GEOCHEMICAL ASSESSMENT REPORT

CH PROPERTY
(CH-A & CH-B CLAIM GROUP)
NECHAKO PLATEAU, B.C.

Omineca Mining Division
British Columbia
NTS 93F 7/E & 93F 8/W
53 21'N, 124 31'E
June 1997

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25069

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SUMMARY

The CH and CHU properties are located in central British Columbia in the Nechako Plateau. Both properties are part of the same, over 5km long, mineralized porphyry system developed along the contact between the Chutanli Intrusive and metasediments and volcanics of the Hazelton Formation.

The CHU property has low grade Mo (Mo-Cu) mineralization indicated by drilling and CH property Cu (Cu-Au) mineralization also indicated by drilling. Geology supported by till, soil, rock and lake geochemistry, drilling results as well as geophysical surveys demonstrate potential for economic, porphyry style, low grade, bulk tonnage copper, copper-gold mineralization on the CH property and Mo (Mo-Cu) on CHU property. Possibly, structurally controlled, copper-gold Snip type mineralization cross cuts mineralized porphyry on CH claims. Most of the CH and CHU properties are covered by the glacial till with only a small portion of mineralized rocks exposed to the surface.

The 1996 geochemical program conducted on CH-A and CH-B claim groups confirmed mineralization reported in previous geochemical till and soil surveys and indicated location of the potential mineralized source.

INTRODUCTION

Background

The Nechako Plateau is an area in the central part of British Columbia, and until recently, it was poorly explored. A new network of logging roads opened several formerly inaccessible parts of the plateau.
To attract exploration activities in the Nechako area, provincial and federal governments initiated a four-year study of the Nechako region. Government programs included bedrock mapping, regional lake geochemical surveys, aeromagnetic surveys, surficial geology and till geochemistry surveys, biogeochemical surveys, and airborne multiparameter surveys of significant parts of the Nechako area. Till geochemistry survey resulted in the discovery of several mineralized boulder trains and mineral prospects associated with them.

Location and Access

The CH and CHU mineral properties are located in Nechako Plateau, in central western British Columbia. Access to the properties is provided by forestry gravel roads from the town of Vanderhoof located approximately 100 km north from the investigated area. Vanderhoof is the nearest supply place for food, gas and other necessities. Several lodges and a logging camp located in the area can provide emergency supplies. The CH and CHU claims are located on the 93F/7 and 93F/8 map sheets (Fig. 1)

Topography, Vegetation and Wildlife

Most of the plateau lies above the 3000 feet elevation. The Nechako terrain is relatively flat, often swampy with occasional mountain ridges creating high land developed as mountain ranges up to over 5000 feet high.
The vegetation consists of old growth forest. Most of the trees are less than 0.5m in diameter due to periodical forest fires and climatic conditions. The CH and CHU properties lie between the elevation of approximately 3600' to about 4400'.
The wildlife consists mainly of moose (to the west elk), deer, black bears, few grizzlies, and abundant grouse. The hunting season starts in mid-October. Good fishing is all year round.

Glaciation

The Nechako Plateau glaciation can be characterized as continental, where the center of the ice accumulation is very close to the exploration area. This results in boulder trains and till geochemistry which could be very effective in indicating mineral deposits, when used correctly in conjunction with quaternary geology. Direction of the glacial flow onto the Nechako and the area of interest was to the east north-east).

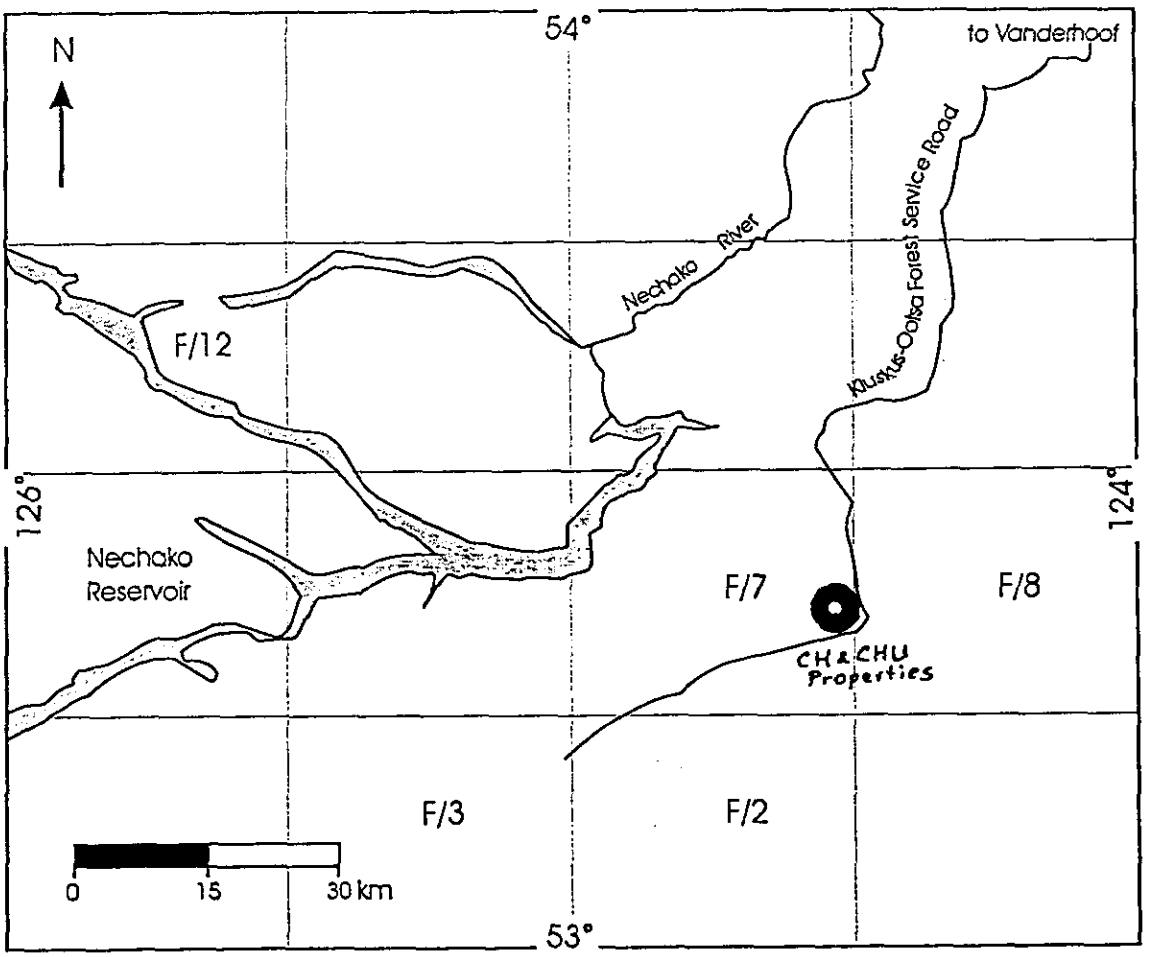


Figure 1 Location of CH, CHU Properties
Map Sheet (93 F), British Columbia.

GEOLOGY

The Nechako Plateau lies within the Stikine Terrain. It was regionally uplifted, exposing horst of Jurassic, and Cretaceous volcanics, and intrusives surrounded by Tertiary and younger volcanics and volcaniclastics. There is similarity in the Nechako uplift (extensional block faulting, nested caulderas) to the Basin and Range structural province in Nevada, and to the Babine area (separated from Nechako by Skeena Arch). Extensional faulting and related structural activity plus associated extensive precious metal rich hydrothermal systems provide an attractive geological setting for precious metal high level epithermal, subvolcanic intrusive porphyry and transitional deposits.

The oldest rocks in the Nechako area belong to the Jurassic Hazelton Formation (informally named Negliko Formation). The Hazalton Formation is represented by mafic to felsic volcanic rocks (stratigraphically lower), and intermediate volcanics intercalated by sediments (fossils, marine environment). Locally the Hazelton rocks were intruded by Middle Jurassic augite porphyry.
The late Cretaceous Batholith, qtz. monzonite, biotite-qtz. diorite, qtz. porphyry, (Quanchas Intrusion) intruded and altered Hazelton rocks.

Eocene Ootsa Lake Group lies unconformably on Hazelton Formation. Ootsa Lake Group consists of basal conglomerate (stratigraphically lower) overlain by tuff (welded and unwelded), lacustrine tuffaceous siltstone and sandstone overlain by rhyolitic flows. In the Nechako Basin, Eocene Ootsa Lake group rocks are present in nested caulderas flanking the Nechako Arch, an uplifted horst of Triassic and Jurassic volcanics (with minor sediments).

Miocene and younger basalt lava flows (Chilkotin Group), younger than mineralizing events, occur mainly in low and flat areas in the Nechako Plateau.

The CHU and CH claims are located on the contact of the Chutanli-Tatelkuz pluton and the Hazalton Group rocks. To the east, property is underlain by Eocene to Oligocene Endako Group rocks. Recent dating of the Chutanli-Tatalkuz pluton estimates its age at 51 MY. Mineralization on the CH and CHU properties is probably related to the Eocene age CH stock intruding Hazelton Group rocks.

MINERALIZATION & ALTERATION

Two types of mineralization, porphyry type and epithermal vein type, are known on CH and CHU properties. Porphyry Mo, Cu, Au mineralization is known from the CHU and CH properties. Epithermal vein type mineralization is known from one location on the CH property(April showing). Possibly the CH property contains structurally controlled Snip type mineralization cross cutting porphyry.

On the CH and CHU properties porphyry type mineralization occurs along the contact between Chutanli-Tatelkuz pluton and tuffs/metasediment units.

The CHU property has established a low grade Mo geological resource. The mineralized zone is open down and to the east where both continuity and grade are increasing. It is not known if core was analyzed for Au, but low-grade Cu values were intersected over significant widths. Potential exists for expanding reserves with further drilling or finding zoned Cu-Au rich mineralization.

In 1969, Rio Tinto, and in 1992 Placer, drilled a total of 22 drill holes on CH property which intersected low grade Cu porphyry target. Placer drilling concentrated on IP chargeability high and magnetic high areas. Mineralization consists of up to 5% quartz and quartz-carbonate stockwork with associated magnetite-pyrite-chalcopyrite. Alteration types within volcanic and intrusive rock consist of biotite-magnetite-K-feldspar-hornfels, sericite/clay-potassic, silicification, hematite-carbonate, and propylitic-chlorite-epidote-calcite (Appendix 1). Pyrite and chalcopyrite occur in veins and microveins in the volcanics, on fracture surfaces and as fine disseminations in intrusive rocks. Malachite occurs along fracture planes.
Copper-gold rich mineralization intersected in drill holes 92-02 and 92-09 (the CH property)could be related to structurally controlled precious metal vein Snip type of deposit.

The April showing represents epithermal, vein type mineralization. Showing is approximately 2m wide and over 15m long. To the north, mineralization appears to be sharply cut by the structure/fault (?). Mineralization is open to the south and disappears under the cover of the glacial till.

PREVIOUS WORK

Exploration of the CHU and CH properties has been carried out since the 1960's, first conducted by Rio Tinto then by Asarco, Granges, Placer, B.C. Geological Survey, and recently by Orvana.

In the 1960's, Rio Tinto conducted a regional stream sediment survey over large portions of Nechako. As a result of this survey, CHU and CH claim area was staked. Geological mapping, soil sampling, induced polarization, and magnetometer surveys were followed by the drilling program.

In the 1970's and early 80's, Asarco continued geological, geochemical and drilling program on CHU claim area.

The Rio Tinto and Asarco's drilling of the CHU property resulted in establishing geological resource of approximately 38 - 39MT grading 0.125%Mo. Drilling conducted on CH property concentrated in low magnetic responses and did not intersect significant mineralization.

In the 1980's, Granges Exploration acquired the area of CH12-16 claim blocks. Exploration program included geochemical soil sampling program, helicopter E.M. and magnetometer survey and drilling. Drilling was restricted to epithermal led-zinc-gold-silver mineralization exposed in April showing and tested by three drill holes. Drilling results were not encouraging.

Between 1990 and 1994, Placer Dome Inc. acquired CH claims. The exploration program included soil sampling, mapping, VLF-EM survey, lithogeochemical and petrographic studies, and drilling. Drilling assay results indicated significant copper and copper-gold mineralization in porphyry type of environment.

In 1994, B.C. Geological Survey initiated a regional lake sediment and till geochemistry, quaternary geology and bedrock mapping study over large portions of the Nechako Plateau. The CH property was selected for detail geological and geochemical study. Extensive geochemical basal till and lake sediment sampling, till mapping and bedrock geological mapping demonstrated strong geochemical Cu-Au anomaly dispersed by the glacier. Mineralized source of the geochemical till (and soil) anomaly is mostly covered by till and only in one location is poorly exposed in subcrop (drilled in 1992 by Placer).

In 1994, Orvana initiated an exploration program in the Nechako Plateau focusing on bulk tonnage porphyry Cu/Au and related epithermal Au deposits. The exploration program resulted in the staking of the CHU property, of which Orvana holds 100%. In October 1995, Orvana optioned CH claims located adjacent to CHU claims.

CLAIM STATUS

The CHU group name consists of 36 claim units (Fig. 2 and 3):

Claim name	Units	Claim Record No.	Expiry Date
CHU	20	331306	October 7, 1998
CHU 2	12	332289	November 02, 1998
CHU 3	4	332290	November 04, 1998

The CH group name consists of 163 claim units (Fig 2 and 3):

Claim Name	Units	Claim Record No.	Expiry date
CH 10	20	241336	October 14, 1998
CH 11	18	241337	October 14, 1998

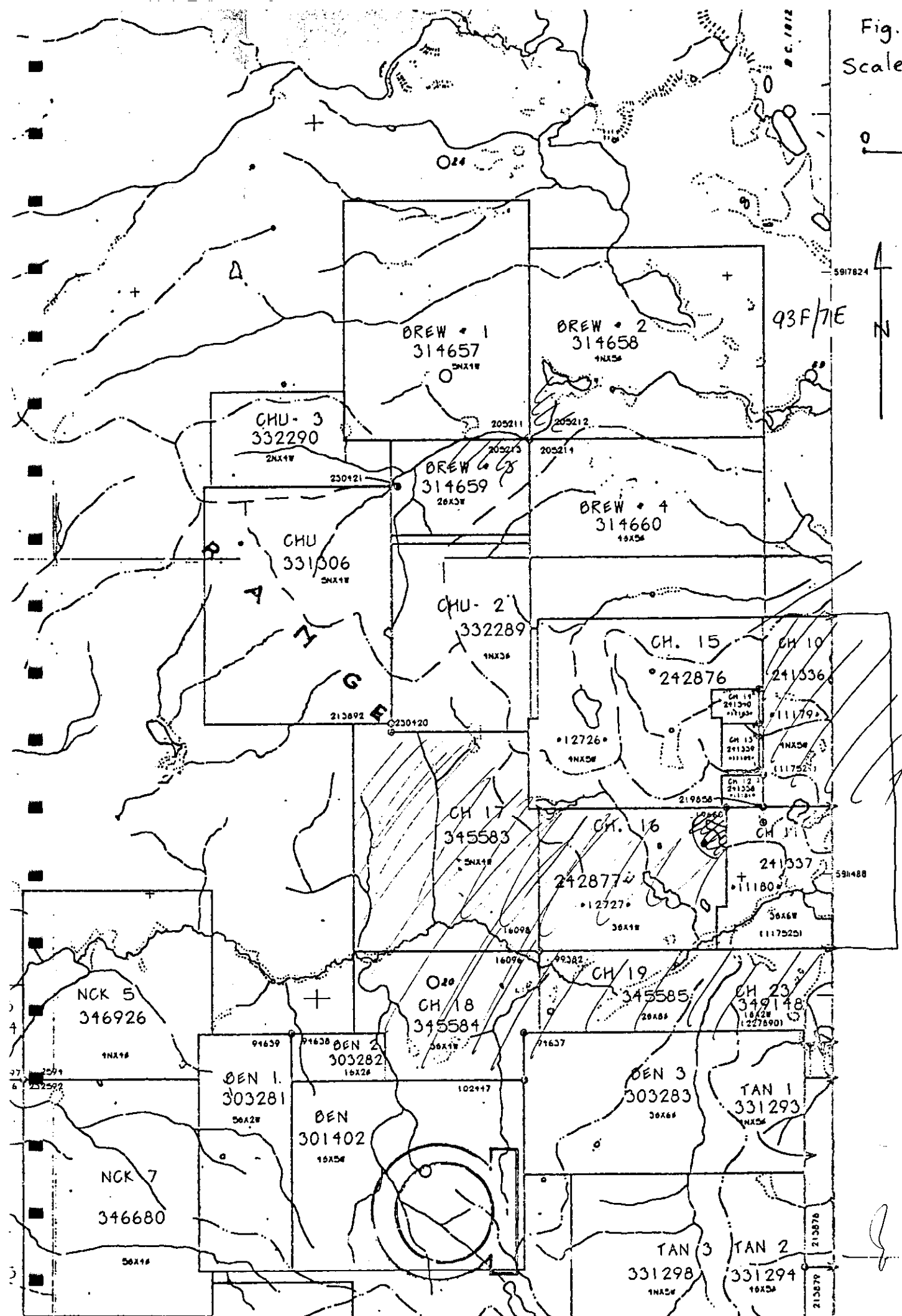
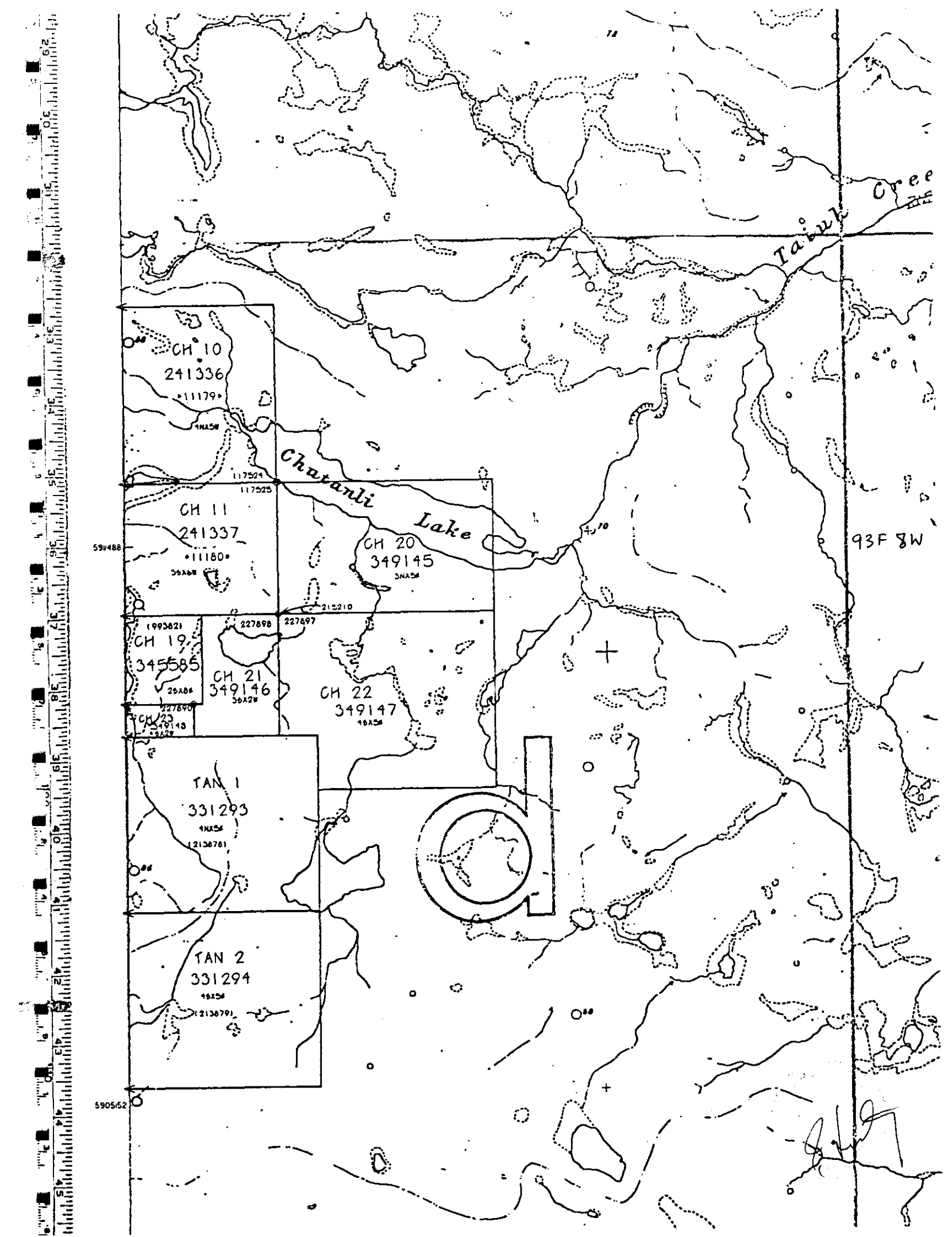


Fig. 2.
Scale 1:50,000
0 1km
93F/7E
N
BREW • 1
314657
BREW • 2
314658
CHU - 3
332290
BREW • 3
314659
BREW • 4
314660
CHU
331306
CHU - 2
332289
CH. 15
242876
CH 10
241336
CH 17
345583
CH. 16
242877
CH 11
241337
NCK 5
346926
CH 18
345584
CH 19
345585
CH 23
349148
BEN 2
303282
BEN 1.
303281
BEN
301402
BEN 3
303283
TAN 1
331293
NCK 7
346680
TAN 3
331298
TAN 2
331294
RANGE


CH 10
241336
CH 11
241337
CH 20
349145
CH 19
345585
CH 21
349146
CH 22
349147
CH 23
TAN 1
331293
TAN 2
331294
Chatanli Lake
93F 8W
5905152

CH 12	1	241338	October 16, 1998
CH 13	1	241339	October 16, 1998
CH 14	1	241340	October 16, 1998
CH 15	20	242876	October 17, 1998
CH 16	12	242877	November 1, 1998
CH 17	20	345583	May 5, 1999
CH 18	12	345584	May 5, 1999
CH 19	16	345585	May 5, 1999
CH 20	15	349145	July 21, 1999
CH 21	6	349146	July 21, 1999
CH 22	20	349147	July 21, 1998
CH 23	1	349148	July 22, 1999

1996 PROGRAM

The 1996 exploration program on the CH and CHU properties focused on rock geochemical survey and alteration study.
From the investigated area, 111 rock samples (bedrock and float) were collected. Samples were pulverized and analyzed in ACME Lab in Vancouver. Rock sample location and sample assay sheets are attached in Appendix 2 and 3, and in Fig. 5, 6 and 7 .
The alteration study was conducted on the basis of data obtained from the assessment reports, Rio Tinto, Rio Algom, Granges, Placer Dome and field core evaluation (Appendix 1).

Sample Preparation and Analysis

Rock samples were crushed and ring pulverized to a nominal 95% minus 150 mesh (100 microns) prior to analysis.

All samples were analyzed using the following routine procedures:

Gold was determined using a 10 gm sample aliquot, ignited at 600^0C, digested with hot Aqua Regia, extracted using MIBK, and determined by graphite furnace AA. The detection limit is 1 ppb.

The elements, Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, U, Th, Sr, Cd, Sb, Bi, V, Ca, P, La, Cr, Mg, Ba, Ti, B, Al, Na, K and W were determined simultaneously by ICP emission spectroscopy from a 0.5 gm sample aliquot (ACME) digested with 3 ml of 3-1-2 HCL-HNO_3-H_2O at 95^0C for one hour then diluted to 10ML with H_2O.

CONCLUSIONS

The geochemical dispersal patterns obtained from the rock (mainly float) geochemistry are comparable to known soil sample geochemical dispersal patterns with samples collected from B or C horizons and basal till sample media on CH property. Mineralized rock float samples dispersed by the glacier from its source returned assays up to 0.5% Cu and 385ppb Au (Fig. 3a-3h & Fig. 4a,4b) . The potential source of mineralization is located at the head and west of the soil, till and rock geochemical copper and gold anomaly. Anomalous in copper and gold till and rock samples collected from various parts of the property demonstrate the possibility of a large mineralized source (or several sources). The main, geochemically defined, potential mineralized source appears to be located west (south-west) from the CH drill area along the contact between intrusive and sedimentary rock units.
Chip samples collected from the April showing (epithermal mineralization) returned up to 2.1g/t Au, 0.1% Cu, 0.1% Pb and 3.7% Zn (Fig. 5-5e).

Mineralization on the CH and CHU properties, identified through rock and soil sampling as well as drilling, reflects the presence of a large mineralized porphyry system developed along the contact between Hazalton Group rocks and Chutanli Intrusive over a strike length of approximately 5km. This contact area, almost 5km long, between

known MoS2 deposit on CHU property and drilled mineralized Cu-Au porphyry on CH property, has never been drilled.

The most prospective drill target on CH property, never tested by drilling, is located west of the subcropping mineralized Cu-Au porphyry target drilled by Rio Tinto and Placer, at the head and west of the soil, till and rock geochemical copper and gold anomaly. The mineralization is associated with a magnetite-chalcopyrite-pyrite bearing qtz stockwork in silicified volcanic and intrusive rocks.

RECOMMENDATIONS

Due to the mostly thick till cover over 5m, the next exploration program should concentrate on IP survey followed by drilling. Drilling fences of holes, approximately 100-150m deep with an inclination of -90 degrees and approximately 200m apart, would test a western extention of the mineralized porphyry system on the CH property. A new drill program should test magnetic high and low responses partially drilled in previous drilling programs.

The copper-gold rich zone intersected in drill holes 92-02 and 92-09 could be related to a structurally controlled, Snip type mineralization, cross cutting mineralized porphyry. This type of target should be tested with angle drill holes of azimuth approximately 045 degrees and an inclination of -45.

Down dip extention of the April showing should be tested by shallow drill holes, up to 50m deep, azimuth approximately 230 degrees and an inclination of -45. Drill holes should be located not further than 10m from the outcropping mineralization. Consequent drilling should be carried out to the south, to test possible extention of the mineralized structure covered by the glacier till. At the present time, this type of mineralization does not represent mineable target and reflects a peripheral part of the larger mineralized porphyry system. Drilling of this target should be considered as a lower priority.

STATEMENT OF COSTS

Salary:		
Geologist	$335 x 17 days	$5,695
Assistant	$200 x 17 days	$3,400
Meals & Food:	$ 30 X 17 days	$510
Travel Expenses		$120
Field Supplies:		$278
Assays & Sample Preparation:		
111 Rock Samples x Can $ 20		$2,220
Truck Expenses:		$998
Lodging:		
$30 x 17 days		$510
Data Compilation:		$1,350
TOTAL:		**$15,081**

STATEMENT OF QUALIFICATIONS

I, Piotr Lutynski of 5285 Sherbrooke Street, Vancouver, British Columbia, V5W 3M3 hereby certify that:

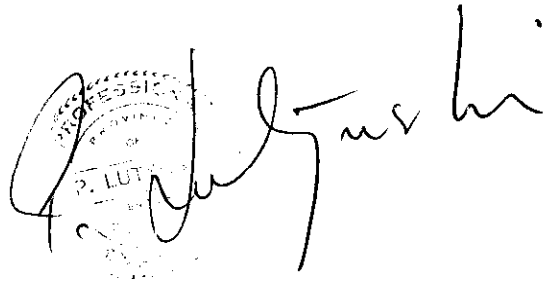
I am a graduate (1980) of the University of Mining and Metallurgy of Krakow, Poland, with M.Sc. degree in Geology.

I am a Professional Engineer in the Province of British Columbia.

I am a member of Geological Association of Canada

I have been practicing mineral exploration for 17 years.

Piotr Lutynski



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APPENDIX 1

CH PROPERTY, BRITISH COLUMBIA

Summary review of alteration-mineralization data

22 May, 1996

For: Peter Bradshaw
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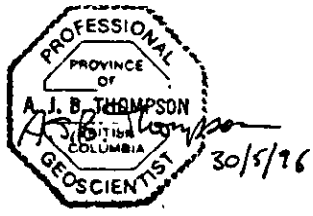

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SUMMARY REVIEW, ALTERATION AND MINERALIZATION: CH PROPERTY, B.C.

SUMMARY

Two days were spent reviewing data available for the CH Property, British Columbia. The goal was to define objectives for exploration work in the summer of 1996, particularly in relation to defining alteration - mineralization patterns.

Previous work by numerous companies and geologists has outlined Hazelton Group volcanics, in contact with porphyritic (typically granodiorite) intrusions. The main target of past exploration was a large porphyry system (Cu, Cu-Mo, or Mo). The contact area of the intrusion was found to contain sheeted quartz veins and elevated Mo values, while higher Cu values occur within broader alteration and quartz-carbonate veins on the CH claims. A review of the available geologic reports suggests that some scope may still exist for a porphyry-style target, particularly in light of recent soil geochemistry. However, other intrusion-related gold targets have not been considered at all. Potential targets include structurally controlled precious metal veins (e.g. Snip), which may be the source of the Au-Cu soil anomaly. In particular, no holes were drilled perpendicular to the apparent lineament (?structure) and to the trend of the elevated soil analyses. In other areas of the property skarn enriched in precious metals and/or Au mineralization associated with broader zones of carbonate or silicification may occur.

ALTERATION TYPES

In general the alteration is not described in detail in the drill logs and the only petrographic study is from a selection of surface samples scattered across a large area of the property. In particular, the lack of detail makes correlation of alteration and vein-types with mineralization difficult. The following alteration and mineralization types are inferred from the available descriptions:

Alteration

- Biotite-magnetite ± K-feldspar- 'hornfels' and as broad zones of potassic alteration
- Sericite/clay - peripheral to potassic alteration

- Silicification- vuggy? (descriptions from Rio Tinto holes) with disseminated pyrite, often strong concentrations of pyrite and large amounts of broken and lost core. Both rhyolite and silicification are described, some silicification is probably described as rhyolite
- Hematite-carbonate (pervasive, localized - in centre of CH property)
- Propylitic- chlorite, epidote, calcite
- Actinolite- observed in one sample at far eastern end of area, towards Chutanli Lake

Mineralization

- Sheeted quartz veins (Mo), hosted by potassically (biotite hornfels) altered rock
- Quartz-carbonate veins (Cu), veins tend to be hosted by biotite-K-feldspar-magnetite altered rock (in CH area)
- Disseminated (Cu), weak

GEOLOGY/GEOCHEMISTRY

Extensive soil geochemistry has outlined an elongate area of Au and Cu in the immediate CH area. Recent work suggests that this zone may extend further to the west (up ice) than previously thought. The extension of the anomaly, therefore, opens up an additional area of untested ground. The described alteration types, magnetic patterns and soil geochemistry are all permissive of a porphyry target in this area.

However, the age and geochemical signature of the intrusions are uncertain. One questionable age-date suggests possible Tertiary age intrusions. In addition, previous whole-rock data (H.C. Wells) is either incomplete or difficult to read. Further whole-rock analyses and possible age-dating would be useful in order to characterize the nature of the intrusions. In particular, Zr analyses would allow plots of Zr vs. Ti in order to determine the affinity of the protolith.

EXPLORATION IMPLICATIONS

Gold-silver mineralization is clearly present within the prospect area. This mineralization may be related to a porphyry system, and the untested area merits examination. However, the environment is also permissive of several other gold-bearing intrusion-related targets. These

include, skarn (noted in Chu area, garnet-epidote bands), veins with potassic and/or carbonate alteration (e.g. Snip), and broad low-grade mineralization, with silicification and/or carbonate. Numerous holes in the area (particularly the Rio Tinto holes) have reported silicification (± rhyolite), including vuggy silica, dense fine-grained pyrite and 'clay'. No details are available on the nature of the clays or other associated alteration minerals.

PROPOSED WORK

In order to effectively explore the property, further information is required in order to define the known style of mineralization. The following studies/work would be helpful:

- Selected sampling of available core to determine alteration-mineralization types associated with known elevated Au values. Is gold associated with carbonate veins, broad-scale potassic alteration or silicification/pyrite?
- Determine types of carbonate and clay, using petrography, XRD, SEM, or PIMA (shortwave infrared spectrometer). Both carbonate compositions and clay crystallinities may be used to map alteration zones and possibly vector towards mineralization in intrusion-related systems. The nature and extent of the reported hematite-carbonate alteration may be of particular interest (e.g. Red Chris).
- Whole-rock analyses and /or age-dating as described above.
- Structural interpretation of the area using air photos and possible selective relogging of core. All areas contain mentions of shear fabrics. At the Chu prospect tear-drop quartz veins and ptygmatic veins are also observed.
- Drill testing perpendicular to previous lines particularly in the area of hole 92-002 (best Au values) which flanks and is parallel to the Cu-Au soil anomaly

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Ostensoe, E.A., September 1980, ASARCO and Armco - Chu
Ostensoe, E.A., October 1981, ASARCO and Armco - Chu
Ostensoe, E.A., October 1982, ASARCO and Armco - Chu
MaGillivray, R.G., September 1992 - Placer Dome
Wells, H.C., February 1992 - consultant to Placer Dome
Maps, cross-sections compiled by Orvana (Piotr Lutynski), November 1995

APPENDIX 2

Nechako CH CHU Properties
Rock Sample Location

ID	Easting	Northing
441671	400330	5912785
441672	400381	5912784
441673	398960	5911920
441674	398620	5912290
441675	398585	5912240
441676	398490	5912160
441677	398480	5912150
441678	398320	5912290
441679	398210	5912060
441680	398190	5912820
441681	398325	5911865
441682	398450	5911860
441683	398420	5911900
441684	398670	5911985
441685	397790	5911940
441686	397720	5911820
441687	397690	5911780
441688	397670	5911750
441689	397470	5911620
441690	397390	5911535
441691	397200	5912080
441692	397130	5912530
441693	397110	5913040
441694	397951	5912341
441695	397370	5912060
441696	398750	5912110
441697	398835	5912060
441698	398940	5912000
441699	398690	5912040
441700	399290	5911930
599901	398840	5911410
599902	398690	5911350
599903	398600	5911420
599904	397760	5911310
599905	397870	5911490
599906	398360	5911650
599907	399570	5912260
599908	398680	5912400
599909	398570	5912440
599910	398885	5912150
599911	399352	5912120
599912	399710	5913690
599913	399480	5913660
599914	399231	5913538
599915	398327	5913883
599916	398463	5913296
599917	398657	5913405
599918	398810	5913630

Nechako CH CHU Properties
Rock Sample Location

599919	398706	5913616
599920	398659	5913637
599921	398411	5913759
599922	398459	5913600
599923	398570	5913330
599924	398800	5913440
599925	399950	5912670
599926	400280	5912740
599927	400122	5912611
599928	400123	5912612
599929	399680	5912466
599930	399724	5912599
599931	399920	5913000
599932	399921	5913001
599933	399970	5912920
599934	400080	5912850
599935	400450	5912740
599936	400451	5912741
599937	399650	5912466
599938	399650	5911940
599939	399585	5911458
599940	399585	5911463
599941	398150	5910322
599942	400300	5907800
599943	397472	5905965
599944	397134	5906500
599945	397111	5906831
599946	397213	5905390
599947	397394	5905233
599948	397445	5905061
599949	397050	5908000
599950	396552	5907756
599951	396348	5906952
599952	396000	5906800
599953	396755	5907300
599954	397349	5907350
599955	396700	5908250
599956	396412	5911053
599957	363150	5908300
599958	397586	5910296
599959	379100	5910980
599960	379140	5911100
599961	397187	5911015
599962	397089	5910691
599501	360252	5900519
599502	365865	5915850
599503	360346	5900577
599504	395236	5916103
599505	391078	5913548

Nechako CH CHU Properties
Rock Sample Location

599507	403831	5919649
599508	403272	5920303
599509	404535	5894699
599510	413876	5896806
599510	413876	5896806
599510	413876	5896806
599511	377855	5920007
599512	388976	5923509
599513	386172	5930374
599514	383572	5928010
599515	416249	5939797
599516	416298	5939699
599517	417035	5939410
599963 H	401280	5911450
599964 H	401281	5911454
599965 H	361409	5910396
599966 H	399210	5912066
599967 H	399220	5912070
599968 H	399228	5912075
599969 H	399236	5912080
599970 H	399245	5912084
599971 H	399255	5912088
599972 H	399265	5912094
599973 H	399272	5912096
599974 H	399290	5912098
599975 H	399300	5912100
599976 H	399350	5912118
599977 H	399360	5912120
599978 H	399485	5912225
599979 H	399582	5912308
599980 H	399570	5912300
599981 H	399535	5912250
599982 H	397738	5911258
599983 H	397730	5911258
599984 H	401023	5911563
599985 H	394980	5913666
599986 H	397950	5912350
599987 H	397952	5912350
599988 H	397954	5912350
599989 H	397950	5912342
599990 H	397952	5912342
599991 H	397954	5912342
599992 H	397760	5912865
599993 H	397780	5912865
599994 H	392676	5907497
599995 H	409937	5963133

APPENDIX 3

OCHEMICAL ANALYSIS CERTIFICATE

Orvana Minerals Corp. PROJECT 1100 File # 96-3136 Page 1

710 - 1177 W. Hastings St, Vancouver BC V6E 2K3 Submitted by: Piotr Lutynski

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
599963 H	2	36	<3	64	<.3	6	10	271	3.77	<2	<5	<2	<2	76	<.2	<2	<2	150	1.42	.077	2	5	1.06	290	.20	<3	2.55	.30	.54	<2	3
599964 H	10	25	<3	32	<.3	8	2	201	1.73	<2	<5	<2	9	23	<.2	<2	<2	50	.35	.085	15	16	.56	290	.24	<3	.68	.07	.58	<2	1
599965 H	5	6	4	2	<.3	4	1	42	1.30	9	<5	<2	3	10	<.2	<2	<2	2	.02	.005	7	4	.02	81	<.01	<3	.25	.01	.16	<2	<1
599966 H	21	594	31	144	.9	53	10	382	1.91	17	<5	<2	2	9	1.0	2	<2	31	.06	.024	10	71	.46	468	.02	<3	.73	.01	.33	<2	6
599967 H	17	877	26	240	1.3	96	16	619	2.06	56	<5	<2	4	8	1.5	5	<2	41	.09	.027	12	48	.56	342	.03	<3	1.00	.01	.45	<2	9
599968 H	26	893	53	271	1.8	61	8	655	1.56	20	<5	<2	2	11	3.0	18	3	19	.07	.022	9	29	.21	540	.01	<3	.46	.01	.23	<2	29
599969 H	17	714	64	267	1.1	73	14	617	2.52	38	<5	<2	2	10	.8	8	<2	32	.09	.038	14	50	.44	499	.01	<3	.84	.01	.27	<2	17
599970 H	16	122	73	50	.9	53	2	85	2.56	7	<5	<2	2	11	<.2	<2	3	28	.03	.026	10	86	1.03	282	<.01	<3	1.15	.01	.28	<2	4
599971 H	20	520	104	152	2.6	98	15	298	4.11	27	<5	<2	2	13	<.2	3	5	39	.05	.045	7	78	.94	147	.01	<3	1.25	.01	.31	<2	6
599972 H	12	435	3	51	<.3	110	15	307	2.76	3	<5	<2	3	21	<.2	<2	<2	78	.17	.045	13	87	1.37	739	.15	<3	1.97	.01	.93	<2	3
599973 H	31	233	<3	66	.5	150	16	220	2.46	32	<5	<2	3	9	<.2	6	<2	42	.04	.019	11	41	.87	287	.01	<3	1.27	.01	.39	<2	2
599974 H	7	204	11	250	<.3	100	12	325	1.75	38	<5	<2	3	12	1.0	3	<2	53	.12	.034	18	91	.36	423	.03	<3	.81	.01	.30	<2	1
599975 H	20	318	10	112	.6	133	18	611	2.95	6	<5	<2	2	24	.5	<2	<2	72	.13	.045	10	96	1.37	636	.09	<3	1.95	.01	.79	<2	3
599976 H	36	849	17	252	1.1	66	10	1486	1.91	15	<5	<2	2	16	3.1	17	<2	25	.16	.043	12	21	.31	362	.01	<3	.60	.01	.25	<2	7
599977 H	32	871	230	190	1.4	50	11	675	2.70	12	<5	<2	2	22	.2	2	3	55	.26	.071	24	98	.75	360	.06	<3	1.26	.02	.46	<2	25
599978 H	64	2237	438	298	14.6	14	9	1558	4.41	14	<5	<2	4	37	1.5	5	16	28	.28	.110	31	14	.23	147	<.01	<3	.68	<.01	.26	<2	385
599979 H	2	140	7	128	.5	26	13	1400	3.98	2	<5	<2	<2	115	<.2	<2	<2	71	4.70	.082	12	59	.60	170	<.01	<3	1.01	.05	.04	<2	7
599980 H	<1	48	26	194	.6	14	4	2440	4.00	21	<5	<2	<2	162	1.6	<2	<2	78	13.75	<.001	6	25	.32	61	<.01	<3	.69	.01	.21	<2	13
RE 599980 H	<1	44	22	187	.5	13	4	2423	3.93	20	<5	<2	<2	157	1.2	<2	<2	77	13.74	<.001	6	25	.31	60	<.01	<3	.67	.01	.19	<2	10
599981 H	2	161	5	64	.3	9	15	444	5.00	<2	<5	<2	<2	85	2.1	<2	<2	195	1.10	.048	1	38	2.93	102	.28	<3	4.04	.34	1.62	<2	4
599982 H	1	20	<3	7	<.3	1	<1	48	3.38	<2	<5	<2	<2	27	<.2	<2	<2	14	.05	.017	6	7	.05	35	.01	<3	.21	.12	.24	<2	4
599983 H	2	18	<3	96	<.3	5	3	1096	2.80	<2	<5	<2	<2	27	.4	<2	<2	87	.52	.060	6	5	1.50	292	.32	<3	2.31	.16	1.39	<2	2
599984 H	2	14	<3	76	<.3	2	<1	609	3.02	<2	<5	<2	<2	16	<.2	<2	<2	79	.12	.044	5	5	.73	222	.27	<3	1.56	.07	.98	<2	2
599985 H	22	126	4	124	<.3	7	8	652	3.77	<2	<5	<2	<2	41	<.2	<2	3	110	1.32	.081	4	5	.96	65	.26	<3	2.33	.25	.73	3	2
599986 H	4	20	155	481	1.9	7	6	8152	2.42	373	<5	<2	<2	410	6.5	5	<2	65	32.75	<.001	<1	9	.73	36	.06	<3	1.03	.09	.12	<2	8
599987 H	19	367	69	20342	5.8	14	9	8695	11.54	30664	<5	<2	<2	45	202.3	37	18	35	2.71	.039	1	24	.30	20	.02	<3	.77	.02	.10	<2	1140
599988 H	1	59	22	4938	.4	10	14	1919	3.09	1763	<5	<2	<2	92	43.9	4	<2	92	2.82	.039	2	15	1.01	105	.13	<3	4.45	.32	.67	<2	30
599989 H	3	55	21	3080	.5	9	14	1733	2.12	3056	<5	<2	<2	63	18.7	4	<2	45	2.28	.048	3	12	.84	112	.09	3	3.40	.15	.34	<2	69
599990 H	12	586	40	17675	4.0	4	1	3432	15.27	40200	<5	<2	<2	34	138.8	42	10	27	2.93	.019	1	11	.16	26	.02	<3	.49	.02	.07	<2	2120
599991 H	2	86	20	467	.3	13	23	1914	4.78	1056	<5	<2	<2	90	2.4	<2	<2	214	3.00	.058	1	15	1.35	84	.19	<3	3.25	.25	.21	<2	35
599992 H	1	219	<3	147	3.1	62	14	421	3.24	87	<5	<2	<2	192	1.0	5	<2	122	1.98	.087	3	153	1.91	170	.25	<3	4.08	.41	1.01	<2	20
599993 H	5	5	4	87	<.3	27	9	291	2.66	11	<5	<2	3	37	<.2	<2	<2	72	.46	.105	10	32	1.24	321	.20	3	1.28	.07	.40	<2	3
599994 H	<1	52	<3	147	<.3	12	20	910	4.93	12	<5	<2	<2	49	.8	<2	<2	121	1.12	.084	4	13	2.83	122	.26	<3	3.61	.04	.07	<2	2
599995 H	2	2	6	83	<.3	2	3	664	.39	25	<5	<2	18	6	<.2	<2	<2	3	.06	.004	55	4	.04	16	.01	<3	.16	.05	.08	<2	1
STANDARD C2/AU-R	21	60	36	145	6.8	72	36	1195	3.96	42	22	8	35	53	19.8	13	18	74	.56	.098	40	65	.95	216	.08	29	2.05	.07	.15	12	417

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: P1 ROCK P2 SILT AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 25 1996 **DATE REPORT MAILED:** Aug 1/96 **SIGNED BY.** D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Orvana Minerals Corp. PROJECT 1022 File # 96-2240 Page 1

710 - 1177 W. Hastings St, Vancouver BC V6E 2K3

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
441671 H	21	2763	24	90	1.0	34	12	265	4.06	2	<5	<2	<2	83	1.1	6	<2	149	1.41	.097	11	51	.60	717	.12	<3	1.59	.20	.14	<2	129
441672 H	13	128	17	77	.4	5	14	620	4.17	17	5	<2	<2	120	.4	3	<2	92	2.05	.078	12	8	1.56	22	.01	<3	1.37	.06	.14	<2	23
441673 H	3	102	<3	194	.3	3	15	1163	4.22	2	<5	<2	<2	18	<.2	4	<2	98	.18	.063	3	10	2.95	58	.19	3	2.90	.04	1.32	<2	21
441674 H	<1	36	<3	132	.5	4	13	4208	5.13	4	6	<2	<2	15	<.2	5	<2	151	.68	.080	1	4	4.02	179	.30	<3	4.99	.09	3.30	<2	15
441675 H	4	21	100	92	.8	2	2	577	2.11	68	<5	<2	<2	17	.3	2	<2	38	.21	.024	4	12	.47	72	.06	<3	1.03	.08	.53	2	120
441676 H	<1	35	<3	133	.4	4	11	2921	5.24	11	<5	<2	<2	20	<.2	5	<2	158	.20	.095	4	9	2.77	99	.34	<3	3.28	.05	2.03	<2	32
441677 H	1	47	4	96	<.3	42	15	436	3.80	4	7	<2	3	80	<.2	2	<2	115	1.06	.152	16	106	1.79	584	.31	<3	1.77	.15	.93	<2	5
441678 H	1	29	<3	90	.4	5	11	1472	4.89	12	7	<2	<2	100	<.2	3	<2	145	1.90	.091	5	10	1.87	239	.35	<3	4.63	.36	1.71	2	39
441679 H	1	43	4	67	<.3	41	16	410	3.62	4	10	<2	3	82	<.2	3	<2	112	.85	.152	17	103	1.67	580	.31	<3	1.71	.16	.93	<2	3
441680 H	3	21	3	100	<.3	5	7	967	4.21	8	<5	<2	<2	12	<.2	4	<2	125	.56	.063	3	11	2.22	106	.30	<3	3.36	.14	1.56	2	50
441681 H	2	66	4	30	<.3	4	18	414	5.71	10	<5	<2	<2	6	.4	2	<2	79	.07	.057	2	4	1.37	49	.03	<3	1.77	.03	.48	<2	26
441682 H	10	9	23	3	.4	16	9	22	5.04	8	<5	<2	2	6	.2	<2	<2	7	.04	.056	2	4	.06	16	<.01	4	.42	.01	.30	2	38
441683 H	3	43	8	114	<.3	2	13	1108	4.93	4	<5	<2	<2	7	.2	2	<2	155	.18	.087	2	6	3.87	70	.21	<3	3.85	.06	2.35	<2	40
441684 H	1	13	3	92	.3	2	4	2002	3.48	9	<5	<2	<2	6	<.2	3	<2	72	.06	.045	6	9	2.19	108	.18	<3	2.34	.04	1.47	<2	20
441685 H	2	39	7	90	<.3	37	17	412	3.66	5	7	<2	3	101	<.2	4	<2	115	1.11	.153	17	91	1.68	600	.31	<3	1.80	.19	1.12	<2	4
441686 H	1	11	<3	107	<.3	4	12	2152	5.09	4	5	<2	<2	189	<.2	6	<2	132	1.23	.112	3	17	2.69	535	.37	<3	4.33	.32	2.59	2	4
441687 H	2	51	<3	107	<.3	5	15	2048	4.83	8	<5	<2	<2	85	<.2	3	<2	159	1.41	.104	3	10	2.07	176	.34	<3	4.11	.26	1.96	<2	42
441688 H	2	35	7	71	.7	6	12	1194	4.88	9	<5	<2	<2	13	<.2	6	<2	172	.32	.066	4	10	2.16	81	.36	<3	2.65	.09	1.71	2	38
441689 H	2	42	<3	86	<.3	3	7	1129	3.79	5	<5	<2	<2	55	<.2	2	<2	127	1.75	.061	2	11	1.40	129	.23	<3	4.34	.26	1.23	<2	14
441690 H	7	25	4	24	.3	4	12	156	3.63	<2	<5	<2	<2	5	.2	<2	<2	27	.09	.048	4	6	.53	33	.02	<3	.83	.03	.41	3	22
RE 441690 H	5	25	7	23	<.3	4	12	149	3.58	2	<5	<2	<2	5	.2	<2	<2	26	.09	.046	4	4	.52	29	.02	<3	.79	.02	.41	3	22
441691 H	1	36	5	87	<.3	1	9	1141	4.76	<2	6	<2	2	9	<.2	2	<2	180	.18	.053	5	16	2.41	565	.36	<3	3.31	.08	2.19	2	4
441692 H	2	28	57	75	.6	2	5	562	3.19	28	<5	<2	<2	6	.4	<2	<2	35	.01	.016	4	5	.76	56	.05	<3	.78	.02	.60	2	31
441693 H	2	11	5	48	<.3	6	12	726	4.30	71	7	<2	<2	26	<.2	2	<2	125	.53	.066	2	9	1.29	67	.13	<3	1.84	.13	.92	2	30
441694 H	13	1180	1028	37553	17.1	3	14	2471	18.26	21199	<5	<2	<2	15	344.4	37	14	30	.45	.045	1	4	.18	17	.02	<3	.54	.02	.16	<2	1510
441695 H	3	68	11	163	.4	6	22	1330	5.96	41	<5	<2	<2	35	<.2	5	<2	210	.81	.103	4	5	2.84	120	.50	<3	3.37	.22	2.35	2	43
441696 H	2	28	7	244	.4	6	16	961	4.64	102	5	<2	<2	7	1.2	4	<2	153	.31	.105	4	7	2.25	148	.25	<3	2.43	.08	1.63	<2	29
441697 H	2	67	95	380	.4	3	12	3046	5.35	14	<5	<2	<2	7	<.2	5	<2	190	.18	.084	3	2	4.23	150	.45	<3	4.68	.08	3.13	<2	34
441698 H	2	290	6	36	.3	4	19	315	4.42	12	<5	<2	<2	9	.2	<2	<2	23	.07	.045	3	3	.65	32	.04	<3	1.00	.02	.43	2	69
441699 H	4	50	5	76	.3	2	15	933	5.46	42	<5	<2	<2	14	.2	2	<2	84	.11	.049	1	2	1.45	67	.11	<3	2.12	.03	.92	<2	85
441700 H	2	151	8	48	.6	15	8	219	2.86	5	<5	<2	5	42	<.2	<2	2	51	.26	.114	12	17	1.12	109	.05	3	1.05	.03	.29	<2	9
599901 H	31	73	7	275	.4	58	13	570	3.41	659	<5	<2	<2	69	3.0	<2	2	217	1.75	.108	4	21	.58	50	.10	<3	3.29	.20	.61	<2	44
599902 H	2	40	<3	47	<.3	71	10	205	2.57	166	5	<2	2	67	<.2	2	<2	57	.45	.043	8	48	1.05	232	.08	<3	2.12	.08	.70	2	6
599903 H	1	18	4	46	<.3	8	4	377	2.16	20	8	<2	3	20	<.2	<2	3	55	.47	.116	17	15	.72	113	.20	<3	.91	.06	.36	2	3
STANDARD C2/AU-R	21	58	39	129	6.1	70	36	1136	3.91	43	21	8	35	50	20.3	16	19	68	.54	.097	39	63	1.03	187	.07	27	2.01	.06	.14	12	526

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUN 14 1996 **DATE REPORT MAILED:** June 25/96 **SIGNED BY** .....D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
599904 H	<1	43	<3	101	<.3	4	11	1130	4.17	4	<5	<2	<2	8	<.2	3	<2	118	.33	.077	5	12	2.33	309	.35	5	2.16	.07	1.47	<2	3
599905 H	2	22	13	56	<.3	2	11	566	4.08	5	<5	<2	<2	8	<.2	<2	<2	58	.14	.081	4	5	1.27	72	.04	<3	1.60	.05	.57	<2	17
599906 H	4	18	8	64	<.3	3	2	724	2.41	5	<5	<2	<2	67	<.2	2	<2	51	1.95	.040	4	11	.85	268	.21	<3	3.97	.42	.79	3	3
599907 H	9	397	14	68	1.0	8	24	563	28.77	3	<5	<2	<2	121	<.2	<2	<2	378	.13	.037	4	<1	.67	27	.01	<3	1.09	.01	.17	<2	55
599908 H	3	33	54	129	.3	5	12	1666	4.96	38	<5	<2	<2	157	.5	8	<2	121	1.21	.165	8	8	1.23	342	.23	<3	3.06	.21	1.88	<2	6
599909 H	2	34	21	197	<.3	3	10	2267	4.77	57	<5	<2	<2	15	.7	2	2	120	.27	.064	2	2	2.62	27	.24	<3	2.94	.04	2.09	<2	73
599910 H	2	20	11	75	<.3	3	7	1416	3.85	6	<5	<2	<2	20	<.2	3	<2	74	.15	.042	4	4	1.83	60	.19	<3	2.23	.06	1.39	2	19
599911 H	108	1178	402	638	13.1	36	8	4880	2.72	31	<5	<2	<2	13	10.4	76	6	7	.02	.012	4	10	.05	144	<.01	<3	.21	.01	.15	<2	36
599912 H	2	121	5	69	<.3	35	27	1137	6.07	4	<5	<2	<2	204	<.2	3	3	183	3.19	.126	12	59	2.12	362	.22	<3	3.81	.30	.12	<2	5
599913 H	1	72	8	92	<.3	32	33	1613	7.41	<2	<5	<2	<2	204	<.2	<2	<2	218	4.08	.112	10	22	3.32	62	.12	3	4.38	.27	.09	<2	3
599914 H	1	58	6	64	<.3	77	30	1040	5.81	<2	<5	<2	<2	208	.2	4	<2	156	3.45	.104	12	148	3.61	85	.01	<3	3.76	.25	.08	<2	2
599915 H	5	155	4	60	<.3	191	43	1291	3.78	<2	<5	<2	<2	136	.2	<2	<2	93	10.92	.070	1	302	1.99	90	.06	3	1.81	.08	.03	<2	2
599916 H	2	14	535	354	1.1	6	2	3907	.92	15	<5	<2	<2	732	5.9	4	<2	17	38.25	.032	3	1	.27	35	<.01	<3	.16	.01	.04	<2	3
599917 H	1	51	8	115	<.3	21	28	1913	6.20	<2	<5	<2	<2	115	.3	4	<2	119	2.53	.136	9	47	2.96	694	.04	<3	3.27	.04	.09	<2	4
599918 H	2	54	49	150	<.3	4	7	1028	2.45	10	<5	<2	<2	119	1.1	<2	<2	31	6.57	.050	9	1	.53	20	<.01	<3	.77	.04	.09	<2	1
599919 H	2	182	5	82	.4	10	22	1174	5.86	<2	<5	<2	<2	41	<.2	<2	<2	139	1.87	.119	5	8	1.70	36	.21	<3	2.46	.04	.04	<2	4
RE 599919 H	2	184	7	82	.4	11	22	1182	5.87	<2	6	<2	<2	42	<.2	<2	<2	139	1.88	.120	5	10	1.70	37	.21	6	2.46	.04	.04	<2	4
599920 H	1	128	10	87	<.3	22	29	1045	5.01	21	<5	<2	<2	47	.2	2	<2	163	2.53	.111	5	29	2.47	68	.21	<3	2.62	.06	.27	<2	5
599921 H	4	207	7	110	<.3	14	30	1231	8.10	6	<5	<2	<2	46	<.2	5	<2	227	1.97	.098	3	10	2.04	74	.20	6	2.62	.05	.10	<2	6
599922 H	5	36	11	3349	<.3	15	44	1448	2.79	55	<5	<2	<2	116	11.8	2	<2	104	7.93	.091	7	9	.64	35	.13	6	1.11	.03	.06	2	11
599923 H	1	15	3	47	<.3	3	32	1637	3.05	2	<5	<2	<2	130	<.2	<2	<2	65	4.20	.083	4	3	.70	91	.14	<3	1.24	.03	.02	<2	<1
599924 H	<1	133	5	145	<.3	49	46	1155	7.69	<2	<5	<2	<2	109	.5	2	<2	237	2.48	.130	6	24	4.55	328	.05	<3	4.18	.02	.08	<2	1
599925 H	24	910	7	101	.4	21	13	291	2.74	2	<5	<2	3	33	.5	2	4	86	.63	.110	16	38	1.68	834	.09	<3	1.82	.04	.46	<2	39
599926 H	21	3636	13	203	1.1	38	13	316	2.55	2	<5	<2	3	40	.9	2	11	76	.44	.102	24	44	1.82	956	.11	<3	2.21	.05	.83	<2	74
599927 H	16	2421	5	90	1.6	34	11	284	3.13	<2	<5	<2	3	32	.6	2	6	103	.40	.125	26	65	1.64	1534	.10	<3	1.77	.05	.59	<2	117
599928 H	34	2936	8	122	2.6	27	39	464	8.96	9	5	<2	<2	93	1.6	2	8	182	1.42	.067	5	32	2.48	11	.12	<3	3.99	.32	.50	<2	63
599929 H	2	54	13	99	<.3	40	29	997	5.77	24	<5	<2	<2	88	<.2	8	<2	156	2.20	.128	8	150	2.92	112	.36	<3	3.06	.12	.11	<2	<1
599930 H	10	4779	3	68	2.6	78	65	300	11.60	4	6	<2	<2	18	<.2	<2	10	150	.49	.071	2	71	1.52	6	.11	7	1.66	.09	.34	<2	108
599931 H	8	1097	5	101	.5	67	8	526	1.61	3	<5	<2	2	82	.7	3	2	69	1.92	.127	15	28	1.04	205	.05	<3	.88	.06	.07	<2	39
599932 H	4	503	3	153	<.3	15	19	451	5.00	3	<5	<2	<2	37	1.4	2	2	156	.69	.089	6	17	1.79	83	.14	<3	1.90	.10	.19	<2	20
599933 H	25	4326	32	134	2.3	58	40	321	7.05	2	9	<2	<2	46	.8	2	11	163	.86	.065	6	90	1.70	82	.18	<3	2.64	.19	.78	<2	108
599934 H	3	4681	3	56	2.4	56	25	337	7.08	<2	<5	<2	<2	41	<.2	3	12	183	.88	.081	6	113	1.99	178	.11	<3	2.50	.13	.62	<2	289
599935 H	6	2137	6	84	.7	14	17	390	4.96	2	<5	<2	<2	37	.3	3	4	150	.77	.067	6	19	1.74	307	.22	<3	2.14	.14	.76	<2	37
599936 H	28	2965	7	73	2.1	24	17	316	3.48	<2	9	<2	4	52	.7	3	8	86	.59	.126	14	37	1.84	494	.10	4	1.89	.05	.55	<2	143
599937 H	<1	51	29	194	<.3	75	45	2058	8.83	31	<5	<2	<2	39	.3	<2	<2	200	1.01	.151	9	210	4.66	80	.12	<3	4.47	.04	.07	<2	5
STANDARD C2/AU-R	20	61	45	134	6.4	74	38	1213	4.15	42	23	7	37	53	21.6	17	18	72	.56	.101	41	65	1.08	183	.07	32	2.10	.07	.15	13	520

Sample type: ROCK. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
599938 H	1	39	<3	143	.3	2	21	1693	6.14	11	<5	<2	2	21	.3	4	4	200	.75	.165	10	4	2.72	53	.06	<3	2.69	.04	.05	<2	7
599939 H	4	34	<3	104	1.1	5	7	1103	3.69	5	<5	<2	<2	39	.4	7	3	135	.62	.064	3	13	1.85	62	.17	<3	3.05	.14	1.31	2	39
599940 H	2	24	<3	45	<.3	8	8	269	3.45	4	7	<2	<2	487	.6	6	3	143	3.86	.076	1	26	.42	324	.26	4	5.55	.42	.34	3	6
599941 H	2	21	<3	48	<.3	3	8	287	3.10	<2	<5	<2	<2	31	<.2	<2	<2	114	1.03	.099	5	5	.86	194	.18	<3	1.45	.13	.47	<2	6
RE 599941 H	1	22	<3	51	<.3	4	8	289	3.21	2	<5	<2	<2	32	<.2	<2	2	118	1.06	.103	6	4	.90	201	.19	<3	1.50	.14	.49	<2	6

Sample type: ROCK. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Orvana Minerals Corp. PROJECT NECHAKO File # 96-2598 Page 1

710 - 1177 W. Hastings St, Vancouver BC V6E 2K3 Submitted by: Piotr Lutynski

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
599942 H	<1	27	3	90	<.3	44	21	949	4.44	<2	<5	<2	<2	65	.4	<2	<2	150	2.35	.121	11	63	1.69	53	.32	<3	2.12	.12	.06	2	4
599943 H	<1	75	<3	93	<.3	45	31	1209	4.54	2	<5	<2	<2	114	.4	<2	<2	116	2.45	.111	8	48	2.37	102	.26	<3	2.76	.05	.10	2	2
599944 H	<1	105	<3	117	<.3	86	40	1541	6.36	2	<5	<2	<2	171	1.0	15	<2	145	6.99	.051	9	112	1.77	64	.02	<3	2.92	.02	.09	<2	3
599945 H	1	45	4	91	<.3	11	17	1277	3.62	9	<5	<2	2	159	.3	<2	<2	74	2.75	.125	14	18	.97	154	.16	5	2.06	.09	.27	<2	1
599946 H	1	83	3	122	<.3	76	34	1345	4.81	3	<5	<2	<2	95	.4	<2	<2	130	2.33	.080	8	75	3.12	79	.22	5	3.12	.04	.08	<2	3
599947 H	1	88	<3	92	<.3	24	30	1197	5.43	<2	<5	<2	<2	69	<.2	<2	8	191	1.78	.117	9	18	3.08	62	.28	<3	3.37	.06	.07	2	2
599948 H	1	163	<3	91	<.3	30	30	1029	4.43	<2	<5	<2	<2	94	<.2	3	2	139	2.25	.093	6	22	2.89	27	.30	<3	2.96	.06	.04	2	2
599949 H	6	58	<3	117	.3	25	11	746	4.11	<2	<5	<2	<2	182	.5	<2	3	166	1.64	.078	5	66	2.04	618	.22	<3	4.37	.45	1.02	<2	2
599950 H	1	50	<3	68	<.3	30	19	980	4.11	3	<5	<2	<2	107	.2	2	4	107	3.79	.122	4	42	1.67	53	.06	3	2.15	.08	.10	<2	2
599951 H	1	49	<3	101	<.3	51	25	914	3.60	<2	<5	<2	<2	104	<.2	<2	<2	82	1.44	.093	7	62	2.53	65	.23	<3	2.71	.04	.10	<2	13
599952 H	<1	67	<3	89	<.3	32	22	979	4.28	<2	<5	<2	<2	62	.2	<2	<2	102	1.22	.155	14	57	1.89	47	.17	<3	2.53	.05	.17	<2	6
599953 H	1	64	4	106	<.3	8	14	1596	3.51	<2	<5	<2	2	130	.3	<2	<2	32	5.98	.139	21	3	.52	84	.02	<3	1.61	.04	.16	<2	4
599954 H	2	15	<3	72	<.3	4	3	315	3.31	6	<5	<2	<2	26	<.2	2	3	32	.49	.068	12	10	1.02	59	.07	<3	1.61	.04	.12	2	2
RE 599954 H	2	16	3	73	<.3	6	4	317	3.36	10	<5	<2	<2	26	<.2	<2	2	32	.49	.069	12	11	1.04	58	.07	5	1.63	.03	.12	2	3
599955 H	1	1	5	64	<.3	16	10	875	2.60	<2	<5	<2	5	24	<.2	<2	<2	28	1.15	.130	29	9	.12	128	.01	<3	.46	.07	.17	2	1
599956 H	1	27	3	64	<.3	15	17	933	4.17	<2	<5	<2	<2	48	<.2	<2	5	108	1.91	.076	9	30	1.95	46	.19	<3	1.72	.07	.05	2	3
599957 H	2	2	<3	43	<.3	19	8	341	2.40	<2	<5	<2	4	63	<.2	<2	2	69	.55	.107	13	21	.90	660	.21	<3	.97	.08	.54	<2	3
599958 H	11	1459	<3	152	1.3	33	13	332	4.06	2	<5	<2	3	37	1.1	<2	6	100	.53	.108	21	29	1.52	672	.08	<3	1.65	.04	.44	3	37
599959 H	2	10	<3	50	<.3	16	8	310	2.38	<2	<5	<2	4	21	<.2	<2	<2	67	.45	.111	11	20	.85	366	.20	<3	.91	.06	.56	<2	2
599960 H	1	3	<3	54	<.3	14	8	302	2.33	<2	<5	<2	4	22	<.2	<2	<2	68	.41	.106	12	24	.88	365	.20	<3	.94	.06	.59	4	2
599961 H	3	1	4	50	<.3	18	8	317	2.44	<2	<5	<2	3	27	<.2	<2	<2	71	.44	.109	12	21	.89	421	.22	<3	1.01	.06	.62	<2	<1
599962 H	1	<1	<3	39	<.3	15	8	348	2.28	<2	<5	<2	4	34	<.2	<2	<2	66	.46	.099	12	23	.76	378	.19	<3	.82	.07	.48	3	1
STANDARD C2/AU-R	20	56	37	140	6.4	73	35	1197	3.88	44	19	8	35	52	20.1	16	16	70	.54	.088	40	60	1.00	209	.08	25	1.98	.06	.15	15	457

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: P1 ROCK P2 SILT AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 4 1996 **DATE REPORT MAILED:** July 13/96 **SIGNED BY.....** D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

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Orvana Minerals Corp. PROJECT 1100 File # 96-3136 Page 1

710 - 1177 W. Hastings St, Vancouver BC V6E 2K3 Submitted by: Piotr Lutynski

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
599963 H	2	36	<3	64	<.3	6	10	271	3.77	<2	<5	<2	<2	76	<.2	<2	<2	150	1.42	.077	2	5	1.06	290	.20	<3	2.55	.30	.54	<2	3
599964 H	10	25	<3	32	<.3	8	2	201	1.73	<2	<5	<2	9	23	<.2	<2	<2	50	.35	.085	15	16	.56	290	.24	<3	.68	.07	.58	<2	1
599965 H	5	6	4	2	<.3	4	1	42	1.30	9	<5	<2	3	10	<.2	<2	<2	2	.02	.005	7	4	.02	81	<.01	<3	.25	.01	.16	<2	<1
599966 H	21	594	31	144	.9	53	10	382	1.91	17	<5	<2	2	9	1.0	2	<2	31	.06	.024	10	71	.46	468	.02	<3	.73	.01	.33	<2	6
599967 H	17	877	26	240	1.3	96	16	619	2.06	56	<5	<2	4	8	1.5	5	<2	41	.09	.027	12	48	.56	342	.03	<3	1.00	.01	.45	<2	9
599968 H	26	893	53	271	1.8	61	8	655	1.56	20	<5	<2	2	11	3.0	18	3	19	.07	.022	9	29	.21	540	.01	<3	.46	.01	.23	<2	29
599969 H	17	714	64	267	1.1	73	14	617	2.52	38	<5	<2	2	10	.8	8	<2	32	.09	.038	14	50	.44	499	.01	<3	.84	.01	.27	<2	17
599970 H	16	122	73	50	.9	53	2	85	2.56	7	<5	<2	2	11	<.2	<2	3	28	.03	.026	10	86	1.03	282	<.01	<3	1.15	.01	.28	<2	4
599971 H	20	520	104	152	2.6	98	15	298	4.11	27	<5	<2	2	13	<.2	3	5	39	.05	.045	7	78	.94	147	.01	<3	1.25	.01	.31	<2	6
599972 H	12	435	3	51	<.3	110	15	307	2.76	3	<5	<2	3	21	<.2	<2	<2	78	.17	.045	13	87	1.37	739	.15	<3	1.97	.01	.93	<2	3
599973 H	31	233	<3	66	.5	150	16	220	2.46	32	<5	<2	3	9	<.2	6	<2	42	.04	.019	11	41	.87	287	.01	<3	1.27	.01	.39	<2	2
599974 H	7	204	11	250	<.3	100	12	325	1.75	38	<5	<2	3	12	1.0	3	<2	53	.12	.034	18	91	.36	423	.03	<3	.81	.01	.30	<2	1
599975 H	20	318	10	112	.6	133	18	611	2.95	6	<5	<2	2	24	.5	<2	<2	72	.13	.045	10	96	1.37	636	.09	<3	1.95	.01	.79	<2	3
599976 H	36	849	17	252	1.1	66	10	1486	1.91	15	<5	<2	2	16	3.1	17	<2	25	.16	.043	12	21	.31	362	.01	<3	.60	.01	.25	<2	7
599977 H	32	871	230	190	1.4	50	11	675	2.70	12	<5	<2	2	22	.2	2	3	55	.26	.071	24	98	.75	360	.06	<3	1.26	.02	.46	<2	25
599978 H	64	2237	438	298	14.6	14	9	1558	4.41	14	<5	<2	4	37	1.5	5	16	28	.28	.110	31	14	.23	147	<.01	<3	.68	<.01	.26	<2	385
599979 H	2	140	7	128	.5	26	13	1400	3.98	2	<5	<2	<2	115	<.2	<2	<2	71	4.70	.082	12	59	.60	170	<.01	<3	1.01	.05	.04	<2	7
599980 H	<1	48	26	194	.6	14	4	2440	4.00	21	<5	<2	<2	162	1.6	<2	<2	78	13.75	<.001	6	25	.32	61	<.01	<3	.69	.01	.21	<2	13
RE 599980 H	<1	44	22	187	.5	13	4	2423	3.93	20	<5	<2	<2	157	1.2	<2	<2	77	13.74	<.001	6	25	.31	60	<.01	<3	.67	.01	.19	<2	10
599981 H	2	161	5	64	.3	9	15	444	5.00	<2	<5	<2	<2	85	2.1	<2	<2	195	1.10	.048	1	38	2.93	102	.28	<3	4.04	.34	1.62	<2	4
599982 H	1	20	<3	7	<.3	1	<1	48	3.38	<2	<5	<2	<2	27	<.2	<2	<2	14	.05	.017	6	7	.05	35	.01	<3	.21	.12	.24	<2	4
599983 H	2	18	<3	96	<.3	5	3	1096	2.80	<2	<5	<2	<2	27	.4	<2	<2	87	.52	.060	6	5	1.50	292	.32	<3	2.31	.16	1.39	<2	2
599984 H	2	14	<3	76	<.3	2	<1	609	3.02	<2	<5	<2	<2	16	<.2	<2	<2	79	.12	.044	5	5	.73	222	.27	<3	1.56	.07	.98	<2	2
599985 H	22	126	4	124	<.3	7	8	652	3.77	<2	<5	<2	<2	41	<.2	<2	3	110	1.32	.081	4	5	.96	65	.26	<3	2.33	.25	.73	3	2
599986 H	4	20	155	481	1.9	7	6	8152	2.42	373	<5	<2	<2	410	6.5	5	<2	65	32.75	<.001	<1	9	.73	36	.06	<3	1.03	.09	.12	<2	8
599987 H	19	367	69	20342	5.8	14	9	8695	11.54	30664	<5	<2	<2	45	202.3	37	18	35	2.71	.039	1	24	.30	20	.02	<3	.77	.02	.10	<2	1140
599988 H	1	59	22	4938	.4	10	14	1919	3.09	1763	<5	<2	<2	92	43.9	4	<2	92	2.82	.039	2	15	1.01	105	.13	<3	4.45	.32	.67	<2	30
599989 H	3	55	21	3080	.5	9	14	1733	2.12	3056	<5	<2	<2	63	18.7	4	<2	45	2.28	.048	3	12	.84	112	.09	3	3.40	.15	.34	<2	69
599990 H	12	586	40	17675	4.0	4	1	3432	15.27	40200	<5	<2	<2	34	138.8	42	10	27	2.93	.019	1	11	.16	26	.02	<3	.49	.02	.07	<2	2120
599991 H	2	86	20	467	.3	13	23	1914	4.78	1056	<5	<2	<2	90	2.4	<2	<2	214	3.00	.058	1	15	1.35	84	.19	<3	3.25	.25	.21	<2	35
599992 H	1	219	<3	147	3.1	62	14	421	3.24	87	<5	<2	<2	192	1.0	5	<2	122	1.98	.087	3	153	1.91	170	.25	<3	4.08	.41	1.01	<2	20
599993 H	5	5	4	87	<.3	27	9	291	2.66	11	<5	<2	3	37	<.2	<2	<2	72	.46	.105	10	32	1.24	321	.20	3	1.28	.07	.40	<2	3
599994 H	<1	52	<3	147	<.3	12	20	910	4.93	12	<5	<2	<2	49	.8	<2	<2	121	1.12	.084	4	13	2.83	122	.26	<3	3.61	.04	.07	<2	2
599995 H	2	2	6	83	<.3	2	3	664	.39	25	<5	<2	18	6	<.2	<2	<2	3	.06	.004	55	4	.04	16	.01	<3	.16	.05	.08	<2	1
STANDARD C2/AU-R	21	60	36	145	6.8	72	36	1195	3.96	42	22	8	35	53	19.8	13	18	74	.56	.098	40	65	.95	216	.08	29	2.05	.07	.15	12	417

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: P1 ROCK P2 SILT AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 25 1996 **DATE REPORT MAILED:** Aug 1/96 **SIGNED BY.** D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

FIGURE 3

CH PROPERTY
CH-A & CH-B CLAIM GROUP
ROCK SAMPLE LOCATION MAP
SCALE: 1:50,000

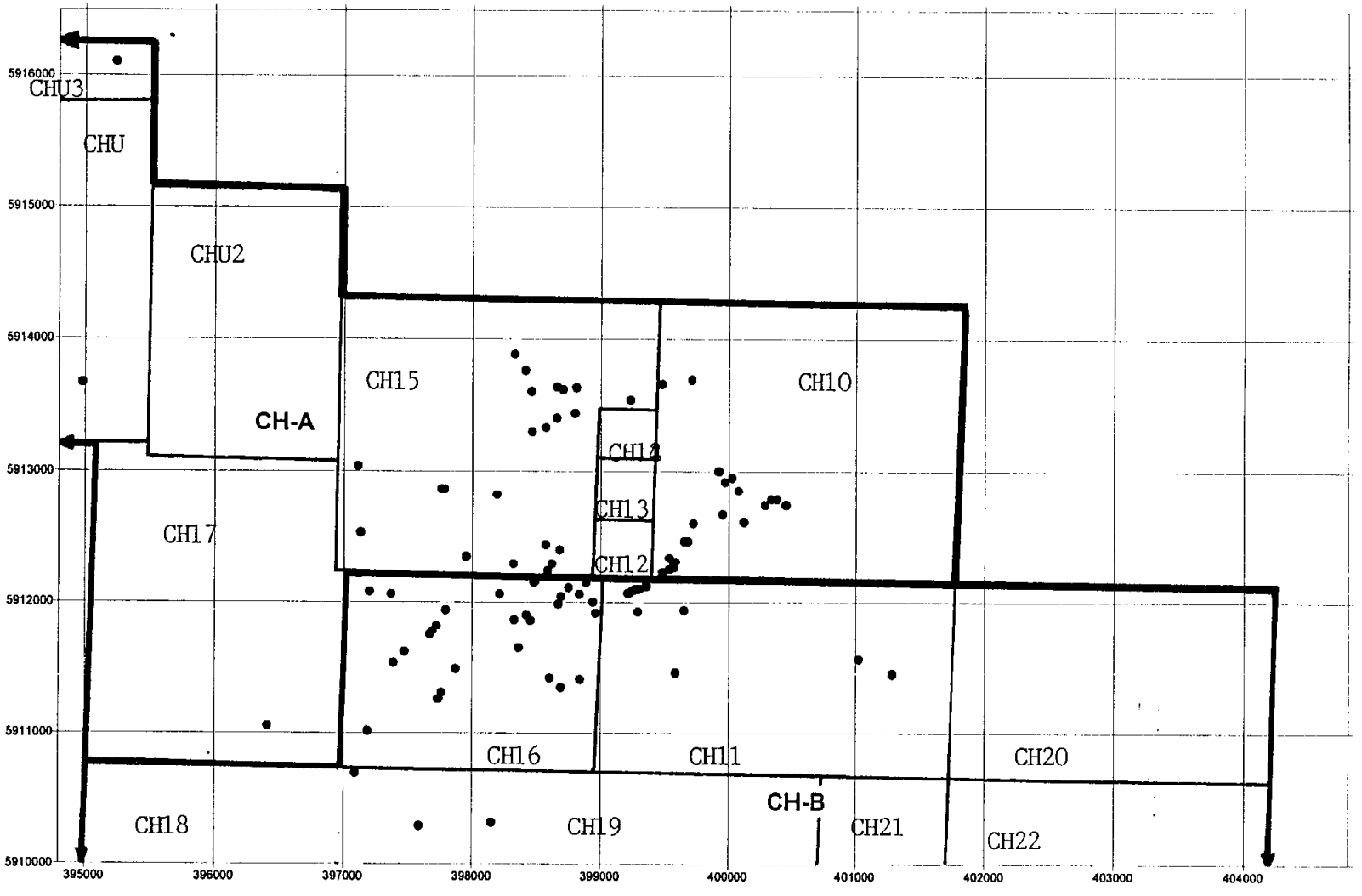
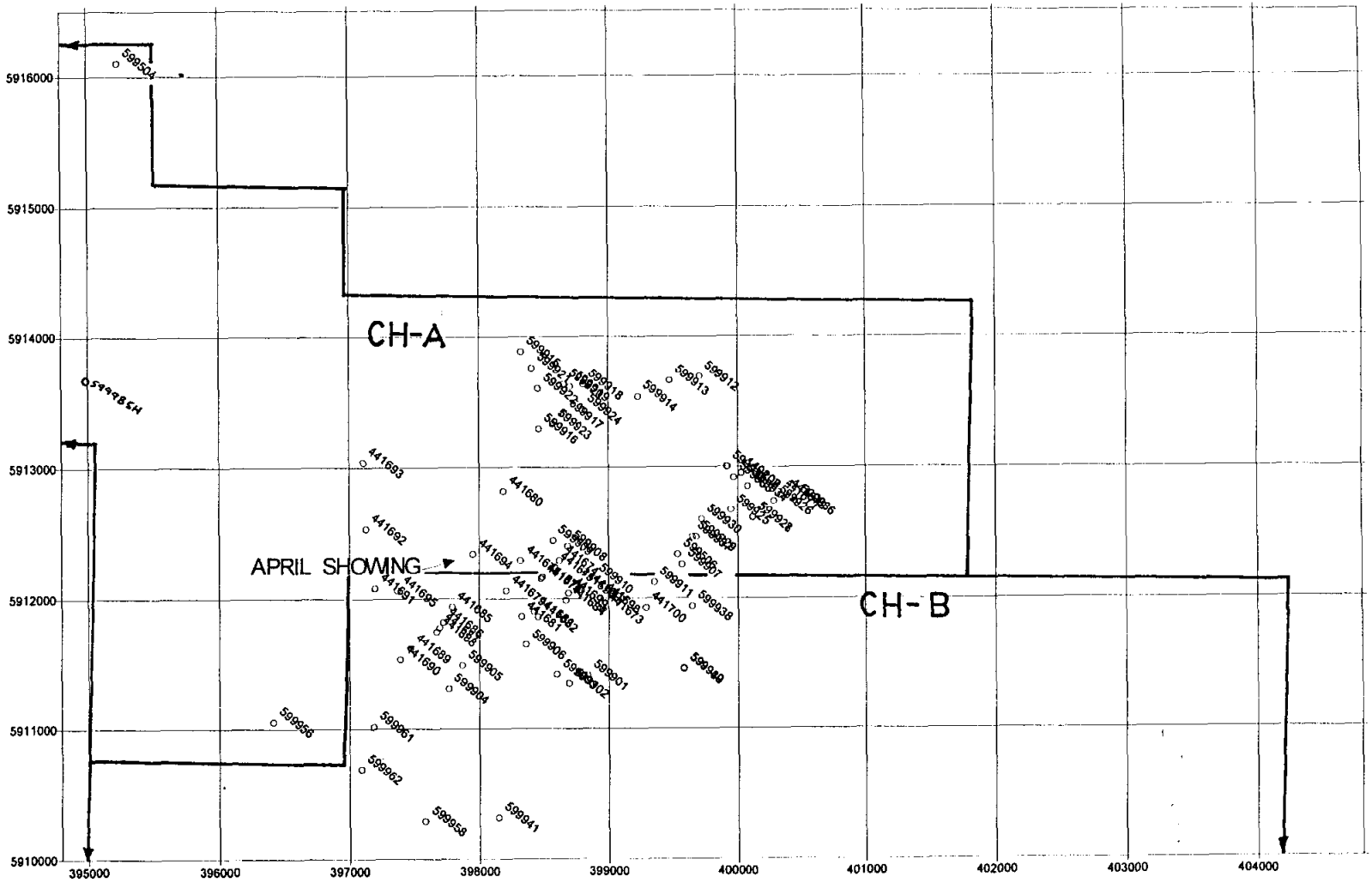


Fig. 3

CH PROPERTY
ROCK SAMPLE LOCATION MAP
SCALE: 1:50,000



Scale Bar [m]

0 1000 2000 3000 4000

Fig. 3a

CH PROPERTY
ROCK SAMPLE LOCATION MAP
SCALE: 1:10,000

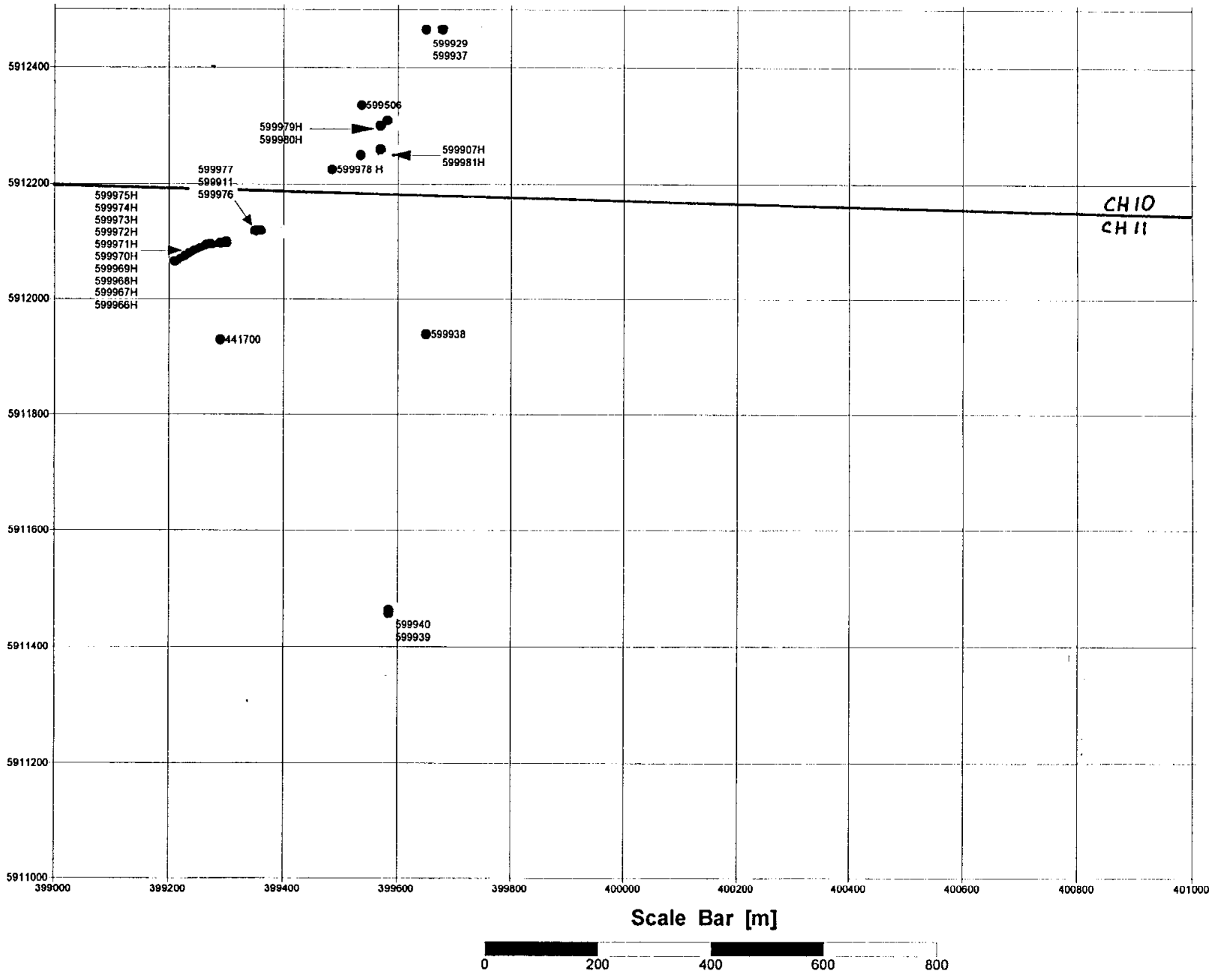


Fig. 3a-SE

CH PROPERTY
ROCK SAMPLE LOCATION MAP
SCALE: 1:10,000

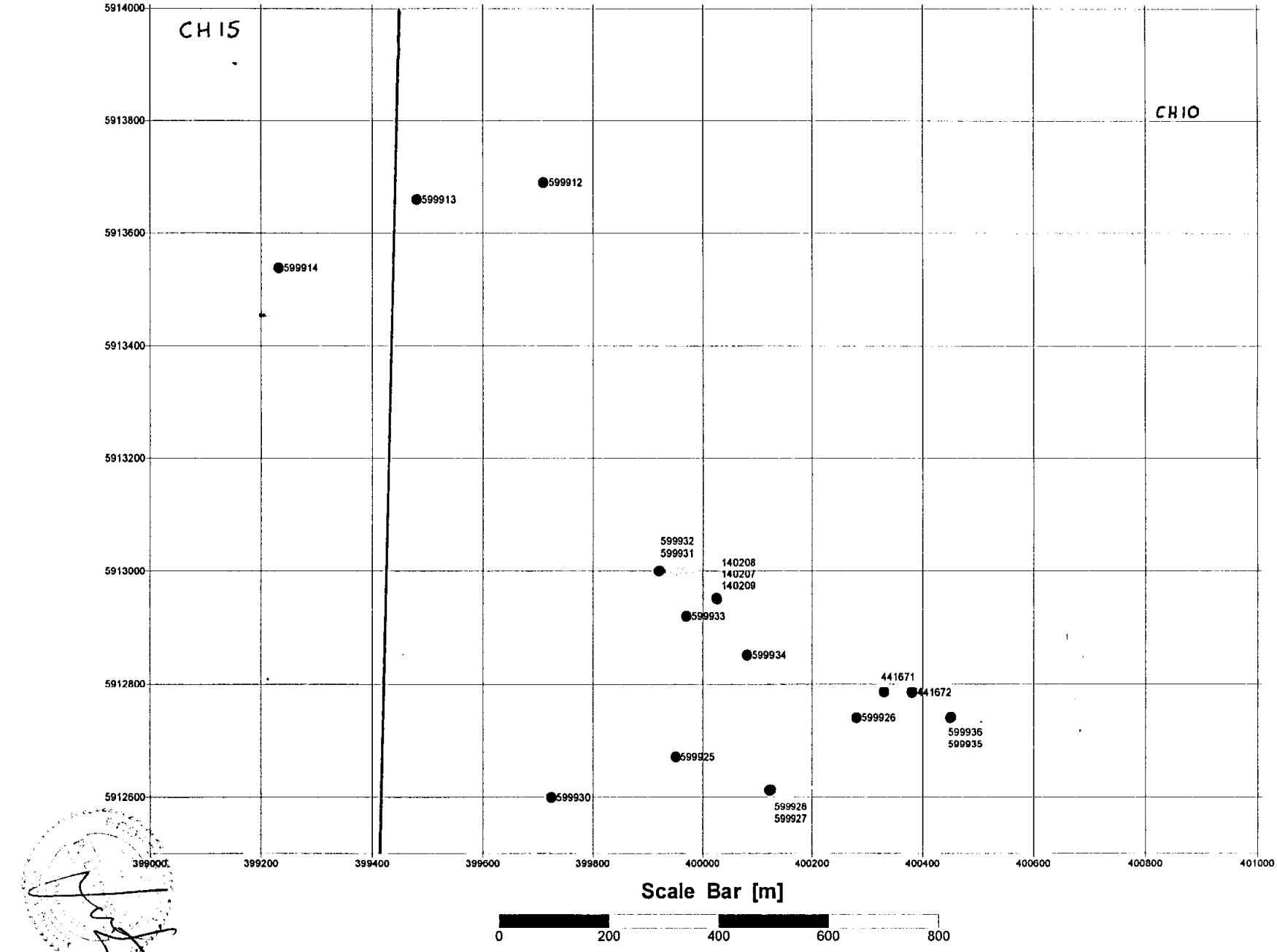


Fig. 3a-NE

CH PROPERTY
ROCK SAMPLE LOCATION MAP
SCALE: 1:10,000

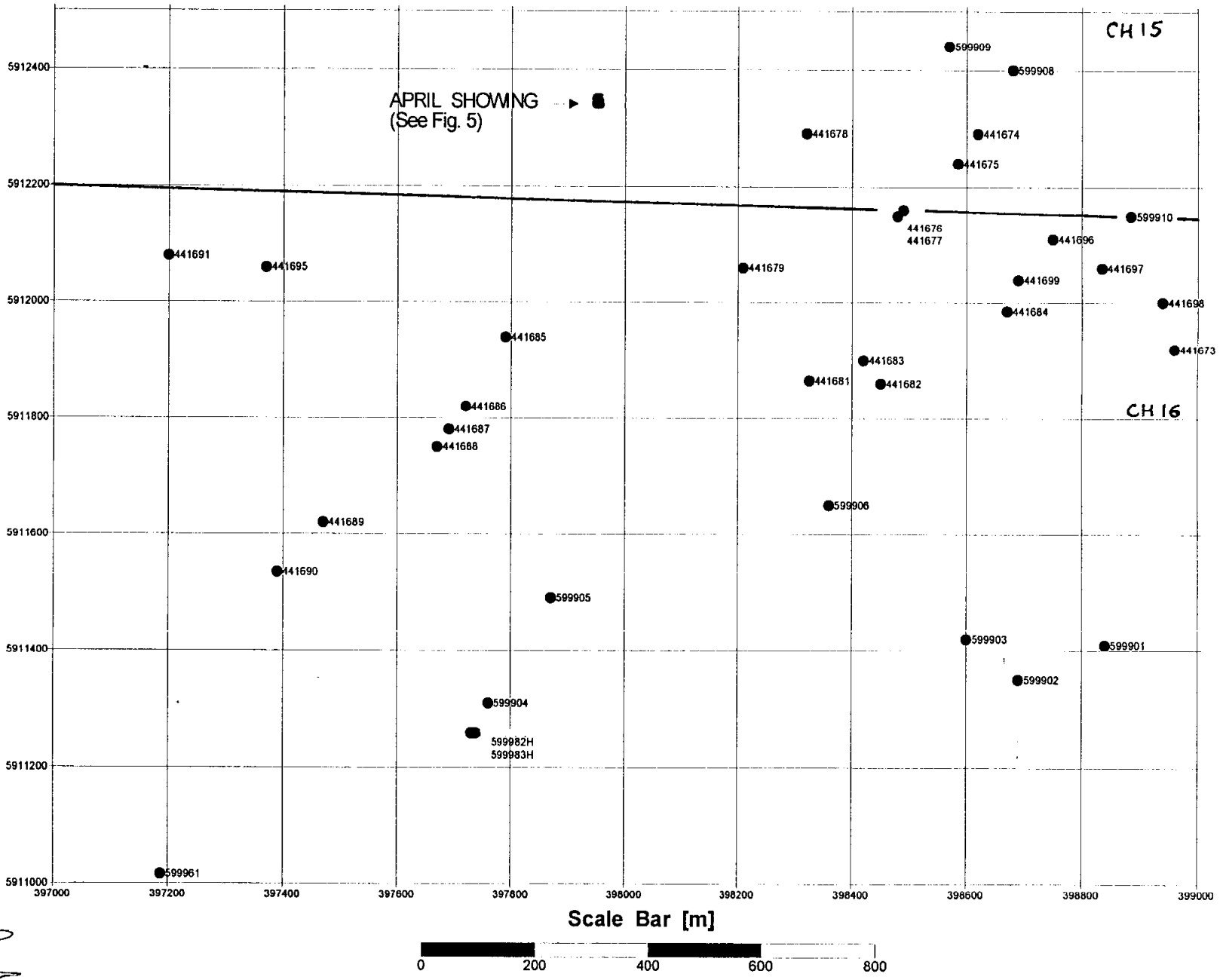


Fig. 3a-SW

CH PROPERTY
ROCK SAMPLE LOCATION MAP
SCALE: 1:10,000

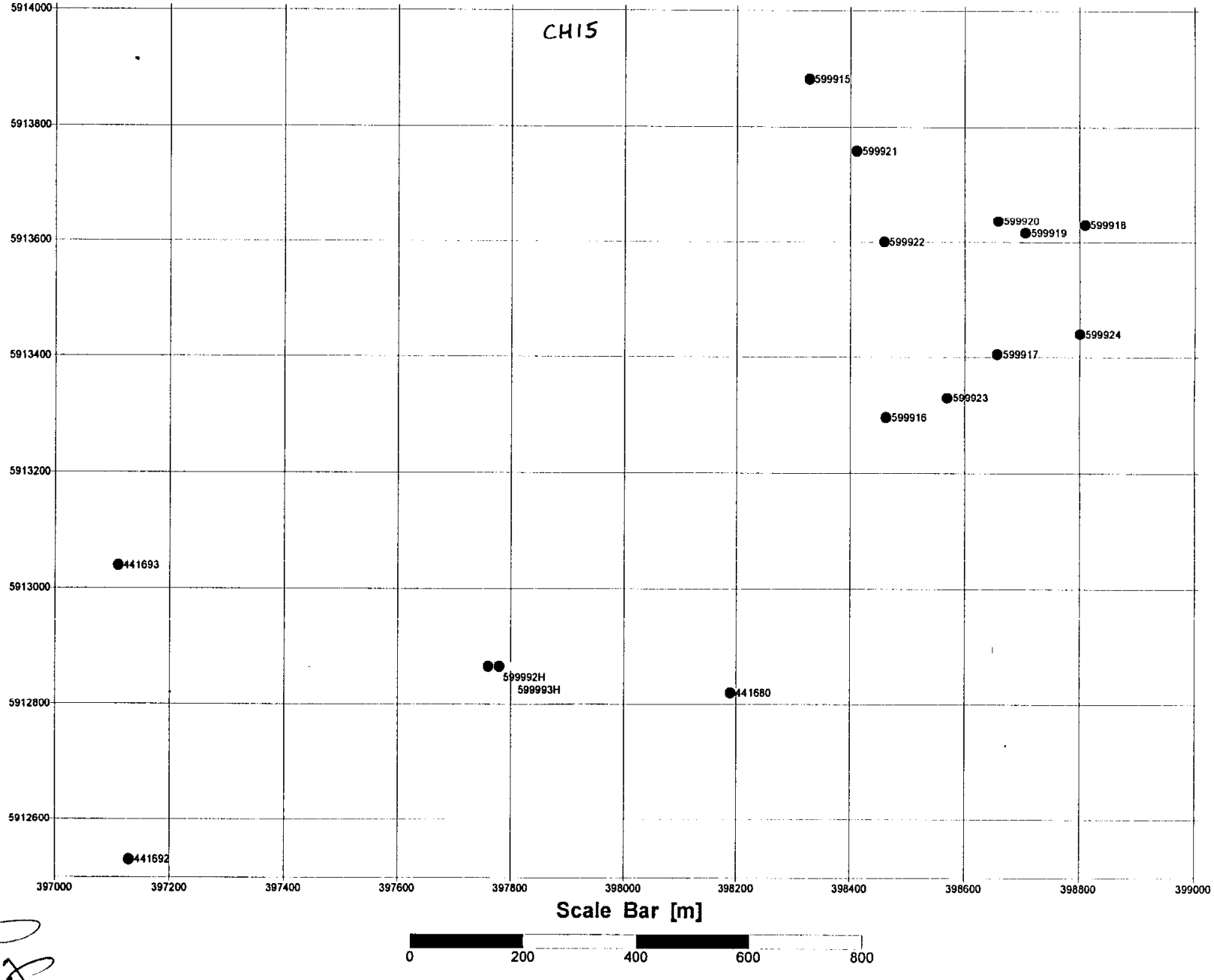
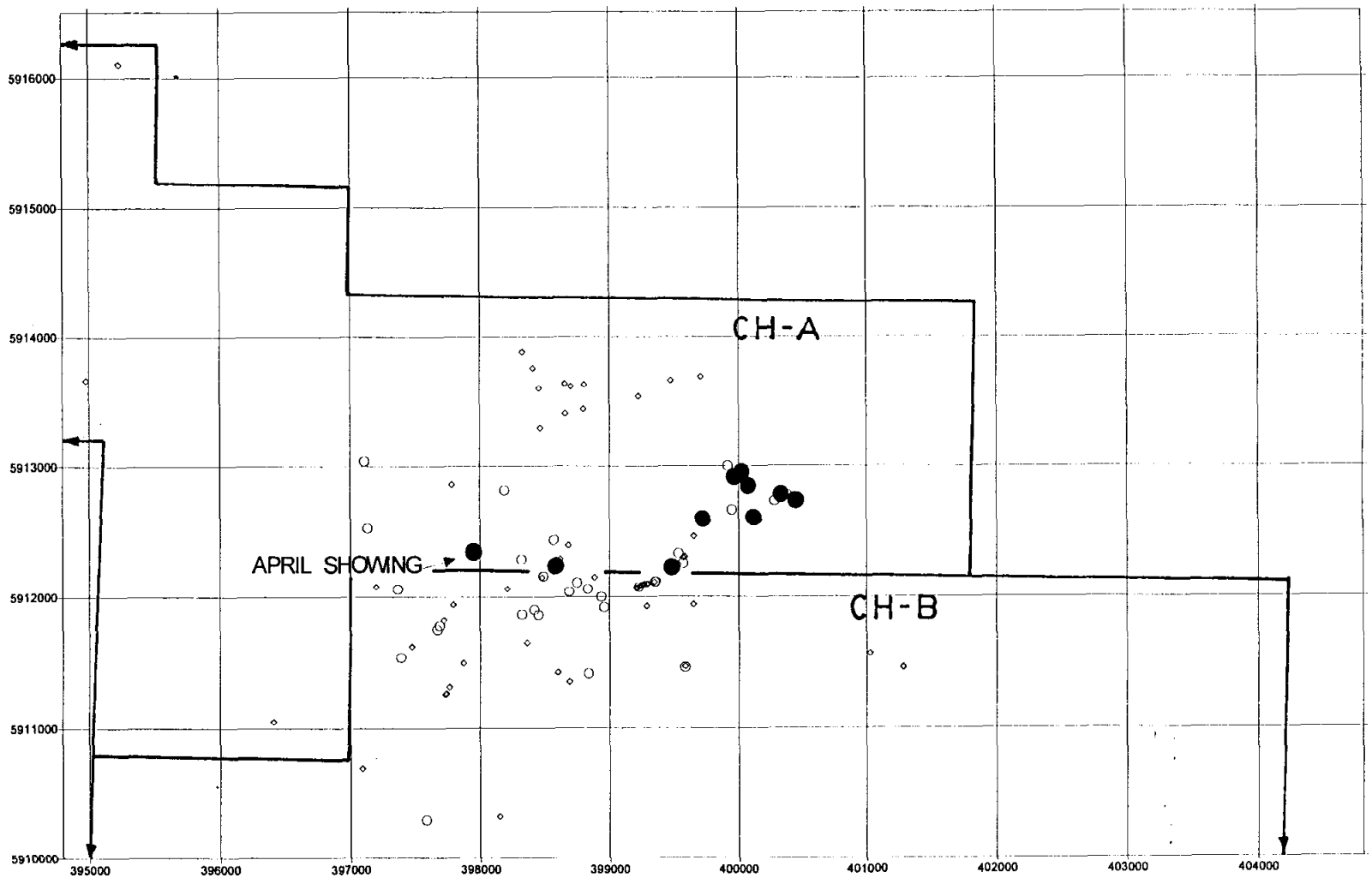


Fig. 3a-NW

CH PROPERTY
ROCK SAMPLE GEOCHEMISTRY Au [ppb]
SCALE: 1:50,000



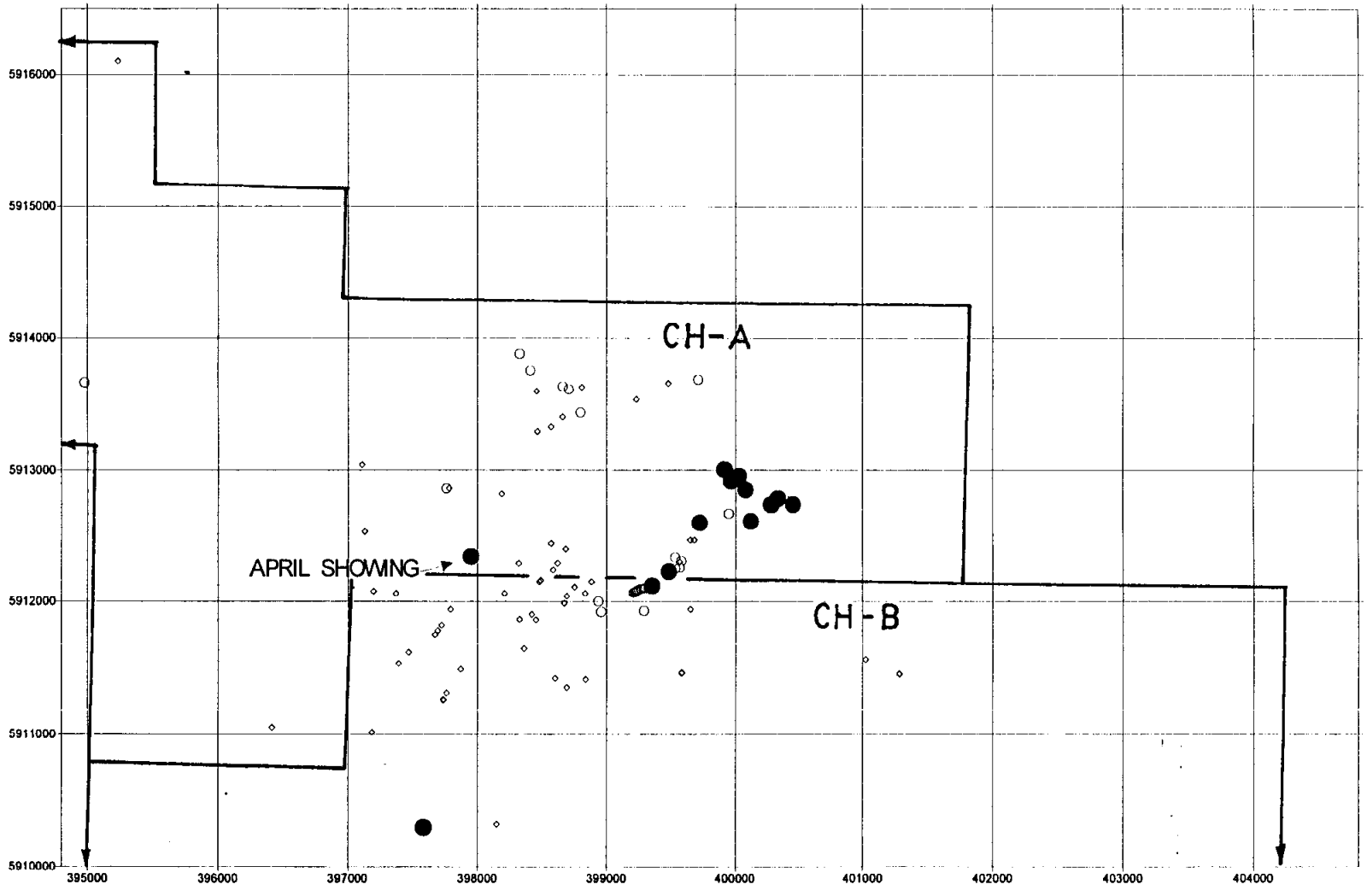
N

Scale Bar [m]
0 1000 2000 3000 4000

Au [ppb]
1 to 20
21 to 100
101 to 2121

Fig. 3b

CH PROPERTY
ROCK SAMPLE GEOCHEMISTRY Cu [ppm]
SCALE: 1:50,000



N

Scale Bar [m]

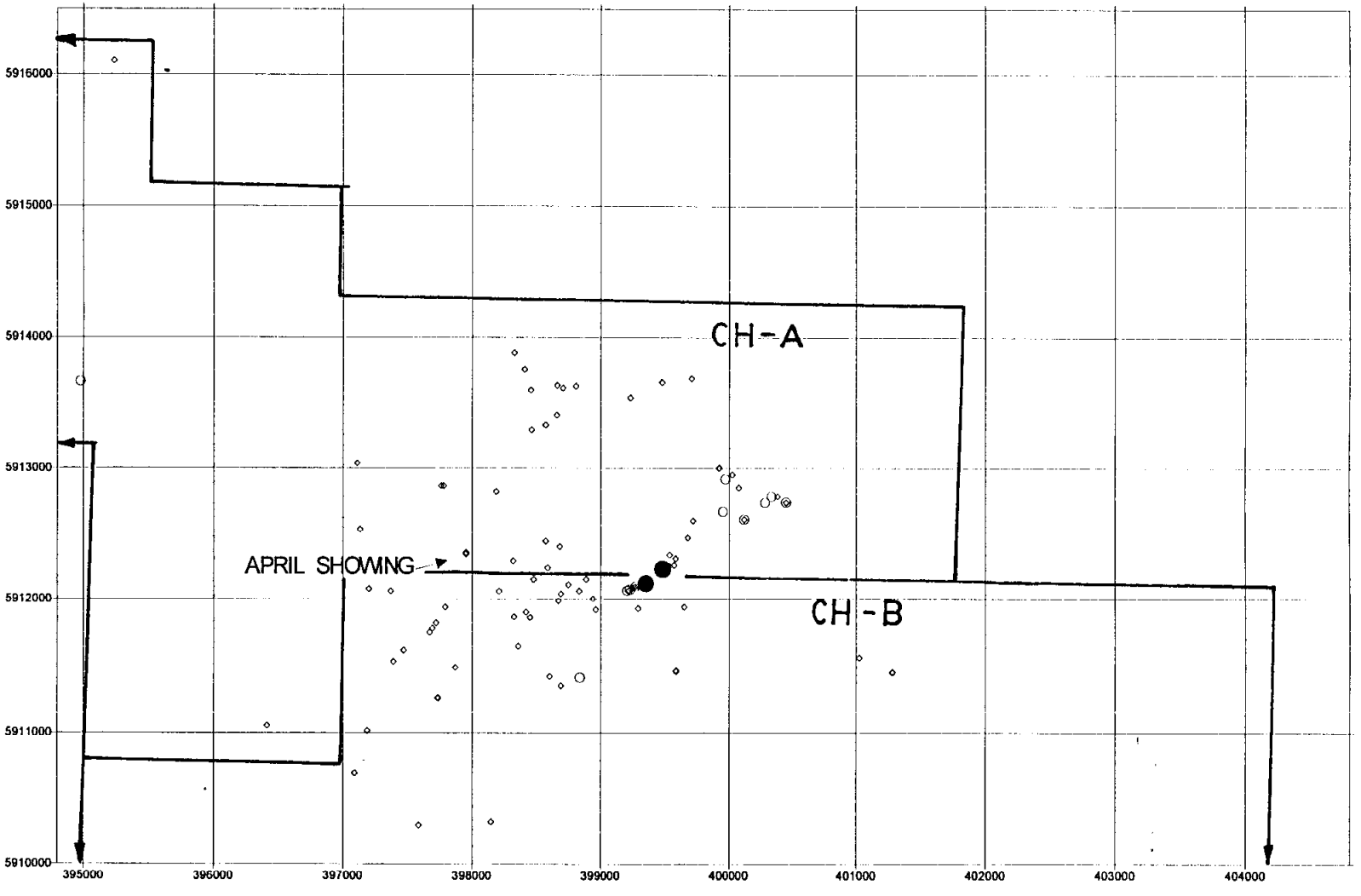
0 1000 2000 3000 4000

Cu [ppm]

- 1 to 100
- 101 to 1000
- 1001 to 5721

Fig. 3c

CH PROPERTY
ROCK SAMPLE GEOCHEMISTRY Mo [ppm]
SCALE: 1:50,000



N

Scale Bar [m]

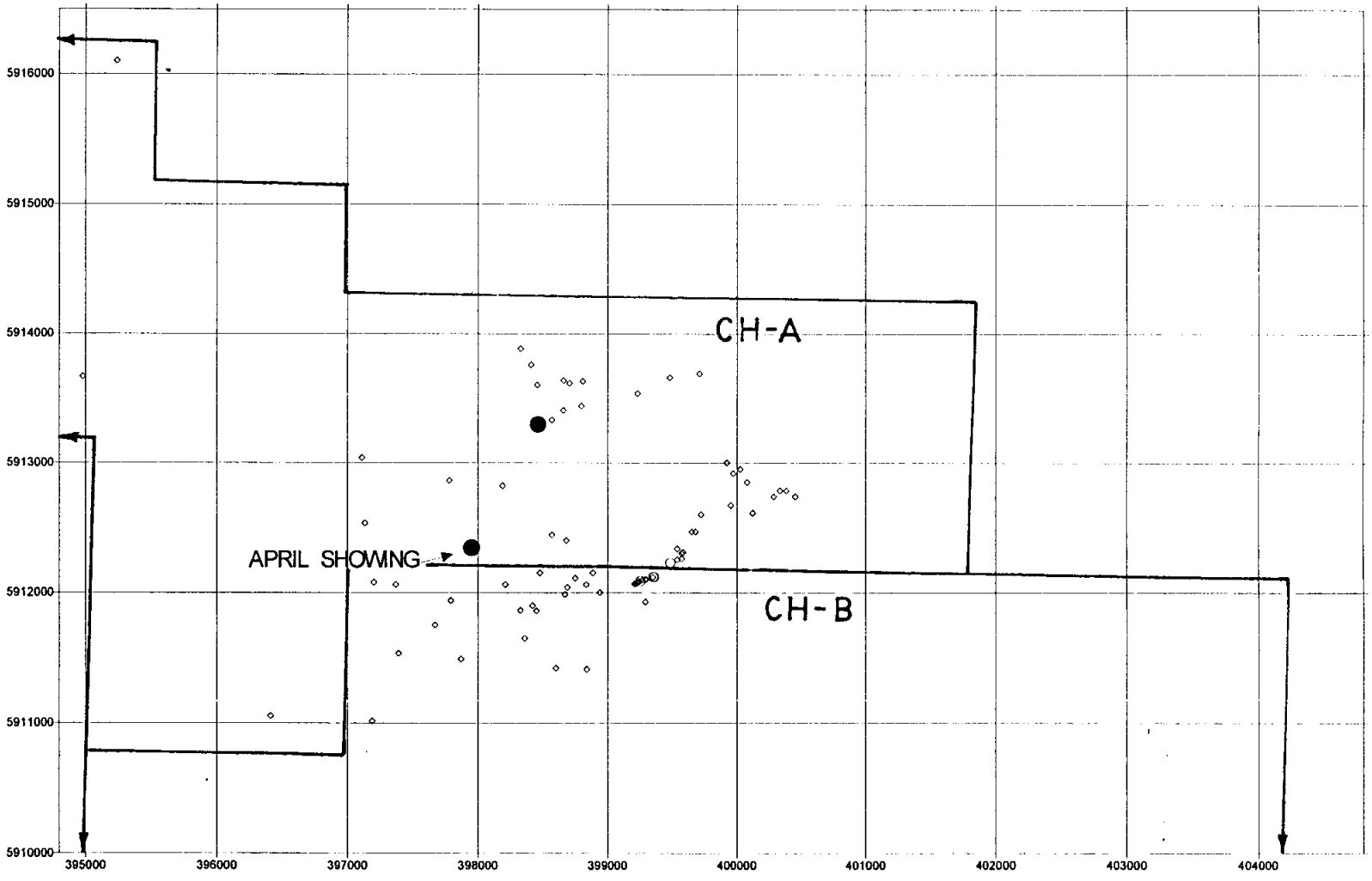
0 1000 2000 3000 4000

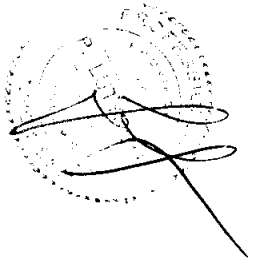
Mo [ppm]

- 1 to 20
- 21 to 60
- 61 to 108

Fig. 3d

CH PROPERTY
ROCK SAMPLE GEOCHEMISTRY Pb [ppm]
SCALE: 1:50,000





Scale Bar [m]

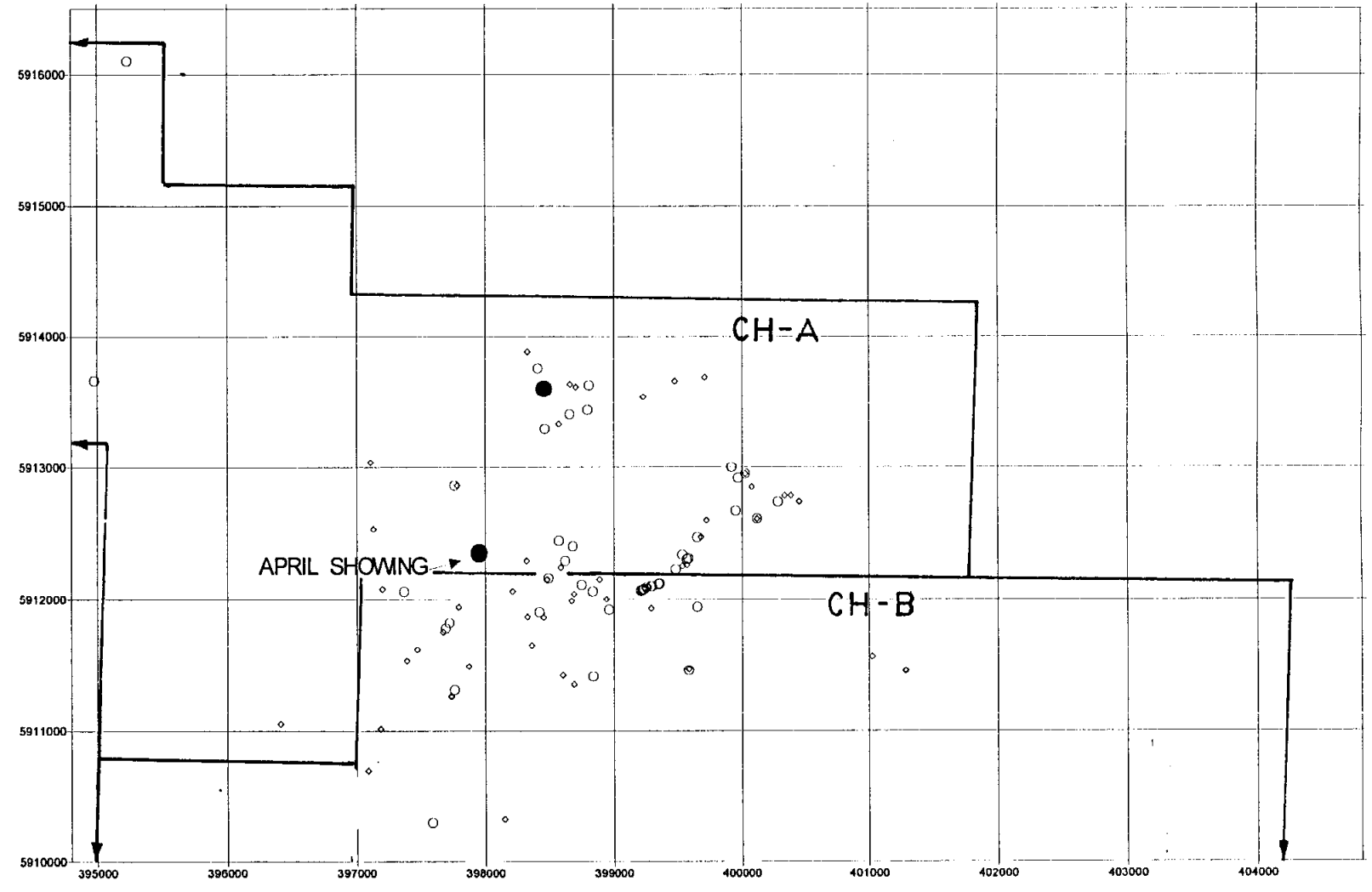
0 1000 2000 3000 4000

Pb [ppm]

- 2 to 100
- 101 to 500
- 501 to 1029

Fig. 3e

CH PROPERTY
ROCK SAMPLE GEOCHEMISTRY Zn [ppm]
SCALE: 1:50,000



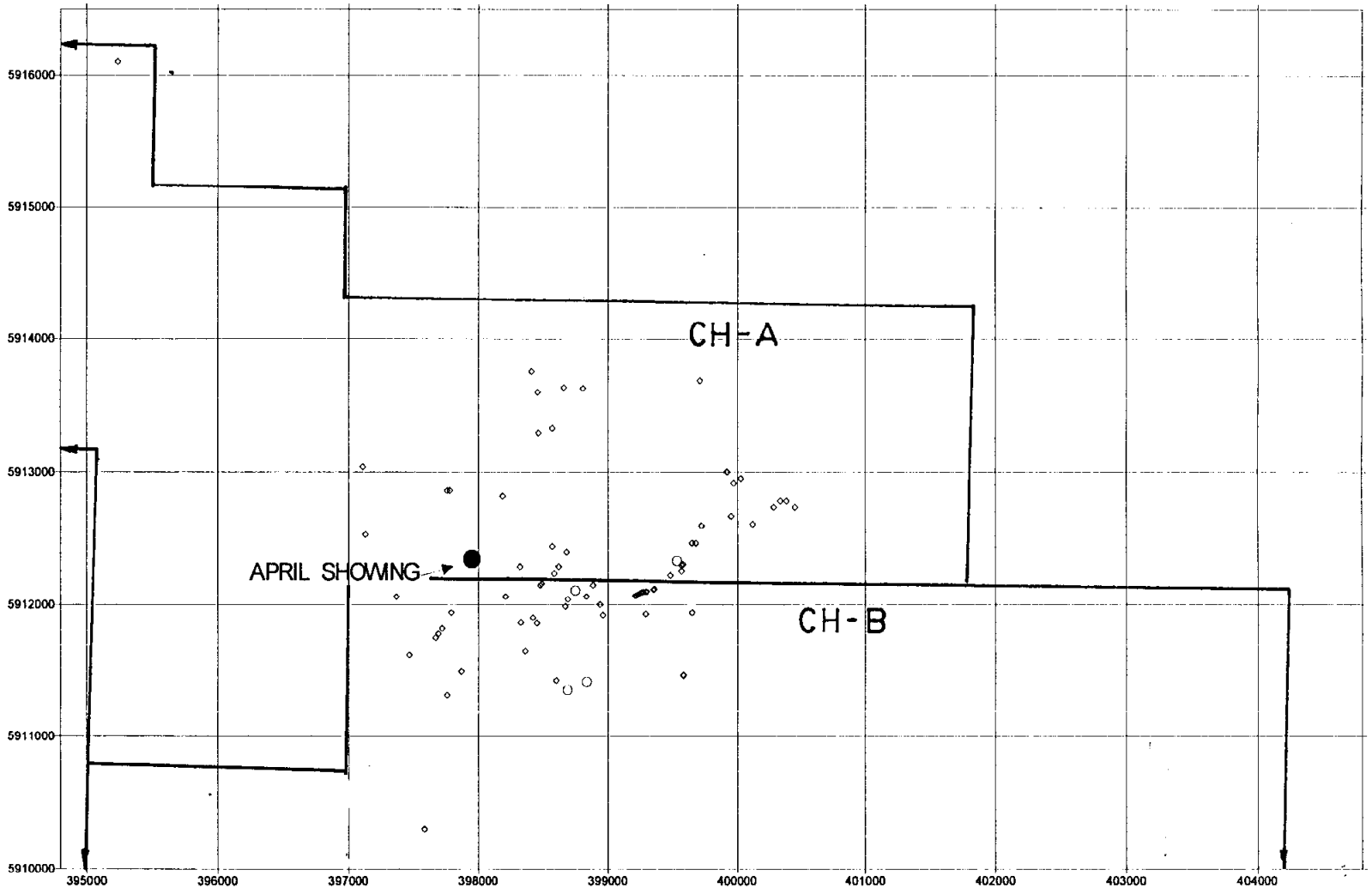
Scale Bar [m]

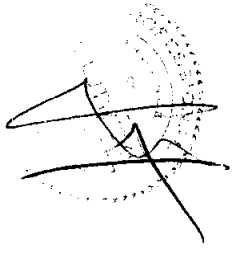
0 1000 2000 3000 4000

Zn [ppm]
- 3 to 100
- 101 to 1000
- 1001 to 37560

Fig. 3f

CH PROPERTY
ROCK SAMPLE GEOCHEMISTRY As [ppm]
SCALE: 1:50,000





Scale Bar [m]

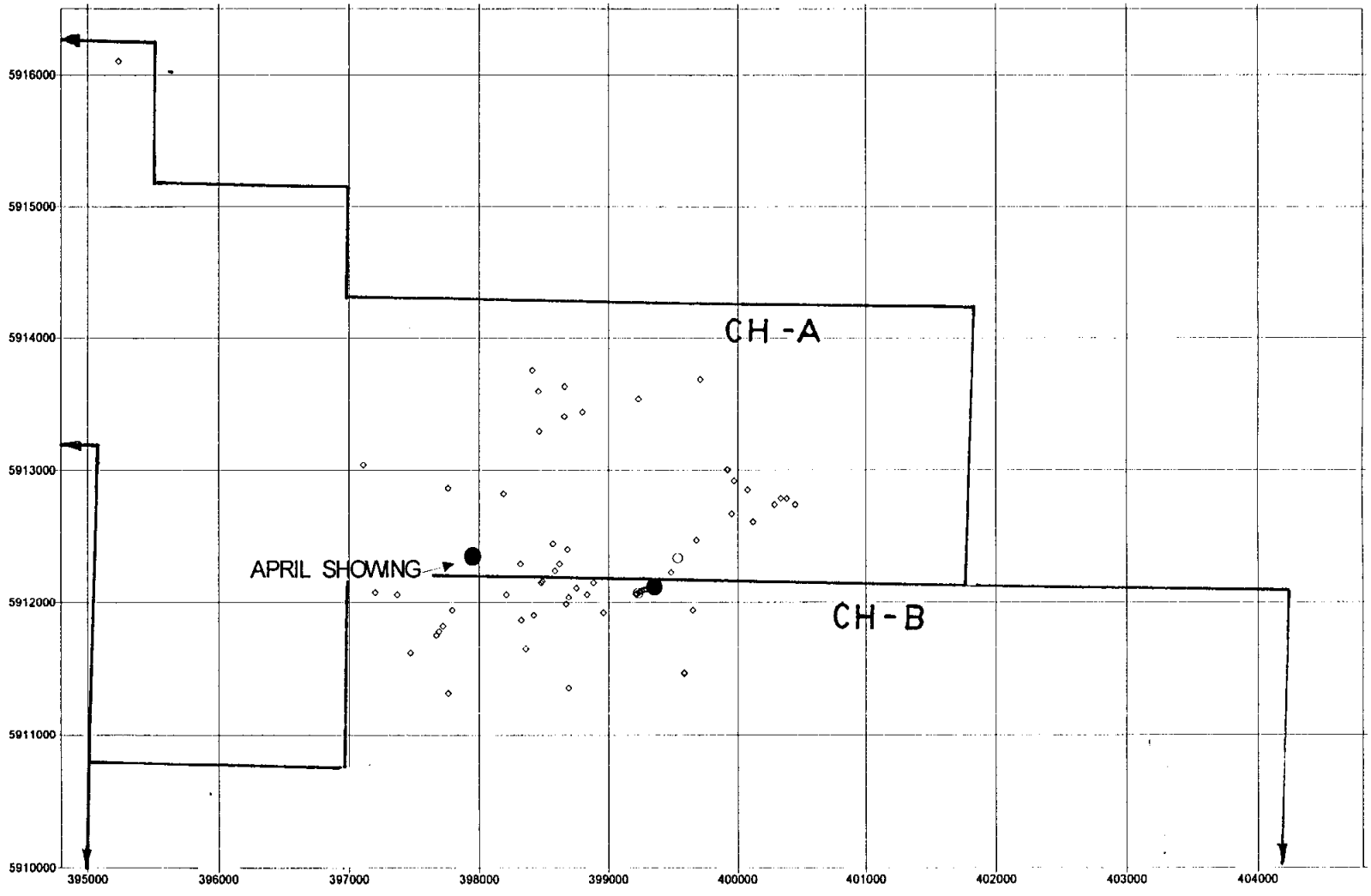
0 1000 2000 3000 4000

As [ppm]

- ◇ -2 to 100
- ○ 101 to 1000
- ● 1001 to 40210

Fig. 3g

CH PROPERTY
ROCK SAMPLE GEOCHEMISTRY Sb [ppm]
SCALE: 1:50,000



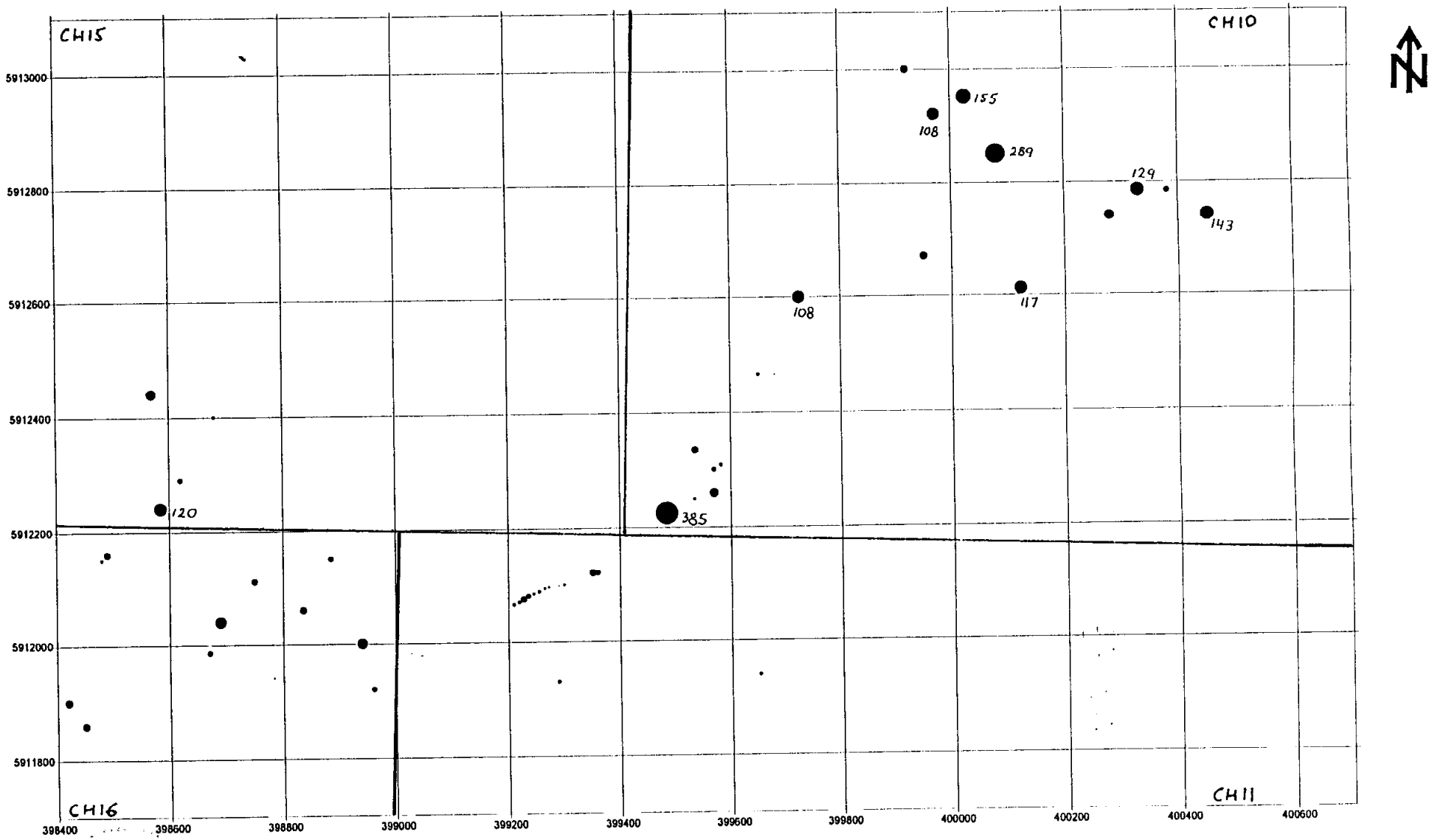
Scale Bar [m]
0 1000 2000 3000 4000

Sb [ppm]
-2 to 10
11 to 30
31 to 76

Fig. 3h

FIGURE 4

CH PROPERTY
ROCK SAMPLE GEOCHEMISTRY Au [ppb]
SCALE: 1:10,000

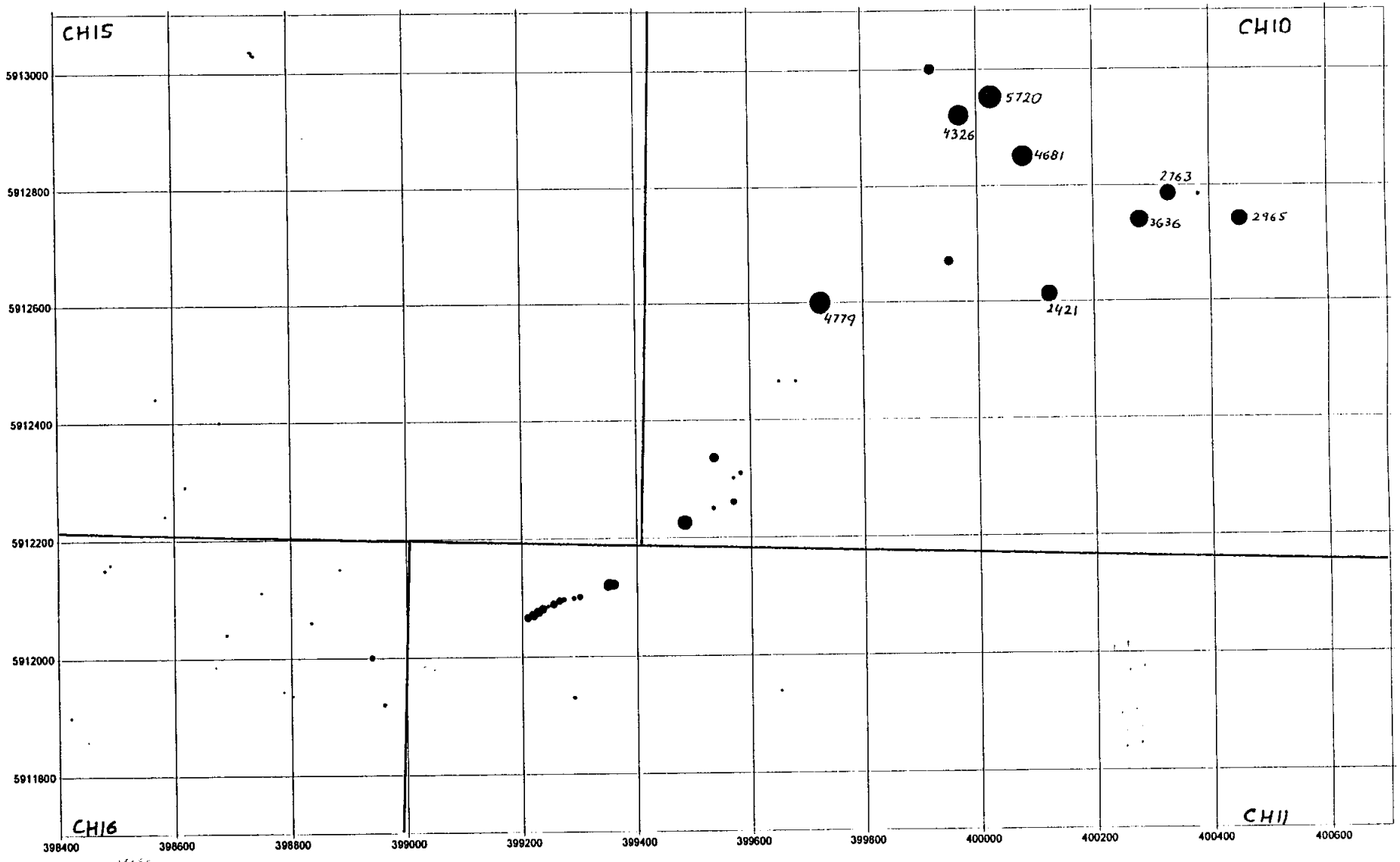


Scale Bar [m]

0 200 400 600 800

Fig. 4a

CH PROPERTY
ROCK SAMPLE GEOCHEMISTRY Cu [ppm]
SCALE: 1:10,000



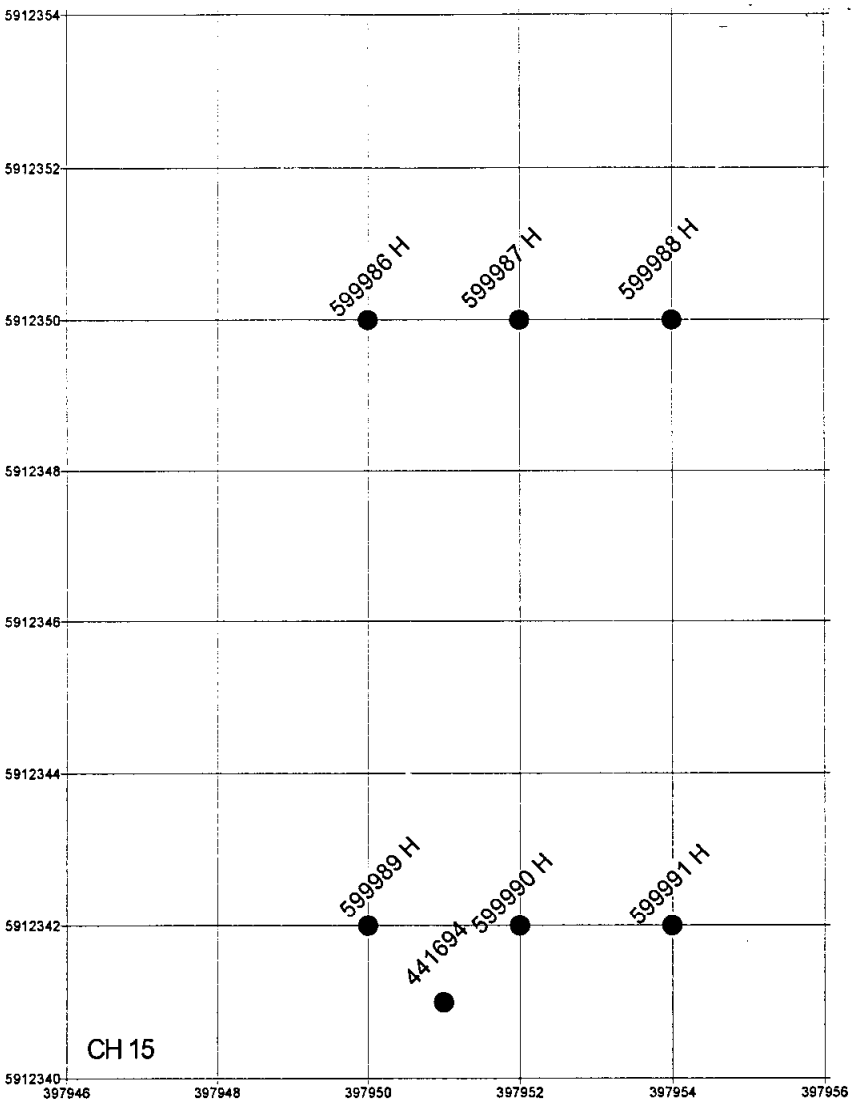
Scale Bar [m]

0 200 400 600 800

Fig. 4b

FIGURE 5

APRIL SHOWING
ROCK SAMPLE LOCATION MAP
SCALE: 1:100

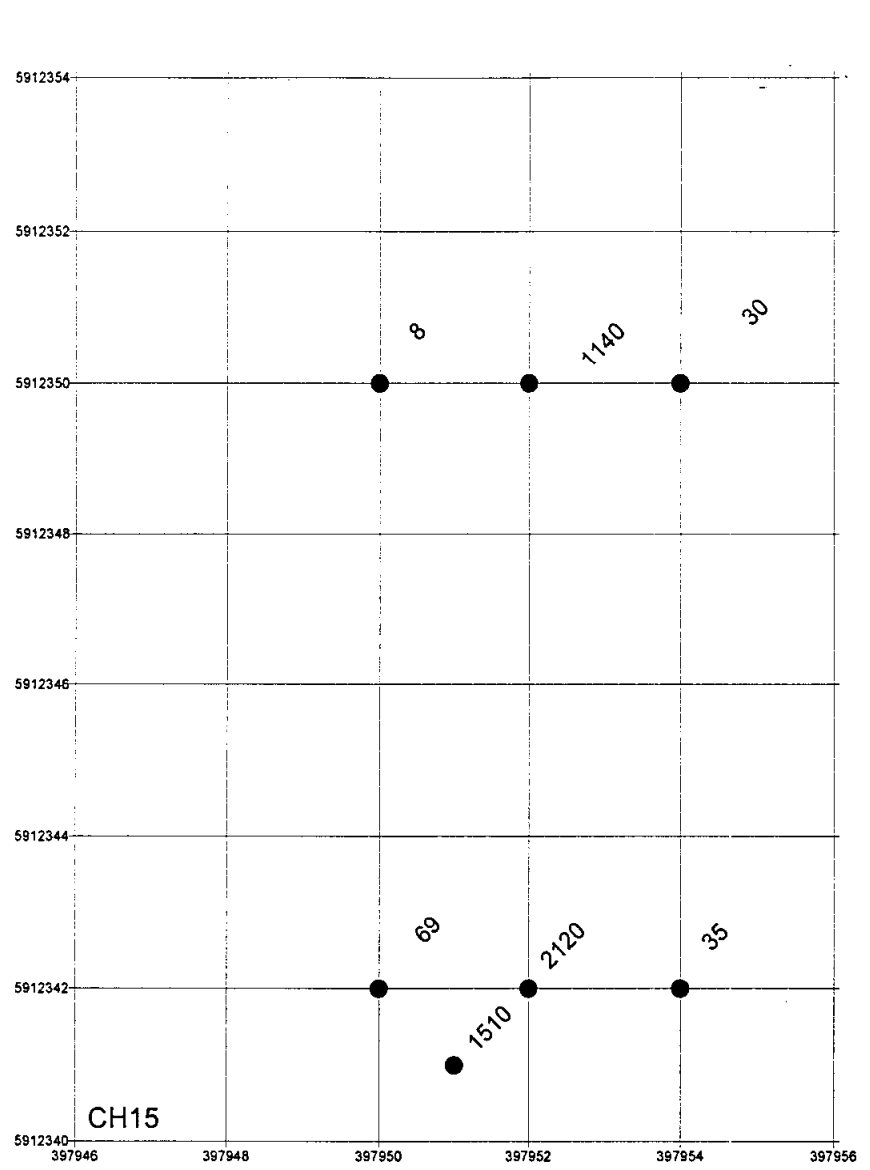


Scale Bar [m]

0 2 4 6 8

Fig. 5

APRIL SHOWING
ROCK SAMPLE GEOCHEMISTRY Au [ppb]
SCALE: 1:100



Scale Bar [m]

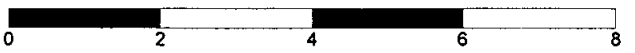
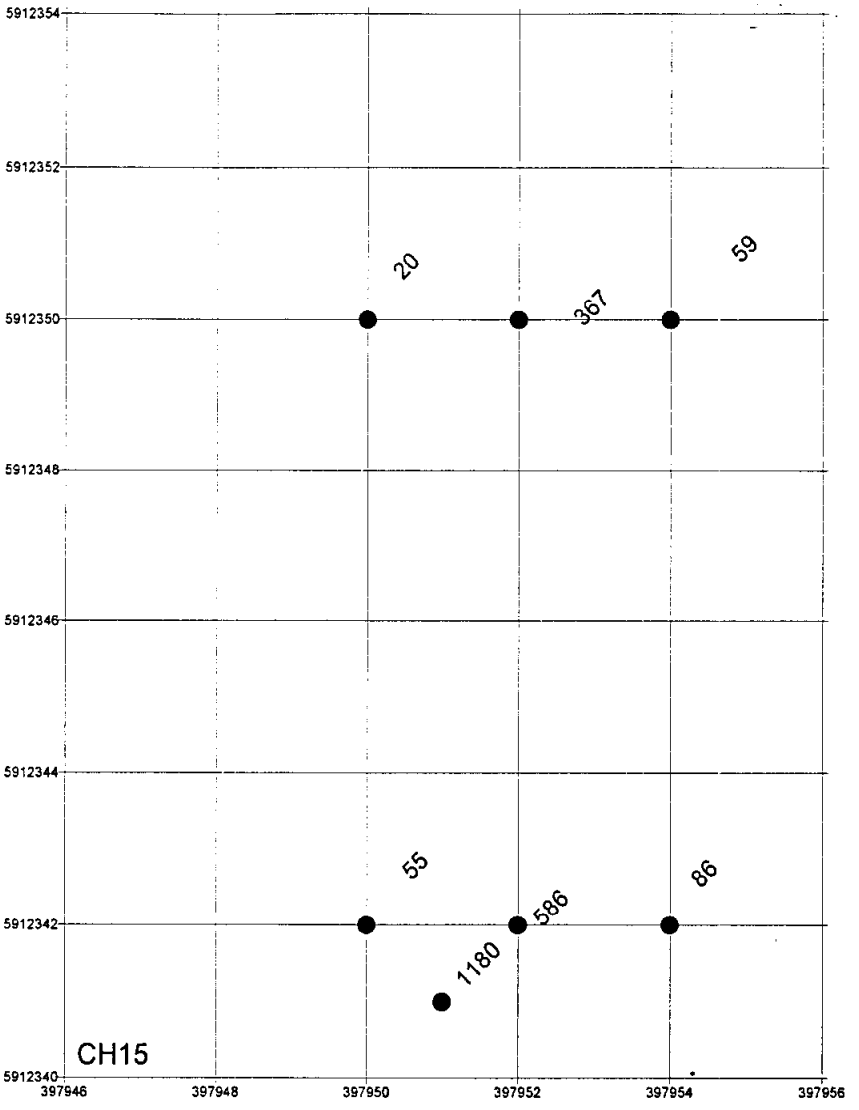


Fig. 5a

APRIL SHOWING
ROCK SAMPLE GEOCHEMISTRY Cu [ppm]
SCALE: 1:100



Scale Bar [m]

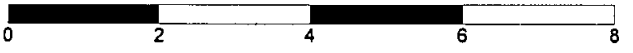
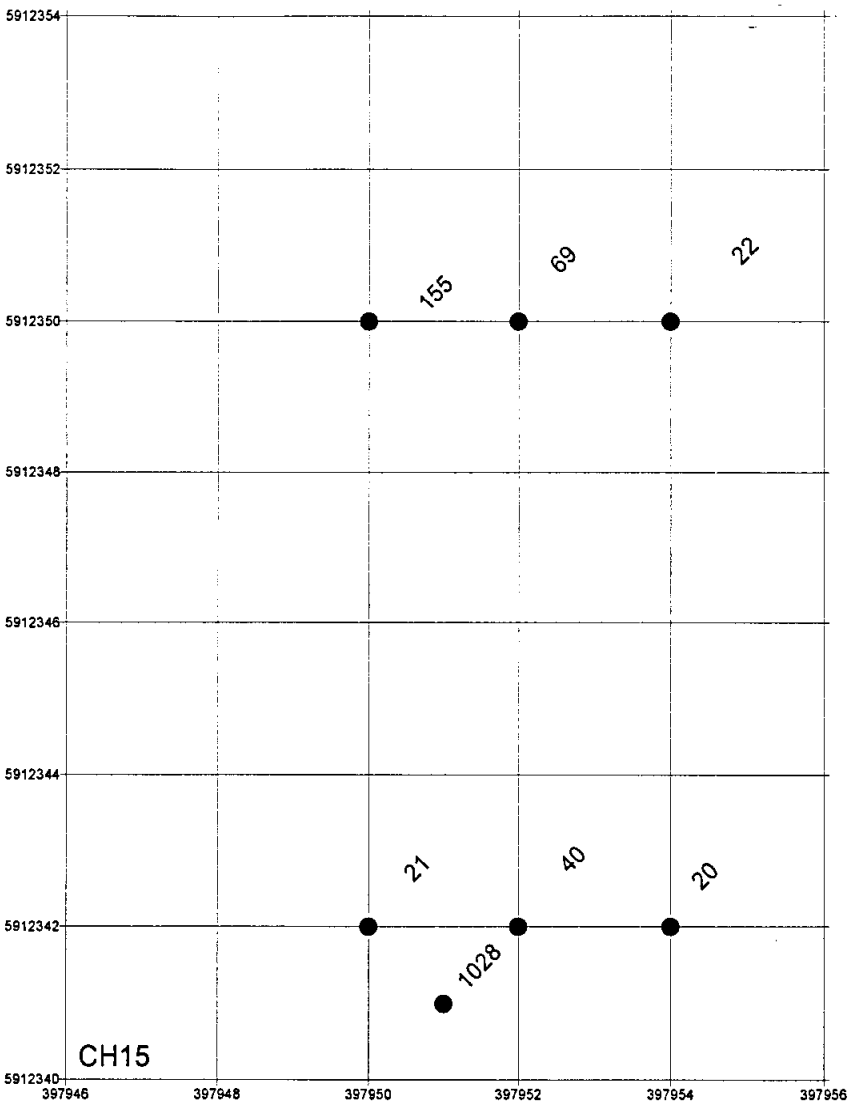


Fig. 5b

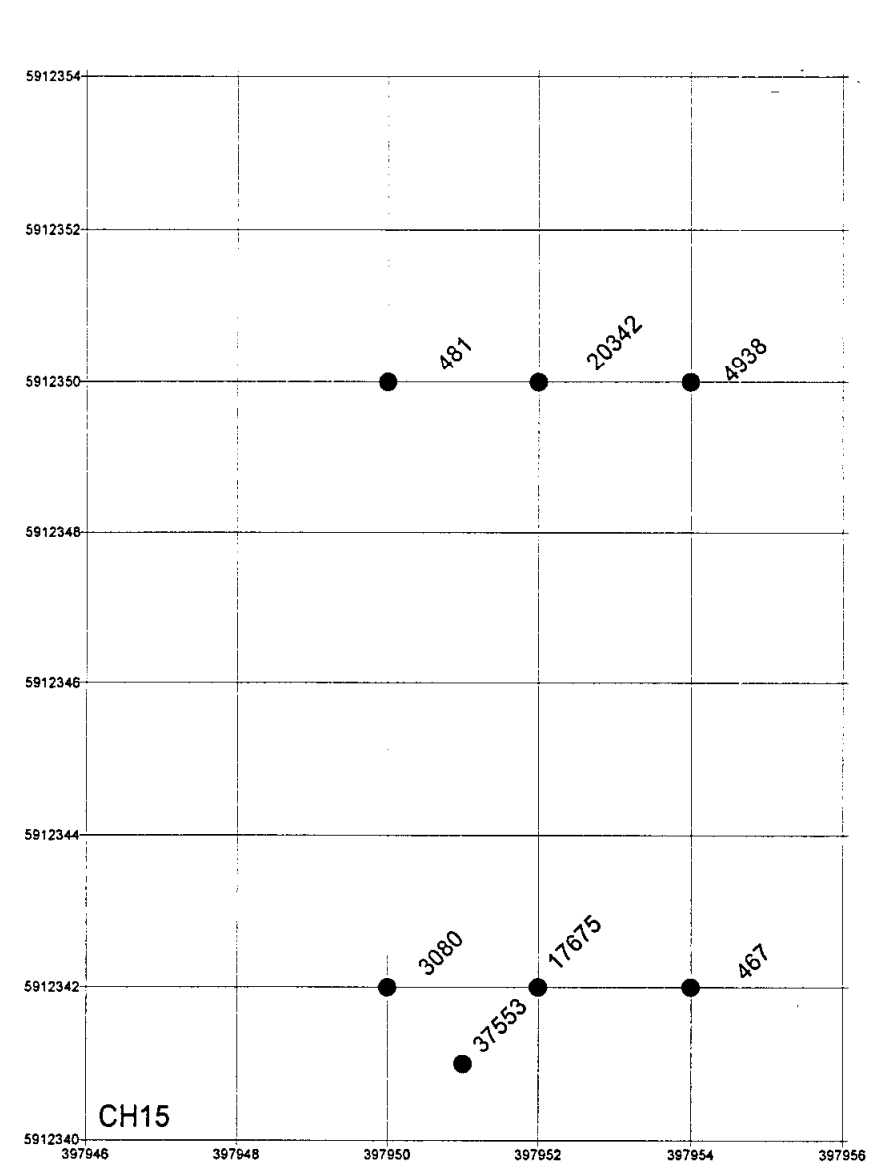
APRIL SHOWING
ROCK SAMPLE GEOCHEMISTRY Pb [ppm]
SCALE: 1:100



Scale Bar [m]

Fig. 5c

APRIL SHOWING
ROCK SAMPLE GEOCHEMISTRY Zn [ppm]
SCALE: 1:100



Scale Bar [m]

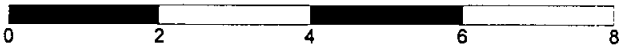
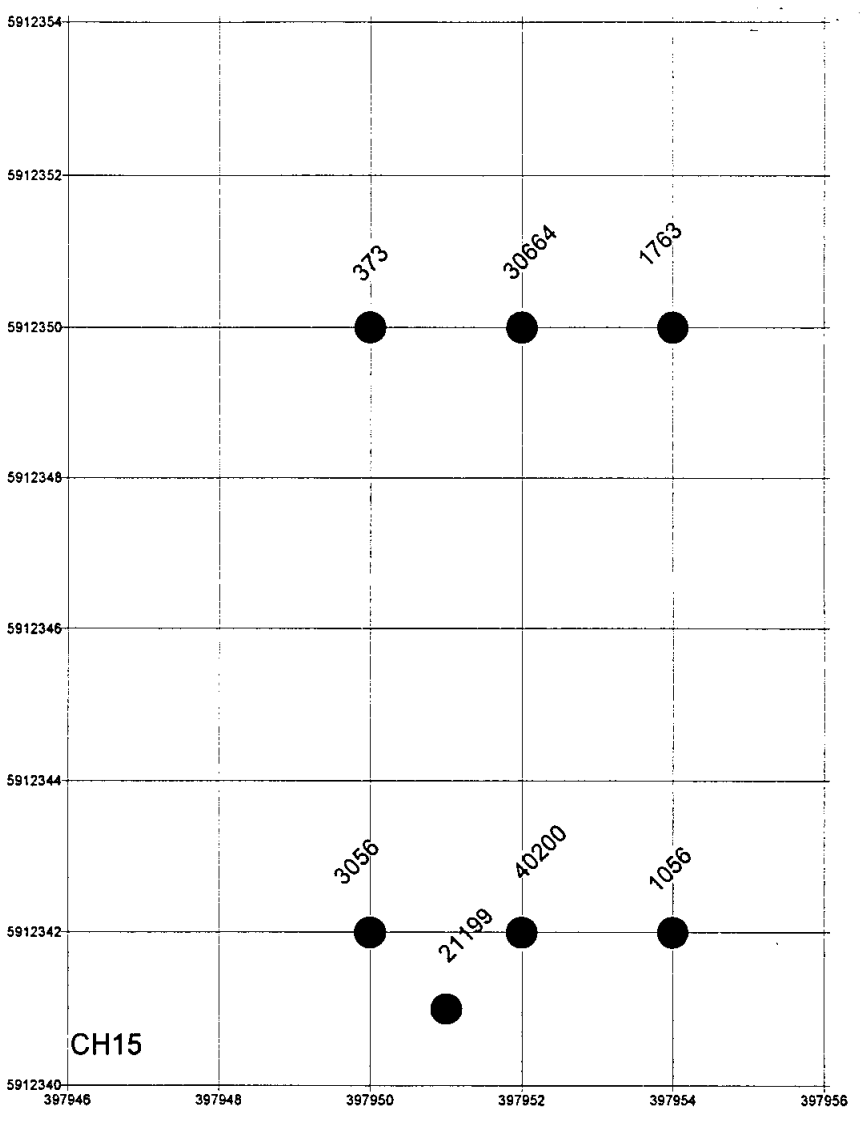


Fig. 5d

APRIL SHOWING
ROCK SAMPLE GEOCHEMISTRY As [ppm]
SCALE: 1:100



Scale Bar [m]

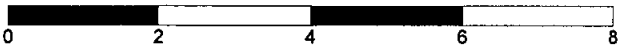


Fig. 5e