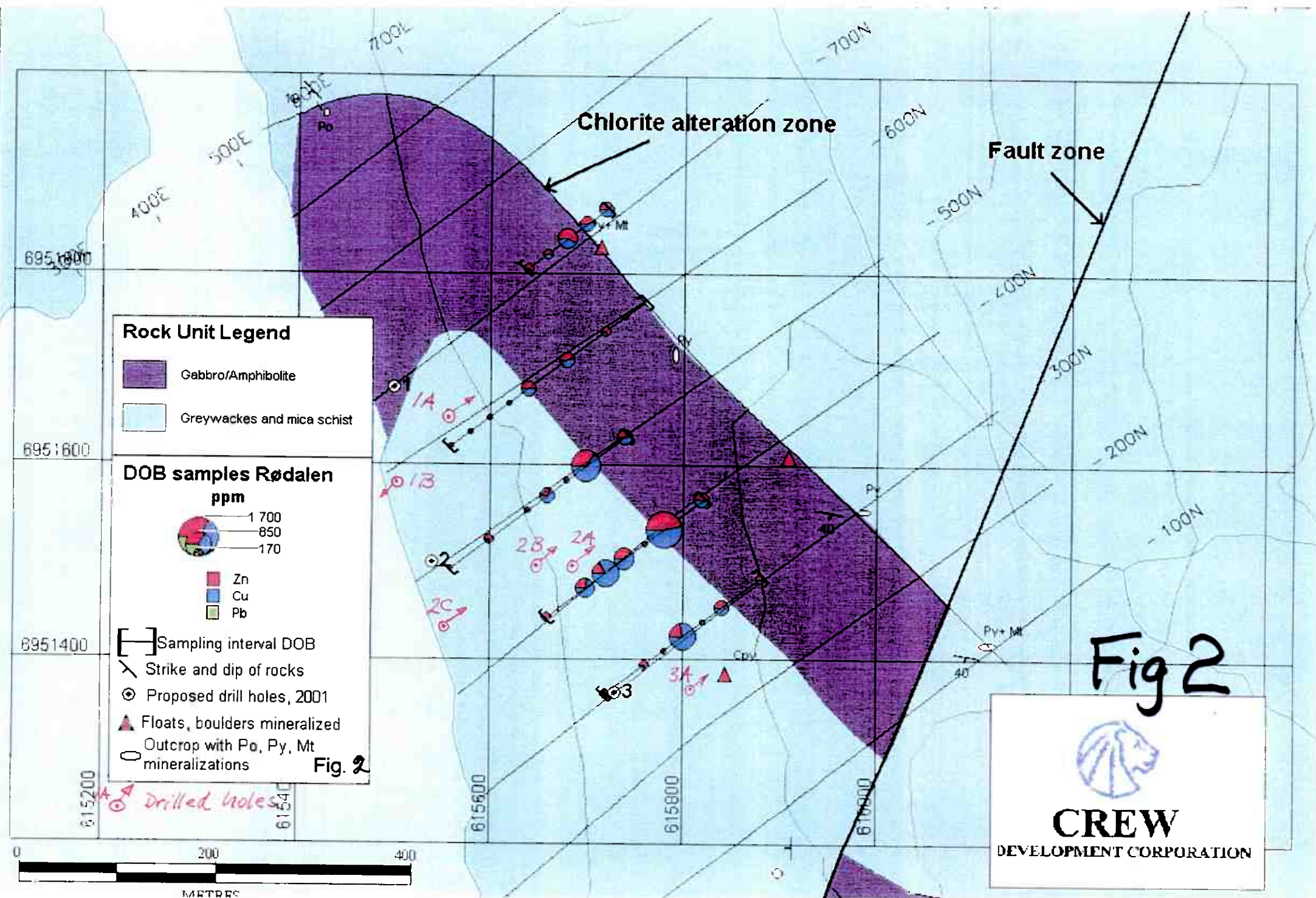
-  Røros schist in the Stugusjø Formation
-  Fjellsjø Formation
-  Røsjø Formation
-  Mafic Intrusive Rock

R Røsjø (Rødalen) Target

 Showings and mines

Fig. 1





Drilling results.

Both geology and anomalies were confirmed by the drilling. The central gabbro/amphibolite zone has a thickness up to 60m and comprises mostly of an extrusive finegrained amphibolite. The zone of finegrained amphibolite is intruded by 2-3 dykes of fine to medium grained gabbro. A chlorite schist layer is located a few metres below the amphibolite. Above and below the amphibolite a finegrained sedimentary rock with mica schist, garben schist and siltstone is occurring. Thin mineralized bands with pyrrhotite, chalcopyrite and sphalerite are occurring frequently both in, below and above the finegrained amphibolite. Pyrite is rare. **Fig no 3 and 4** exhibits the three sections from the target area based on the very few outcrops and results from the drill holes.

Suceptibility measurements at the drill cores returned high numbers in the mineralized sections confirming the high magnetic anomalies over the target.

Pyrrhotite occurred often as narrow continuous bands, and this confirms the strong EM anomalies. More details of geology and mineralizations, see enclosure no 1, Field report and core logging from Røsjøen 2001 by Rune Wilberg with colored drill sections.

Below, a list of the assay results of Au, Ag, Cu and Zn is presented. Enclosure no 2 is a complete assay list of 35 elements. Cu and Zn is present in small amounts in most of the assayed sections. A few sections contained some sections like drillhole no 2C with 1% Cu and 1,9% Zn over 1,3m, 3A with 1,6% Cu and 0,2% Zn over 0,4m, 2A with 1% Cu and 0,1% Zn over 0,3m and 2B with 0,7% Cu and 0,1% Zn over 0,3m.

RØSJØEN (Rødalen) Drill target 2001 with results

SAMPL	DDH	From	To	Section	Au	Ag	Cu	Zn
DESCR.	No	m	m	m	ppb	ppm	ppm	ppm
400737	1A	14,60	15,50	0,90	<1	<0.2	1210	92
400738	1A	16,60	17,80	1,20	<1	<0.2	863	70
400739	1A	18,80	20,15	1,35	8	0.8	3130	462
400740	1A	21,65	23,15	1,50	<1	<0.2	546	386
400741	1A	24,65	25,65	1,00	<1	<0.2	858	2130
400742	1A	26,35	27,75	1,40	<1	<0.2	996	8140
400743	1A	28,50	29,20	0,70	2	<0.2	471	2310
400744	1A	44,20	44,50	0,30	<1	<0.2	102	58
400745	1A	52,40	52,90	0,50	<1	<0.2	1905	3850
	1B	Not	assayed					
400651	2A	3,90	5,20	1,30	<1	0.2	102	40
400652	2A	5,20	8,10	2,90	9	1.2	2510	308
400653	2A	8,10	12,60	4,50	<1	0.8	400	66
400654	2A	12,60	14,30	1,70	<1	<0.2	239	74
400655	2A	14,30	16,80	2,50	22	1.2	4260	742
400656	2A	16,80	18,00	1,20	1	<0.2	943	322
400657	2A	18,00	19,90	1,90	<1	<0.2	357	82
400658	2A	19,90	21,80	1,90	<1	<0.2	1110	198
400659	2A	21,80	25,00	3,20	<1	<0.2	52	30
400660	2A	25,00	31,00	6,00	<1	<0.2	60	34
400661	2A	31,00	36,00	5,00	<1	<0.2	228	96
400662	2A	36,00	39,30	3,30	<1	<0.2	184	352

Røsjøen

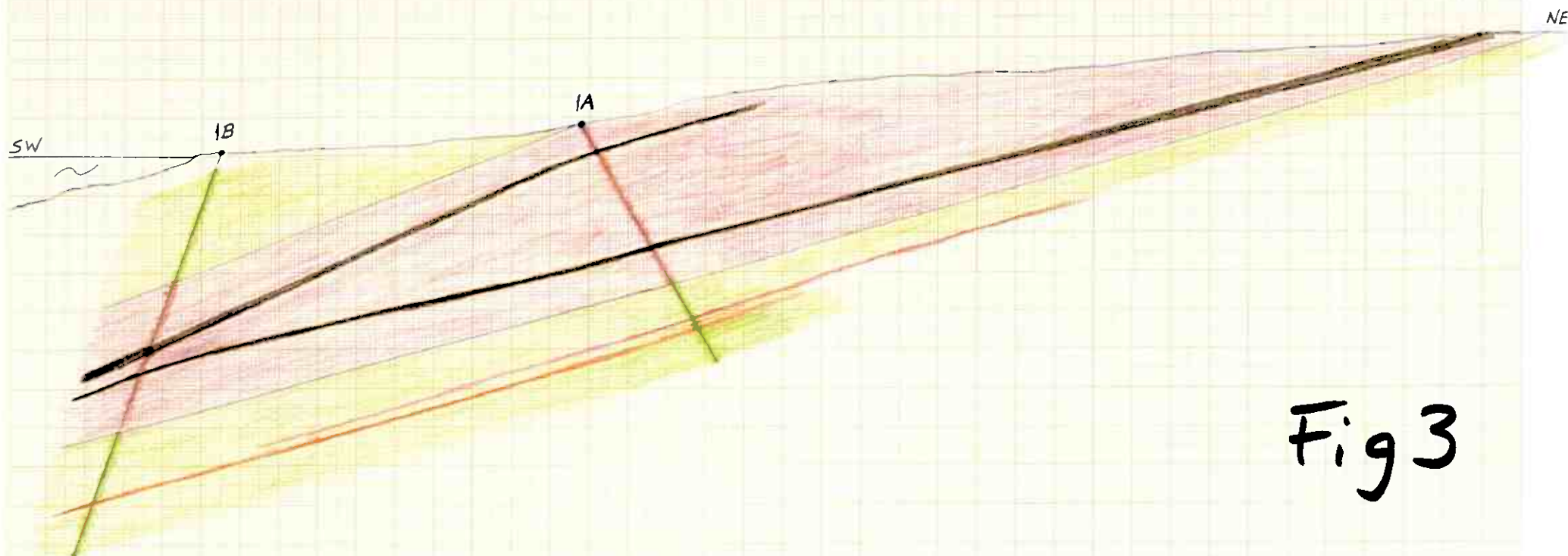


Fig 3

0 50m

Nøysjøen

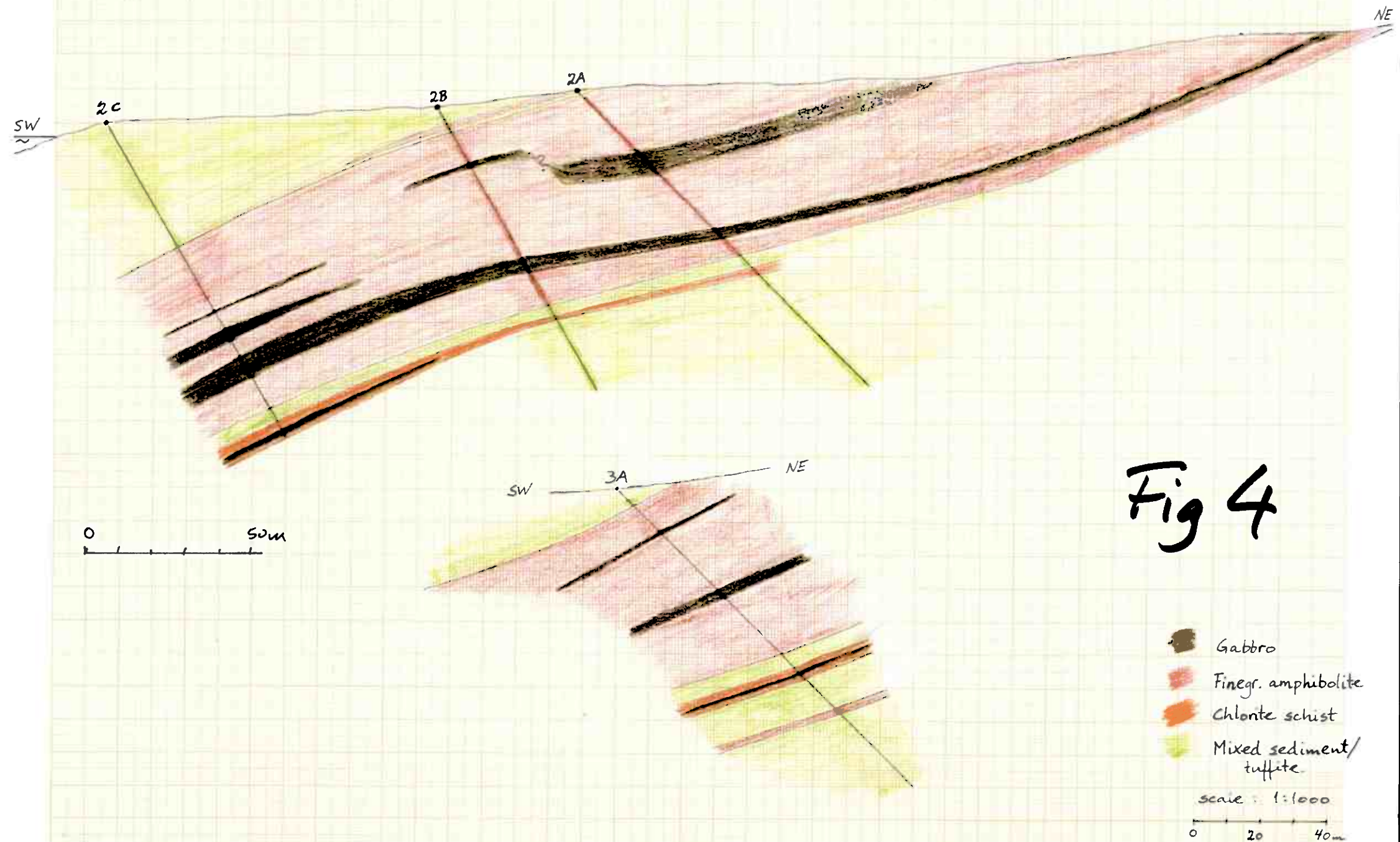


Fig 4

SAMPL	DDH	From	To	Section	Au	Ag	Cu	Zn
DESCR.	No	m	m	m	ppb	ppm	ppm	ppm
400663	2A	39,30	43,30	4,00	<1	<0.2	92	80
400664	2A	43,30	45,30	2,00	<1	<0.2	388	832
400665	2A	45,30	51,00	5,70	<1	<0.2	73	46
400666	2A	51,00	51,80	0,80	44	1.8	3990	972
400667	2A	51,80	55,50	3,70	1	<0.2	52	30
400668	2A	55,50	58,50	3,00	<1	<0.2	220	64
400669	2A	58,50	59,70	1,20	<1	<0.2	152	76
400670	2A	59,70	60,00	0,30	<1	<0.2	331	130
400671	2A	60,00	63,00	3,00	<1	<0.2	58	40
400672	2A	63,00	67,00	4,00	<1	<0.2	85	82
400673	2A	67,00	70,10	3,10	<1	<0.2	302	1015
400674	2A	70,10	74,90	4,80	<1	<0.2	271	874
400675	2A	74,90	75,45	0,55	2	0.2	1205	540
400676	2A	75,45	75,75	0,30	33	4.6	10400	1020
400677	2A	75,75	78,10	2,35	<1	<0.2	524	618
400678	2A	78,10	80,00	1,90	2	0.2	718	380
400679	2A	80,00	83,00	4,00	1	<0.2	159	402
SAMPL	DDH	From	To	Section	Au	Ag	Cu	Zn
DESCR.	No	m	m	m	ppb	ppm	ppm	ppm
400680	2B	4,80	5,70	0,90	<1	<0.2	17	56
400681	2B	5,70	7,55	1,85	7	<0.2	1690	456
400682	2B	7,55	8,20	0,65	2	<0.2	394	98
400683	2B	8,20	11,60	3,40	3	<0.2	737	146
400684	2B	11,60	12,50	0,90	110	2.6	6700	614
400685	2B	12,50	13,20	0,70	1	<0.2	424	148
SAMPL	DDH	From	To	Section	Au	Ag	Cu	Zn
DESCR.	No	m	m	m	ppb	ppm	ppm	ppm
400686	2B	13,20	15,80	2,60	5	0.6	2460	288
400687	2B	15,80	19,00	3,20	<1	<0.2	264	70
400688	2B	19,00	21,00	4,00	<1	<0.2	153	54
400689	2B	21,00	22,30	1,30	5	0.8	2870	1230
400690	2B	22,30	24,00	1,70	<1	<0.2	1475	618
400691	2B	24,00	27,00	3,00	<1	<0.2	453	282
400692	2B	27,00	30,00	3,00	<1	<0.2	120	66
400693	2B	30,00	33,00	3,00	<1	<0.2	317	526
400694	2B	33,00	36,00	3,00	<1	<0.2	193	364
400695	2B	36,00	39,35	3,35	<1	<0.2	81	56
400696	2B	39,35	41,10	1,75	<1	<0.2	513	3870
400697	2B	41,10	43,80	2,70	<1	<0.2	83	96
400698	2B	43,80	46,80	3,00	<1	<0.2	290	134
400699	2B	46,80	50,35	3,55	<1	<0.2	69	40
400700	2B	50,35	51,00	0,65	<1	<0.2	505	44
400701	2B	51,00	57,00	6,00	<1	<0.2	96	68
400702	2B	57,00	59,00	2,00	<1	<0.2	170	338
400703	2B	59,00	64,00	5,00	<1	<0.2	46	50
400704	2B	64,00	68,35	4,35	<1	<0.2	58	60
400705	2B	68,35	71,60	3,25	<1	<0.2	61	422
400706	2B	71,60	73,00	1,40	<1	<0.2	749	1950

SAMPL	DDH	From	To	Section	Au	Ag	Cu	Zn
DESCR.	No	m	m	m	ppb	ppm	ppm	ppm
400707	2B	73,00	76,00	3,00	<1	<0.2	139	606
400708	2B	76,00	79,00	3,00	1	<0.2	195	260
400709	2C	18,00	19,00	1,00	<1	<0.2	12	610
400710	2C	33,00	34,00	1,00	<1	<0.2	135	46
400711	2C	43,00	43,70	1,70	<1	<0.2	365	78
400712	2C	43,70	48,30	0,60	<1	0.2	539	110
400713	2C	48,30	50,60	2,30	<1	<0.2	556	132
400714	2C	50,60	51,80	0,80	<1	<0.2	306	154
400715	2C	51,80	53,30	1,50	<1	<0.2	281	380
400716	2C	53,30	54,05	0,75	<1	<0.2	824	3720
400717	2C	54,05	55,15	1,10	<1	<0.2	394	726
400718	2C	55,15	56,40	1,25	<1	<0.2	2020	2550
400719	2C	56,40	58,50	2,10	<1	<0.2	927	1265
400720	2C	58,50	59,80	1,30	<1	0.2	972	19400
400721	2C	59,80	60,90	1,10	<1	<0.2	262	464
400722	2C	60,90	61,50	0,60	<1	<0.2	435	2570
400723	2C	61,50	62,50	1,00	<1	<0.2	278	294
400724	2C	62,50	65,40	2,90	<1	<0.2	166	166
400725	2C	65,40	69,55	4,15	<1	<0.2	88	166
400726	2C	69,55	71,40	1,85	<1	<0.2	278	718
400727	2C	71,40	76,40	5,00	<1	<0.2	43	44
400728	2C	76,40	81,70	5,30	1	<0.2	182	100
400729	2C	81,70	89,90	8,20	<1	<0.2	46	46
400730	2C	89,90	91,55	1,65	<1	<0.2	139	100
400731	2C	91,55	93,90	2,35	<1	<0.2	58	46
400732	2C	93,90	95,00	1,10	<1	<0.2	124	116
400733	2C	95,00	100,30	5,30	<1	<0.2	186	316
400734	2C	100,30	106,60	3,30	<1	<0.2	98	612
400735	2C	106,60	109,00	2,40	<1	0.2	289	902
400736	2C	109,00	110,10	1,10	<1	<0.2	71	372

SAMPL	DDH	From	To	Section	Au	Ag	Cu	Zn
DESCR.	No	m	m	m	ppb	ppm	ppm	ppm
399511	3A	5,70	7,00	1,30	11	<0.2	1320	266
399512	3A	7,00	9,00	2,00	18	0.4	1950	328
399513	3A	9,00	10,80	1,80	15	0.6	2450	104
399514	3A	10,80	11,20	0,40	140	5.8	16100	2060
399515	3A	11,20	13,20	2,00	5	0.2	1075	244
399516	3A	13,20	15,20	2,00	24	<0.2	1305	122
399517	3A	15,20	18,10	2,90	1	<0.2	441	96
399518	3A	18,10	19,20	1,10	12	0.8	3130	352
399519	3A	19,20	20,00	0,80	3	<0.2	834	174
399520	3A	20,00	21,10	1,10	18	0.8	2930	224
399521	3A	21,10	23,00	1,90	<1	<0.2	82	32
399522	3A	23,00	25,00	2,00	1	<0.2	481	70
399523	3A	25,00	27,00	2,00	7	0.2	1600	252
399524	3A	27,00	29,00	2,00	1	<0.2	1030	46

SAMPL	DDH	From	To	Section	Au	Ag	Cu	Zn
DESCR.	No	m	m	m	ppb	ppm	ppm	ppm
399525	3A	29,00	32,00	3,00	<1	<0.2	323	60
399526	3A	32,00	35,50	2,50	<1	<0.2	232	326
399527	3A	35,50	36,50	1,00	7	<0.2	1625	5960
399528	3A	36,50	38,00	1,50	2	0.6	2020	3000
399529	3A	38,00	42,00	4,00	<1	<0.2	725	298
399530	3A	42,00	43,05	1,05	<1	<0.2	1600	996
399531	3A	43,05	46,85	3,80	<1	<0.2	75	110
399532	3A	46,85	49,00	2,15	<1	<0.2	90	280
399533	3A	49,00	53,00	3,00	<1	<0.2	62	42
399534	3A	53,00	57,00	3,00	1	<0.2	196	132
399535	3A	57,00	61,40	4,40	<1	<0.2	73	106
399536	3A	61,40	65,00	3,60	<1	<0.2	230	830
399537	3A	65,00	69,00	4,00	<1	<0.2	107	84
399538	3A	69,00	70,45	1,45	<1	<0.2	304	1150
399539	3A	70,45	73,50	3,05	<1	<0.2	57	442
399540	3A	73,50	76,80	3,30	5	0.6	1925	1145
399541	3A	76,80	78,00	1,20	<1	<0.2	1795	784
399542	3A	78,00	80,00	2,00	<1	0.2	303	394
399543	3A	80,00	85,00	5,00	<1	<0.2	284	480
399544	3A	85,00	90,00	5,00	<1	<0.2	161	790
399545	3A	90,00	94,00	4,00	<1	<0.2	97	96
399546	3A	94,00	95,70	1,70	19	<0.2	1910	108
399547	3A	95,70	103,40	7,70	<1	<0.2	9	64
399548	3A	103,40	103,85	0,45	29	0.2	5350	160
399549	3A	103,85	109,80	5,95	<1	<0.2	17	114
399550	3A	109,80	115,80	6,00	1	<0.2	87	314
401248	3A	115,80	121,80	6,00	4	<0.2	456	468
401249	3A	121,80	127,60	5,80	<1	<0.2	30	54

Enclosure no 3 is Certificate of analysis from ALS (Aurora Laboratory Services) Chemex laboratories in North Vancouver in Canada.

The elevated Cu and Zn assays are frequently coinciding with high and elevated contents of Al, K, Cd, S, Co, Cr, Fe, Sb and V.

Conclusions.

In spite of encouraging anomalies and several intersections of copper and zinc mineralizations, it is obvious that this target for the time being is not economic. No further work is recommended.

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ENCLOSURES

Field Report and core logging 2001, Rune Wilberg.

Røsjøen drilling:

6 drill holes are sunk at Røsjøen, see enclosed drill hole profiles, scale 1 : 100 and 1 : 1000.

The drilling proved the combined geophysical / geochemical anomaly to be caused by sulfide enrichments in an amphibolite unit and the immediate over – and underlying sediments.

This, assumed extrusive amphibolite is 60 m thick, decreasing NW – wards to 30 m in Dh. 1B. It is generally finegrained, varying from massive, often containing few – mm – sized carbonate – rich eyes, to schistous and banded. Banding is expressed by few – cm – thick layers of biotite and carbonate ($\pm$ garnet), and more seldom as cm – thick, light green layers or lenses in the dark green amphibolite, representing a mixture of intermediate and mafic volcanic material, possibly tuff or agglomerate.

The pile of finegrained amphibolite contain 2 – 3 gabbro dykes, which extend more or less continuously through all of the drill sections. It is medium – to coarsegrained, often with gradual transition to finegrained boundaries.

The sediments above and below the amphibolite are dominated by siltstone (garnet – mica schist, to light grey garben schist with increased quartz and less mica) with cm – dm – thick green (chlorite, hornblende, $\pm$ garnet) tuffitic layers.

A chlorite schist layer is intersected by all drill holes, a few meters below the amphibolite unit. In the SW – ern part this layer has a gabbro core.

Sulfides occur through the entire amphibolite unit, and minor in the sediments above and below, as more or less conformable layers of few – cm – thickness of massive to semimassive sulfides. (The richer sulfide bands are marked at the drill profiles, but weaker sulfide impregnation / stringers do occur elsewhere.) Sulfides tend to be enriched in the biotite – rich layers with carbonate ($\pm$ garnet). Weak magnetite – dissemination appears occasionally associated with the sulfide – enrichments, and also scattered outside. Platy hematite occur in some of the widespread bands of hydrothermal quartz ($\pm$ carbonat).

Pyrrhotite is the dominant sulfide, with subordinate chalcopyrite and sphalerite. Pyrite is rare, except remobilized along fractures. Po, cpy and sl are also remobilized in quartz – carbonate bands. The gabbro occasionally carry po and cpy in thin veins and shearzones.

Susceptibility is measured at Dh. 3A (given in brackets in the drill log).

The mineralization at Røsjøen is analogue to the Frysijhel and Prussubekken mineralizations, which is hosted in the same amphibolite. Frysijhel occur in the upper level of the amphibolite and the immediate overlying sediment (A – level, see Lieungh 1973), while Prussubekken occur in the lower level of the amphibolite and the immediate underlying sediment (B – level). The C – level (Kongens, Nordsonen and Rødalen ore bodies) occur 160 m below the amphibolite, while the D – level occur 230 – 250 m below the amphibolite. Level D is intersected by one drill hole east of Kongens and two west of Røsjøen.

Drill log Røsjøen:

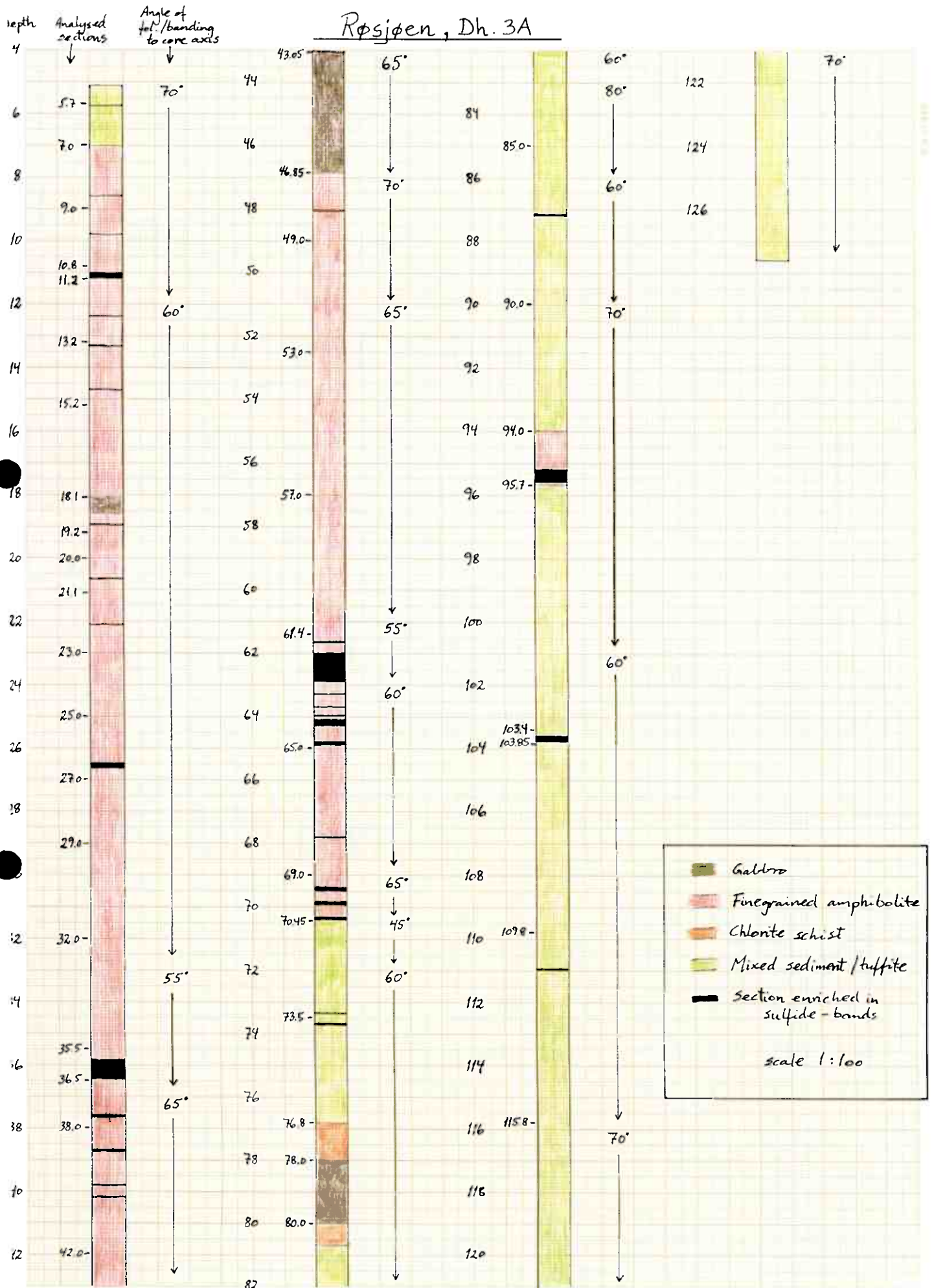
Dh. 3A:

5.10m overburden
5.10 – 5.75: finegr. garben – mica sch. in places gnt. (10 – 20)
5.75 – 7.00: finegr. garben – gnt – mica – chl sch. (50 – 70)
7.00 – 18.10: finegr. amphibolite with po – cpy – py (- sl) – diss. – bands. Sulfides often ass. with gnt –
carbonate – biotite bands. Occasional mtxx in bands. Qtz – carb – bands and – veins. (100 – 300, 2000 at min.)
18.10 – 18.60: medgr. gabbro with po + cpy in veins and shearzone (200, 1500 at min.)
18.60 – 43.00: finegr. amphibolite with carb. spots / eyes in places between 30 – 43 (40 – 250, 2500 at min.)
27.80 – 28.20: brecciation with carb. – matrix
43.00 – 46.85: medgr. gabbro (90 – 200). Po – cpy along cont. 43.00 – 43.02
46.85 – 70.45: finegr. amphibolite with frequent carb. spots between 46.85 – 51.00. (40 – 250, 2500 at min.)
70.45 – 76.80: qtz – 2 – mica sch, loc with chlorite and gnt. in tuffitic bands (20 – 30, 700 at min.)
76.80 – 78.00: chlorite sch (30 – 900)
78.00 – 80.00: gabbro; 78 – 79: medgr., 79 – 80: coarsegr. Gradual transition to finegr. amphibolite at 79.90,
with mt – cpy – diss. at the border (60 – 90, 700 at lower boundary)
80.00 – 80.70: gnt – chl – amph sch
80.70 – 94.00: gnt – mica sch, in places with garben, minor chl – rich, tuffite bands (20 – 40)
94.00 – 95.70: finegr. amphibolite with few – mm – sized carb eyes (70 – 80, 150 at min.)
95.70 – 103.60: mica sch. in sections qtz – rich, freq. garben, some chl – rich, tuffite bands (20 – 40)
103.60-103.82: biotite sch with cpy (- po) – diss. (60 – 70)
103.82-121.80: same as 95.70 – 103.60
121.80-127.60: mylonitic, very finegr., qtz – rich greywacke (20 – 40). 121.80 – 124.60: brecciation
127.60: EOH

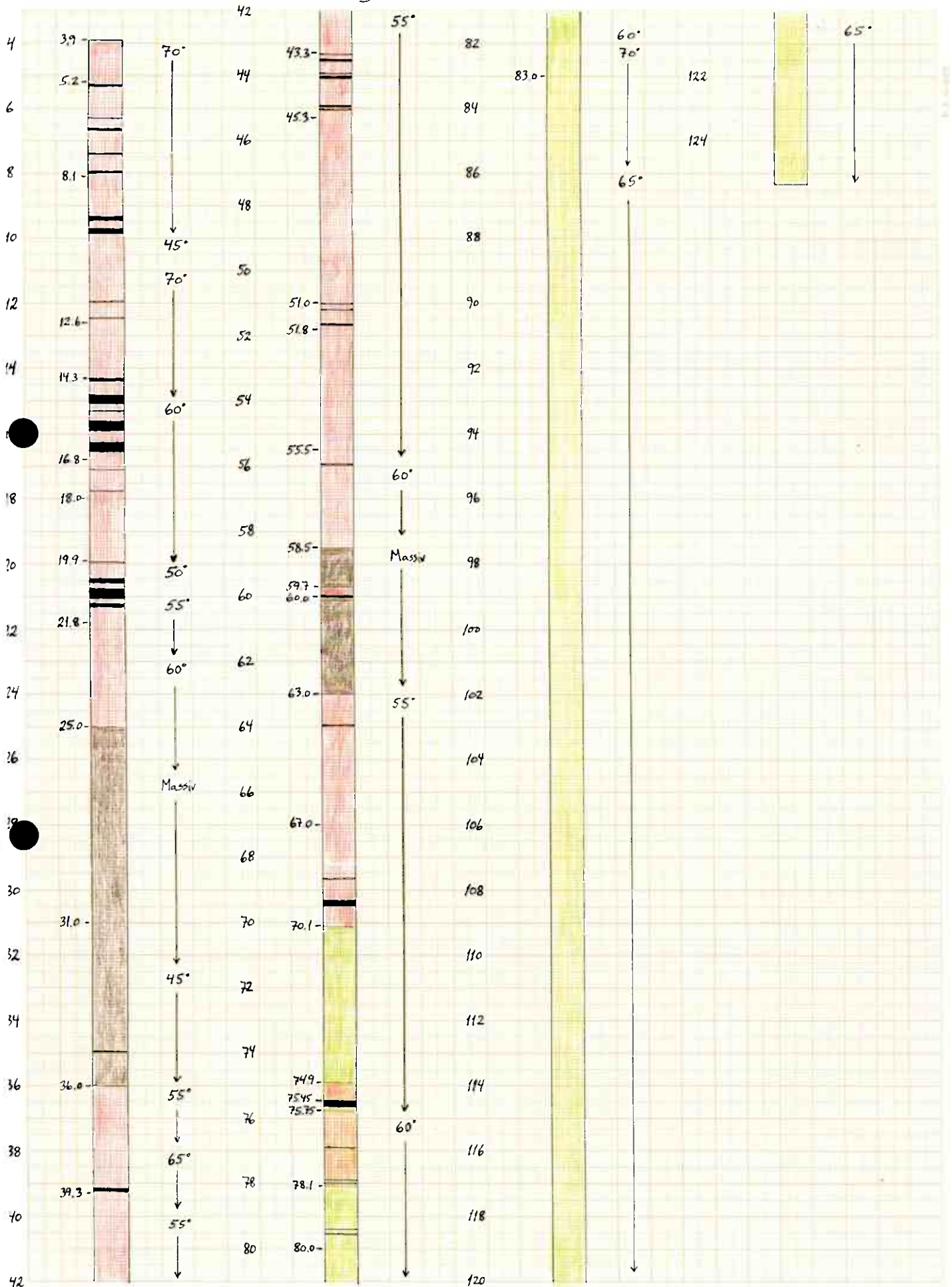
Dh. 2A:

3.90m overburden
3.90 – 25.00: finegr. amphibolite with gnt – carb – bio – layers, generally containing po – cpy (- sl) and minor
mt. 11 – 12: cont. light, carb – rich eyes. Occasional qtz – bands.
25.00 – 36.00: medgr. gabbro with minor po – diss. Finegr. and schisty at the contacts
36.00 – 58.50: finegr. amphibolite. 40.75: qtz with hematite plates. 48 – 58: cont. carb – rich spots

Røsjøen, Dh. 3A



Røsjøen, Dh. 2A



58.50 – 59.70: medgr. gabbro, gradual upper boundary
 59.70 – 60.00: finegr. amphibolite
 60.00 – 63.00: medgr. gabbro with qtz – carb veins, gradual lower boundary
 63.00 – 70.10: finegr. amphibolite. 64.50 – 66.50: cont. light, carb – rich spots. 67.90
 – 68.00: minor mt – po –
 diss. in bio – rich layer
 70.10 – 74.90: mica sch, in places with gnt; chl – rich tuffitic layers
 74.90 – 75.45: gnt – chl sch with hbl needles, bio – rich layers, minor po – cpy – diss.
 75.45 – 75.75: gnt – mica sch (with chl in lower part), rich in cpy – po bands
 75.75 – 78.10: gnt – chl sch with hbl – needles
 78.10 – 125.35: gnt – mica sch with chl – rich, tuffitic layers, often with garben.
 General increasing qtz down
 hole – to light garben sch with minor mica. In places intense folding
 125.35: EOH

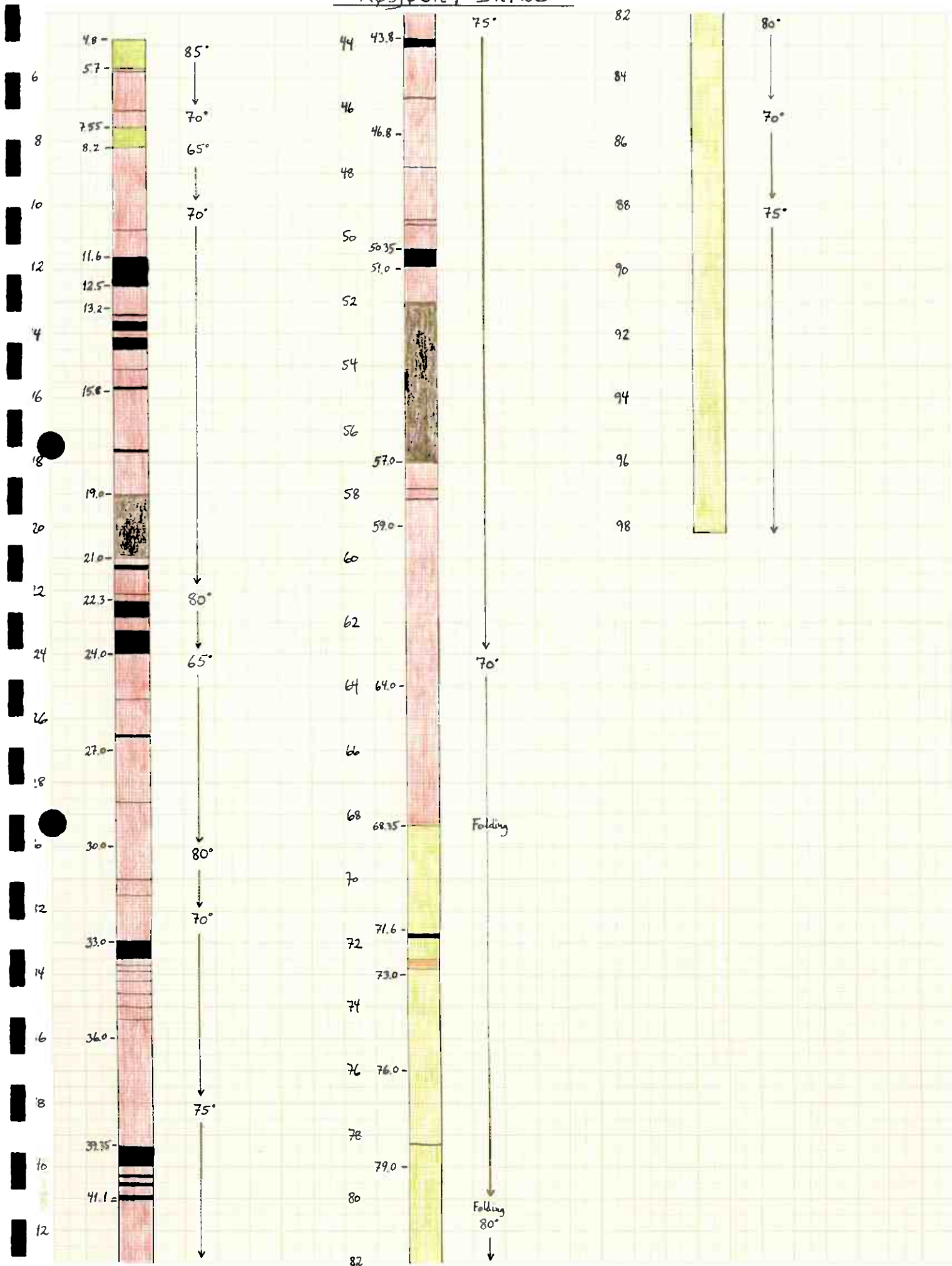
Dh. 2B:

 4.80m overburden
 4.80 – 5.70: garben sch
 5.70 – 7.55: finegr., schisty to massive amphibolite, in places gnt
 7.55 – 8.20: garben mica sch with green tuffitic layers
 8.20 – 19.00: finegr. amphibolite
 8.50 – 8.90: rich in qtz – carb. – bands
 9.60, 10.50 and 13.90: qtz – carb. with platy hematite
 13.75: remob. sulf. and hm in qtz
 19.00 – 21.00: gabbro, rel. finegr.
 21.00 – 52.00: finegr. amphibolite. With light, carb. eyes at 26.00 – 29.30 and 37.00 –
 38.50
 52.00 – 57.00: gabbro, rel. finegr.
 57.00 – 68.35: finegr. amphibolite. Carb. eyes at 60.50 – 68.35. 65.80 – 66.70: dom.
 hydrt. qtz (+ lot of qtz the
 next 5m.
 68.35 – 72.50: qtz – mica sch with green, tuffitic bands, in places weak garben and
 minor gnt
 72.50 – 72.80: chlorite sch with hydrt. qtz at the contacts
 72.80 – 98.20: same as 68.35 – 72.50
 98.20: EOH

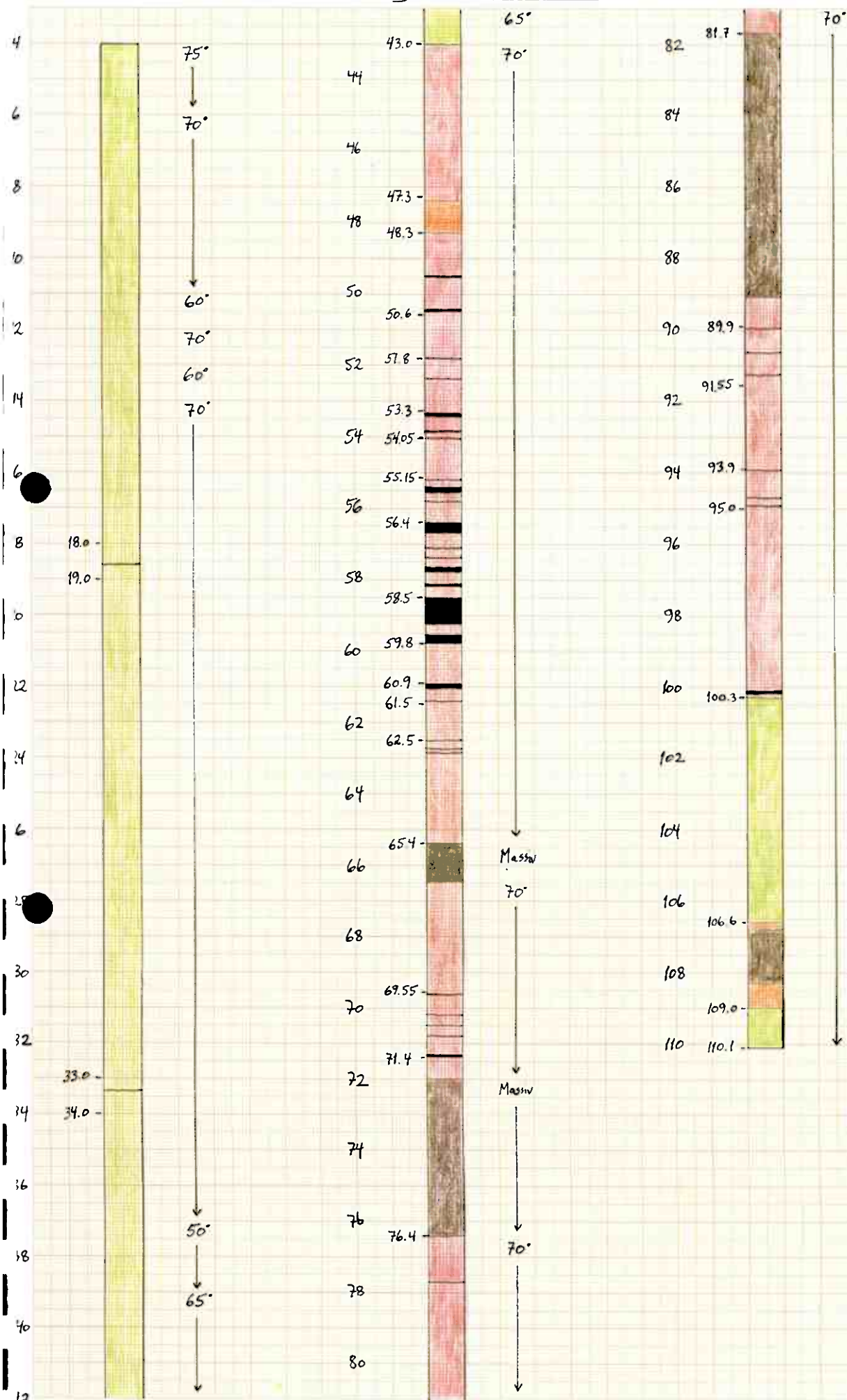
Dh. 2C:

 4.00m overburden
 4.00 – 43.00: qtz – mica sch, frequently with garben and in places with little mica
 (qtz, feldsp, hbl).
 Interlayers of green tuffite, dom. by chl and hbl. Occ. gnt.
 43.00 – 47.40: finegr. amphibolite. 47.20 – 47.40: hm – laths and py in qtz
 47.40 – 48.30: gnt – chl sch with py – diss.
 48.30 – 65.40: finegr. amphibolite. 50.47 – 50.50: massive gnt – band. 50.40 – 50.50:
 hm – plates + sulf.

Røsjøen, Dh. 2B



Røsjøen, Dh. 2C



64.45 – 64.85 and 65.00 – 65.40: hydrt. qtz – carb – vein (hm along contacts)
 65.40 – 66.45: fine – to medgr. gabbro
 66.45 – 72.00: finegr. amphibolite
 72.00 – 76.40: fine – to medgr. gabbro
 76.40 – 81.70: finegr. amphibolite
 81.70 – 89.10: medgr. gabbro
 89.10-100.30: finegr. amphibolite with sections rich in bio + chl + minor po – diss.
 100.30-106.60: same as 4.00 – 43.00
 106.60-106.80: chl. sch
 106.80-108.30: medgr. gabbro
 108.30-109.00: chl. sch with weak mt – diss.
 109.00-110.10: same as 4.00 – 43.00
 110.10: EOH

Dh. 1A:

3.10m overburden
 3.10 – 36.70: finegr. amphibolite with occ. gnt and carb. eyes. 3.10 – 3.30: garben mica sch, probably boulder.
 5.20: qtz – epidote vein. 7.40 – 8.70: weakly gabbroic. 21.70 – 23.90: several qtz – bands rich in
 hm and minor mt. 29.10 – 29.80: fracture zone with carb. veining parallel to core axis. 36.25 –
 36.70: hydrt. qtz
 36.70 – 37.40: fine – to medgr. gabbro
 37.40 – 47.85: finegr. amphibolite, freq. gnt, occ. carb spots
 47.85 – 57.80: mixed sed. / tuffite. 52.40 – 52.90: bio – chl – rich layer with sulf
 57.80 – 58.65: gnt – amphibolite
 58.65 – 59.05: mica sch
 59.05 – 59.40: gnt – chl sch
 59.40 – 59.90: mica sch
 59.90 – 61.20: gnt – chl – amphibole sch
 61.20 – 71.30: mixed sed. / tuffite. 69 – 70: few – mm thick felsic bands (acid tuff?), which is isoclinally folded
 71.30: EOH

Dh. 1B:

5.00m overburden
 5.00 – 35.40: mixed sed. / tuffite. 8.50 – 8.60: fracture zone with carb veining. 30 – 34: folding.
 32.50 – 33.30: rich in qtz – carb - infill
 35.40 – 53.90: finegr. amphibolite
 53.90 – 56.10: finegr. gabbro
 56.10 – 60.80: finegr. amphibolite with carb spots. 60.20 – 60.80: qtz – carb veins dom
 60.80 – 61.40: finegr. gabbro

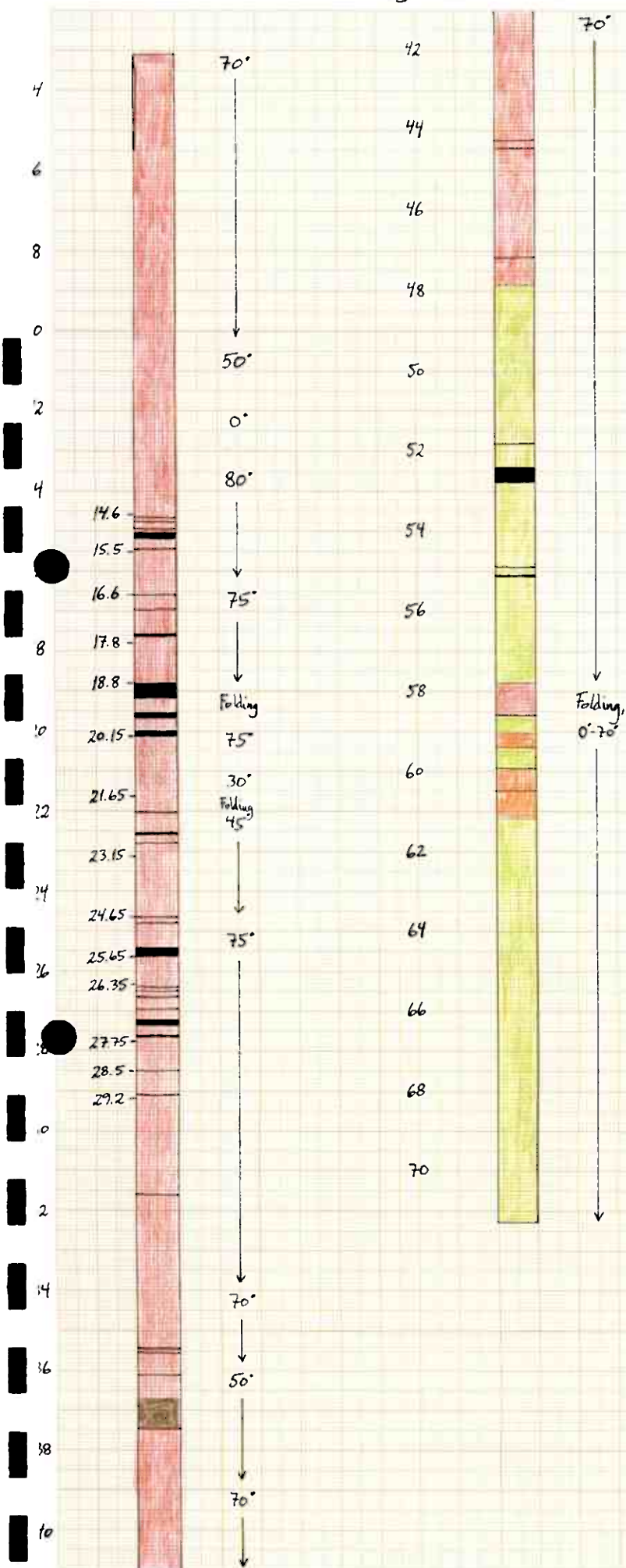
61.40 – 77.00: finegr. amphibolite. 61.40 – 74.00: with carb spots

77.00 – 110.30: mixed sed. / tuffite. Richer in green (chl + gnt) tuffitic layers than the other holes. 92.00 –

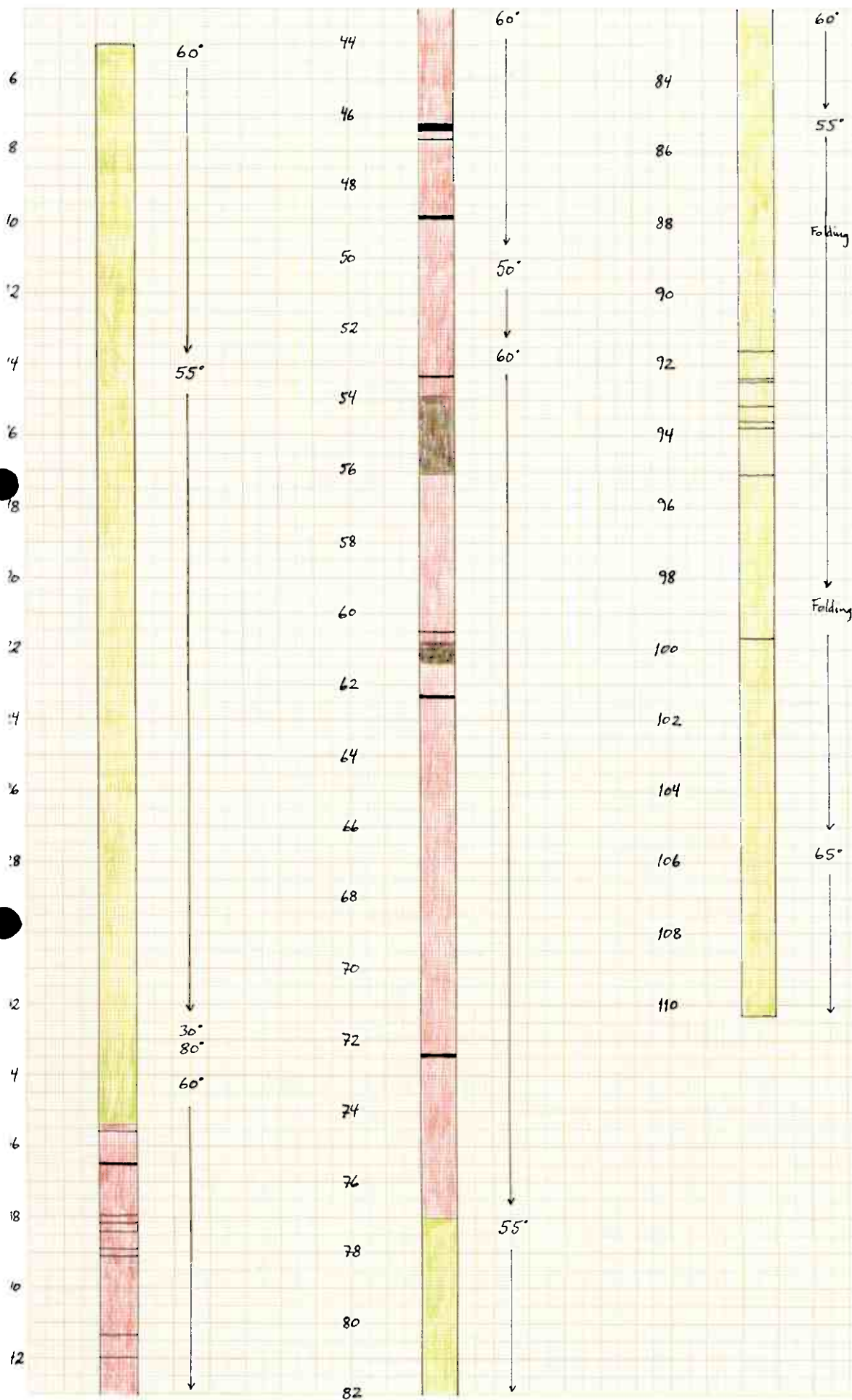
103.50: rich in hydrt. qtz veins. 96.00 – 96.20: chl sch

110.30: EOH

Røsjøen, Dh. 1A



Røpsifen, Dh. 1B



2001 Drilling results
Rødalen (Røsjoen)

A0126785 - CERTIFIED

CLIENT : "CREW DEVELOPMENT CORPORATION"

of SAMPLES : 137

DATE RECEIVED : 11-OCT-2001

PROJECT : "

CERTIFICATE COMMENTS : "ATTN: DENIS SCHLATTER"

					9993	2118	2119	2120	557	2121	2122	2123	2124	2125	2126	2127	2128	2149	2150	2130	2131	2132
SAMPLE	DDH	From	To	Section	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Zn	Fe	Ga	Hg	K
DESCR.	No	m	m	m	ppb	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%
400737	1A	14.60	15.50	0.90	<1	<0.2	1.65	<2	<10	100	<0.5	<2	1.17	<0.5	54	44	1210	92	6.05	<10	<1	0.4
400738	1A	16.60	17.80	1.20	<1	<0.2	1.32	<2	<10	80	<0.5	<2	1.32	<0.5	32	33	863	70	3.87	<10	<1	0.15
400739	1A	18.80	20.15	1.35	8	0.8	2.15	<2	<10	120	<0.5	<2	1.06	0.5	49	53	3130	462	5.7	10	<1	0.32
400740	1A	21.65	23.15	1.50	<1	<0.2	1.39	<2	<10	40	<0.5	<2	1.76	<0.5	27	37	546	386	3.44	<10	<1	0.1
400741	1A	24.65	25.65	1.00	<1	<0.2	2.53	<2	<10	120	<0.5	<2	1.09	5.5	44	60	858	2130	6.12	<10	<1	0.45
400742	1A	26.35	27.75	1.40	<1	<0.2	3.1	<2	<10	50	<0.5	<2	0.79	22	66	102	996	8140	8.28	10	<1	0.55
400743	1A	28.50	29.20	0.70	2	<0.2	4	<2	<10	30	<0.5	<2	3.21	8	36	92	471	2310	6.94	10	<1	0.09
400744	1A	44.20	44.50	0.30	<1	<0.2	1.35	2	<10	30	<0.5	<2	1.55	<0.5	36	26	102	58	3.57	<10	<1	0.16
400745	1A	52.40	52.90	0.50	<1	<0.2	5.29	<2	<10	120	<0.5	<2	0.27	11	43	130	1905	3850	10.45	10	<1	1.82
	1B	Not assayed																				
400651	2A	3.90	5.20	1.30	<1	0.2	1.21	<2	<10	100	<0.5	2	1.5	<0.5	19	38	102	40	2.47	<10	<1	0.12
400652	2A	5.20	8.10	2.90	9	1.2	1.44	<2	<10	60	<0.5	2	1.39	0.5	31	44	2510	308	3.66	<10	<1	0.12
400653	2A	8.10	12.60	4.50	<1	0.8	1.15	<2	<10	70	<0.5	<2	1.31	<0.5	29	34	400	66	3.35	<10	<1	0.19
400654	2A	12.60	14.30	1.70	<1	<0.2	1.23	<2	<10	30	<0.5	<2	1.48	<0.5	19	40	239	74	2.58	<10	<1	0.12
400655	2A	14.30	16.80	2.50	22	1.2	2.34	2	<10	90	<0.5	<2	0.98	2	63	63	4260	742	7.35	<10	<1	0.23
400656	2A	16.80	18.00	1.20	1	<0.2	1.68	<2	<10	60	<0.5	2	1.29	<0.5	47	58	943	322	5.03	<10	<1	0.14
400657	2A	18.00	19.90	1.90	<1	<0.2	1.33	<2	<10	100	<0.5	<2	1.51	<0.5	26	47	357	82	3.35	<10	<1	0.18
400658	2A	19.90	21.80	1.90	<1	<0.2	1.51	<2	<10	120	<0.5	<2	1.14	<0.5	48	55	1110	198	5.64	<10	<1	0.27
400659	2A	21.80	25.00	3.20	<1	<0.2	1.41	<2	<10	60	<0.5	<2	1.83	<0.5	21	44	52	30	3.01	<10	<1	0.21
400660	2A	25.00	31.00	6.00	<1	<0.2	1.51	<2	<10	50	<0.5	2	1.69	<0.5	19	35	60	34	2.93	<10	<1	0.33
400661	2A	31.00	36.00	5.00	<1	<0.2	1.58	<2	<10	50	<0.5	2	1.8	<0.5	25	43	228	96	3.3	<10	<1	0.2
400662	2A	36.00	39.30	3.30	<1	<0.2	1.64	<2	<10	140	<0.5	2	1.64	0.5	26	48	184	352	3.52	<10	<1	0.41
400663	2A	39.30	43.30	4.00	<1	<0.2	1.62	<2	<10	80	<0.5	6	1.43	<0.5	24	48	92	80	3.38	<10	<1	0.14
400664	2A	43.30	45.30	2.00	<1	<0.2	1.81	<2	<10	40	<0.5	<2	1.24	1	46	45	388	832	5.17	<10	1	0.1
400665	2A	45.30	51.00	5.70	<1	<0.2	1.38	<2	<10	70	<0.5	2	1.76	<0.5	19	38	73	46	2.74	<10	<1	0.2
400666	2A	51.00	51.80	0.80	44	1.8	1.54	<2	<10	10	<0.5	<2	1.76	3	34	43	3990	972	3.88	<10	<1	0.09
400667	2A	51.80	55.50	3.70	1	<0.2	1.16	<2	<10	50	<0.5	<2	1.7	<0.5	18	31	52	30	2.41	<10	<1	0.17
400668	2A	55.50	58.50	3.00	<1	<0.2	1.46	<2	<10	80	<0.5	<2	1.72	<0.5	20	37	220	64	3.03	<10	<1	0.32

Encl. 2.

2001 Drilling results
Rødalen (Røsjøen)

SAMPLE	DDH	From	To	Section	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Zn	Fe	Ga	Hg	K
DESCR.	No	m	m	m	ppb	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%
400669	2A	58.50	59.70	1.20	<1	<0.2	1.58	<2	<10	60	<0.5	2	1.67	<0.5	29	37	152	76	3.66	<10	<1	0.26
400670	2A	59.70	60.00	0.30	<1	<0.2	2.08	<2	<10	70	<0.5	<2	1.52	<0.5	75	44	331	130	7.09	10	<1	0.28
400671	2A	60.00	63.00	3.00	<1	<0.2	1.35	<2	<10	30	<0.5	<2	1.86	<0.5	18	28	58	40	2.77	<10	<1	0.14
400672	2A	63.00	67.00	4.00	<1	<0.2	1.56	2	<10	110	<0.5	2	1.58	<0.5	25	37	85	82	3.29	<10	1	0.36
400673	2A	67.00	70.10	3.10	<1	<0.2	2.64	<2	<10	120	<0.5	<2	1.02	3	43	55	302	1015	5.98	10	<1	0.66
400674	2A	70.10	74.90	4.80	<1	<0.2	3.49	<2	<10	170	<0.5	<2	0.34	1.5	22	113	271	874	5.68	10	<1	0.44
400675	2A	74.90	75.45	0.55	2	0.2	6.63	<2	<10	320	<0.5	<2	0.36	<0.5	48	197	1205	540	11.85	20	<1	0.91
400676	2A	75.45	75.75	0.30	33	4.6	3.87	2	<10	40	<0.5	<2	0.13	2.5	63	76	10400	1020	11.6	10	<1	0.76
400677	2A	75.75	78.10	2.35	<1	<0.2	6.86	<2	<10	70	0.5	<2	0.36	<0.5	51	214	524	618	12.25	20	<1	0.16
400678	2A	78.10	80.00	1.90	2	0.2	3.91	<2	<10	190	<0.5	<2	0.31	<0.5	24	112	718	380	6.72	10	<1	0.31
400679	2A	80.00	83.00	4.00	1	<0.2	3.39	2	<10	180	<0.5	<2	0.24	<0.5	17	119	139	402	5.37	10	<1	0.36
400680	2B	4.80	5.70	0.90	<1	<0.2	2.27	<2	<10	80	<0.5	<2	0.41	<0.5	12	86	17	56	3.46	<10	<1	0.16
400681	2B	5.70	7.55	1.85	7	<0.2	2.26	<2	<10	160	<0.5	2	1.17	1	31	70	1880	456	4.25	<10	<1	0.21
400682	2B	7.55	8.20	0.65	2	<0.2	2.86	<2	<10	60	<0.5	2	0.33	<0.5	20	96	394	98	4.46	<10	<1	0.12
400683	2B	8.20	11.60	3.40	3	<0.2	1.82	<2	<10	<10	<0.5	<2	1.82	<0.5	23	54	737	146	3.44	<10	<1	0.06
400684	2B	11.60	12.50	0.90	110	2.6	2.86	<2	<10	100	<0.5	<2	1.1	3	51	68	6700	614	6.48	10	<1	0.38
400685	2B	12.50	13.20	0.70	1	<0.2	1.41	<2	<10	20	<0.5	<2	1.5	<0.5	17	35	424	148	2.78	<10	<1	0.1
400686	2B	13.20	15.80	2.60	5	0.6	2.3	<2	<10	130	<0.5	<2	1.58	<0.5	53	60	2460	288	5.91	<10	<1	0.38
400687	2B	15.80	19.00	3.20	<1	<0.2	1.38	<2	<10	10	<0.5	2	1.77	<0.5	22	36	284	70	2.99	<10	<1	0.08
400688	2B	19.00	21.00	4.00	<1	<0.2	1.31	<2	<10	10	<0.5	2	2.01	<0.5	19	32	1133	54	2.64	<10	<1	0.08
400689	2B	21.00	22.30	1.30	5	0.8	2.39	2	<10	40	<0.5	<2	1.2	4	59	63	2870	1230	6.4	10	<1	0.11
400690	2B	22.30	24.00	1.70	<1	<0.2	2.4	<2	<10	70	<0.5	2	1.05	1	54	62	1475	618	7.11	<10	<1	0.15
400691	2B	24.00	27.00	3.00	<1	<0.2	1.54	<2	<10	10	<0.5	<2	1.6	<0.5	28	41	453	282	3.73	<10	<1	0.07
400692	2B	27.00	30.00	3.00	<1	<0.2	1.37	<2	<10	10	<0.5	<2	1.97	<0.5	25	37	120	66	3.27	<10	<1	0.07
400693	2B	30.00	33.00	3.00	<1	<0.2	1.5	<2	<10	10	<0.5	2	1.33	1	27	38	317	526	3.58	<10	<1	0.08
400694	2B	33.00	36.00	3.00	<1	<0.2	1.46	<2	<10	<10	<0.5	2	1.18	<0.5	32	38	193	364	3.94	<10	<1	0.04
400695	2B	36.00	39.35	3.35	<1	<0.2	1.29	<2	<10	<10	<0.5	<2	1.69	<0.5	23	33	81	56	2.95	<10	<1	0.06
400696	2B	39.35	41.10	1.75	<1	<0.2	1.93	<2	<10	80	<0.5	<2	0.99	10	60	62	513	3870	7.38	<10	<1	0.22
400697	2B	41.10	43.80	2.70	<1	<0.2	1.59	<2	<10	<10	<0.5	<2	1.55	<0.5	18	37	88	96	2.97	<10	<1	0.06
400698	2B	43.80	46.80	3.00	<1	<0.2	1.85	<2	<10	40	<0.5	<2	1.57	<0.5	24	40	290	134	3.97	<10	<1	0.1
400699	2B	46.80	50.35	3.55	<1	<0.2	1.18	<2	<10	40	<0.5	<2	1.76	<0.5	18	34	89	40	2.51	<10	<1	0.12
400700	2B	50.35	51.00	0.65	<1	<0.2	1.13	<2	<10	200	<0.5	<2	2.71	<0.5	47	35	505	44	4.42	<10	<1	0.32
400701	2B	51.00	57.00	6.00	<1	<0.2	1.43	<2	<10	120	<0.5	<2	1.94	<0.5	22	35	96	68	2.92	<10	<1	0.29
400702	2B	57.00	59.00	2.00	<1	<0.2	1.72	<2	<10	80	<0.5	<2	1.49	<0.5	24	42	170	338	3.56	<10	<1	0.23
400703	2B	59.00	64.00	5.00	<1	<0.2	1.27	<2	<10	10	<0.5	2	2.03	<0.5	17	34	28	50	2.53	<10	<1	0.07
400704	2B	64.00	68.35	4.35	<1	<0.2	1.65	<2	<10	40	<0.5	<2	2.26	<0.5	18	36	58	60	3.07	<10	<1	0.12

**2001 Drilling results
Rødalen (Røsjøen)**

SAMPLE	DDH	From	To	Section	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Zn	Fe	Ga	Hg	K
DESCR.	No	m	m	m	ppb	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%
400705	2B	68,35	71,60	3,25	<1	<0.2	3.01	<2	<10	140	<0.5	<2	0.96	<0.5	16	129	61	422	4.26	10	<1	0.35
400706	2B	71,60	73,00	1,40	<1	<0.2	3.95	<2	<10	120	<0.5	<2	0.25	6.5	30	132	749	1950	7.47	10	<1	0.27
400707	2B	73,00	76,00	3,00	<1	<0.2	3.54	<2	<10	250	<0.5	<2	0.16	0.5	19	110	139	606	5.95	10	<1	0.45
400708	2B	76,00	79,00	3,00	1	<0.2	3.56	<2	<10	170	<0.5	<2	0.17	<0.5	20	115	195	260	6.14	10	<1	0.27
400709	2C	18,00	19,00	1,00	<1	<0.2	1.38	<2	<10	<10	<0.5	<2	1.1	1.5	7	90	12	610	1.87	<10	<1	0.01
400710	2C	33,00	34,00	1,00	<1	<0.2	2.75	<2	<10	50	<0.5	<2	0.26	<0.5	17	115	135	46	4.13	10	<1	0.1
400711	2C	43,00	47,30	4,30	<1	<0.2	1.63	2	<10	10	<0.5	<2	1.73	<0.5	24	41	365	78	3.36	<10	<1	0.06
400712	2C	47,30	48,30	1,00	<1	0.2	1.46	10	<10	<10	<0.5	<2	2.05	<0.5	33	36	539	110	3.63	<10	<1	0.05
400713	2C	48,30	50,60	2,30	<1	<0.2	1.57	<2	<10	<10	<0.5	<2	1.59	<0.5	29	37	556	132	3.62	<10	<1	0.06
400714	2C	50,60	51,80	0,80	<1	<0.2	1.42	<2	<10	60	<0.5	<2	1.51	<0.5	22	37	306	154	3.05	<10	<1	0.14
400715	2C	51,80	53,30	1,50	<1	<0.2	1.44	<2	<10	30	<0.5	<2	1.27	0.5	28	36	281	380	3.41	<10	<1	0.09
400716	2C	53,30	54,05	0,75	<1	<0.2	2.18	<2	<10	50	<0.5	<2	0.82	10.5	49	51	824	13720	6.02	<10	<1	0.09
400717	2C	54,05	55,15	1,10	<1	<0.2	1.7	<2	<10	<10	<0.5	<2	1.38	2	27	41	394	726	3.82	<10	<1	0.04
400718	2C	55,15	56,40	1,25	<1	<0.2	2.07	<2	<10	<10	<0.5	2	1.2	5.5	49	48	2020	2550	6.21	10	<1	0.04
400719	2C	56,40	58,50	2,10	<1	<0.2	2.17	<2	<10	60	<0.5	<2	0.9	2.5	57	60	927	1265	7.18	10	<1	0.49
400720	2C	58,50	59,80	1,30	<1	0.2	3.28	<2	<10	20	<0.5	<2	0.79	39.5	117	76	972	19400	12.6	10	<1	1.09
400721	2C	59,80	60,90	1,10	<1	<0.2	1.95	<2	<10	130	<0.5	<2	1.19	<0.5	38	50	262	464	5.1	<10	<1	0.68
400722	2C	60,90	61,50	0,60	<1	<0.2	2.36	<2	<10	80	<0.5	<2	1.04	10.5	59	61	435	2570	7.31	10	<1	0.34
400723	2C	61,50	62,50	1,00	<1	<0.2	1.53	<2	<10	20	<0.5	<2	1.14	<0.5	37	51	278	294	4.13	<10	<1	0.07
400724	2C	62,50	65,40	2,90	<1	<0.2	1.35	<2	<10	10	<0.5	2	1.75	<0.5	26	47	186	186	3.26	<10	<1	0.06
400725	2C	65,40	69,55	4,15	<1	<0.2	1.38	<2	<10	<10	<0.5	<2	1.83	<0.5	20	32	88	166	2.95	<10	<1	0.04
400726	2C	69,55	71,40	1,85	<1	<0.2	1.64	<2	<10	30	<0.5	<2	1.14	2	33	46	278	718	4.36	<10	<1	0.05
400727	2C	71,40	76,40	5,00	<1	<0.2	1.31	<2	<10	90	<0.5	<2	1.82	<0.5	18	28	43	44	2.66	<10	<1	0.31
400728	2C	76,40	81,70	5,30	1	<0.2	1.39	<2	<10	30	<0.5	<2	2.21	<0.5	21	37	182	100	2.96	<10	1	0.1
400729	2C	81,70	89,90	8,20	<1	<0.2	1.34	<2	<10	60	<0.5	<2	1.8	<0.5	18	35	46	46	2.83	<10	<1	0.31
400730	2C	89,90	91,55	1,65	<1	<0.2	1.69	<2	<10	110	<0.5	<2	1.41	<0.5	30	42	139	100	3.84	<10	<1	0.31
400731	2C	91,55	93,90	2,35	<1	<0.2	1.42	<2	<10	100	<0.5	<2	1.92	<0.5	23	29	58	46	3.1	<10	<1	0.22
400732	2C	93,90	95,00	1,10	<1	<0.2	2.82	<2	<10	450	<0.5	<2	0.96	<0.5	32	60	124	116	5.2	10	<1	1.43
400733	2C	95,00	100,30	5,30	<1	<0.2	3.35	<2	<10	290	<0.5	2	0.78	<0.5	31	71	186	316	6.09	10	<1	1.29
400734	2C	100,30	106,60	3,30	<1	<0.2	2.22	<2	<10	100	<0.5	<2	0.3	0.5	14	78	98	612	3.57	<10	<1	0.33
400735	2C	106,60	109,00	2,40	<1	0.2	4.1	<2	<10	170	<0.5	<2	2.03	0.5	34	137	289	902	6.6	10	<1	0.46
400736	2C	109,00	110,10	1,10	<1	<0.2	4.35	<2	<10	120	<0.5	<2	0.16	<0.5	22	113	71	372	5.72	10	<1	0.31
399511	3A	5,70	7,00	1,30	11	<0.2	3.56	<2	<10	150	<0.5	<2	0.71	<0.5	29	110	1320	266	5.21	10	<1	0.22
399512	3A	7,00	9,00	2,00	18	0.4	1.7	<2	<10	20	<0.5	<2	1.02	0.5	34	51	1950	328	3.54	<10	<1	0.06
399513	3A	9,00	10,80	1,80	15	0.6	1.15	<2	<10	<10	<0.5	<2	1.27	<0.5	26	33	2450	104	2.79	<10	<1	0.04

2001 Drilling results
Rødalen (Røsjøen)

SAMPLE	DDH	From	To	Section	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Zn	Fe	Ga	Hg	K
DESCR.	No	m	m	m	ppb	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%
399514	3A	10.80	11.20	0.40	140	5.8	1.48	<2	<10	80	<0.5	<2	1.13	6	52	43	16100	2060	4.86	<10	<1	0.15
399515	3A	11.20	13.20	2.00	5	0.2	1.17	4	<10	170	<0.5	<2	0.88	<0.5	29	35	1075	244	2.92	<10	<1	0.22
399516	3A	13.20	15.20	2.00	24	<0.2	1.1	<2	<10	140	<0.5	2	1.12	<0.5	33	33	1305	122	3.28	<10	<1	0.2
399517	3A	15.20	18.10	2.90	1	<0.2	0.99	<2	<10	30	<0.5	<2	1.11	<0.5	22	33	441	96	2.52	<10	<1	0.07
399518	3A	18.10	19.20	1.10	12	0.8	1.62	<2	<10	90	<0.5	<2	1.01	1.5	51	45	3130	352	4.93	<10	<1	0.2
399519	3A	19.20	20.00	0.80	3	<0.2	2.27	<2	<10	130	<0.5	<2	0.91	<0.5	24	57	834	174	4.04	<10	<1	0.23
399520	3A	20.00	21.10	1.10	18	0.8	2.5	<2	<10	50	<0.5	<2	0.78	<0.5	49	66	2830	224	5.47	10	<1	0.11
399521	3A	21.10	23.00	1.90	<1	<0.2	1.23	<2	<10	100	<0.5	<2	1.54	<0.5	17	38	82	32	2.37	<10	1	0.16
399522	3A	23.00	25.00	2.00	1	<0.2	1.31	<2	<10	20	<0.5	<2	1.35	<0.5	19	39	481	70	2.62	<10	<1	0.08
399523	3A	25.00	27.00	2.00	7	0.2	1.87	<2	<10	70	<0.5	<2	0.96	<0.5	41	55	1600	252	4.67	<10	<1	0.17
399524	3A	27.00	29.00	2.00	1	<0.2	1.16	<2	<10	20	<0.5	<2	1.79	<0.5	19	36	1030	46	2.41	<10	<1	0.08
399525	3A	29.00	32.00	3.00	<1	<0.2	1.14	<2	<10	40	<0.5	<2	1.65	<0.5	22	34	323	60	2.56	<10	<1	0.14
399526	3A	32.00	35.50	3.50	<1	<0.2	1.37	<2	<10	80	<0.5	<2	1.6	<0.5	23	40	232	326	2.92	<10	<1	0.24
399527	3A	35.50	36.50	1.00	7	<0.2	2.98	<2	<10	40	<0.5	<2	0.63	11.5	59	92	1626	5960	7.49	10	<1	0.98
399528	3A	36.50	38.00	1.50	2	0.6	1.4	<2	<10	80	<0.5	<2	1.67	9	26	41	2020	3000	3.26	<10	<1	0.15
399529	3A	38.00	42.00	4.00	<1	<0.2	1.75	<2	<10	40	<0.5	<2	0.99	<0.5	34	51	7725	298	4.55	<10	<1	0.06
399530	3A	42.00	43.05	1.05	<1	<0.2	2.52	<2	<10	110	<0.5	<2	0.76	2.5	53	68	1600	896	6.41	<10	<1	0.19
399531	3A	43.05	46.85	3.80	<1	<0.2	1.13	<2	<10	50	<0.5	<2	1.39	<0.5	18	24	75	110	2.36	<10	<1	0.1
399532	3A	46.85	49.00	2.15	<1	<0.2	1.25	<2	<10	70	<0.5	<2	1.77	<0.5	24	32	890	280	3.07	<10	<1	0.14
399533	3A	49.00	53.00	3.00	<1	<0.2	1.16	<2	<10	60	<0.5	<2	2.04	<0.5	20	33	62	42	2.54	<10	<1	0.14
399534	3A	53.00	57.00	3.00	1	<0.2	1.43	<2	<10	80	<0.5	<2	1.36	<0.5	20	40	196	132	2.82	<10	<1	0.16
399535	3A	57.00	61.40	4.40	<1	<0.2	1.16	<2	<10	100	<0.5	<2	1.29	<0.5	22	31	73	106	2.72	<10	<1	0.24
399536	3A	61.40	65.00	3.60	<1	<0.2	2.33	<2	<10	80	<0.5	<2	0.84	0.5	39	54	280	830	5.68	<10	<1	1.03
399537	3A	65.00	69.00	4.00	<1	<0.2	1.61	<2	<10	170	<0.5	<2	0.94	<0.5	30	36	107	84	3.91	<10	<1	0.45
399538	3A	69.00	70.45	1.45	<1	<0.2	2.6	<2	<10	60	<0.5	<2	0.64	3	51	57	304	1150	6.62	<10	<1	0.61
399539	3A	70.45	73.50	3.05	<1	<0.2	2.41	<2	<10	90	<0.5	<2	0.32	0.5	13	105	57	442	3.37	<10	<1	0.3
399540	3A	73.50	76.80	3.30	5	0.6	3.07	<2	<10	110	<0.5	<2	0.15	1.5	27	88	1925	1145	7.14	<10	<1	0.32
399541	3A	76.80	78.00	1.20	<1	<0.2	4.18	<2	<10	190	<0.5	<2	1.5	<0.5	49	144	1795	784	7.83	<10	<1	0.6
399542	3A	78.00	80.00	2.00	<1	0.2	2.5	<2	<10	40	<0.5	<2	2.03	<0.5	19	83	303	394	3.82	<10	<1	0.1
399543	3A	80.00	85.00	5.00	<1	<0.2	3.48	<2	<10	350	<0.5	<2	0.34	<0.5	22	111	284	480	5.74	<10	<1	0.55
399544	3A	85.00	90.00	5.00	<1	<0.2	3.32	<2	<10	220	<0.5	<2	0.28	1.5	20	106	181	790	5.57	10	<1	0.31
399545	3A	90.00	94.00	4.00	<1	<0.2	2.95	<2	<10	100	<0.5	<2	0.32	<0.5	20	97	87	96	4.77	10	<1	0.18
399546	3A	94.00	95.70	1.70	19	<0.2	1.78	2	<10	240	<0.5	<2	1.25	<0.5	19	46	1970	108	3.12	<10	<1	0.48
399547	3A	95.70	103.40	7.70	<1	<0.2	3.14	<2	<10	100	<0.5	<2	0.24	<0.5	20	114	49	64	4.64	10	<1	0.3
399548	3A	103.40	103.85	0.45	29	0.2	5	<2	<10	240	<0.5	<2	0.37	<0.5	48	125	5350	160	8.11	10	<1	3.17
399549	3A	103.85	109.80	5.95	<1	<0.2	3.61	<2	<10	310	<0.5	<2	0.23	<0.5	19	110	17	114	4.74	10	<1	1.26
399550	3A	109.80	115.80	6.00	1	<0.2	2.99	<2	<10	310	<0.5	<2	0.27	<0.5	17	102	87	314	4.43	10	<1	0.97
401248	3A	115.80	121.80	6.00	4	<0.2	2.96	<2	<10	150	<0.5	2	0.27	0.5	22	96	456	468	4.65	10	1	0.48
401249	3A	121.80	127.60	5.80	<1	<0.2	3.07	<2	<10	20	<0.5	<2	0.34	<0.5	22	115	30	54	4.84	10	<1	0.1

2001 Drilling results
Rødalen (Røsjoen)

				2151	2134	2135	2136	2137	2138	2139	2140	551	2141	2142	2143	2144	2145	2146	2147	2148
SAMPLE	DDH	From	To	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Ti	U	V	W
DESCR.	No	m	m	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
400737	1A	14,60	15,50	<10	1.21	515	<1	0.13	48	1370	<2	1.79	<2	9	11	0.18	<10	<10	113	<10
400738	1A	16,60	17,80	<10	0.93	495	<1	0.15	43	1460	<2	1.01	<2	9	10	0.23	<10	<10	105	<10
400739	1A	18,80	20,15	<10	1.65	635	<1	0.12	43	1510	<2	1.46	4	10	10	0.16	<10	<10	124	<10
400740	1A	21,65	23,15	<10	0.97	425	<1	0.11	25	4000	<2	0.74	<2	8	23	0.1	<10	<10	94	<10
400741	1A	24,65	25,65	<10	1.83	630	<1	0.11	40	1350	<2	1.33	4	10	10	0.2	<10	<10	154	<10
400742	1A	26,35	27,75	<10	2.41	840	<1	0.07	54	1440	<2	2.35	6	10	11	0.18	<10	<10	157	<10
400743	1A	28,50	29,20	<10	2.83	1310	<1	0.08	46	1760	<2	0.54	6	12	50	0.16	<10	<10	181	<10
400744	1A	44,20	44,50	<10	0.99	365	<1	0.11	26	1090	<2	0.81	<2	8	16	0.13	<10	<10	115	<10
400745	1A	52,40	52,90	<10	3.97	955	<1	0.01	57	1070	<2	1.62	14	13	8	0.25	<10	<10	247	<10
	1B	Not	assayed																	
400651	2A	3,90	5,20	<10	0.83	385	<1	0.19	31	1390	<2	0.29	<2	8	12	0.23	<10	10	88	<10
400652	2A	5,20	8,10	<10	1.09	480	<1	0.17	37	1500	<2	0.95	2	8	11	0.18	<10	<10	96	<10
400653	2A	8,10	12,60	<10	0.84	380	<1	0.17	37	1440	<2	0.86	<2	8	11	0.18	<10	<10	86	<10
400654	2A	12,60	14,30	<10	0.85	405	<1	0.17	29	1290	<2	0.33	<2	9	10	0.27	<10	<10	85	<10
400655	2A	14,30	16,80	<10	1.83	640	<1	0.11	49	1420	<2	2.24	6	10	8	0.17	<10	<10	123	<10
400656	2A	16,80	18,00	<10	1.25	545	<1	0.16	51	1490	<2	1.44	4	10	10	0.26	<10	<10	102	<10
400657	2A	18,00	19,90	<10	0.92	460	<1	0.18	39	1350	<2	0.71	2	10	12	0.29	<10	<10	94	<10
400658	2A	19,90	21,80	<10	1.15	540	<1	0.14	44	1200	<2	1.75	2	9	10	0.22	<10	<10	101	<10
400659	2A	21,80	25,00	<10	0.91	465	<1	0.19	35	1370	<2	0.42	2	10	13	0.42	<10	<10	96	<10
400660	2A	25,00	31,00	<10	0.96	435	<1	0.17	31	1350	<2	0.29	<2	9	12	0.42	<10	<10	94	<10
400661	2A	31,00	36,00	<10	1	490	<1	0.19	38	1530	<2	0.5	4	10	12	0.39	<10	<10	102	<10
400662	2A	36,00	39,30	<10	1.06	470	<1	0.18	35	1380	<2	0.59	2	10	11	0.43	<10	<10	102	<10
400663	2A	39,30	43,30	<10	1.07	425	<1	0.16	33	1400	<2	0.48	2	10	11	0.28	<10	<10	96	<10
400664	2A	43,30	45,30	<10	1.26	505	<1	0.14	37	1410	<2	1.3	4	9	12	0.15	<10	<10	97	<10
400665	2A	45,30	51,00	<10	0.92	405	<1	0.19	30	1290	<2	0.27	2	10	14	0.31	<10	<10	93	<10
400666	2A	51,00	51,80	<10	1.05	540	<1	0.18	27	1470	<2	0.91	4	10	22	0.18	<10	<10	100	<10
400667	2A	51,80	55,50	<10	0.72	360	<1	0.16	29	1460	<2	0.28	<2	8	15	0.31	<10	<10	82	<10
400668	2A	55,50	58,50	<10	0.96	460	3	0.17	34	1530	10	0.38	2	9	13	0.35	<10	<10	97	<10

**2001 Drilling results
Rødalen (Røsjøen)**

SAMPLE	DDH	From	To	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Ti	U	V	W
DESCR	No	m	m	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
400669	2A	58,50	59,70	<10	1.07	545	<1	0.16	46	1500	<2	0.65	2	9	12	0.4	<10	<10	106	<10
400670	2A	59,70	60,00	<10	1.49	715	<1	0.18	54	1260	<2	2.09	2	10	10	0.3	<10	<10	114	<10
400671	2A	60,00	63,00	<10	0.89	430	<1	0.15	36	1340	<2	0.26	2	8	19	0.3	<10	<10	90	<10
400672	2A	63,00	67,00	<10	1.09	495	<1	0.15	31	1400	<2	0.47	4	9	14	0.23	<10	<10	101	<10
400673	2A	67,00	70,10	<10	2.11	805	<1	0.1	44	1480	<2	1.33	6	9	10	0.29	<10	<10	136	<10
400674	2A	70,10	74,90	10	2.74	625	<1	0.02	46	630	<2	0.45	10	9	8	0.12	<10	<10	95	<10
400675	2A	74,90	75,45	<10	4.57	650	5	0.02	62	1260	<2	0.97	10	9	7	0.16	<10	<10	226	<10
400676	2A	75,45	75,75	<10	2.56	565	4	0.01	53	360	<2	3.2	12	5	6	0.13	<10	<10	101	<10
400677	2A	75,75	78,10	<10	4.8	735	5	0.01	68	1180	<2	0.93	16	9	7	0.07	<10	<10	218	<10
400678	2A	78,10	80,00	10	2.33	430	<1	0.01	43	460	<2	0.5	8	6	14	0.08	<10	<10	83	<10
400679	2A	80,00	83,00	10	2.37	505	<1	0.02	45	530	<2	0.06	8	7	8	0.1	<10	<10	81	<10
400680	2B	4,80	5,70	10	1.6	410	<1	0.07	37	520	<2	0.01	8	4	9	0.08	<10	<10	43	<10
400681	2B	5,70	7,55	<10	1.66	575	1	0.14	37	1560	<2	0.62	4	10	8	0.16	<10	<10	118	<10
400682	2B	7,55	8,20	10	2.16	545	<1	0.05	46	610	<2	0.09	6	6	9	0.07	<10	<10	70	<10
400683	2B	8,20	11,60	<10	1.35	575	<1	0.15	31	1830	<2	0.41	6	9	20	0.15	<10	<10	94	<10
400684	2B	11,60	12,50	<10	2.21	635	<1	0.12	36	1450	<2	1.52	6	11	10	0.19	<10	<10	136	<10
400685	2B	12,50	13,20	<10	0.95	430	<1	0.2	28	1450	<2	0.31	2	11	8	0.17	<10	<10	106	<10
400686	2B	13,20	15,80	<10	1.62	640	<1	0.18	52	1420	<2	1.53	6	12	13	0.26	<10	<10	126	<10
400687	2B	15,80	19,00	<10	0.94	500	<1	0.19	31	1330	<2	0.43	2	10	12	0.27	<10	<10	99	<10
400688	2B	19,00	21,00	<10	0.82	470	<1	0.18	30	1430	<2	0.32	2	10	17	0.31	<10	<10	94	<10
400689	2B	21,00	22,30	<10	1.83	650	<1	0.14	45	1600	<2	1.69	6	10	11	0.2	<10	<10	118	<10
400690	2B	22,30	24,00	<10	1.86	660	<1	0.12	50	1370	<2	1.92	6	10	10	0.17	<10	<10	119	<10
400691	2B	24,00	27,00	<10	1.09	540	<1	0.18	38	1580	<2	0.72	6	10	12	0.22	<10	<10	107	<10
400692	2B	27,00	30,00	<10	0.92	485	<1	0.17	34	1350	<2	0.48	2	10	16	0.3	<10	<10	101	<10
400693	2B	30,00	33,00	<10	1.03	500	<1	0.16	36	1300	<2	0.68	<2	9	11	0.21	<10	<10	95	<10
400694	2B	33,00	36,00	<10	1.05	450	<1	0.15	40	1310	<2	0.86	6	9	13	0.18	<10	<10	90	<10
400695	2B	36,00	39,35	<10	0.86	440	<1	0.18	34	1480	<2	0.43	<2	10	13	0.26	<10	<10	92	<10
400696	2B	39,35	41,10	<10	1.45	595	<1	0.11	60	1320	<2	2.44	2	8	12	0.18	<10	<10	95	<10
400697	2B	41,10	43,80	<10	1.03	480	<1	0.17	26	1580	<2	0.26	2	10	14	0.2	<10	<10	96	<10
400698	2B	43,80	46,80	<10	1.26	490	<1	0.13	28	1390	<2	0.57	4	8	18	0.19	<10	<10	92	<10
400699	2B	46,80	50,35	<10	0.79	450	<1	0.16	28	1400	<2	0.31	4	9	15	0.24	<10	<10	83	<10
400700	2B	50,35	51,00	<10	0.77	700	<1	0.13	41	1280	<2	1.33	2	8	41	0.27	<10	<10	82	<10
400701	2B	51,00	57,00	<10	0.92	475	<1	0.15	35	1490	<2	0.37	4	9	19	0.29	<10	<10	92	<10
400702	2B	57,00	59,00	<10	1.19	580	<1	0.16	33	1470	<2	0.5	<2	10	13	0.22	<10	<10	105	<10
400703	2B	59,00	64,00	<10	0.88	415	<1	0.16	26	1440	<2	0.21	<2	9	18	0.16	<10	<10	93	<10
400704	2B	64,00	68,35	<10	1.25	510	<1	0.11	25	1290	<2	0.27	2	8	21	0.13	<10	<10	96	<10

**2001 Drilling results
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SAMPLE	DDH	From	To	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Ti	U	V	W
DESCR	No	m	m	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
400705	2B	68,35	71,60	10	2.51	745	<1	0.03	45	570	<2	0.11	8	8	13	0.1	<10	<10	96	<10
400706	2B	71,60	73,00	<10	3.04	570	<1	0.02	52	660	<2	0.92	12	7	7	0.08	<10	<10	110	<10
400707	2B	73,00	76,00	10	2.42	470	<1	0.01	46	480	<2	0.24	8	8	9	0.1	<10	<10	83	<10
400708	2B	76,00	79,00	10	2.26	380	<1	0.01	46	490	<2	0.13	8	6	8	0.07	<10	<10	71	<10
400709	2C	18,00	19,00	<10	1.05	420	<1	0.07	22	490	<2	0.03	4	1	23	0.11	<10	<10	20	<10
400710	2C	33,00	34,00	10	2.18	450	<1	0.04	57	580	<2	0.01	10	7	9	0.06	10	<10	73	<10
400711	2C	43,00	43,70	<10	1.13	480	<1	0.17	35	1680	<2	0.53	2	10	13	0.2	<10	<10	96	<10
400712	2C	43,70	48,30	<10	0.96	570	1	0.16	40	1370	<2	1.28	4	10	12	0.14	<10	<10	101	<10
400713	2C	48,30	50,60	<10	1.06	530	<1	0.18	33	1190	<2	0.62	6	10	13	0.2	<10	<10	106	<10
400714	2C	50,60	51,80	<10	1	455	<1	0.17	27	1180	<2	0.42	2	9	14	0.19	<10	<10	96	<10
400715	2C	51,80	53,30	<10	1.02	495	<1	0.16	33	1440	<2	0.66	<2	9	11	0.18	<10	<10	93	<10
400716	2C	53,30	54,05	<10	1.66	565	<1	0.1	44	1420	<2	1.54	2	8	11	0.11	<10	<10	98	<10
400717	2C	54,05	55,15	<10	1.25	565	<1	0.13	32	1480	<2	0.72	6	8	15	0.14	<10	<10	93	<10
400718	2C	55,15	56,40	<10	1.46	610	<1	0.14	45	1460	<2	1.86	4	9	12	0.19	<10	<10	102	<10
400719	2C	56,40	58,50	<10	1.67	625	<1	0.1	49	1460	<2	2.15	4	9	9	0.24	<10	<10	126	<10
400720	2C	58,50	59,80	<10	2.42	735	5	0.08	59	1420	<2	4.97	4	8	12	0.26	<10	<10	146	<10
400721	2C	59,80	60,90	<10	1.36	565	<1	0.14	44	1430	<2	1.28	2	10	10	0.31	<10	<10	123	<10
400722	2C	60,90	61,50	<10	1.79	615	<1	0.12	53	1360	<2	2.11	4	9	9	0.21	<10	<10	118	<10
400723	2C	61,50	62,50	<10	1.2	510	<1	0.13	43	1340	<2	0.97	2	8	10	0.19	<10	<10	86	<10
400724	2C	62,50	65,40	<10	0.97	525	<1	0.13	31	990	<2	0.61	2	8	20	0.18	<10	<10	77	<10
400725	2C	65,40	69,55	<10	0.93	460	<1	0.14	29	1490	<2	0.43	2	8	17	0.19	<10	<10	85	<10
400726	2C	69,55	71,40	<10	1.18	550	<1	0.12	41	1260	<2	1.1	4	8	11	0.14	<10	<10	88	<10
400727	2C	71,40	76,40	<10	0.81	385	<1	0.16	25	1810	<2	0.24	2	9	20	0.3	<10	<10	95	<10
400728	2C	76,40	81,70	<10	0.87	505	<1	0.18	26	1640	<2	0.37	2	10	23	0.28	<10	<10	100	<10
400729	2C	81,70	89,90	<10	0.89	425	<1	0.18	28	1600	<2	0.28	<2	9	17	0.35	<10	<10	97	<10
400730	2C	89,90	91,55	<10	1.25	570	<1	0.17	40	1410	<2	0.69	2	10	11	0.21	<10	<10	107	<10
400731	2C	91,55	93,90	<10	0.94	445	<1	0.18	32	1600	<2	0.43	2	11	15	0.21	<10	<10	122	<10
400732	2C	93,90	95,00	<10	2.14	590	<1	0.12	42	1480	<2	0.67	<2	9	9	0.27	<10	<10	150	<10
400733	2C	95,00	100,30	<10	2.67	820	<1	0.07	45	1320	<2	0.86	2	8	10	0.29	<10	<10	170	<10
400734	2C	100,30	106,60	<10	1.8	465	<1	0.02	32	460	<2	0.26	6	5	6	0.08	<10	<10	64	<10
400735	2C	106,60	109,00	<10	3.52	1235	<1	0.03	51	1110	104	0.71	6	11	13	0.15	<10	<10	184	<10
400736	2C	109,00	110,10	10	3.69	970	<1	0.01	48	500	<2	0.14	10	11	7	0.07	<10	<10	108	<10
399511	3A	5,70	7,00	<10	2.91	610	8	0.06	45	1640	<2	0.15	8	8	10	0.12	<10	<10	148	<10
399512	3A	7,00	9,00	<10	1.27	410	3	0.11	40	1470	<2	0.77	2	8	10	0.11	<10	<10	93	<10
399513	3A	9,00	10,80	<10	0.78	365	3	0.13	26	1400	<2	0.72	2	7	12	0.12	<10	<10	76	<10

**2001 Drilling results
Rødalen (Røsjøen)**

SAMPLE	DDH	From	To	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W
DESCR	No	m	m	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
399514	3A	10,80	11,20	<10	1.13	455	3	0.08	28	1280	<2	2.24	6	6	12	0.12	<10	<10	82	<10
399515	3A	11,20	13,20	<10	0.86	295	<1	0.07	39	1420	<2	0.74	2	5	11	0.15	<10	<10	72	<10
399516	3A	13,20	15,20	<10	0.78	315	<1	0.11	39	1310	<2	1.01	6	6	11	0.18	<10	<10	77	<10
399517	3A	15,20	18,10	<10	0.71	295	<1	0.1	34	1380	<2	0.57	2	6	11	0.13	<10	<10	69	<10
399518	3A	18,10	19,20	<10	1.2	390	2	0.1	50	1630	<2	1.66	6	6	11	0.14	<10	<10	82	<10
399519	3A	19,20	20,00	<10	1.72	460	1	0.09	31	1440	<2	0.39	2	7	10	0.1	<10	<10	94	<10
399520	3A	20,00	21,10	<10	1.91	480	1	0.08	46	1310	<2	1.15	6	7	10	0.09	<10	<10	99	<10
399521	3A	21,10	23,00	<10	0.84	375	<1	0.13	27	1310	<2	0.23	2	8	20	0.22	<10	<10	85	<10
399522	3A	23,00	25,00	<10	0.92	380	2	0.13	27	1440	<2	0.35	2	7	14	0.16	<10	<10	83	<10
399523	3A	25,00	27,00	<10	1.43	450	1	0.1	39	1520	<2	1.28	2	7	12	0.13	<10	<10	96	<10
399524	3A	27,00	29,00	<10	0.74	310	<1	0.12	31	1420	<2	0.39	2	7	16	0.2	<10	<10	79	<10
399525	3A	29,00	32,00	<10	0.77	345	<1	0.12	34	1500	<2	0.42	<2	7	22	0.16	<10	<10	82	<10
399526	3A	32,00	35,50	<10	0.92	360	<1	0.11	35	1540	<2	0.5	2	7	18	0.21	<10	<10	90	<10
399527	3A	35,50	36,50	<10	2.27	515	1	0.05	48	1550	<2	2.38	6	7	13	0.19	<10	<10	154	<10
399528	3A	36,50	38,00	<10	0.99	375	<1	0.11	28	1470	<2	0.94	4	7	16	0.12	<10	<10	86	<10
399529	3A	38,00	42,00	<10	1.22	370	1	0.09	42	1420	<2	1.1	6	7	13	0.11	<10	<10	94	<10
399530	3A	42,00	43,05	<10	1.78	445	<1	0.07	44	1460	<2	1.59	6	7	13	0.11	<10	<10	111	<10
399531	3A	43,05	46,85	<10	0.74	320	<1	0.13	34	1400	<2	0.32	<2	6	17	0.25	<10	<10	76	<10
399532	3A	46,85	49,00	<10	0.83	390	<1	0.13	32	1380	<2	0.65	2	8	17	0.16	<10	<10	88	<10
399533	3A	49,00	53,00	<10	0.78	400	<1	0.15	29	1440	<2	0.3	<2	8	26	0.22	<10	<10	93	<10
399534	3A	53,00	57,00	<10	0.97	370	1	0.12	32	1450	<2	0.29	<2	7	14	0.2	<10	<10	83	<10
399535	3A	57,00	61,40	<10	0.82	370	<1	0.13	34	1530	<2	0.49	2	7	13	0.2	<10	<10	85	<10
399536	3A	61,40	65,00	<10	1.81	640	1	0.07	45	1500	54	1.66	4	6	11	0.24	<10	<10	123	<10
399537	3A	65,00	69,00	<10	1.21	420	1	0.08	37	1450	2	1.04	4	5	9	0.22	<10	<10	87	<10
399538	3A	69,00	70,45	<10	2.08	645	1	0.05	42	1170	<2	2.13	6	6	10	0.2	<10	<10	121	<10
399539	3A	70,45	73,50	10	1.99	465	<1	0.04	40	570	<2	0.12	4	5	12	0.1	<10	<10	67	<10
399540	3A	73,50	76,80	<10	1.97	370	<1	0.01	42	500	<2	1.47	8	5	9	0.06	<10	<10	68	<10
399541	3A	76,80	78,00	<10	3.27	995	<1	0.03	62	1100	<2	1.4	10	4	21	0.17	<10	<10	118	<10
399542	3A	78,00	80,00	<10	1.95	630	<1	0.07	37	1140	<2	0.19	2	4	18	0.14	<10	<10	72	<10
399543	3A	80,00	85,00	<10	2.47	490	<1	0.02	48	590	<2	0.25	8	7	9	0.11	<10	<10	98	<10
399544	3A	85,00	90,00	10	2.24	370	<1	0.03	47	550	<2	0.17	8	6	16	0.09	<10	<10	85	<10
399545	3A	90,00	94,00	10	2.16	400	<1	0.04	42	600	<2	0.09	6	5	10	0.06	<10	<10	71	<10
399546	3A	94,00	95,70	<10	1.2	355	<1	0.12	23	1560	<2	0.25	6	8	11	0.13	<10	<10	108	<10
399547	3A	95,70	103,40	10	2.38	435	<1	0.04	60	620	<2	<0.01	8	8	8	0.07	<10	<10	92	<10
399548	3A	103,40	103,85	<10	3.23	505	1	0.04	92	1500	<2	0.88	10	16	11	0.42	<10	<10	291	<10
399549	3A	103,85	109,80	10	2.63	600	<1	0.03	71	660	<2	<0.01	6	11	9	0.17	<10	<10	108	<10
399550	3A	109,80	115,80	10	2.05	470	<1	0.04	54	710	<2	0.03	8	8	11	0.15	10	<10	90	<10
401248	3A	115,80	121,80	10	1.91	425	<1	0.03	51	520	<2	0.14	2	8	10	0.11	<10	<10	80	<10
401249	3A	121,80	127,60	10	2.22	425	<1	0.03	65	610	<2	0.06	8	9	12	0.1	<10	<10	89	<10

**ALSCIENTEX**

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NO-1363, HOVIK
NORWAY

A0126785

Comments: ATTN: DENIS SCHLATTER

CERTIFICATE**A0126785**

(WWAQ) - SWEDISH GEOCHEM SERVICES AB

Project:
P.O. #: WO:P-1398

Samples submitted to our lab in Ojebyn, Sweden
This report was printed on 29-OCT-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
4100	137	Sample prepped in Sweden
229	137	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Au-MS21	137	Au ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	1	2000
Ag-ICP41	137	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
Al-ICP41	137	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
As-ICP41	137	As ppm: 32 element, soil & rock	ICP-AES	2	10000
B-ICP41	137	B ppm: 32 element, rock & soil	ICP-AES	10	10000
Ba-ICP41	137	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
Be-ICP41	137	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
Bi-ICP41	137	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
Ca-ICP41	137	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
Cd-ICP41	137	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
Co-ICP41	137	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
Cr-ICP41	137	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
Cu-ICP41	137	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
Fe-ICP41	137	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
Ga-ICP41	137	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
Hg-ICP41	137	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
K-ICP41	137	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
La-ICP41	137	La ppm: 32 element, soil & rock	ICP-AES	10	10000
Mg-ICP41	137	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
Mn-ICP41	137	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
Mo-ICP41	137	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
Na-ICP41	137	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
Ni-ICP41	137	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
P-ICP41	137	P ppm: 32 element, soil & rock	ICP-AES	10	10000
Pb-ICP41	137	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
S-ICP41	137	S %: 32 element, rock & soil	ICP-AES	0.01	10.00
Sb-ICP41	137	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
Sc-ICP41	137	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
Sr-ICP41	137	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
Ti-ICP41	137	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
Tl-ICP41	137	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
U-ICP41	137	U ppm: 32 element, soil & rock	ICP-AES	10	10000
V-ICP41	137	V ppm: 32 element, soil & rock	ICP-AES	1	10000
W-ICP41	137	W ppm: 32 element, soil & rock	ICP-AES	10	10000
Zn-ICP41	137	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

Encl. 3

**ALS Chemex**

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NORWAY

Project :

Comments: ATTN: DENIS SCHLATTER

Page Number: A

Total Pages: 4

Certificate Date: 29-OCT-2001

Invoice No.: 10126785

P.O. Number: WO-P-1398

Account: WWAQ

CERTIFICATE OF ANALYSIS**A0126785**

SAMPLE	PREP CODE		Au ppb ICP-MS	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
399511	1100	229	11 < 0.2	3.56	< 2	< 10	150	< 0.5	< 2	0.71	< 0.5	29	110	1320	5.21	10	< 1	0.22	< 10	2.91	
399512	1100	229	18 < 0.4	1.70	< 2	< 10	20	< 0.5	< 2	1.02	< 0.5	34	51	1950	3.54	< 10	< 1	0.06	< 10	1.27	
399513	1100	229	15 < 0.6	1.15	< 2	< 10	< 10	< 0.5	< 2	1.27	< 0.5	26	33	2450	2.79	< 10	< 1	0.04	< 10	0.78	
399514	1100	229	140 < 5.8	1.48	< 2	< 10	80	< 0.5	< 2	1.13	< 6.0	52	43	>10000	4.86	< 10	< 1	0.15	< 10	1.13	
399515	1100	229	5 < 0.2	1.17	< 4	< 10	170	< 0.5	< 2	0.88	< 0.5	29	35	1075	2.92	< 10	< 1	0.22	< 10	0.86	
399516	1100	229	24 < 0.2	1.10	< 2	< 10	140	< 0.5	< 2	1.12	< 0.5	33	33	1305	3.28	< 10	< 1	0.20	< 10	0.78	
399517	1100	229	1 < 0.2	0.99	< 2	< 10	30	< 0.5	< 2	1.11	< 0.5	22	33	441	2.52	< 10	< 1	0.07	< 10	0.71	
399518	1100	229	12 < 0.8	1.62	< 2	< 10	90	< 0.5	< 2	1.01	< 1.5	51	45	3130	4.93	< 10	< 1	0.20	< 10	1.20	
399519	1100	229	3 < 0.2	2.27	< 2	< 10	130	< 0.5	< 2	0.91	< 0.5	24	57	834	4.04	< 10	< 1	0.23	< 10	1.72	
399520	1100	229	18 < 0.8	2.50	< 2	< 10	50	< 0.5	< 2	0.78	< 0.5	49	66	2930	5.47	< 10	< 1	0.11	< 10	1.91	
399521	1100	229	< 1 < 0.2	1.23	< 2	< 10	100	< 0.5	< 2	1.54	< 0.5	17	38	82	2.37	< 10	< 1	0.16	< 10	0.84	
399522	1100	229	1 < 0.2	1.31	< 2	< 10	20	< 0.5	< 2	1.35	< 0.5	19	39	481	2.62	< 10	< 1	0.08	< 10	0.92	
399523	1100	229	7 < 0.2	1.87	< 2	< 10	70	< 0.5	< 2	0.96	< 0.5	41	55	1600	4.67	< 10	< 1	0.17	< 10	1.43	
399524	1100	229	1 < 0.2	1.16	< 2	< 10	20	< 0.5	< 2	1.79	< 0.5	19	36	1030	2.41	< 10	< 1	0.08	< 10	0.74	
399525	1100	229	< 1 < 0.2	1.14	< 2	< 10	40	< 0.5	< 2	1.65	< 0.5	22	34	323	2.56	< 10	< 1	0.14	< 10	0.77	
399526	1100	229	< 1 < 0.2	1.37	< 2	< 10	80	< 0.5	< 2	1.60	< 0.5	23	40	232	2.92	< 10	< 1	0.24	< 10	0.92	
399527	1100	229	7 < 0.2	2.98	< 2	< 10	40	< 0.5	< 2	0.63	< 11.5	59	92	1625	7.49	< 10	< 1	0.98	< 10	2.27	
399528	1100	229	2 < 0.6	1.40	< 2	< 10	80	< 0.5	< 2	1.67	< 9.0	26	41	2020	3.26	< 10	< 1	0.15	< 10	0.99	
399529	1100	229	< 1 < 0.2	1.75	< 2	< 10	40	< 0.5	< 2	0.99	< 0.5	34	51	725	4.55	< 10	< 1	0.06	< 10	1.22	
399530	1100	229	< 1 < 0.2	2.52	< 2	< 10	110	< 0.5	< 2	0.76	< 2.5	53	68	1600	6.41	< 10	< 1	0.19	< 10	1.78	
399531	1100	229	< 1 < 0.2	1.13	< 2	< 10	50	< 0.5	< 2	1.39	< 0.5	18	24	75	2.36	< 10	< 1	0.10	< 10	0.74	
399532	1100	229	< 1 < 0.2	1.25	< 2	< 10	70	< 0.5	< 2	1.77	< 0.5	24	32	90	3.07	< 10	< 1	0.14	< 10	0.83	
399533	1100	229	< 1 < 0.2	1.16	< 2	< 10	60	< 0.5	< 2	2.04	< 0.5	20	33	62	2.54	< 10	< 1	0.14	< 10	0.78	
399534	1100	229	1 < 0.2	1.43	< 2	< 10	80	< 0.5	< 2	1.36	< 0.5	20	40	196	2.82	< 10	< 1	0.16	< 10	0.97	
399535	1100	229	< 1 < 0.2	1.16	< 2	< 10	100	< 0.5	< 2	1.29	< 0.5	22	31	73	2.72	< 10	< 1	0.24	< 10	0.82	
399536	1100	229	< 1 < 0.2	2.33	< 2	< 10	80	< 0.5	< 2	0.84	< 0.5	39	54	230	5.68	< 10	< 1	1.03	< 10	1.81	
399537	1100	229	< 1 < 0.2	1.61	< 2	< 10	170	< 0.5	< 2	0.94	< 0.5	30	36	107	3.91	< 10	< 1	0.45	< 10	1.21	
399538	1100	229	< 1 < 0.2	2.60	< 2	< 10	60	< 0.5	< 2	0.64	< 3.0	51	57	304	6.62	< 10	< 1	0.61	< 10	2.08	
399539	1100	229	< 1 < 0.2	2.41	< 2	< 10	90	< 0.5	< 2	0.32	< 0.5	13	105	57	3.37	< 10	< 1	0.30	< 10	1.99	
399540	1100	229	5 < 0.6	3.07	< 2	< 10	110	< 0.5	< 2	0.15	< 1.5	27	88	1925	7.14	< 10	< 1	0.32	< 10	1.97	
399541	1100	229	< 1 < 0.2	4.18	< 2	< 10	190	< 0.5	< 2	1.50	< 0.5	49	144	1795	7.83	< 10	< 1	0.60	< 10	3.27	
399542	1100	229	< 1 < 0.2	2.50	< 2	< 10	40	< 0.5	< 2	2.03	< 0.5	19	83	303	3.82	< 10	< 1	0.10	< 10	1.95	
399543	1100	229	< 1 < 0.2	3.48	< 2	< 10	350	< 0.5	< 2	0.34	< 0.5	22	111	284	5.74	< 10	< 1	0.55	< 10	2.47	
399544	1100	229	< 1 < 0.2	3.32	< 2	< 10	220	< 0.5	< 2	0.28	< 1.5	20	106	161	5.57	< 10	< 1	0.31	< 10	2.24	
399545	1100	229	< 1 < 0.2	2.95	< 2	< 10	100	< 0.5	< 2	0.32	< 0.5	20	97	97	4.77	< 10	< 1	0.18	< 10	2.16	
399546	1100	229	19 < 0.2	1.78	< 2	< 10	240	< 0.5	< 2	1.25	< 0.5	19	46	1910	3.12	< 10	< 1	0.48	< 10	1.20	
399547	1100	229	< 1 < 0.2	3.14	< 2	< 10	100	< 0.5	< 2	0.24	< 0.5	20	114	9	4.64	< 10	< 1	0.30	< 10	2.38	
399548	1100	229	29 < 0.2	5.00	< 2	< 10	240	< 0.5	< 2	0.37	< 0.5	48	125	5350	8.11	< 10	< 1	3.17	< 10	3.23	
399549	1100	229	< 1 < 0.2	3.61	< 2	< 10	310	< 0.5	< 2	0.23	< 0.5	19	110	17	4.74	< 10	< 1	1.26	< 10	2.63	
399550	1100	229	1 < 0.2	2.99	< 2	< 10	310	< 0.5	< 2	0.27	< 0.5	17	102	87	4.43	< 10	< 1	0.97	< 10	2.05	

CERTIFICATION:

**ALS Chemex**

Aurora Laboratory Services Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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CR...LEVEL...ENT...DRA...

O.H. BANGSVEI 54-58

NO-1363, HOVIK

NORWAY

Project :

Comments: ATTN: DENIS SCHLATTER

P...umber...B

Total Pages : 4

Certificate Date: 29-OCT-2001

Invoice No. : I0126785

P.O. Number : WO-P-1398

Account : WWAQ

CERTIFICATE OF ANALYSIS**A0126785**

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
399511	1100 229	610	8	0.06	45	1640	< 2	0.15	8	8	10	0.12	< 10	< 10	148	< 10	266
399512	1100 229	410	3	0.11	40	1470	< 2	0.77	2	8	10	0.11	< 10	< 10	93	< 10	328
399513	1100 229	365	3	0.13	26	1400	< 2	0.72	2	7	12	0.12	< 10	< 10	76	< 10	104
399514	1100 229	455	3	0.08	28	1280	< 2	2.24	6	6	12	0.12	< 10	< 10	82	< 10	2060
399515	1100 229	295	< 1	0.07	39	1420	< 2	0.74	2	5	11	0.15	< 10	< 10	72	< 10	244
399516	1100 229	315	< 1	0.11	39	1310	< 2	1.01	6	6	11	0.18	< 10	< 10	77	< 10	122
399517	1100 229	295	< 1	0.10	34	1380	< 2	0.57	2	6	11	0.13	< 10	< 10	69	< 10	96
399518	1100 229	390	2	0.10	50	1630	< 2	1.66	6	6	11	0.14	< 10	< 10	82	< 10	352
399519	1100 229	460	1	0.09	31	1440	< 2	0.39	2	7	10	0.10	< 10	< 10	94	< 10	174
399520	1100 229	480	1	0.08	46	1310	< 2	1.15	6	7	10	0.09	< 10	< 10	99	< 10	224
399521	1100 229	375	< 1	0.13	27	1310	< 2	0.23	2	8	20	0.22	< 10	< 10	85	< 10	32
399522	1100 229	380	2	0.13	27	1440	< 2	0.35	2	7	14	0.16	< 10	< 10	83	< 10	70
399523	1100 229	450	1	0.10	39	1520	< 2	1.28	2	7	12	0.13	< 10	< 10	96	< 10	252
399524	1100 229	310	< 1	0.12	31	1420	< 2	0.39	2	7	16	0.20	< 10	< 10	79	< 10	46
399525	1100 229	345	< 1	0.12	34	1500	< 2	0.42	< 2	7	22	0.16	< 10	< 10	82	< 10	60
399526	1100 229	360	< 1	0.11	35	1540	< 2	0.50	2	7	18	0.21	< 10	< 10	90	< 10	326
399527	1100 229	515	1	0.05	48	1550	< 2	2.38	6	7	13	0.19	< 10	< 10	154	< 10	5960
399528	1100 229	375	< 1	0.11	28	1470	< 2	0.94	4	7	16	0.12	< 10	< 10	86	< 10	3000
399529	1100 229	370	1	0.09	42	1420	< 2	1.10	6	7	13	0.11	< 10	< 10	94	< 10	298
399530	1100 229	445	< 1	0.07	44	1460	< 2	1.59	6	7	13	0.11	< 10	< 10	111	< 10	996
399531	1100 229	320	< 1	0.13	34	1400	< 2	0.32	< 2	6	17	0.25	< 10	< 10	76	< 10	110
399532	1100 229	390	< 1	0.13	32	1380	< 2	0.65	2	8	17	0.16	< 10	< 10	88	< 10	280
399533	1100 229	400	< 1	0.15	29	1440	< 2	0.30	< 2	8	26	0.22	< 10	< 10	93	< 10	42
399534	1100 229	370	1	0.12	32	1450	< 2	0.29	< 2	7	14	0.20	< 10	< 10	83	< 10	132
399535	1100 229	370	< 1	0.13	34	1530	< 2	0.49	2	7	13	0.20	< 10	< 10	85	< 10	106
399536	1100 229	640	1	0.07	45	1500	54	1.66	4	6	11	0.24	< 10	< 10	123	< 10	830
399537	1100 229	420	1	0.08	37	1450	2	1.04	4	5	9	0.22	< 10	< 10	87	< 10	84
399538	1100 229	645	1	0.05	42	1170	< 2	2.13	6	6	10	0.20	< 10	< 10	121	< 10	1150
399539	1100 229	465	< 1	0.04	40	570	< 2	0.12	4	5	12	0.10	< 10	< 10	67	< 10	442
399540	1100 229	370	< 1	0.01	42	500	< 2	1.47	8	5	9	0.06	< 10	< 10	68	< 10	1145
399541	1100 229	995	< 1	0.03	62	1100	< 2	1.40	10	4	21	0.17	< 10	< 10	118	< 10	784
399542	1100 229	630	< 1	0.07	37	1140	< 2	0.19	2	4	18	0.14	< 10	< 10	72	< 10	394
399543	1100 229	490	< 1	0.02	48	590	< 2	0.25	8	7	9	0.11	< 10	< 10	98	< 10	480
399544	1100 229	370	< 1	0.03	47	550	< 2	0.17	8	6	16	0.09	< 10	< 10	85	< 10	790
399545	1100 229	400	< 1	0.04	42	600	< 2	0.09	6	5	10	0.06	< 10	< 10	71	< 10	96
399546	1100 229	355	< 1	0.12	23	1560	< 2	0.25	6	8	11	0.13	< 10	< 10	108	< 10	108
399547	1100 229	435	< 1	0.04	60	620	< 2	< 0.01	8	8	8	0.07	< 10	< 10	92	< 10	64
399548	1100 229	505	1	0.04	92	1500	< 2	0.88	10	16	11	0.42	< 10	< 10	291	< 10	160
399549	1100 229	600	< 1	0.03	71	660	< 2	< 0.01	6	11	9	0.17	< 10	< 10	108	< 10	114
399550	1100 229	470	< 1	0.04	54	710	< 2	0.03	8	8	11	0.15	10	< 10	90	< 10	314

CERTIFICATION:

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CP LEVELMENT LABORATORY

O.H. BANGSVEI 54-58

NO-1363, HOVIK

NORWAY

Project :

Comments: ATTN: DENIS SCHLATTER

Page Number: 12-A

Total Pages: 4

Certificate Date: 29-OCT-2001

Invoice No.: I0126785

P.O. Number: WO-P-1398

Account: WWAQ

CERTIFICATE OF ANALYSIS**A0126785**

SAMPLE	PREP CODE	Au ppb ICP-MS	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
400651	1100 229	< 1	0.2	1.21	< 2	< 10	100	< 0.5	2	1.50	< 0.5	19	38	102	2.47	< 10	< 1	0.12	< 10	0.83
400652	1100 229	9	1.2	1.44	< 2	< 10	60	< 0.5	2	1.39	< 0.5	31	44	2510	3.66	< 10	< 1	0.12	< 10	1.09
400653	1100 229	< 1	0.8	1.15	< 2	< 10	70	< 0.5	< 2	1.31	< 0.5	29	34	400	3.35	< 10	< 1	0.19	< 10	0.84
400654	1100 229	< 1	< 0.2	1.23	< 2	< 10	30	< 0.5	< 2	1.48	< 0.5	19	40	239	2.58	< 10	< 1	0.12	< 10	0.85
400655	1100 229	22	1.2	2.34	2	< 10	90	< 0.5	< 2	0.98	2.0	63	63	4260	7.35	< 10	< 1	0.23	< 10	1.83
400656	1100 229	1	< 0.2	1.68	< 2	< 10	60	< 0.5	2	1.29	< 0.5	47	58	943	5.03	< 10	< 1	0.14	< 10	1.25
400657	1100 229	< 1	< 0.2	1.33	< 2	< 10	100	< 0.5	< 2	1.51	< 0.5	26	47	357	3.35	< 10	< 1	0.18	< 10	0.92
400658	1100 229	< 1	< 0.2	1.51	< 2	< 10	120	< 0.5	< 2	1.14	< 0.5	48	55	1110	5.64	< 10	< 1	0.27	< 10	1.15
400659	1100 229	< 1	< 0.2	1.41	< 2	< 10	60	< 0.5	< 2	1.83	< 0.5	21	44	52	3.01	< 10	< 1	0.21	< 10	0.91
400660	1100 229	< 1	< 0.2	1.51	< 2	< 10	50	< 0.5	2	1.69	< 0.5	19	35	60	2.93	< 10	< 1	0.33	< 10	0.96
400661	1100 229	< 1	< 0.2	1.58	< 2	< 10	50	< 0.5	2	1.80	< 0.5	25	43	228	3.30	< 10	< 1	0.20	< 10	1.00
400662	1100 229	< 1	< 0.2	1.64	< 2	< 10	140	< 0.5	2	1.64	< 0.5	26	48	184	3.52	< 10	< 1	0.41	< 10	1.06
400663	1100 229	< 1	< 0.2	1.62	< 2	< 10	80	< 0.5	6	1.43	< 0.5	24	48	92	3.38	< 10	< 1	0.14	< 10	1.07
400664	1100 229	< 1	< 0.2	1.81	< 2	< 10	40	< 0.5	< 2	1.24	1.0	46	45	388	5.17	< 10	1	0.10	< 10	1.26
400665	1100 229	< 1	< 0.2	1.38	< 2	< 10	70	< 0.5	2	1.76	< 0.5	19	38	73	2.74	< 10	< 1	0.20	< 10	0.92
400666	1100 229	44	1.8	1.54	< 2	< 10	10	< 0.5	< 2	1.76	3.0	34	43	3990	3.88	< 10	< 1	0.09	< 10	1.05
400667	1100 229	1	< 0.2	1.16	< 2	< 10	50	< 0.5	< 2	1.70	< 0.5	18	31	52	2.41	< 10	< 1	0.17	< 10	0.72
400668	1100 229	< 1	< 0.2	1.46	< 2	< 10	80	< 0.5	< 2	1.72	< 0.5	20	37	220	3.03	< 10	< 1	0.32	< 10	0.96
400669	1100 229	< 1	< 0.2	1.58	< 2	< 10	60	< 0.5	2	1.67	< 0.5	29	37	152	3.66	< 10	< 1	0.26	< 10	1.07
400670	1100 229	< 1	< 0.2	2.08	< 2	< 10	70	< 0.5	< 2	1.52	< 0.5	75	44	331	7.09	10	< 1	0.28	< 10	1.49
400671	1100 229	< 1	< 0.2	1.35	< 2	< 10	30	< 0.5	< 2	1.86	< 0.5	18	28	58	2.77	< 10	< 1	0.14	< 10	0.89
400672	1100 229	< 1	< 0.2	1.56	< 2	< 10	110	< 0.5	2	1.58	< 0.5	25	37	85	3.29	< 10	1	0.36	< 10	1.09
400673	1100 229	< 1	< 0.2	2.64	< 2	< 10	120	< 0.5	< 2	1.02	3.0	43	55	302	5.98	10	< 1	0.66	< 10	2.11
400674	1100 229	< 1	< 0.2	3.49	< 2	< 10	170	< 0.5	< 2	0.34	1.5	22	113	271	5.68	10	< 1	0.44	< 10	2.74
400675	1100 229	2	0.2	6.63	< 2	< 10	320	< 0.5	< 2	0.36	< 0.5	48	197	1205	11.85	20	< 1	0.91	< 10	4.57
400676	1100 229	33	4.6	3.87	2	< 10	40	< 0.5	< 2	0.13	2.5	63	76	>10000	11.60	10	< 1	0.76	< 10	2.56
400677	1100 229	< 1	< 0.2	6.86	< 2	< 10	70	< 0.5	< 2	0.36	< 0.5	51	214	524	12.25	20	< 1	0.16	< 10	4.80
400678	1100 229	2	0.2	3.91	< 2	< 10	190	< 0.5	< 2	0.31	< 0.5	24	112	718	6.72	10	< 1	0.31	10	2.33
400679	1100 229	1	< 0.2	3.39	2	< 10	180	< 0.5	< 2	0.24	< 0.5	17	119	159	5.37	10	< 1	0.36	10	2.37
400680	1100 229	< 1	< 0.2	2.27	< 2	< 10	80	< 0.5	< 2	0.41	< 0.5	12	86	17	3.46	< 10	< 1	0.16	10	1.60
400681	1100 229	7	< 0.2	2.26	< 2	< 10	160	< 0.5	2	1.17	1.0	31	70	1690	4.25	< 10	< 1	0.21	< 10	1.66
400682	1100 229	2	< 0.2	2.86	< 2	< 10	60	< 0.5	2	0.33	< 0.5	20	96	394	4.46	< 10	< 1	0.12	10	2.16
400683	1100 229	3	< 0.2	1.82	< 2	< 10	< 10	< 0.5	< 2	1.82	< 0.5	23	54	737	3.44	< 10	< 1	0.06	< 10	1.35
400684	1100 229	110	2.6	2.86	< 2	< 10	100	< 0.5	< 2	1.10	3.0	51	68	6700	6.48	10	< 1	0.38	< 10	2.21
400685	1100 229	1	< 0.2	1.41	< 2	< 10	20	< 0.5	< 2	1.50	< 0.5	17	35	424	2.78	< 10	< 1	0.10	< 10	0.95
400686	1100 229	5	0.6	2.30	< 2	< 10	130	< 0.5	< 2	1.58	< 0.5	53	60	2460	5.91	< 10	< 1	0.38	< 10	1.62
400687	1100 229	< 1	< 0.2	1.38	< 2	< 10	10	< 0.5	2	1.77	< 0.5	22	36	264	2.99	< 10	< 1	0.08	< 10	0.94
400688	1100 229	< 1	< 0.2	1.31	< 2	< 10	10	< 0.5	2	2.01	< 0.5	19	32	153	2.64	< 10	< 1	0.08	< 10	0.82
400689	1100 229	5	0.8	2.39	2	< 10	40	< 0.5	< 2	1.20	4.0	59	63	2870	6.40	10	< 1	0.11	< 10	1.83
400690	1100 229	< 1	< 0.2	2.40	< 2	< 10	70	< 0.5	2	1.05	1.0	54	62	1475	7.11	< 10	< 1	0.15	< 10	1.86

CERTIFICATION:

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P...umber...B

Total Pages :4

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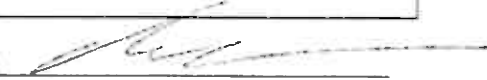
Invoice No. :10126785

P.O. Number :WO-P-1398

Account :WWAQ

CERTIFICATE OF ANALYSIS**A0126785**

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
400651	1100 229	385	< 1	0.19	31	1390	< 2	0.29	< 2	8	12	0.23	< 10	10	88	< 10	40
400652	1100 229	480	< 1	0.17	37	1500	< 2	0.95	< 2	8	11	0.18	< 10	< 10	96	< 10	308
400653	1100 229	380	< 1	0.17	37	1440	< 2	0.86	< 2	8	11	0.18	< 10	< 10	86	< 10	66
400654	1100 229	405	< 1	0.17	29	1290	< 2	0.33	< 2	9	10	0.27	< 10	< 10	85	< 10	74
400655	1100 229	640	< 1	0.11	49	1420	< 2	2.24	< 2	10	8	0.17	< 10	< 10	123	< 10	742
400656	1100 229	545	< 1	0.16	51	1490	< 2	1.44	< 2	10	10	0.26	< 10	< 10	102	< 10	322
400657	1100 229	460	< 1	0.18	39	1350	< 2	0.71	< 2	10	12	0.29	< 10	< 10	94	< 10	82
400658	1100 229	540	< 1	0.14	44	1200	< 2	1.75	< 2	9	10	0.22	< 10	< 10	101	< 10	198
400659	1100 229	465	< 1	0.19	35	1370	< 2	0.42	< 2	10	13	0.42	< 10	< 10	96	< 10	30
400660	1100 229	435	< 1	0.17	31	1350	< 2	0.29	< 2	9	12	0.42	< 10	< 10	94	< 10	34
400661	1100 229	490	< 1	0.19	38	1530	< 2	0.50	< 2	10	12	0.39	< 10	< 10	102	< 10	96
400662	1100 229	470	< 1	0.18	35	1380	< 2	0.59	< 2	10	11	0.43	< 10	< 10	102	< 10	352
400663	1100 229	425	< 1	0.16	33	1400	< 2	0.48	< 2	10	11	0.28	< 10	< 10	96	< 10	80
400664	1100 229	505	< 1	0.14	37	1410	< 2	1.30	< 2	9	12	0.15	< 10	< 10	97	< 10	832
400665	1100 229	405	< 1	0.19	30	1290	< 2	0.27	< 2	10	14	0.31	< 10	< 10	93	< 10	46
400666	1100 229	540	< 1	0.18	27	1470	< 2	0.91	< 2	10	22	0.18	< 10	< 10	100	< 10	972
400667	1100 229	360	< 1	0.16	29	1460	< 2	0.28	< 2	8	15	0.31	< 10	< 10	82	< 10	30
400668	1100 229	460	3	0.17	34	1530	10	0.38	< 2	9	13	0.35	< 10	< 10	97	< 10	64
400669	1100 229	545	< 1	0.16	46	1500	< 2	0.65	< 2	9	12	0.40	< 10	< 10	106	< 10	76
400670	1100 229	715	< 1	0.18	54	1260	< 2	2.09	< 2	10	10	0.30	< 10	< 10	114	< 10	130
400671	1100 229	430	< 1	0.15	36	1340	< 2	0.26	< 2	8	19	0.30	< 10	< 10	90	< 10	40
400672	1100 229	495	< 1	0.15	31	1400	< 2	0.47	< 2	9	14	0.23	< 10	< 10	101	< 10	82
400673	1100 229	805	< 1	0.10	44	1480	< 2	1.33	< 2	9	10	0.29	< 10	< 10	136	< 10	1015
400674	1100 229	625	< 1	0.02	46	630	< 2	0.45	< 2	10	9	0.12	< 10	< 10	95	< 10	874
400675	1100 229	650	5	0.02	62	1260	< 2	0.97	< 2	9	7	0.16	< 10	< 10	226	< 10	540
400676	1100 229	565	4	0.01	53	360	< 2	3.20	< 2	5	6	0.13	< 10	< 10	101	< 10	1020
400677	1100 229	735	5	0.01	68	1180	< 2	0.93	< 2	9	7	0.07	< 10	< 10	218	< 10	618
400678	1100 229	430	< 1	0.01	43	460	< 2	0.50	< 2	6	14	0.08	< 10	< 10	83	< 10	380
400679	1100 229	505	< 1	0.02	45	530	< 2	0.06	< 2	7	8	0.10	< 10	< 10	81	< 10	402
400680	1100 229	410	< 1	0.07	37	520	< 2	0.01	< 2	4	9	0.08	< 10	< 10	43	< 10	56
400681	1100 229	575	1	0.14	37	1560	< 2	0.62	< 2	10	8	0.16	< 10	< 10	118	< 10	456
400682	1100 229	545	< 1	0.05	46	610	< 2	0.09	< 2	6	9	0.07	< 10	< 10	70	< 10	98
400683	1100 229	575	< 1	0.15	31	1830	< 2	0.41	< 2	9	20	0.15	< 10	< 10	94	< 10	146
400684	1100 229	635	< 1	0.12	36	1450	< 2	1.52	< 2	11	10	0.19	< 10	< 10	136	< 10	614
400685	1100 229	430	< 1	0.20	28	1450	< 2	0.31	< 2	11	8	0.17	< 10	< 10	106	< 10	148
400686	1100 229	640	< 1	0.18	52	1420	< 2	1.53	< 2	12	13	0.26	< 10	< 10	126	< 10	288
400687	1100 229	500	< 1	0.19	31	1330	< 2	0.43	< 2	10	12	0.27	< 10	< 10	99	< 10	70
400688	1100 229	470	< 1	0.18	30	1430	< 2	0.32	< 2	10	17	0.31	< 10	< 10	94	< 10	54
400689	1100 229	650	< 1	0.14	45	1600	< 2	1.69	< 2	10	11	0.20	< 10	< 10	118	< 10	1230
400690	1100 229	660	< 1	0.12	50	1370	< 2	1.92	< 2	10	10	0.17	< 10	< 10	119	< 10	618

CERTIFICATION: 

**ALS Chemex**

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Project :
Comments: ATTN: DENIS SCHLATTER

Page Number: 4
Total Pages: 4
Certificate Date: 29-OCT-2001
Invoice No.: 10126785
P.O. Number: WO:P-1398
Account: WWAQ

CERTIFICATE OF ANALYSIS**A0126785**

SAMPLE	PREP CODE	Au ppb ICP-MS	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
400691	1100 229	< 1	< 0.2	1.54	< 2	< 10	10	< 0.5	< 2	1.60	< 0.5	28	41	453	3.73	< 10	< 1	0.07	< 10	1.09
400692	1100 229	< 1	< 0.2	1.37	< 2	< 10	10	< 0.5	< 2	1.97	< 0.5	25	37	120	3.27	< 10	< 1	0.07	< 10	0.92
400693	1100 229	< 1	< 0.2	1.50	< 2	< 10	10	< 0.5	2	1.33	1.0	27	38	317	3.58	< 10	< 1	0.08	< 10	1.03
400694	1100 229	< 1	< 0.2	1.46	< 2	< 10	< 10	< 0.5	2	1.18	< 0.5	32	38	193	3.94	< 10	< 1	0.04	< 10	1.05
400695	1100 229	< 1	< 0.2	1.29	< 2	< 10	< 10	< 0.5	< 2	1.69	< 0.5	23	33	81	2.95	< 10	< 1	0.06	< 10	0.86
400696	1100 229	< 1	< 0.2	1.93	< 2	< 10	80	< 0.5	< 2	0.99	10.0	60	62	513	7.38	< 10	< 1	0.22	< 10	1.45
400697	1100 229	< 1	< 0.2	1.59	< 2	< 10	< 10	< 0.5	< 2	1.55	< 0.5	18	37	83	2.97	< 10	< 1	0.06	< 10	1.03
400698	1100 229	< 1	< 0.2	1.85	< 2	< 10	40	< 0.5	< 2	1.57	< 0.5	24	40	290	3.97	< 10	< 1	0.10	< 10	1.26
400699	1100 229	< 1	< 0.2	1.18	< 2	< 10	40	< 0.5	< 2	1.76	< 0.5	18	34	69	2.51	< 10	< 1	0.12	< 10	0.79
400700	1100 229	< 1	< 0.2	1.13	< 2	< 10	200	< 0.5	< 2	2.71	< 0.5	47	35	505	4.42	< 10	< 1	0.32	< 10	0.77
400701	1100 229	< 1	< 0.2	1.43	< 2	< 10	120	< 0.5	< 2	1.94	< 0.5	22	35	96	2.92	< 10	< 1	0.29	< 10	0.92
400702	1100 229	< 1	< 0.2	1.72	< 2	< 10	80	< 0.5	< 2	1.49	< 0.5	24	42	170	3.56	< 10	< 1	0.23	< 10	1.19
400703	1100 229	< 1	< 0.2	1.27	< 2	< 10	10	< 0.5	2	2.03	< 0.5	17	34	46	2.53	< 10	< 1	0.07	< 10	0.88
400704	1100 229	< 1	< 0.2	1.65	< 2	< 10	40	< 0.5	< 2	2.26	< 0.5	18	36	58	3.07	< 10	< 1	0.12	< 10	1.25
400705	1100 229	< 1	< 0.2	3.01	< 2	< 10	140	< 0.5	< 2	0.96	< 0.5	16	129	61	4.26	10	< 1	0.35	10	2.51
400706	1100 229	< 1	< 0.2	3.95	< 2	< 10	120	< 0.5	< 2	0.25	6.5	30	132	749	7.47	10	< 1	0.27	< 10	3.04
400707	1100 229	< 1	< 0.2	3.54	< 2	< 10	250	< 0.5	< 2	0.16	0.5	19	110	139	5.95	10	< 1	0.45	10	2.42
400708	1100 229	1	< 0.2	3.56	< 2	< 10	170	< 0.5	< 2	0.17	< 0.5	20	115	195	6.14	10	< 1	0.27	10	2.26
400709	1100 229	< 1	< 0.2	1.38	< 2	< 10	< 10	< 0.5	< 2	1.10	1.5	7	90	12	1.87	< 10	< 1	0.01	< 10	1.05
400710	1100 229	< 1	< 0.2	2.75	< 2	< 10	50	< 0.5	< 2	0.26	< 0.5	17	115	135	4.13	10	< 1	0.10	10	2.18
400711	1100 229	< 1	< 0.2	1.63	2	< 10	10	< 0.5	< 2	1.73	< 0.5	24	41	365	3.36	< 10	< 1	0.06	< 10	1.13
400712	1100 229	< 1	0.2	1.46	10	< 10	< 10	< 0.5	< 2	2.05	< 0.5	33	36	539	3.63	< 10	< 1	0.05	< 10	0.96
400713	1100 229	< 1	< 0.2	1.57	< 2	< 10	< 10	< 0.5	< 2	1.59	< 0.5	29	37	556	3.62	< 10	< 1	0.06	< 10	1.06
400714	1100 229	< 1	< 0.2	1.42	< 2	< 10	60	< 0.5	< 2	1.51	< 0.5	22	37	306	3.05	< 10	< 1	0.14	< 10	1.00
400715	1100 229	< 1	< 0.2	1.44	< 2	< 10	30	< 0.5	< 2	1.27	0.5	28	36	281	3.41	< 10	< 1	0.09	< 10	1.02
400716	1100 229	< 1	< 0.2	2.18	< 2	< 10	50	< 0.5	< 2	0.82	10.5	49	51	824	6.02	< 10	< 1	0.09	< 10	1.66
400717	1100 229	< 1	< 0.2	1.70	< 2	< 10	< 10	< 0.5	< 2	1.38	2.0	27	41	394	3.82	< 10	< 1	0.04	< 10	1.25
400718	1100 229	< 1	< 0.2	2.07	< 2	< 10	< 10	< 0.5	2	1.20	5.5	49	48	2020	6.21	10	< 1	0.04	< 10	1.46
400719	1100 229	< 1	< 0.2	2.17	< 2	< 10	60	< 0.5	< 2	0.90	2.5	57	60	927	7.18	10	< 1	0.49	< 10	1.67
400720	1100 229	< 1	0.2	3.28	< 2	< 10	20	< 0.5	< 2	0.79	39.5	117	76	972	12.60	10	< 1	1.09	< 10	2.42
400721	1100 229	< 1	< 0.2	1.95	< 2	< 10	130	< 0.5	< 2	1.19	< 0.5	38	50	262	5.10	< 10	< 1	0.68	< 10	1.36
400722	1100 229	< 1	< 0.2	2.36	< 2	< 10	80	< 0.5	< 2	1.04	10.5	59	61	435	7.31	10	< 1	0.34	< 10	1.79
400723	1100 229	< 1	< 0.2	1.53	< 2	< 10	20	< 0.5	< 2	1.14	< 0.5	37	51	278	4.13	< 10	< 1	0.07	< 10	1.20
400724	1100 229	< 1	< 0.2	1.35	< 2	< 10	10	< 0.5	2	1.75	< 0.5	26	47	166	3.26	< 10	< 1	0.06	< 10	0.97
400725	1100 229	< 1	< 0.2	1.38	< 2	< 10	< 10	< 0.5	< 2	1.83	< 0.5	20	32	88	2.95	< 10	< 1	0.04	< 10	0.93
400726	1100 229	< 1	< 0.2	1.64	< 2	< 10	30	< 0.5	< 2	1.14	2.0	33	46	278	4.36	< 10	< 1	0.05	< 10	1.18
400727	1100 229	< 1	< 0.2	1.31	< 2	< 10	90	< 0.5	< 2	1.82	< 0.5	18	28	43	2.66	< 10	< 1	0.31	< 10	0.81
400728	1100 229	1	< 0.2	1.39	< 2	< 10	30	< 0.5	< 2	2.21	< 0.5	21	37	182	2.96	< 10	1	0.10	< 10	0.87
400729	1100 229	< 1	< 0.2	1.34	< 2	< 10	60	< 0.5	< 2	1.80	< 0.5	18	35	46	2.83	< 10	< 1	0.31	< 10	0.89
400730	1100 229	< 1	< 0.2	1.69	< 2	< 10	110	< 0.5	< 2	1.41	< 0.5	30	42	139	3.84	< 10	< 1	0.31	< 10	1.25

CERTIFICATION:

**ALS Chemex**

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Project :
Comments: ATTN: DENIS SCHLATTER

Page Number: 3
Total Pages: 14
Certificate Date: 29-OCT-2001
Invoice No.: I0126785
P.O. Number: WO:P-1398
Account: WWAQ

CERTIFICATE OF ANALYSIS**A0126785**

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
400691	1100 229	540	< 1	0.18	38	1580	< 2	0.72	6	10	12	0.22	< 10	< 10	107	< 10	282
400692	1100 229	485	< 1	0.17	34	1350	< 2	0.48	2	10	16	0.30	< 10	< 10	101	< 10	66
400693	1100 229	500	< 1	0.16	36	1300	< 2	0.68	< 2	9	11	0.21	< 10	< 10	95	< 10	526
400694	1100 229	450	< 1	0.15	40	1310	< 2	0.86	6	9	13	0.18	< 10	< 10	90	< 10	364
400695	1100 229	440	< 1	0.18	34	1480	< 2	0.43	< 2	10	13	0.26	< 10	< 10	92	< 10	56
400696	1100 229	595	< 1	0.11	60	1320	< 2	2.44	2	8	12	0.18	< 10	< 10	95	< 10	3870
400697	1100 229	480	< 1	0.17	26	1580	< 2	0.26	2	10	14	0.20	< 10	< 10	96	< 10	96
400698	1100 229	490	< 1	0.13	28	1390	< 2	0.57	4	8	18	0.19	< 10	< 10	92	< 10	134
400699	1100 229	450	< 1	0.16	28	1400	< 2	0.31	4	9	15	0.24	< 10	< 10	83	< 10	40
400700	1100 229	700	< 1	0.13	41	1280	< 2	1.33	2	8	41	0.27	< 10	< 10	82	< 10	44
400701	1100 229	475	< 1	0.15	35	1490	< 2	0.37	4	9	19	0.29	< 10	< 10	92	< 10	68
400702	1100 229	580	< 1	0.16	33	1470	< 2	0.50	< 2	10	13	0.22	< 10	< 10	105	< 10	338
400703	1100 229	415	< 1	0.16	26	1440	< 2	0.21	< 2	9	18	0.16	< 10	< 10	93	< 10	50
400704	1100 229	510	< 1	0.11	25	1290	< 2	0.27	2	8	21	0.13	< 10	< 10	96	< 10	60
400705	1100 229	745	< 1	0.03	45	570	< 2	0.11	8	8	13	0.10	< 10	< 10	96	< 10	422
400706	1100 229	570	< 1	0.02	52	660	< 2	0.92	12	7	7	0.08	< 10	< 10	110	< 10	1950
400707	1100 229	470	< 1	0.01	46	480	< 2	0.24	8	8	9	0.10	< 10	< 10	83	< 10	606
400708	1100 229	380	< 1	0.01	46	490	< 2	0.13	8	6	8	0.07	< 10	< 10	71	< 10	260
400709	1100 229	420	< 1	0.07	22	490	< 2	0.03	4	1	23	0.11	< 10	< 10	20	< 10	610
400710	1100 229	450	< 1	0.04	57	580	< 2	0.01	10	7	9	0.06	10	< 10	73	< 10	46
400711	1100 229	480	< 1	0.17	35	1680	< 2	0.53	2	10	13	0.20	< 10	< 10	96	< 10	78
400712	1100 229	570	< 1	0.16	40	1370	< 2	1.28	4	10	12	0.14	< 10	< 10	101	< 10	110
400713	1100 229	530	< 1	0.18	33	1190	< 2	0.62	6	10	13	0.20	< 10	< 10	106	< 10	132
400714	1100 229	455	< 1	0.17	27	1180	< 2	0.42	2	9	14	0.19	< 10	< 10	96	< 10	154
400715	1100 229	495	< 1	0.16	33	1440	< 2	0.66	< 2	9	11	0.18	< 10	< 10	93	< 10	380
400716	1100 229	565	< 1	0.10	44	1420	< 2	1.54	2	8	11	0.11	< 10	< 10	98	< 10	3720
400717	1100 229	565	< 1	0.13	32	1480	< 2	0.72	6	8	15	0.14	< 10	< 10	93	< 10	726
400718	1100 229	610	< 1	0.14	45	1460	< 2	1.86	4	9	12	0.19	< 10	< 10	102	< 10	2550
400719	1100 229	625	< 1	0.10	49	1460	< 2	2.15	4	9	9	0.24	< 10	< 10	126	< 10	1265
400720	1100 229	735	5	0.08	59	1420	< 2	4.97	4	8	12	0.26	< 10	< 10	146	< 10	>10000
400721	1100 229	565	< 1	0.14	44	1430	< 2	1.28	2	10	10	0.31	< 10	< 10	123	< 10	464
400722	1100 229	615	< 1	0.12	53	1360	< 2	2.11	4	9	9	0.21	< 10	< 10	118	< 10	2570
400723	1100 229	510	< 1	0.13	43	1340	< 2	0.97	2	8	10	0.19	< 10	< 10	86	< 10	294
400724	1100 229	525	< 1	0.13	31	990	< 2	0.61	2	8	20	0.18	< 10	< 10	77	< 10	166
400725	1100 229	460	< 1	0.14	29	1490	< 2	0.43	2	8	17	0.19	< 10	< 10	85	< 10	166
400726	1100 229	550	< 1	0.12	41	1260	< 2	1.10	4	8	11	0.14	< 10	< 10	88	< 10	718
400727	1100 229	385	< 1	0.16	25	1810	< 2	0.24	2	9	20	0.30	< 10	< 10	95	< 10	44
400728	1100 229	505	< 1	0.18	26	1640	< 2	0.37	2	10	23	0.28	< 10	< 10	100	< 10	100
400729	1100 229	425	< 1	0.18	28	1600	< 2	0.28	< 2	9	17	0.35	< 10	< 10	97	< 10	46
400730	1100 229	570	< 1	0.17	40	1410	< 2	0.69	2	10	11	0.21	< 10	< 10	107	< 10	100

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CERTIFICATE OF ANALYSIS**A0126785**

SAMPLE	PREP CODE	Au ppb ICP-MS	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
400731	1100 229	< 1	< 0.2	1.42	< 2	< 10	100	< 0.5	< 2	1.92	< 0.5	23	29	58	3.10	< 10	< 1	0.22	< 10	0.94
400732	1100 229	< 1	< 0.2	2.82	< 2	< 10	450	< 0.5	< 2	0.96	< 0.5	32	60	124	5.20	10	< 1	1.43	< 10	2.14
400733	1100 229	< 1	< 0.2	3.35	< 2	< 10	290	< 0.5	2	0.78	< 0.5	31	71	186	6.09	10	< 1	1.29	< 10	2.67
400734	1100 229	< 1	< 0.2	2.22	< 2	< 10	100	< 0.5	< 2	0.30	0.5	14	78	98	3.57	< 10	< 1	0.33	< 10	1.80
400735	1100 229	< 1	0.2	4.10	< 2	< 10	170	< 0.5	< 2	2.03	0.5	34	137	289	6.60	10	< 1	0.46	< 10	3.52
400736	1100 229	< 1	< 0.2	4.35	< 2	< 10	120	< 0.5	< 2	0.16	< 0.5	22	113	71	5.72	10	< 1	0.31	10	3.69
400737	1100 229	< 1	< 0.2	1.65	< 2	< 10	100	< 0.5	< 2	1.17	< 0.5	54	44	1210	6.05	< 10	< 1	0.40	< 10	1.21
400738	1100 229	< 1	< 0.2	1.32	< 2	< 10	80	< 0.5	< 2	1.32	< 0.5	32	33	863	3.87	< 10	< 1	0.15	< 10	0.93
400739	1100 229	8	0.8	2.15	< 2	< 10	120	< 0.5	< 2	1.06	0.5	49	53	3130	5.70	10	< 1	0.32	< 10	1.65
400740	1100 229	< 1	< 0.2	1.39	< 2	< 10	40	< 0.5	< 2	1.76	< 0.5	27	37	546	3.44	< 10	< 1	0.10	< 10	0.97
400741	1100 229	< 1	< 0.2	2.53	< 2	< 10	120	< 0.5	< 2	1.09	5.5	44	60	858	6.12	< 10	< 1	0.45	< 10	1.83
400742	1100 229	< 1	< 0.2	3.10	< 2	< 10	50	< 0.5	< 2	0.79	22.0	66	102	996	8.28	10	< 1	0.55	< 10	2.41
400743	1100 229	2	< 0.2	4.00	< 2	< 10	30	< 0.5	< 2	3.21	8.0	36	92	471	6.94	10	< 1	0.09	< 10	2.83
400744	1100 229	< 1	< 0.2	1.35	2	< 10	30	< 0.5	< 2	1.55	< 0.5	36	26	102	3.57	< 10	< 1	0.16	< 10	0.99
400745	1100 229	< 1	< 0.2	5.29	< 2	< 10	120	< 0.5	< 2	0.27	11.0	43	130	1905	10.45	10	< 1	1.82	< 10	3.97
401248	1100 229	4	< 0.2	2.96	< 2	< 10	150	< 0.5	2	0.27	0.5	22	96	456	4.65	10	1	0.48	10	1.91
401249	1100 229	< 1	< 0.2	3.07	< 2	< 10	20	< 0.5	< 2	0.34	< 0.5	22	115	30	4.84	10	< 1	0.10	10	2.22

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SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
400731	1100 229	445	< 1	0.18	32	1600	< 2	0.43	2	11	15	0.21	< 10	< 10	122	< 10	46
400732	1100 229	590	< 1	0.12	42	1480	< 2	0.67	< 2	9	9	0.27	< 10	< 10	150	< 10	116
400733	1100 229	820	< 1	0.07	45	1320	< 2	0.86	2	8	10	0.29	< 10	< 10	170	< 10	316
400734	1100 229	465	< 1	0.02	32	460	< 2	0.26	6	5	6	0.08	< 10	< 10	64	< 10	612
400735	1100 229	1235	< 1	0.03	51	1110	104	0.71	6	11	13	0.15	< 10	< 10	184	< 10	902
400736	1100 229	970	< 1	0.01	48	500	< 2	0.14	10	11	7	0.07	< 10	< 10	108	< 10	372
400737	1100 229	515	< 1	0.13	48	1370	< 2	1.79	< 2	9	11	0.18	< 10	< 10	113	< 10	92
400738	1100 229	495	< 1	0.15	43	1460	< 2	1.01	< 2	9	10	0.23	< 10	< 10	105	< 10	70
400739	1100 229	635	< 1	0.12	43	1510	< 2	1.46	4	10	10	0.16	< 10	< 10	124	< 10	462
400740	1100 229	425	< 1	0.11	25	4000	< 2	0.74	< 2	8	23	0.10	< 10	< 10	94	< 10	386
400741	1100 229	630	< 1	0.11	40	1350	< 2	1.33	4	10	10	0.20	< 10	< 10	154	< 10	2130
400742	1100 229	840	< 1	0.07	54	1440	< 2	2.35	6	10	11	0.18	< 10	< 10	157	< 10	8140
400743	1100 229	1310	< 1	0.08	46	1760	< 2	0.54	6	12	50	0.16	< 10	< 10	181	< 10	2310
400744	1100 229	365	< 1	0.11	26	1090	< 2	0.81	< 2	8	16	0.13	< 10	< 10	115	< 10	58
400745	1100 229	955	< 1	0.01	57	1070	< 2	1.62	14	13	8	0.25	< 10	< 10	247	< 10	3850
401248	1100 229	425	< 1	0.03	51	520	< 2	0.14	2	8	10	0.11	< 10	< 10	80	< 10	468
401249	1100 229	425	< 1	0.03	65	610	< 2	0.06	8	9	12	0.10	< 10	< 10	89	< 10	54

CERTIFICATION:



ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
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TO: CREW DEVELOPMENT CORPORATION

O.H. BANGSVEI 54-58
NO-1363, HOVIK
NORWAY

Project:
Comments: ATTN: DENIS SCHLATTER

Page Number : 1
Total Pages : 4
Certificate Date: 29-OCT-2001
Invoice No. : 10126785
P.O. Number : WO-P-1398
Account : WWAQ

CERTIFICATE OF ANALYSIS

A0126785

SAMPLE	PREP CODE	Au ppb ICP-MS	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
399511	1100 229	11	< 0.2	3.56	< 2	< 10	150	< 0.5	< 2	0.71	< 0.5	29	110	1320	5.21	10	< 1	0.22	< 10	2.91
399512	1100 229	18	0.4	1.70	< 2	< 10	20	< 0.5	< 2	1.02	0.5	34	51	1950	3.54	< 10	< 1	0.06	< 10	1.27
399513	1100 229	15	0.6	1.15	< 2	< 10	< 10	< 0.5	< 2	1.27	< 0.5	26	33	2450	2.79	< 10	< 1	0.04	< 10	0.78
399514	1100 229	140	5.8	1.48	< 2	< 10	80	< 0.5	< 2	1.13	6.0	52	43	>10000	4.86	< 10	< 1	0.15	< 10	1.13
399515	1100 229	5	0.2	1.17	4	< 10	170	< 0.5	< 2	0.88	< 0.5	29	35	1075	2.92	< 10	< 1	0.22	< 10	0.86
399516	1100 229	24	< 0.2	1.10	< 2	< 10	140	< 0.5	2	1.12	< 0.5	33	33	1305	3.28	< 10	< 1	0.20	< 10	0.78
399517	1100 229	1	< 0.2	0.99	< 2	< 10	30	< 0.5	< 2	1.11	< 0.5	22	33	441	2.52	< 10	< 1	0.07	< 10	0.71
399518	1100 229	12	0.8	1.62	< 2	< 10	90	< 0.5	< 2	1.01	1.5	51	45	3130	4.93	< 10	< 1	0.20	< 10	1.20
399519	1100 229	3	< 0.2	2.27	< 2	< 10	130	< 0.5	< 2	0.91	< 0.5	24	57	834	4.04	< 10	< 1	0.23	< 10	1.72
399520	1100 229	18	0.8	2.50	< 2	< 10	50	< 0.5	< 2	0.78	< 0.5	49	66	2930	5.47	10	< 1	0.11	< 10	1.91
399521	1100 229	< 1	< 0.2	1.23	< 2	< 10	100	< 0.5	< 2	1.54	< 0.5	17	38	82	2.37	< 10	1	0.16	< 10	0.84
399522	1100 229	1	< 0.2	1.31	< 2	< 10	20	< 0.5	< 2	1.35	< 0.5	19	39	481	2.62	< 10	< 1	0.08	< 10	0.92
399523	1100 229	7	0.2	1.87	< 2	< 10	70	< 0.5	< 2	0.96	< 0.5	41	55	1600	4.67	< 10	< 1	0.17	< 10	1.43
399524	1100 229	1	< 0.2	1.16	< 2	< 10	20	< 0.5	< 2	1.79	< 0.5	19	36	1030	2.41	< 10	< 1	0.08	< 10	0.74
399525	1100 229	< 1	< 0.2	1.14	< 2	< 10	40	< 0.5	< 2	1.65	< 0.5	22	34	323	2.56	< 10	< 1	0.14	< 10	0.77
399526	1100 229	< 1	< 0.2	1.37	< 2	< 10	80	< 0.5	< 2	1.60	< 0.5	23	40	232	2.92	< 10	< 1	0.24	< 10	0.92
399527	1100 229	7	< 0.2	2.98	< 2	< 10	40	< 0.5	< 2	0.63	11.5	59	92	1625	7.49	10	< 1	0.98	< 10	2.27
399528	1100 229	2	0.6	1.40	< 2	< 10	80	< 0.5	< 2	1.67	9.0	26	41	2020	3.26	< 10	< 1	0.15	< 10	0.99
399529	1100 229	< 1	< 0.2	1.75	< 2	< 10	40	< 0.5	< 2	0.99	< 0.5	34	51	725	4.55	< 10	< 1	0.06	< 10	1.22
399530	1100 229	< 1	< 0.2	2.52	< 2	< 10	110	< 0.5	< 2	0.76	2.5	53	68	1600	6.41	< 10	< 1	0.19	< 10	1.78
399531	1100 229	< 1	< 0.2	1.13	< 2	< 10	50	< 0.5	< 2	1.39	< 0.5	18	24	75	2.36	< 10	< 1	0.10	< 10	0.74
399532	1100 229	< 1	< 0.2	1.25	< 2	< 10	70	< 0.5	< 2	1.77	< 0.5	24	32	90	3.07	< 10	< 1	0.14	< 10	0.83
399533	1100 229	< 1	< 0.2	1.16	< 2	< 10	60	< 0.5	< 2	2.04	< 0.5	20	33	62	2.54	< 10	< 1	0.14	< 10	0.78
399534	1100 229	1	< 0.2	1.43	< 2	< 10	80	< 0.5	< 2	1.36	< 0.5	20	40	196	2.82	< 10	< 1	0.16	< 10	0.97
399535	1100 229	< 1	< 0.2	1.16	< 2	< 10	100	< 0.5	< 2	1.29	< 0.5	22	31	73	2.72	< 10	< 1	0.24	< 10	0.82
399536	1100 229	< 1	< 0.2	2.33	< 2	< 10	80	< 0.5	< 2	0.84	0.5	39	54	230	5.68	< 10	< 1	1.03	< 10	1.81
399537	1100 229	< 1	< 0.2	1.61	< 2	< 10	170	< 0.5	< 2	0.94	< 0.5	30	36	107	3.91	< 10	< 1	0.45	< 10	1.21
399538	1100 229	< 1	< 0.2	2.60	< 2	< 10	60	< 0.5	< 2	0.64	3.0	51	57	304	6.62	< 10	< 1	0.61	< 10	2.08
399539	1100 229	< 1	< 0.2	2.41	< 2	< 10	90	< 0.5	< 2	0.32	0.5	13	105	57	3.37	< 10	< 1	0.30	10	1.99
399540	1100 229	5	0.6	3.07	< 2	< 10	110	< 0.5	< 2	0.15	1.5	27	88	1925	7.14	< 10	< 1	0.32	< 10	1.97
399541	1100 229	< 1	< 0.2	4.18	< 2	< 10	190	< 0.5	< 2	1.50	< 0.5	49	144	1795	7.83	< 10	< 1	0.60	< 10	3.27
399542	1100 229	< 1	0.2	2.50	< 2	< 10	40	< 0.5	< 2	2.03	< 0.5	19	83	303	3.82	< 10	< 1	0.10	< 10	1.95
399543	1100 229	< 1	< 0.2	3.48	< 2	< 10	350	< 0.5	< 2	0.34	< 0.5	22	111	284	5.74	< 10	< 1	0.55	< 10	2.47
399544	1100 229	< 1	< 0.2	3.32	< 2	< 10	220	< 0.5	< 2	0.28	1.5	20	106	161	5.57	10	< 1	0.31	10	2.24
399545	1100 229	< 1	< 0.2	2.95	< 2	< 10	100	< 0.5	< 2	0.32	< 0.5	20	97	97	4.77	10	< 1	0.18	10	2.16
399546	1100 229	19	< 0.2	1.78	2	< 10	240	< 0.5	< 2	1.25	< 0.5	19	46	1910	3.12	< 10	< 1	0.48	< 10	1.20
399547	1100 229	< 1	< 0.2	3.14	< 2	< 10	100	< 0.5	< 2	0.24	< 0.5	20	114	9	4.64	10	< 1	0.30	10	2.38
399548	1100 229	29	0.2	5.00	< 2	< 10	240	< 0.5	< 2	0.37	< 0.5	48	125	5350	8.11	10	< 1	3.17	< 10	3.23
399549	1100 229	< 1	< 0.2	3.61	< 2	< 10	310	< 0.5	< 2	0.23	< 0.5	19	110	17	4.74	10	< 1	1.26	10	2.63
399550	1100 229	1	< 0.2	2.99	< 2	< 10	310	< 0.5	< 2	0.27	< 0.5	17	102	87	4.43	10	< 1	0.97	10	2.05

CERTIFICATION:



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TO: CREW DEVELOPMENT CORPORATION

O.H. BANGSVEI 54-58
NO-1363, HOVIK
NORWAY

Project :
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CERTIFICATE OF ANALYSIS

A0126785

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
399511	1100 229	610	8	0.06	45	1640	< 2	0.15	8	8	10	0.12	< 10	< 10	148	< 10	266
399512	1100 229	410	3	0.11	40	1470	< 2	0.77	2	8	10	0.11	< 10	< 10	93	< 10	328
399513	1100 229	365	3	0.13	26	1400	< 2	0.72	2	7	12	0.12	< 10	< 10	76	< 10	104
399514	1100 229	455	3	0.08	28	1280	< 2	2.24	6	6	12	0.12	< 10	< 10	82	< 10	2060
399515	1100 229	295	< 1	0.07	39	1420	< 2	0.74	2	5	11	0.15	< 10	< 10	72	< 10	244
399516	1100 229	315	< 1	0.11	39	1310	< 2	1.01	6	6	11	0.18	< 10	< 10	77	< 10	122
399517	1100 229	295	< 1	0.10	34	1380	< 2	0.57	2	6	11	0.13	< 10	< 10	69	< 10	96
399518	1100 229	390	2	0.10	50	1630	< 2	1.66	6	6	11	0.14	< 10	< 10	82	< 10	352
399519	1100 229	460	1	0.09	31	1440	< 2	0.39	2	7	10	0.10	< 10	< 10	94	< 10	174
399520	1100 229	480	1	0.08	46	1310	< 2	1.15	6	7	10	0.09	< 10	< 10	99	< 10	224
399521	1100 229	375	< 1	0.13	27	1310	< 2	0.23	2	8	20	0.22	< 10	< 10	85	< 10	32
399522	1100 229	380	2	0.13	27	1440	< 2	0.35	2	7	14	0.16	< 10	< 10	83	< 10	70
399523	1100 229	450	1	0.10	39	1520	< 2	1.28	2	7	12	0.13	< 10	< 10	96	< 10	252
399524	1100 229	310	< 1	0.12	31	1420	< 2	0.39	2	7	16	0.20	< 10	< 10	79	< 10	46
399525	1100 229	345	< 1	0.12	34	1500	< 2	0.42	< 2	7	22	0.16	< 10	< 10	82	< 10	60
399526	1100 229	360	< 1	0.11	35	1540	< 2	0.50	2	7	18	0.21	< 10	< 10	90	< 10	326
399527	1100 229	515	1	0.05	48	1550	< 2	2.38	6	7	13	0.19	< 10	< 10	154	< 10	5960
399528	1100 229	375	< 1	0.11	28	1470	< 2	0.94	4	7	16	0.12	< 10	< 10	86	< 10	3000
399529	1100 229	370	1	0.09	42	1420	< 2	1.10	6	7	13	0.11	< 10	< 10	94	< 10	298
399530	1100 229	445	< 1	0.07	44	1460	< 2	1.59	6	7	13	0.11	< 10	< 10	111	< 10	996
399531	1100 229	320	< 1	0.13	34	1400	< 2	0.32	< 2	6	17	0.25	< 10	< 10	76	< 10	110
399532	1100 229	390	< 1	0.13	32	1380	< 2	0.65	2	8	17	0.16	< 10	< 10	88	< 10	280
399533	1100 229	400	< 1	0.15	29	1440	< 2	0.30	< 2	8	26	0.22	< 10	< 10	93	< 10	42
399534	1100 229	370	1	0.12	32	1450	< 2	0.29	< 2	7	14	0.20	< 10	< 10	83	< 10	132
399535	1100 229	370	< 1	0.13	34	1530	< 2	0.49	2	7	13	0.20	< 10	< 10	85	< 10	106
399536	1100 229	640	1	0.07	45	1500	54	1.66	4	6	11	0.24	< 10	< 10	123	< 10	830
399537	1100 229	420	1	0.08	37	1450	2	1.04	4	5	9	0.22	< 10	< 10	87	< 10	84
399538	1100 229	645	1	0.05	42	1170	< 2	2.13	6	6	10	0.20	< 10	< 10	121	< 10	1150
399539	1100 229	465	< 1	0.04	40	570	< 2	0.12	4	5	12	0.10	< 10	< 10	67	< 10	442
399540	1100 229	370	< 1	0.01	42	500	< 2	1.47	8	5	9	0.06	< 10	< 10	68	< 10	1145
399541	1100 229	995	< 1	0.03	62	1100	< 2	1.40	10	4	21	0.17	< 10	< 10	118	< 10	784
399542	1100 229	630	< 1	0.07	37	1140	< 2	0.19	2	4	18	0.14	< 10	< 10	72	< 10	394
399543	1100 229	490	< 1	0.02	48	590	< 2	0.25	8	7	9	0.11	< 10	< 10	98	< 10	480
399544	1100 229	370	< 1	0.03	47	550	< 2	0.17	8	6	16	0.09	< 10	< 10	85	< 10	790
399545	1100 229	400	< 1	0.04	42	600	< 2	0.09	6	5	10	0.06	< 10	< 10	71	< 10	96
399546	1100 229	355	< 1	0.12	23	1560	< 2	0.25	6	8	11	0.13	< 10	< 10	108	< 10	108
399547	1100 229	435	< 1	0.04	60	620	< 2	< 0.01	8	8	8	0.07	< 10	< 10	92	< 10	64
399548	1100 229	505	1	0.04	92	1500	< 2	0.88	10	16	11	0.42	< 10	< 10	291	< 10	160
399549	1100 229	600	< 1	0.03	71	660	< 2	< 0.01	6	11	9	0.17	< 10	< 10	108	< 10	114
399550	1100 229	470	< 1	0.04	54	710	< 2	0.03	8	8	11	0.15	< 10	< 10	90	< 10	314

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OCEAN DEVELOPMENT CORPORATION

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CERTIFICATE OF ANALYSIS**A0126785**

SAMPLE	PREP CODE	Au ppb ICP-MS	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
400651	1100 229	< 1	0.2	1.21	< 2	< 10	100	< 0.5	2	1.50	< 0.5	19	38	102	2.47	< 10	< 1	0.12	< 10	0.83
400652	1100 229	9	1.2	1.44	< 2	< 10	60	< 0.5	2	1.39	0.5	31	44	2510	3.66	< 10	< 1	0.12	< 10	1.09
400653	1100 229	< 1	0.8	1.15	< 2	< 10	70	< 0.5	< 2	1.31	< 0.5	29	34	400	3.35	< 10	< 1	0.19	< 10	0.84
400654	1100 229	< 1	< 0.2	1.23	< 2	< 10	30	< 0.5	< 2	1.48	< 0.5	19	40	239	2.58	< 10	< 1	0.12	< 10	0.85
400655	1100 229	22	1.2	2.34	2	< 10	90	< 0.5	< 2	0.98	2.0	63	63	4260	7.35	< 10	< 1	0.23	< 10	1.83
400656	1100 229	1	< 0.2	1.68	< 2	< 10	60	< 0.5	2	1.29	< 0.5	47	58	943	5.03	< 10	< 1	0.14	< 10	1.25
400657	1100 229	< 1	< 0.2	1.33	< 2	< 10	100	< 0.5	< 2	1.51	< 0.5	26	47	357	3.35	< 10	< 1	0.18	< 10	0.92
400658	1100 229	< 1	< 0.2	1.51	< 2	< 10	120	< 0.5	< 2	1.14	< 0.5	48	55	1110	5.64	< 10	< 1	0.27	< 10	1.15
400659	1100 229	< 1	< 0.2	1.41	< 2	< 10	60	< 0.5	< 2	1.83	< 0.5	21	44	52	3.01	< 10	< 1	0.21	< 10	0.91
400660	1100 229	< 1	< 0.2	1.51	< 2	< 10	50	< 0.5	2	1.69	< 0.5	19	35	60	2.93	< 10	< 1	0.33	< 10	0.96
400661	1100 229	< 1	< 0.2	1.58	< 2	< 10	50	< 0.5	2	1.80	< 0.5	25	43	228	3.30	< 10	< 1	0.20	< 10	1.00
400662	1100 229	< 1	< 0.2	1.64	< 2	< 10	140	< 0.5	2	1.64	0.5	26	48	184	3.52	< 10	< 1	0.41	< 10	1.06
400663	1100 229	< 1	< 0.2	1.62	< 2	< 10	80	< 0.5	6	1.43	< 0.5	24	48	92	3.38	< 10	< 1	0.14	< 10	1.07
400664	1100 229	< 1	< 0.2	1.81	< 2	< 10	40	< 0.5	< 2	1.24	1.0	46	45	388	5.17	< 10	1	0.10	< 10	1.26
400665	1100 229	< 1	< 0.2	1.38	< 2	< 10	70	< 0.5	2	1.76	< 0.5	19	38	73	2.74	< 10	< 1	0.20	< 10	0.92
400666	1100 229	44	1.8	1.54	< 2	< 10	10	< 0.5	< 2	1.76	3.0	34	43	3990	3.88	< 10	< 1	0.09	< 10	1.05
400667	1100 229	1	< 0.2	1.16	< 2	< 10	50	< 0.5	< 2	1.70	< 0.5	18	31	52	2.41	< 10	< 1	0.17	< 10	0.72
400668	1100 229	< 1	< 0.2	1.46	< 2	< 10	80	< 0.5	< 2	1.72	< 0.5	20	37	220	3.03	< 10	< 1	0.32	< 10	0.96
400669	1100 229	< 1	< 0.2	1.58	< 2	< 10	60	< 0.5	2	1.67	< 0.5	29	37	152	3.66	< 10	< 1	0.26	< 10	1.07
400670	1100 229	< 1	< 0.2	2.08	< 2	< 10	70	< 0.5	< 2	1.52	< 0.5	75	44	331	7.09	10	< 1	0.28	< 10	1.49
400671	1100 229	< 1	< 0.2	1.35	< 2	< 10	30	< 0.5	< 2	1.86	< 0.5	18	28	58	2.77	< 10	< 1	0.14	< 10	0.89
400672	1100 229	< 1	< 0.2	1.56	2	< 10	110	< 0.5	2	1.58	< 0.5	25	37	85	3.29	< 10	1	0.36	< 10	1.09
400673	1100 229	< 1	< 0.2	2.64	< 2	< 10	120	< 0.5	< 2	1.02	3.0	43	55	302	5.98	10	< 1	0.66	< 10	2.11
400674	1100 229	< 1	< 0.2	3.49	< 2	< 10	170	< 0.5	< 2	0.34	1.5	22	113	271	5.68	10	< 1	0.44	10	2.74
400675	1100 229	2	0.2	6.63	< 2	< 10	320	< 0.5	< 2	0.36	< 0.5	48	197	1205	11.85	20	< 1	0.91	< 10	4.57
400676	1100 229	33	4.6	3.87	2	< 10	40	< 0.5	< 2	0.13	2.5	63	76	>10000	11.60	10	< 1	0.76	< 10	2.56
400677	1100 229	< 1	< 0.2	6.86	< 2	< 10	70	0.5	< 2	0.36	< 0.5	51	214	524	12.25	20	< 1	0.16	< 10	4.80
400678	1100 229	2	0.2	3.91	< 2	< 10	190	< 0.5	< 2	0.31	< 0.5	24	112	718	6.72	10	< 1	0.31	10	2.33
400679	1100 229	1	< 0.2	3.39	2	< 10	180	< 0.5	< 2	0.24	< 0.5	17	119	159	5.37	10	< 1	0.36	10	2.37
400680	1100 229	< 1	< 0.2	2.27	< 2	< 10	80	< 0.5	< 2	0.41	< 0.5	12	86	17	3.46	< 10	< 1	0.16	10	1.60
400681	1100 229	7	< 0.2	2.26	< 2	< 10	160	< 0.5	2	1.17	1.0	31	70	1690	4.25	< 10	< 1	0.21	< 10	1.66
400682	1100 229	2	< 0.2	2.86	< 2	< 10	60	< 0.5	2	0.33	< 0.5	20	96	394	4.46	< 10	< 1	0.12	10	2.16
400683	1100 229	3	< 0.2	1.82	< 2	< 10	< 10	< 0.5	< 2	1.82	< 0.5	23	54	737	3.44	< 10	< 1	0.06	< 10	1.35
400684	1100 229	110	2.6	2.86	< 2	< 10	100	< 0.5	< 2	1.10	3.0	51	68	6700	6.48	10	< 1	0.38	< 10	2.21
400685	1100 229	1	< 0.2	1.41	< 2	< 10	20	< 0.5	< 2	1.50	< 0.5	17	35	424	2.78	< 10	< 1	0.10	< 10	0.95
400686	1100 229	5	0.6	2.30	< 2	< 10	130	< 0.5	< 2	1.58	< 0.5	53	60	2460	5.91	< 10	< 1	0.38	< 10	1.62
400687	1100 229	< 1	< 0.2	1.38	< 2	< 10	10	< 0.5	2	1.77	< 0.5	22	36	264	2.99	< 10	< 1	0.08	< 10	0.94
400688	1100 229	< 1	< 0.2	1.31	< 2	< 10	10	< 0.5	2	2.01	< 0.5	19	32	153	2.64	< 10	< 1	0.08	< 10	0.82
400689	1100 229	5	0.8	2.39	2	< 10	40	< 0.5	< 2	1.20	4.0	59	63	2870	6.40	10	< 1	0.11	< 10	1.83
400690	1100 229	< 1	< 0.2	2.40	< 2	< 10	70	< 0.5	2	1.05	1.0	54	62	1475	7.11	< 10	< 1	0.15	< 10	1.86

CERTIFICATION:



ALS Chemex

Aurora Laboratory Services Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver

British Columbia, Canada V7J 2C1

PHONE: 604-984-0221 FAX: 604-984-0218

To: CREW DEVELOPMENT CORPORATION

O.H. BANGSVEI 54-58

NO-1363, HOVIK

NORWAY

Project :

Comments: ATTN: DENIS SCHLATTER

Page Number : 2-B

Total Pages : 4

Certificate Date: 29-OCT-2001

Invoice No. : 10126785

P.O. Number : WO-P-1398

Account : WWAQ

CERTIFICATE OF ANALYSIS

A0126785

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
400651	1100 229	385	< 1	0.19	31	1390	< 2	0.29	< 2	8	12	0.23	< 10	10	88	< 10	40
400652	1100 229	480	< 1	0.17	37	1500	< 2	0.95	2	8	11	0.18	< 10	< 10	96	< 10	308
400653	1100 229	380	< 1	0.17	37	1440	< 2	0.86	< 2	8	11	0.18	< 10	< 10	86	< 10	66
400654	1100 229	405	< 1	0.17	29	1290	< 2	0.33	< 2	9	10	0.27	< 10	< 10	85	< 10	74
400655	1100 229	640	< 1	0.11	49	1420	< 2	2.24	6	10	8	0.17	< 10	< 10	123	< 10	742
400656	1100 229	545	< 1	0.16	51	1490	< 2	1.44	4	10	10	0.26	< 10	< 10	102	< 10	322
400657	1100 229	460	< 1	0.18	39	1350	< 2	0.71	2	10	12	0.29	< 10	< 10	94	< 10	82
400658	1100 229	540	< 1	0.14	44	1200	< 2	1.75	2	9	10	0.22	< 10	< 10	101	< 10	198
400659	1100 229	465	< 1	0.19	35	1370	< 2	0.42	2	10	13	0.42	< 10	< 10	96	< 10	30
400660	1100 229	435	< 1	0.17	31	1350	< 2	0.29	< 2	9	12	0.42	< 10	< 10	94	< 10	34
400661	1100 229	490	< 1	0.19	38	1530	< 2	0.50	4	10	12	0.39	< 10	< 10	102	< 10	96
400662	1100 229	470	< 1	0.18	35	1380	< 2	0.59	2	10	11	0.43	< 10	< 10	102	< 10	352
400663	1100 229	425	< 1	0.16	33	1400	< 2	0.48	2	10	11	0.28	< 10	< 10	96	< 10	80
400664	1100 229	505	< 1	0.14	37	1410	< 2	1.30	4	9	12	0.15	< 10	< 10	97	< 10	832
400665	1100 229	405	< 1	0.19	30	1290	< 2	0.27	2	10	14	0.31	< 10	< 10	93	< 10	46
400666	1100 229	540	< 1	0.18	27	1470	< 2	0.91	4	10	22	0.18	< 10	< 10	100	< 10	972
400667	1100 229	360	< 1	0.16	29	1460	< 2	0.28	< 2	8	15	0.31	< 10	< 10	82	< 10	30
400668	1100 229	460	3	0.17	34	1530	10	0.38	2	9	13	0.35	< 10	< 10	97	< 10	64
400669	1100 229	545	< 1	0.16	46	1500	< 2	0.65	2	9	12	0.40	< 10	< 10	106	< 10	76
400670	1100 229	715	< 1	0.18	54	1260	< 2	2.09	2	10	10	0.30	< 10	< 10	114	< 10	130
400671	1100 229	430	< 1	0.15	36	1340	< 2	0.26	2	8	19	0.30	< 10	< 10	90	< 10	40
400672	1100 229	495	< 1	0.15	31	1400	< 2	0.47	4	9	14	0.23	< 10	< 10	101	< 10	82
400673	1100 229	805	< 1	0.10	44	1480	< 2	1.33	6	9	10	0.29	< 10	< 10	136	< 10	1015
400674	1100 229	625	< 1	0.02	46	630	< 2	0.45	10	9	8	0.12	< 10	< 10	95	< 10	874
400675	1100 229	650	5	0.02	62	1260	< 2	0.97	10	9	7	0.16	< 10	< 10	226	< 10	540
400676	1100 229	565	4	0.01	53	360	< 2	3.20	12	5	6	0.13	< 10	< 10	101	< 10	1020
400677	1100 229	735	5	0.01	68	1180	< 2	0.93	16	9	7	0.07	< 10	< 10	218	< 10	618
400678	1100 229	430	< 1	0.01	43	460	< 2	0.50	8	6	14	0.08	< 10	< 10	83	< 10	380
400679	1100 229	505	< 1	0.02	45	530	< 2	0.06	8	7	8	0.10	< 10	< 10	81	< 10	402
400680	1100 229	410	< 1	0.07	37	520	< 2	0.01	8	4	9	0.08	< 10	< 10	43	< 10	56
400681	1100 229	575	1	0.14	37	1560	< 2	0.62	4	10	8	0.16	< 10	< 10	118	< 10	456
400682	1100 229	545	< 1	0.05	46	610	< 2	0.09	6	6	9	0.07	< 10	< 10	70	< 10	98
400683	1100 229	575	< 1	0.15	31	1830	< 2	0.41	6	9	20	0.15	< 10	< 10	94	< 10	146
400684	1100 229	635	< 1	0.12	36	1450	< 2	1.52	6	11	10	0.19	< 10	< 10	136	< 10	614
400685	1100 229	430	< 1	0.20	28	1450	< 2	0.31	2	11	8	0.17	< 10	< 10	106	< 10	148
400686	1100 229	640	< 1	0.18	52	1420	< 2	1.53	6	12	13	0.26	< 10	< 10	126	< 10	288
400687	1100 229	500	< 1	0.19	31	1330	< 2	0.43	2	10	12	0.27	< 10	< 10	99	< 10	70
400688	1100 229	470	< 1	0.18	30	1430	< 2	0.32	2	10	17	0.31	< 10	< 10	94	< 10	54
400689	1100 229	650	< 1	0.14	45	1600	< 2	1.69	6	10	11	0.20	< 10	< 10	118	< 10	1230
400690	1100 229	660	< 1	0.12	50	1370	< 2	1.92	6	10	10	0.17	< 10	< 10	119	< 10	618

CERTIFICATION:



ALS Chemex

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212 Brooksbank Ave., North Vancouver
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To: CREW DEVELOPMENT CORPORATION

O.H. BANGSVEI 54-58
NO-1363, HOVIK
NORWAY

Project:
Comments: ATTN: DENIS SCHLATTER

Page Number : 3-A
Total Pages : 4
Certificate Date: 29-OCT-2001
Invoice No. : 10126785
P.O. Number : WO:P-1398
Account : WWAQ

CERTIFICATE OF ANALYSIS

A0126785

SAMPLE	PREP CODE	Au ppb ICP-MS	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
400691	1100 229	< 1	< 0.2	1.54	< 2	< 10	10	< 0.5	< 2	1.60	< 0.5	28	41	453	3.73	< 10	< 1	0.07	< 10	1.09
400692	1100 229	< 1	< 0.2	1.37	< 2	< 10	10	< 0.5	< 2	1.97	< 0.5	25	37	120	3.27	< 10	< 1	0.07	< 10	0.92
400693	1100 229	< 1	< 0.2	1.50	< 2	< 10	10	< 0.5	2	1.33	1.0	27	38	317	3.58	< 10	< 1	0.08	< 10	1.03
400694	1100 229	< 1	< 0.2	1.46	< 2	< 10	< 10	< 0.5	2	1.18	< 0.5	32	38	193	3.94	< 10	< 1	0.04	< 10	1.05
400695	1100 229	< 1	< 0.2	1.29	< 2	< 10	< 10	< 0.5	< 2	1.69	< 0.5	23	33	81	2.95	< 10	< 1	0.06	< 10	0.86
400696	1100 229	< 1	< 0.2	1.93	< 2	< 10	80	< 0.5	< 2	0.99	10.0	60	62	513	7.38	< 10	< 1	0.22	< 10	1.45
400697	1100 229	< 1	< 0.2	1.59	< 2	< 10	< 10	< 0.5	< 2	1.55	< 0.5	18	37	83	2.97	< 10	< 1	0.06	< 10	1.03
400698	1100 229	< 1	< 0.2	1.85	< 2	< 10	40	< 0.5	< 2	1.57	< 0.5	24	40	290	3.97	< 10	< 1	0.10	< 10	1.26
400699	1100 229	< 1	< 0.2	1.18	< 2	< 10	40	< 0.5	< 2	1.76	< 0.5	18	34	69	2.51	< 10	< 1	0.12	< 10	0.79
400700	1100 229	< 1	< 0.2	1.13	< 2	< 10	200	< 0.5	< 2	2.71	< 0.5	47	35	505	4.42	< 10	< 1	0.32	< 10	0.77
400701	1100 229	< 1	< 0.2	1.43	< 2	< 10	120	< 0.5	< 2	1.94	< 0.5	22	35	96	2.92	< 10	< 1	0.29	< 10	0.92
400702	1100 229	< 1	< 0.2	1.72	< 2	< 10	80	< 0.5	< 2	1.49	< 0.5	24	42	170	3.56	< 10	< 1	0.23	< 10	1.19
400703	1100 229	< 1	< 0.2	1.27	< 2	< 10	10	< 0.5	2	2.03	< 0.5	17	34	46	2.53	< 10	< 1	0.07	< 10	0.88
400704	1100 229	< 1	< 0.2	1.65	< 2	< 10	40	< 0.5	< 2	2.26	< 0.5	18	36	58	3.07	< 10	< 1	0.12	< 10	1.25
400705	1100 229	< 1	< 0.2	3.01	< 2	< 10	140	< 0.5	< 2	0.96	< 0.5	16	129	61	4.26	10	< 1	0.35	10	2.51
400706	1100 229	< 1	< 0.2	3.95	< 2	< 10	120	< 0.5	< 2	0.25	6.5	30	132	749	7.47	10	< 1	0.27	< 10	3.04
400707	1100 229	< 1	< 0.2	3.54	< 2	< 10	250	< 0.5	< 2	0.16	0.5	19	110	139	5.95	10	< 1	0.45	10	2.42
400708	1100 229	1	< 0.2	3.56	< 2	< 10	170	< 0.5	< 2	0.17	< 0.5	20	115	195	6.14	10	< 1	0.27	10	2.26
400709	1100 229	< 1	< 0.2	1.38	< 2	< 10	< 10	< 0.5	< 2	1.10	1.5	7	90	12	1.87	< 10	< 1	0.01	< 10	1.05
400710	1100 229	< 1	< 0.2	2.75	< 2	< 10	50	< 0.5	< 2	0.26	< 0.5	17	115	135	4.13	10	< 1	0.10	10	2.18
400711	1100 229	< 1	< 0.2	1.63	2	< 10	10	< 0.5	< 2	1.73	< 0.5	24	41	365	3.36	< 10	< 1	0.06	< 10	1.13
400712	1100 229	< 1	0.2	1.46	10	< 10	< 10	< 0.5	< 2	2.05	< 0.5	33	36	539	3.63	< 10	< 1	0.05	< 10	0.96
400713	1100 229	< 1	< 0.2	1.57	< 2	< 10	< 10	< 0.5	< 2	1.59	< 0.5	29	37	556	3.62	< 10	< 1	0.06	< 10	1.06
400714	1100 229	< 1	< 0.2	1.42	< 2	< 10	60	< 0.5	< 2	1.51	< 0.5	22	37	306	3.05	< 10	< 1	0.14	< 10	1.00
400715	1100 229	< 1	< 0.2	1.44	< 2	< 10	30	< 0.5	< 2	1.27	0.5	28	36	281	3.41	< 10	< 1	0.09	< 10	1.02
400716	1100 229	< 1	< 0.2	2.18	< 2	< 10	50	< 0.5	< 2	0.82	10.5	49	51	824	6.02	< 10	< 1	0.09	< 10	1.66
400717	1100 229	< 1	< 0.2	1.70	< 2	< 10	< 10	< 0.5	< 2	1.38	2.0	27	41	394	3.82	< 10	< 1	0.04	< 10	1.25
400718	1100 229	< 1	< 0.2	2.07	< 2	< 10	< 10	< 0.5	2	1.20	5.5	49	48	2020	6.21	10	< 1	0.04	< 10	1.46
400719	1100 229	< 1	< 0.2	2.17	< 2	< 10	60	< 0.5	< 2	0.90	2.5	57	60	927	7.18	10	< 1	0.49	< 10	1.67
400720	1100 229	< 1	0.2	3.28	< 2	< 10	20	< 0.5	< 2	0.79	39.5	117	76	972	12.60	10	< 1	1.09	< 10	2.42
400721	1100 229	< 1	< 0.2	1.95	< 2	< 10	130	< 0.5	< 2	1.19	< 0.5	38	50	262	5.10	< 10	< 1	0.68	< 10	1.36
400722	1100 229	< 1	< 0.2	2.36	< 2	< 10	80	< 0.5	< 2	1.04	10.5	59	61	435	7.31	10	< 1	0.34	< 10	1.79
400723	1100 229	< 1	< 0.2	1.53	< 2	< 10	20	< 0.5	< 2	1.14	< 0.5	37	51	278	4.13	< 10	< 1	0.07	< 10	1.20
400724	1100 229	< 1	< 0.2	1.35	< 2	< 10	10	< 0.5	2	1.75	< 0.5	26	47	166	3.26	< 10	< 1	0.06	< 10	0.97
400725	1100 229	< 1	< 0.2	1.38	< 2	< 10	< 10	< 0.5	< 2	1.83	< 0.5	20	32	88	2.95	< 10	< 1	0.04	< 10	0.93
400726	1100 229	< 1	< 0.2	1.64	< 2	< 10	30	< 0.5	< 2	1.14	2.0	33	46	278	4.36	< 10	< 1	0.05	< 10	1.18
400727	1100 229	< 1	< 0.2	1.31	< 2	< 10	90	< 0.5	< 2	1.82	< 0.5	18	28	43	2.66	< 10	< 1	0.31	< 10	0.81
400728	1100 229	1	< 0.2	1.39	< 2	< 10	30	< 0.5	< 2	2.21	< 0.5	21	37	182	2.96	< 10	1	0.10	< 10	0.87
400729	1100 229	< 1	< 0.2	1.34	< 2	< 10	60	< 0.5	< 2	1.80	< 0.5	18	35	46	2.83	< 10	< 1	0.31	< 10	0.89
400730	1100 229	< 1	< 0.2	1.69	< 2	< 10	110	< 0.5	< 2	1.41	< 0.5	30	42	139	3.84	< 10	< 1	0.31	< 10	1.25

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SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
400691	1100 229	540	< 1	0.18	38	1580	< 2	0.72	6	10	12	0.22	< 10	< 10	107	< 10	282
400692	1100 229	485	< 1	0.17	34	1350	< 2	0.48	2	10	16	0.30	< 10	< 10	101	< 10	66
400693	1100 229	500	< 1	0.16	36	1300	< 2	0.68	< 2	9	11	0.21	< 10	< 10	95	< 10	526
400694	1100 229	450	< 1	0.15	40	1310	< 2	0.86	6	9	13	0.18	< 10	< 10	90	< 10	364
400695	1100 229	440	< 1	0.18	34	1480	< 2	0.43	< 2	10	13	0.26	< 10	< 10	92	< 10	56
400696	1100 229	595	< 1	0.11	60	1320	< 2	2.44	2	8	12	0.18	< 10	< 10	95	< 10	3870
400697	1100 229	480	< 1	0.17	26	1580	< 2	0.26	2	10	14	0.20	< 10	< 10	96	< 10	96
400698	1100 229	490	< 1	0.13	28	1390	< 2	0.57	4	8	18	0.19	< 10	< 10	92	< 10	134
400699	1100 229	450	< 1	0.16	28	1400	< 2	0.31	4	9	15	0.24	< 10	< 10	83	< 10	40
400700	1100 229	700	< 1	0.13	41	1280	< 2	1.33	2	8	41	0.27	< 10	< 10	82	< 10	44
400701	1100 229	475	< 1	0.15	35	1490	< 2	0.37	4	9	19	0.29	< 10	< 10	92	< 10	68
400702	1100 229	580	< 1	0.16	33	1470	< 2	0.50	< 2	10	13	0.22	< 10	< 10	105	< 10	338
400703	1100 229	415	< 1	0.16	26	1440	< 2	0.21	< 2	9	18	0.16	< 10	< 10	93	< 10	50
400704	1100 229	510	< 1	0.11	25	1290	< 2	0.27	2	8	21	0.13	< 10	< 10	96	< 10	60
400705	1100 229	745	< 1	0.03	45	570	< 2	0.11	8	8	13	0.10	< 10	< 10	96	< 10	422
400706	1100 229	570	< 1	0.02	52	660	< 2	0.92	12	7	7	0.08	< 10	< 10	110	< 10	1950
400707	1100 229	470	< 1	0.01	46	480	< 2	0.24	8	8	9	0.10	< 10	< 10	83	< 10	606
400708	1100 229	380	< 1	0.01	46	490	< 2	0.13	8	6	8	0.07	< 10	< 10	71	< 10	260
400709	1100 229	420	< 1	0.07	22	490	< 2	0.03	4	1	23	0.11	< 10	< 10	20	< 10	610
400710	1100 229	450	< 1	0.04	57	580	< 2	0.01	10	7	9	0.06	< 10	< 10	73	< 10	46
400711	1100 229	480	< 1	0.17	35	1680	< 2	0.53	2	10	13	0.20	< 10	< 10	96	< 10	78
400712	1100 229	570	< 1	0.16	40	1370	< 2	1.28	4	10	12	0.14	< 10	< 10	101	< 10	110
400713	1100 229	530	< 1	0.18	33	1190	< 2	0.62	6	10	13	0.20	< 10	< 10	106	< 10	132
400714	1100 229	455	< 1	0.17	27	1180	< 2	0.42	2	9	14	0.19	< 10	< 10	96	< 10	154
400715	1100 229	495	< 1	0.16	33	1440	< 2	0.66	< 2	9	11	0.18	< 10	< 10	93	< 10	380
400716	1100 229	565	< 1	0.10	44	1420	< 2	1.54	2	8	11	0.11	< 10	< 10	98	< 10	3720
400717	1100 229	565	< 1	0.13	32	1480	< 2	0.72	6	8	15	0.14	< 10	< 10	93	< 10	726
400718	1100 229	610	< 1	0.14	45	1460	< 2	1.86	4	9	12	0.19	< 10	< 10	102	< 10	2550
400719	1100 229	625	< 1	0.10	49	1460	< 2	2.15	4	9	9	0.24	< 10	< 10	126	< 10	1265
400720	1100 229	735	< 1	0.08	59	1420	< 2	4.97	4	8	12	0.26	< 10	< 10	146	< 10	>10000
400721	1100 229	565	< 1	0.14	44	1430	< 2	1.28	2	10	10	0.31	< 10	< 10	123	< 10	464
400722	1100 229	615	< 1	0.12	53	1360	< 2	2.11	4	9	9	0.21	< 10	< 10	118	< 10	2570
400723	1100 229	510	< 1	0.13	43	1340	< 2	0.97	2	8	10	0.19	< 10	< 10	86	< 10	294
400724	1100 229	525	< 1	0.13	31	990	< 2	0.61	2	8	20	0.18	< 10	< 10	77	< 10	166
400725	1100 229	460	< 1	0.14	29	1490	< 2	0.43	2	8	17	0.19	< 10	< 10	85	< 10	166
400726	1100 229	550	< 1	0.12	41	1260	< 2	1.10	4	8	11	0.14	< 10	< 10	88	< 10	718
400727	1100 229	385	< 1	0.16	25	1810	< 2	0.24	2	9	20	0.30	< 10	< 10	95	< 10	44
400728	1100 229	505	< 1	0.18	26	1640	< 2	0.37	2	10	23	0.28	< 10	< 10	100	< 10	100
400729	1100 229	425	< 1	0.18	28	1600	< 2	0.28	< 2	9	17	0.35	< 10	< 10	97	< 10	46
400730	1100 229	570	< 1	0.17	40	1410	< 2	0.69	2	10	11	0.21	< 10	< 10	107	< 10	100

CERTIFICATION: 



ALS Chemex

Aurora Laboratory Services Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver

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PHONE: 604-984-0221 FAX: 604-984-0218

O.H. BANGSVEI 54-58

NO-1363, HOVIK

NORWAY

Project :

Comments: ATTN: DENIS SCHLATTER

Page Number

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Certificate Date: 29-OCT-2001

Invoice No. : 10126785

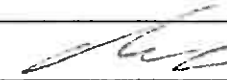
P.O. Number : WO:P-1398

Account : WWAQ

CERTIFICATE OF ANALYSIS

A0126785

SAMPLE	PREP CODE	Au ppb ICP-MS	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
400731	1100 229	< 1	< 0.2	1.42	< 2	< 10	100	< 0.5	< 2	1.92	< 0.5	23	29	58	3.10	< 10	< 1	0.22	< 10	0.94
400732	1100 229	< 1	< 0.2	2.82	< 2	< 10	450	< 0.5	< 2	0.96	< 0.5	32	60	124	5.20	10	< 1	1.43	< 10	2.14
400733	1100 229	< 1	< 0.2	3.35	< 2	< 10	290	< 0.5	2	0.78	< 0.5	31	71	186	6.09	10	< 1	1.29	< 10	2.67
400734	1100 229	< 1	< 0.2	2.22	< 2	< 10	100	< 0.5	< 2	0.30	0.5	14	78	98	3.57	< 10	< 1	0.33	< 10	1.80
400735	1100 229	< 1	0.2	4.10	< 2	< 10	170	< 0.5	< 2	2.03	0.5	34	137	289	6.60	10	< 1	0.46	< 10	3.52
400736	1100 229	< 1	< 0.2	4.35	< 2	< 10	120	< 0.5	< 2	0.16	< 0.5	22	113	71	5.72	10	< 1	0.31	10	3.69
400737	1100 229	< 1	< 0.2	1.65	< 2	< 10	100	< 0.5	< 2	1.17	< 0.5	54	44	1210	6.05	< 10	< 1	0.40	< 10	1.21
400738	1100 229	< 1	< 0.2	1.32	< 2	< 10	80	< 0.5	< 2	1.32	< 0.5	32	33	863	3.87	< 10	< 1	0.15	< 10	0.93
400739	1100 229	8	0.8	2.15	< 2	< 10	120	< 0.5	< 2	1.06	0.5	49	53	3130	5.70	10	< 1	0.32	< 10	1.65
400740	1100 229	< 1	< 0.2	1.39	< 2	< 10	40	< 0.5	< 2	1.76	< 0.5	27	37	546	3.44	< 10	< 1	0.10	< 10	0.97
400741	1100 229	< 1	< 0.2	2.53	< 2	< 10	120	< 0.5	< 2	1.09	5.5	44	60	858	6.12	< 10	< 1	0.45	< 10	1.83
400742	1100 229	< 1	< 0.2	3.10	< 2	< 10	50	< 0.5	< 2	0.79	22.0	66	102	996	8.28	10	< 1	0.55	< 10	2.41
400743	1100 229	2	< 0.2	4.00	< 2	< 10	30	< 0.5	< 2	3.21	8.0	36	92	471	6.94	10	< 1	0.09	< 10	2.83
400744	1100 229	< 1	< 0.2	1.35	2	< 10	30	< 0.5	< 2	1.55	< 0.5	36	26	102	3.57	< 10	< 1	0.16	< 10	0.99
400745	1100 229	< 1	< 0.2	5.29	< 2	< 10	120	< 0.5	< 2	0.27	11.0	43	130	1905	10.45	10	< 1	1.82	< 10	3.97
401248	1100 229	4	< 0.2	2.96	< 2	< 10	150	< 0.5	2	0.27	0.5	22	96	456	4.65	10	1	0.48	10	1.91
401249	1100 229	< 1	< 0.2	3.07	< 2	< 10	20	< 0.5	< 2	0.34	< 0.5	22	115	30	4.84	10	< 1	0.10	10	2.22

CERTIFICATION: 



ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
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TO: CREW DEVELOPMENT CORPORATION

O.H. BANGSVEI 54-58
NO-1363, HOVIK
NORWAY

Project:
Comments: ATTN: DENIS SCHLATTER

Page Number : 4-8
Total Pages : 4
Certificate Date: 29-OCT-2001
Invoice No. : 10126785
P.O. Number : WO:P-1398
Account : WWAQ

CERTIFICATE OF ANALYSIS

A0126785

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
400731	1100 229	445	< 1	0.18	32	1600	< 2	0.43	2	11	15	0.21	< 10	< 10	122	< 10	46
400732	1100 229	590	< 1	0.12	42	1480	< 2	0.67	< 2	9	9	0.27	< 10	< 10	150	< 10	116
400733	1100 229	820	< 1	0.07	45	1320	< 2	0.86	2	8	10	0.29	< 10	< 10	170	< 10	316
400734	1100 229	465	< 1	0.02	32	460	< 2	0.26	6	5	6	0.08	< 10	< 10	64	< 10	612
400735	1100 229	1235	< 1	0.03	51	1110	104	0.71	6	11	13	0.15	< 10	< 10	184	< 10	902
400736	1100 229	970	< 1	0.01	48	500	< 2	0.14	10	11	7	0.07	< 10	< 10	108	< 10	372
400737	1100 229	515	< 1	0.13	48	1370	< 2	1.79	< 2	9	11	0.18	< 10	< 10	113	< 10	92
400738	1100 229	495	< 1	0.15	43	1460	< 2	1.01	< 2	9	10	0.23	< 10	< 10	105	< 10	70
400739	1100 229	635	< 1	0.12	43	1510	< 2	1.46	4	10	10	0.16	< 10	< 10	124	< 10	462
400740	1100 229	425	< 1	0.11	25	4000	< 2	0.74	< 2	8	23	0.10	< 10	< 10	94	< 10	386
400741	1100 229	630	< 1	0.11	40	1350	< 2	1.33	4	10	10	0.20	< 10	< 10	154	< 10	2130
400742	1100 229	840	< 1	0.07	54	1440	< 2	2.35	6	10	11	0.18	< 10	< 10	157	< 10	8140
400743	1100 229	1310	< 1	0.08	46	1760	< 2	0.54	6	12	50	0.16	< 10	< 10	181	< 10	2310
400744	1100 229	365	< 1	0.11	26	1090	< 2	0.81	< 2	8	16	0.13	< 10	< 10	115	< 10	58
400745	1100 229	955	< 1	0.01	57	1070	< 2	1.62	14	13	8	0.25	< 10	< 10	247	< 10	3850
401248	1100 229	425	< 1	0.03	51	520	< 2	0.14	2	8	10	0.11	< 10	< 10	80	< 10	468
401249	1100 229	425	< 1	0.03	65	610	< 2	0.06	8	9	12	0.10	< 10	< 10	89	< 10	54

CERTIFICATION: 

**ALS Chemex**

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O.H. BANGSVEI 54-58
NO-1363, HOVIK
NORWAY

A0127604

Comments: ATTN: DENIS SCHLATTER

CERTIFICATE**A0127604**

(WWAQ) - SWEDISH GEOCHEM SERVICES AB

Project:
P.O. #: WO:P-1398

Samples submitted to our lab in Ojebyn, Sweden
This report was printed on 31-OCT-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
212	3	Overlimit pulp, to be found

ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Cu-AA46	2	Cu %: Conc. Nitric-HCl dig'n	AAS	0.01	50.0
Zn-AA46	1	Zn %: Conc. Nitric-HCl dig'n	AAS	0.01	50.0

**ALS Chemex**

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PHONE: 604-984-0221 FAX: 604-984-0218

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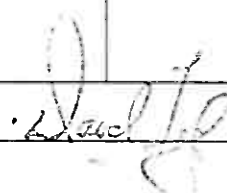
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NO-1363, HOVIK
NORWAY

Project :
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Page Number :
Total Pages : 1
Certificate Date: 31-OCT-2001
Invoice No. : 10127604
P.O. Number : WO:P-1398
Account : WWAQ

CERTIFICATE OF ANALYSIS**A0127604**

SAMPLE	PREP CODE	Cu %	Zn %								
399514	212 --	1.61	-----								
400676	212 --	1.04	-----								
400720	212 --	-----	1.94								

CERTIFICATION: 

OVERLIMITS from A0126785



ALS Chemex

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To: CREW DEVELOPMENT CORPORATION

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NORWAY

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Page Number : 1
Total Pages : 1
Certificate Date: 31-OCT-2001
Invoice No. : 10127604
P.O. Number : WO-P-1398
Account : WWAQ

CERTIFICATE OF ANALYSIS

A0127604

SAMPLE	PREP CODE	Cu %	Zn %								
399514	212 --	1.61	-----								
400676	212 --	1.04	-----								
400720	212 --	-----	1.94								

CERTIFICATION: _____