

2002 Report on Field Activities for The Regal Ridge Emerald Project

Yukon Territory, Canada

Prepared for

True North Gems Inc.

Prepared by

094410

Bernard E. Gaboury
President, C.O.O.
True North Gems Inc
608-602 West Hastings St.

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This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 50,100.

M. Buck

Regional Manager, Exploration and Geological Services for Commissioner of Yukon Territory.

Costs associated with this report have been approved in the amount of $ 50,100.-
for assessment credit under Certificate of Work No. QL 25604, QL 25650

D. Lead

Mining Recorder
Watson Lake Mining District

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INTRODUCTION

In June 2001, True North Gems Inc. entered into an option agreement with Expatriate Resources Ltd. (EXR.cdnx) to acquire a 50% interest in the Regal Ridge Emerald Property in the Finlayson Lake region, Yukon, Canada. Under the terms of the option agreement, True North was required to incur annual exploration expenditures of $100,000 prior to March 1, 2002 and $250,000 in each of the following years, until Aggregate Expenditures total C$1.1 million and make cash payments totaling $50,000. Renegotiation with Expatriate Resources Ltd. led to the purchase of 100% ownership of the gemstone rights on the property for $300,000 in cash payments plus $200,000 of True North stock when the IPO was launched. Expatriate retains no portion of the gemstone rights and no royalty.

Expatriate discovered the emerald occurrence at Regal Ridge in 1998 while exploring a base metal geochemical soil anomaly. Approximately one kilogram of emerald material was collected from float and outcrop during a two-hour examination within a 30 x 100 meter area.

Follow-up of the discovery in the summer of 1999 demonstrated that the emerald occurrence had size potential. Prospecting and sampling of the area has defined Beryl over an area of 800 x 400 meters. Sampling and processing of subcrop and talus material produced numerous small, gem quality emeralds with excellent colour and clarity. The emeralds identified to that point had been recovered from surface and hand-dug pits where chemical and mechanical weathering may have caused fracturing and alteration. Study of those emerald samples, plus those recovered in the short program in 2001, has confirmed that, in some cases, the recovered gemstones represent crystal fragments and that the potential for the occurrence of large gemstones on the property was excellent.

Field activities in 2001 verified bedrock sources for many of the Emerald-bearing areas reported by Expatriate Resources and identified two additional bedrock sources. It also demonstrated Emerald-bearing potential in veins which were other than horizontal in orientation. Inhomogeneity in the distribution of Emerald mineralization and the effects of frost-shattering prompted the need for underground bulk sampling. This became an objective of the 2002 program.

1.0 PROPERTY, LOCATION AND ACCESS

The property is located in southeastern Yukon at Latitude 61°20°N and longitude 130°32°W on NTS map sheets105G/7 & 8 (Figure 1).

The area covered in this report is located 42 km south of the Robert Campbell Highway and 230 km northeast of Whitehorse in the Pelly Mountains, southeastern Yukon. Supplies have been brought to the Regal Ridge camp via the Robert Campbell Highway from Whitehorse or alternatively by aircraft to the airstrip at Finlayson L.

There is a private, all weather access road from the Robert Campbell Highway at Finlayson Lake south to the Kudz Ze Kayah Deposit. Access to the property was gained by helicopter staged from the Kudz Ze Kayah Deposit or from Finlayson Lake staging area on the Robert Campbell Highway. Heavy equipment and supplies are mobilized into the camp by a winter access trail beginning from the Kudz Ze Kayah camp.

There are no plans currently to establish permanent road access into the property, but the construction of an airstrip to facilitate movement of supplies and personnel has been planned and permitted for.

Access at the work site is accomplished through a system of access roads and trails established in conjunction with trenching and diamond drilling activities.

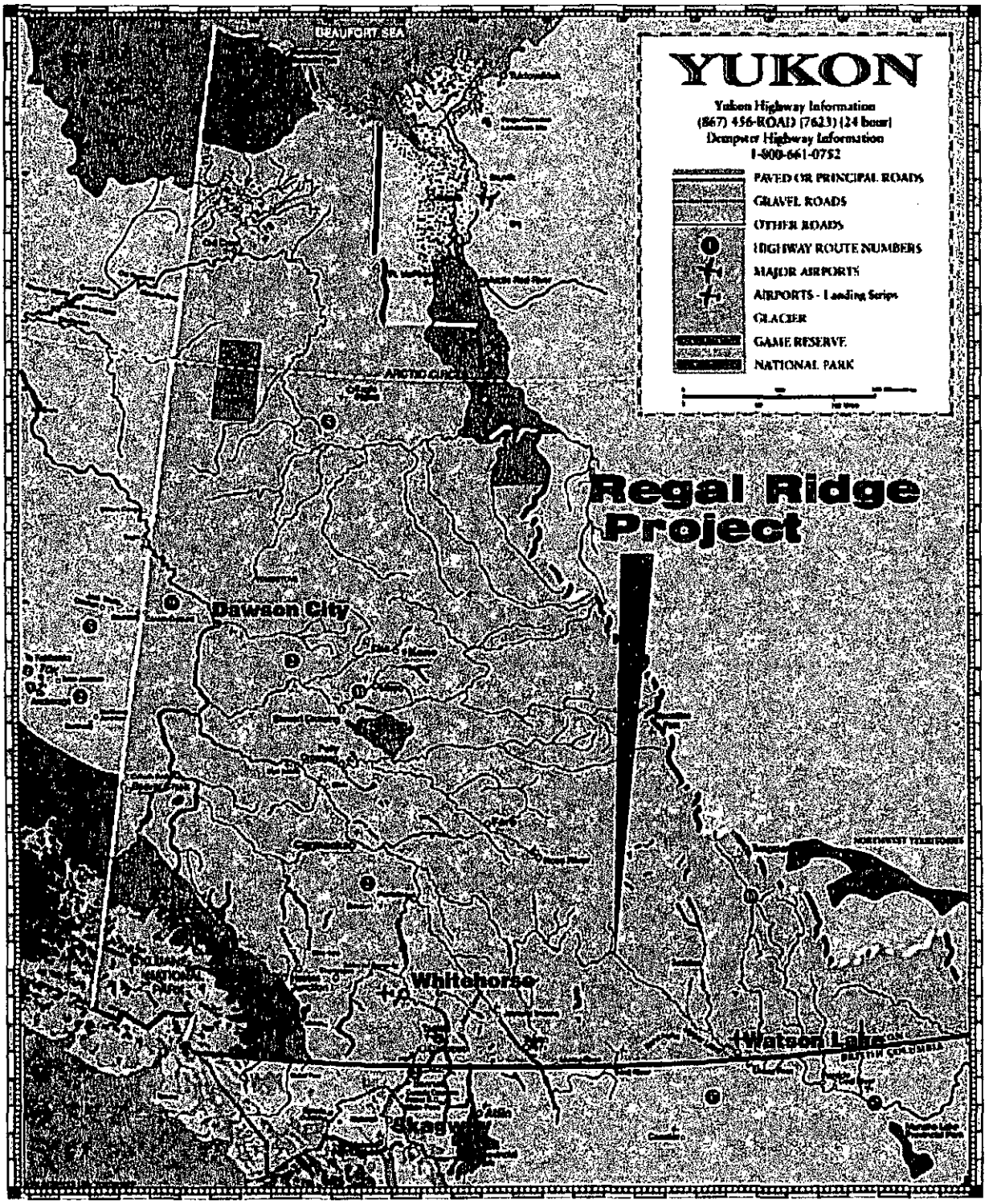


Figure 1 Location Map

1.1 Claims

The original Goal Group acquired from Expatriate Resources Ltd comprised 93 claims. The Group is now composed of 97 claims registered with the Watson Lake Mining Recorder in the name of True North Gems Inc. Claim registration data are listed in Table 1 below.

TABLE 1

Claim Group	Claim Number from	Claim Number to	Number of Claims	Record Number from	Record Number to	Expiry Date	Mining District
Goal	204		1	YB70474		17-March-11	Watson L.
Goal	213	230	18	YB76789	YB76806	17-March-11	Watson L.
Goal	233	250	18	YB76809	YB76826	17-March-11	Watson L.
Goal	252	270	19	YB76828	YB76846	17-March-11	Watson L.
Goal	283	303	21	YB77164	YB77184	17-March-11	Watson L.
Goal	304	319	16	YB76860	YB76875	17-March-11	Watson L.
YIR	2		1	YB93280		17-July-03	Watson L.
SUN	1	3	3	YB93376	YB93378	6-Aug-03	Watson L.
TOTAL			97				

In July of 2001 an additional 108 claims known collectively as the MEG Group were staked over geologically prospective ground. They are located immediately to the west of the GOAL Group on NTS map 105G/7 centered on the UTM coordinates 410000 E and 6796000 N. The relevant claim information is shown below in TABLE 2.

TABLE 2

Claim Group	Claim Number from	Claim Number to	Number of Claims	Record Number from	Record Number to	Expiry Date	Mining District
MEG	1	56	56	YB93395	YB93450	12-Sept-03	Watson L.
MEG	58		1	YB93451		12-Sept-04	Watson L.
MEG	60		1	YB93452		12-Sept-04	Watson L.
MEG	62		1	YB93453		12-Sept-04	Watson L.
MEG	64		1	YB93454		12-Sept-04	Watson L.
MEG	66		1	YB93455		12-Sept-04	Watson L.
MEG	68	74	7	YB93456	YB93462	12-Sept-03	Watson L.
MEG	77	86	10	YB93465	YB93474	12-Sept-04	Watson L.
MEG	87		1	YB93475		12-Sept-03	Watson L.
MEG	88		1	YB93476		12-Sept-04	Watson L.
MEG	89	94	6	YB93477	YB93482	12-Sept-03	Watson L.
MEG	101	122	22	YB93485	YB93506	12-Sept-03	Watson L.
TOTAL			**108**				

In the 2002 field season and the winter of 2003 additional claims were staked on geologically prospective ground. The locations of these groups are depicted in **TABLE3a** and the pertinent recording information is listed in **TABLE 3b**

TABLE 3a

Claim Group	Centered on UTM coordinates		Mining District
	Easting	Northing	
Shine	435,070	6,797,960	Watson L.
Sparkle	434,780	6,805,060	Watson L.
Regannex (RS)	412,400	6,793,390	Watson L.
WWN	441,130	6,841,690	Watson L.
Glitter	429,230	6,801,070	Watson L.
Rusty	414,740	6,803,510	Watson L.
Straw	419,410	6,790,930	Watson L.
Lion	421,890	6,793,570	Watson L.

TABLE 3b

Claim Group	Claim Number from	Claim Number to	Number of Claims	Record Number from	Record Number to	Expiry date
Shine	1	40	40	YB94067	YB94106	8-July-2003
Sparkle	1	86	86	YB93812	YB93897	8-July-2003
RS	1	12	12	YC23346	YC23357	6-Jan-2004
WWN	1	156	156	YC23190	YC23345	6-Jan-2004
Glitter	1	84	84	YB93898	YB93981	8-July-2003
Rusty	1	20	20	YB93772	YB93791	8-July-2003
Straw	1	43	43	YB93671	YB93713	8-July-2003
Lion	1	58	58	YB93714	YB93771	8-July-2003

At the time of writing this report, the Shine, Sparkle, RS, and WWN Groups remain 100% in the possession of True North Gems Inc., while the Glitter, Rusty, Straw, and Lion Groups are under option to other companies.

The claim Groups discussed above are depicted in **FIG 2** in the map pocket accompanying this report.

2.0 GEOMORPHOLOGY

The "Crown Showing" occurs in the rugged terrain of the Pelly Mountains approximately 7 km northwest of Fyre Lake. It occurs entirely within the Liard River Watershed. Elevations on the property range from 1200 m in the river valley bottoms to 1800 m on ridge tops.

"Regal Ridge" itself is a northwest-trending ridge characterized by a steep (maximum angle of repose) north-facing slope with abundant outcrop and a more gently sloping south face with much more talus cover and less outcrop.

Vegetation consists of dense "buckbrush" in the flat, broad river valley bottoms, grading into dense growths of ever more stunted balsam, black spruce and occasional pine on the lower slopes, and eventually dwarf willow, birch, alpine grasses at elevations above 1550 m. The ridge tops only support lichen and very sparse alpine grasses.

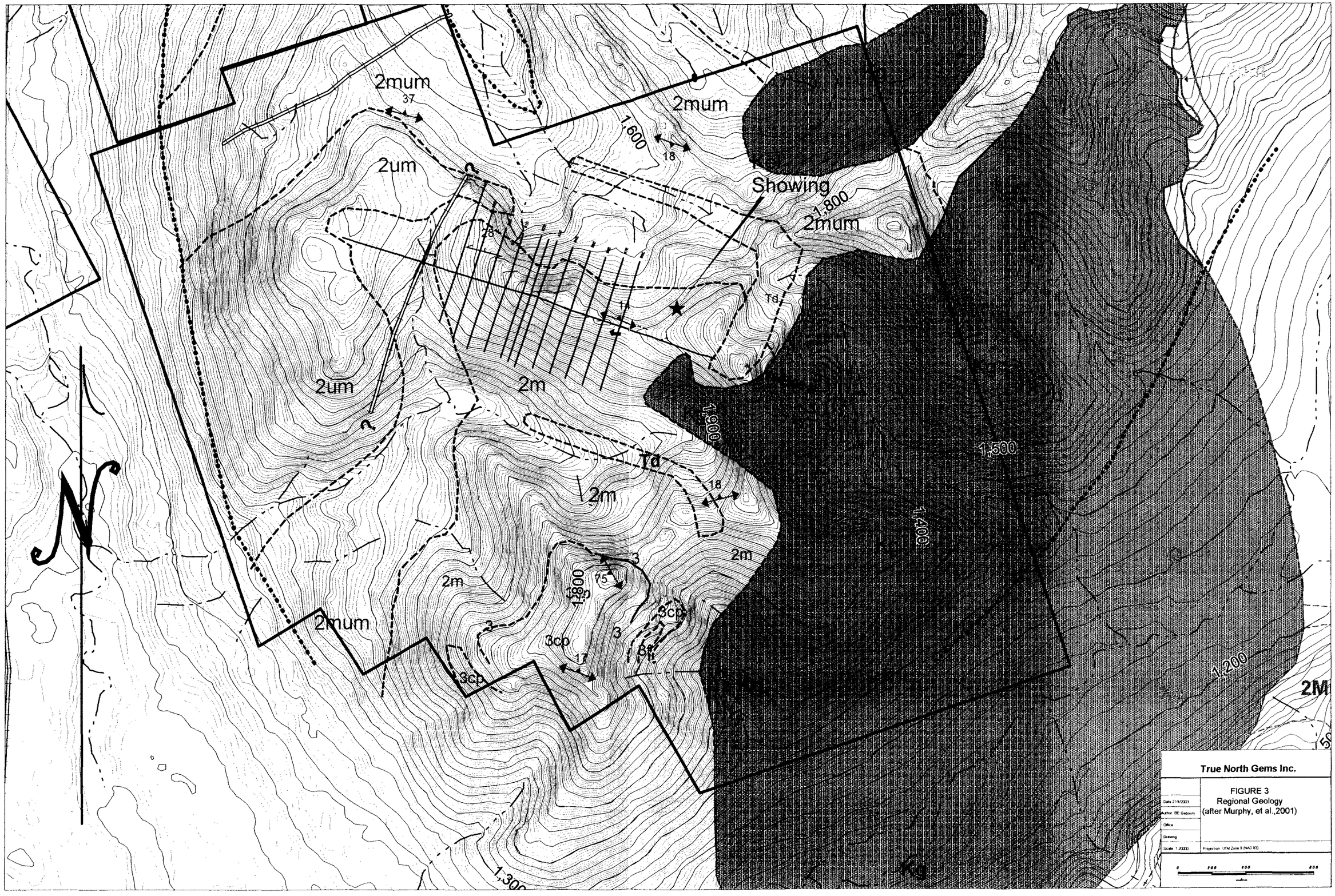
3.0 REGIONAL GEOLOGY

Murphy (1997) has compiled the regional geology underlying the area covered in this report. The main lithotypes involved include Paleozoic metasedimentary and metavolcanic rocks of Murphy's Layered Metamorphic Rocks (LMR) and a variety of intrusive rocks. The pertinent units of Murphy's LMR include members of units 1,2, and 3. These are listed in Table 2, a stratigraphic section for the area, and **Figure 3** is a depiction of the regional geology for the area peripheral to the project area.

The oldest recognized rock in the area is an upper Quartzose metaclastic unit (1qsu) of probably Pre-Mississipian age, which appears to grade upwards into a predominantly Chloritic schist unit with minor intercalations of Quartzite and Phyllites (2m). This in turn is overlain by a felsic to mafic volcanic sequence with minor intercalations of Quartzite and argillaceous Marbles (unit 3). This entire package is intruded by several igneous rocks ranging from Mississipian age (Metagabbros and Metapyroxenite sills of unit 2mum) to Cretaceous (the highly evolved Be-bearing Granitic rocks of unit Kg) and finally Tertiary Feldspar Porphyry dikes (unit Td). Unit 2 of Murphy's LMR hosts Beryl mineralization where Quartz veins cut mica-rich layers. These volcanic rocks of arc-backarc succession include Boninite, low Ti Tholeite, Normal Mid-Ocean Ridge Basalt, and transitional Light Rare Earth Element (LREE)-enriched Tholeite. In the area of the showing, Boninites predominate and overlie a thick wedge of variably serpentinized mafic and ultramafic Meta-plutonic rocks interpreted to be a co-magmatic sill (Murphy, 1998a,b)(Murphy and Piercey, 2001).

The project area falls into the tectonic setting of the Yukon-Tenana terrane, the main body of which lies within the Tintina and Denali Fault Zones. Both of these are northwesterly-trending right lateral faults of large displacement. The Finlayson Lake segment is a lozenge-shaped body on the northeast side of the Tintina Fault Zone, interpreted to be displaced from the main body of the Yukon-Tanana terrane by 450 km of right lateral movement (Hunt,1997).

Murphy's LMR described above has been subjected to two phases of deformation, bringing the rocks to Greenschist to lower Amphibolite facies metamorphism. A near flat-lying foliation subparallel to the compositional layering is the dominant structural fabric. It is related to Phase 1 deformation and is preserved as crenulation cleavage developed parallel to the axial planes of recumbent isoclinal folds. These isoclinal folds manifest themselves in numerous locations in the project area in quartz sweats and silicious horizons. The foliation itself strikes west to northwest and dips gently to the north and northeast. The folds are locally north verging and the axes plunge gently to the west between 5° and 10°. One regional scale fault occurs on the east edge of the project area and juxtaposes the ultramafic unit, 2mum, against the LMR. Smaller scale late stage faults, associated with Quartz ± Tourmaline ± Carbonate veins are widespread in the project area. They commonly exhibit two orientations. One set is steeply dipping striking northwesterly or northeasterly while the other set strikes northeast and is gently northwest dipping. Work done in the project area up to 1999 indicated that only the shallow dipping set had associated Quartz-Tourmaline veins which could produce Beryl mineralization.


2mum
37
2mum
1,600
18
2um
Showing
1,800
2mum
28
Td
2um
2m
1,900
Td
18
2m
1,500
1,400
2m
1,800
75
3
3cp
3cb
17
3
3cp
2mum
3cb
1,300
1,200
2M
N
True North Gems Inc.
FIGURE 3
Regional Geology
(after Murphy, et al.,2001)
Date 2/14/2003
Author BE Geboury
Office
Drawing
Scale 1:20000
Projection UTM Zone 9 (NAD 83)
0
200
400
800

4.0 PREVIOUS WORK

Field activities in 1998 were focused in the vicinity of what are now known as areas 4,9 & 10. Three hand dug trenches encountered chloritic schists with Quartz-Hornblende-Tourmaline veins and sweats, and tan-colored schists.The fabric was found to trend westerly and dip 18° to 40° to the north. Occasional Beryl mineralization was found at vein contacts or in "Hornblende" masses within shear zones. The best "Emerald-Scheelite" mineralization was found to be associated with the intersection of two shear zones. Wengzynowski (1998) reports that the occurrence of Scheelite is structurally controlled, with the best mineralized shears striking between Az070 and Az105 with steep southerly dips. Several of such shears were observed to cross-cut a Gabbro dike in one of the trenches, suggesting a correlation between gabbro dikes and mineralized shears. Pyrite and Chalcopyrite mineralization was occasionally observed within or near the shears and Quartz veining.

The Quartz-Tourmaline veins affiliated with Emerald mineralization appear to be genetically linked to one of the largest bodies of mid-Cretaceous granite in the area (Groat, 2001). This is a zoned pluton which is exposed 600 m to the east of the Emerald Showing. The closest exposed portion appears to be a marginal Muscovite Granite that grades rapidly westward to the more typical reddish-weathering Biotite-Muscovite Granite. Tourmaline is a common accessory mineral present as disseminations and within the Quartz veins which occur within and around the granite.

Emerald exploration became the focus of field activities in 1999. These activities included the establishment of a 1200 X 600 m control grid with 50m square spacings (down to 25 m in crucial areas), followed by talus fines soil sampling and mapping. Beryl- bearing talus fines and bedrock were collected and processed from six occurrences yielding some 5000g of rough green beryl. **Figure 4** is a current geological map of the "Crown Showing".

4.1 Soil Geochemistry

Talus fines collected were originally subjected to sieving at -80 mesh, digested with standard aqua regia leach and analyzed for 32 elements by Induced Coupled Plasma technique. The digestion process for Be and W are partial and so values reported were qualified as being lower than absolute. Due to the insolubility of Beryl by this digestion process, one can not be confident of the detectability of "micro-beryls" in the soil.

Proposed Airstrip

88E

89E

90E

91E

92E

93E

94E

95E

96E

97E

98E

Camp

West zone

2mum

2m

2mum

Lower sump

Trench 05

2mum

pilot millsite

1.5 m dia

True North Gems Inc.

FIGURE4
Geological Map of the
"Crown Showing"

Date 2/14/2003

Author BE Geboury

Office

Drawing

Scale 1:5000

Projection UTM Zone 9 (NAD 83)

0 50 100 200

metres

4.2. *Beryl Mineralization*

By 1999, Emerald and green Beryl crystals had been collected, in bedrock and talus fines, in an area measuring 950 X 350 m. They were found in pods or bands as individual crystals or as crystal aggregates. This area had increased in 2001 to about 1100 meters by 400 meters. The locus of formation of these pods or bands was found to be near the contact of Quartz-Tourmaline veins with the "Golden Schists", or less commonly within the Quartz-Tourmaline veins themselves. Generally the Quartz-Tourmaline veins are surrounded by a yellow coloured zone of sulfate mineralization and a much more extensive, overlapping zone of dark tourmaline crystals which locally contains minor amounts of Scheelite. Unaltered Chlorite Schist was found to be practically devoid of tungsten and only weakly anomalous in Beryllium. The Golden Schist (Muscovite-Tourmaline Schist) on the other hand is reported to be highly anomalous in both.

Electron Microprobe work by Dr. Lee Groat indicated that Chromium is the major contributing chromophore in the Regal Ridge Emeralds, putting them in a unique class shared by Emeralds from Colombia, Pakistan and Africa.

Material collected from six dispersion trains and strongly weathered decomposed bedrock associated with them was processed by wet screening and hand picking. A total of 7 m^3 of material was processed yielding a total of 5,000 grams of green Beryl. Wengzynowski (2000) states that only a tiny portion of the crystals were of gem quality, but it appears that no attempt was made to quantify and grade the material collected from each of these locations.

5.0 SCOPE OF 2001 FIELD ACTIVITIES

5.1 *Mineralization Controls*

The results of the 2001 field activities on the Regal Ridge Emerald Property verified that mineralization occurs where Quartz-Tourmaline veins have penetrated Chromium-bearing chlorite schists and produced the alteration envelope originally termed "rusty schist". 2001 also saw the existence of emerald mineralization associated with veins which were other than horizontal. This lead to the potential for increased potential reserves.

5.2 *Potential Orebody Size*

Earlier estimates of potential orebody size were based on a model involving flat-lying alteration zones containing emerald-bearing quartz-Tourmaline veins. An estimated 1 million tonnes of mineralized material of indeterminant grade potentially existed based on the three exposed rusty schist horizons known to exist prior to 2001. It became apparent in 2001 that in addition to flat-lying mineralized zones, there are inclined emerald-bearing veins between the flat-lying ones. This increases the vein density and also the potential tonnage. There was inadequate evaluation of the inclined vein system in 2001 to estimate its contribution to tonnage potential.

5.3 *2002 Field Season Objectives*

Based on the results of the 2001 field program the following objectives were set as goals to be accomplished or at least initiated in the 2002 field season:

1. Revise Geological model based on findings of 2001.
2. Determine variation in Beryl / Emerald quality
3. extend grid soil sampling program, initiate techniques for detecting beryl-derived beryllium
4. continue test trenching of previous soil anomalies
5. trench previously sampled areas according to priority ranking
6. collect bulk samples for pilot mill testing
7. utilize diamond drilling to verify continuity of emerald-bearing veins

Emerald mineralization appears to vary from area to area. This variation would be correlated to;

1. proximity to the intrusion
2. thickness ± frequency of proximal quartz vein(s)
3. thickness of Golden schist horizon
4. near-by structures (faults, folds, jointing), taking note of their orientation.

It was anticipated that trench material would be processed by screening, followed by a final washing, hand screening and grading. Trenching information would be quantified in such a manner as to allow for a calculation of reserves. This means the recording of mineralized horizon parameters as well as grading of the Beryl / Emerald, so as to arrive at an estimate of value per Tonne-Meter for each vein to be assessed.

6.0 2002 FIELD ACTIVITIES

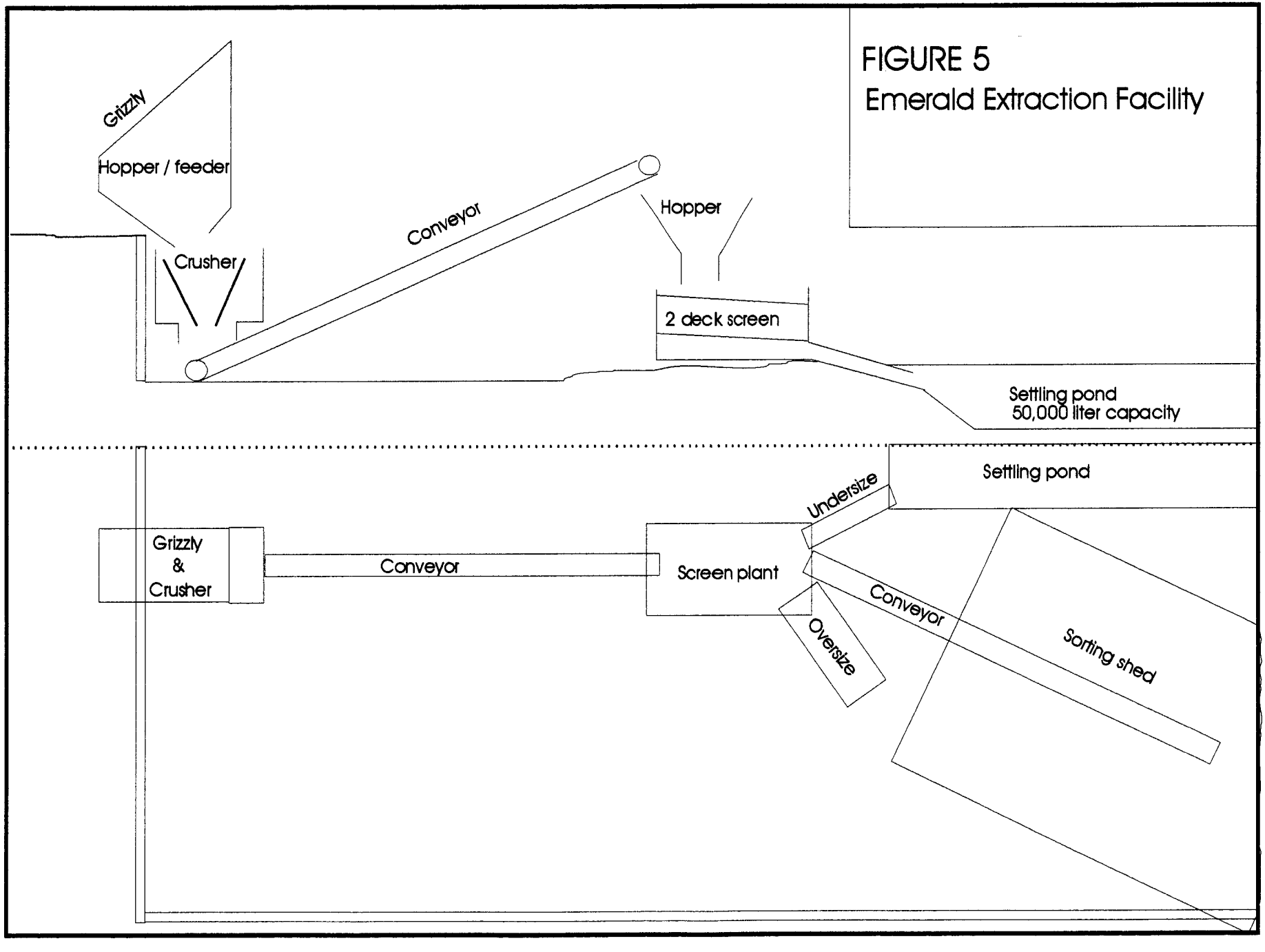
6.1 *Processing Facility, Grid Mapping and Reconnaissance*

Mobilization into camp was initiated by the construction crew on June 15, 2002. Camp construction, refurbishment of the ridge access road and mobilization of equipment to the millsite proceeded for the following week. Reconnaissance geochemistry sampling was initiated within the next few days, on the east section of the grid over the suspected trace of the Cretaceous Granite apophyse. Mapping and prospecting in conjunction with the soil sampling led to the location of Kg granite on line 102 E grid south of ~ 99+50 N. The Granite subcrop varies from Muscovite-rich to Muscovite-depleted with varying amounts of Tourmaline as sprays of acicular crystals. It is bounded by variably Carbonate-altered medium grained Chlorite -Sericite-(Tourmaline) schist. Reconnaissance traverses over other prospective areas of the property, surveying of the existing grid, and millsite construction was also initiated at this time. Millsite construction was completed early in July and the first test sample was processed on July 4th. **Fig 5** is a diagram of the facility constructed to concentrate emerald-bearing material.

6.2 *Area 51, Emerald Extraction Technique*

Trenching in the 2002 field season was initiated between the two Area 51 trenches put in last year. The mineralization encountered last year in a very shallow-dipping Quartz-Tourmaline vein in the easternmost trench was again found along a zone of rusty schist, clay alteration, and Quartz-Tourmaline vein. **Figure 6** is a map of the geology and location of trenches in Area 51. **Figure 7** is an oblique aerial photograph of the same area.

Some moderate difficulty was met in the way of permafrost in the clay alteration zones. The plan of attack was to uncover the vein (which dips to the northwest in the same direction as the fabric) at the point at which it penetrates the side of the hill. The vein is uncovered in profile, as such, so as to be mapped and parameters recorded along its strikelength. Bulk samples were then collected by mechanically removing the overlying waste rock to within 30 cm of the alteration envelope of the Quartz Tourmaline vein. The vein would then be carefully lifted with the track-hoe and overturned for visual examination. If Emerald was observed the vein material was hand-cobbed. As the sample is collected the physical parameters of the vein are recorded, i.e. width, thickness, and length. The material containing no visible traces of Beryl was then loaded onto a dump truck and transported to the millsite.


FIGURE 5
Emerald Extraction Facility
Grizzly
Hopper / feeder
Crusher
Conveyor
Hopper
2 deck screen
Settling pond
50,000 liter capacity
Settling pond
Undersize
Grizzly
&
Crusher
Conveyor
Screen plant
Conveyor
Oversize
Sorting shed

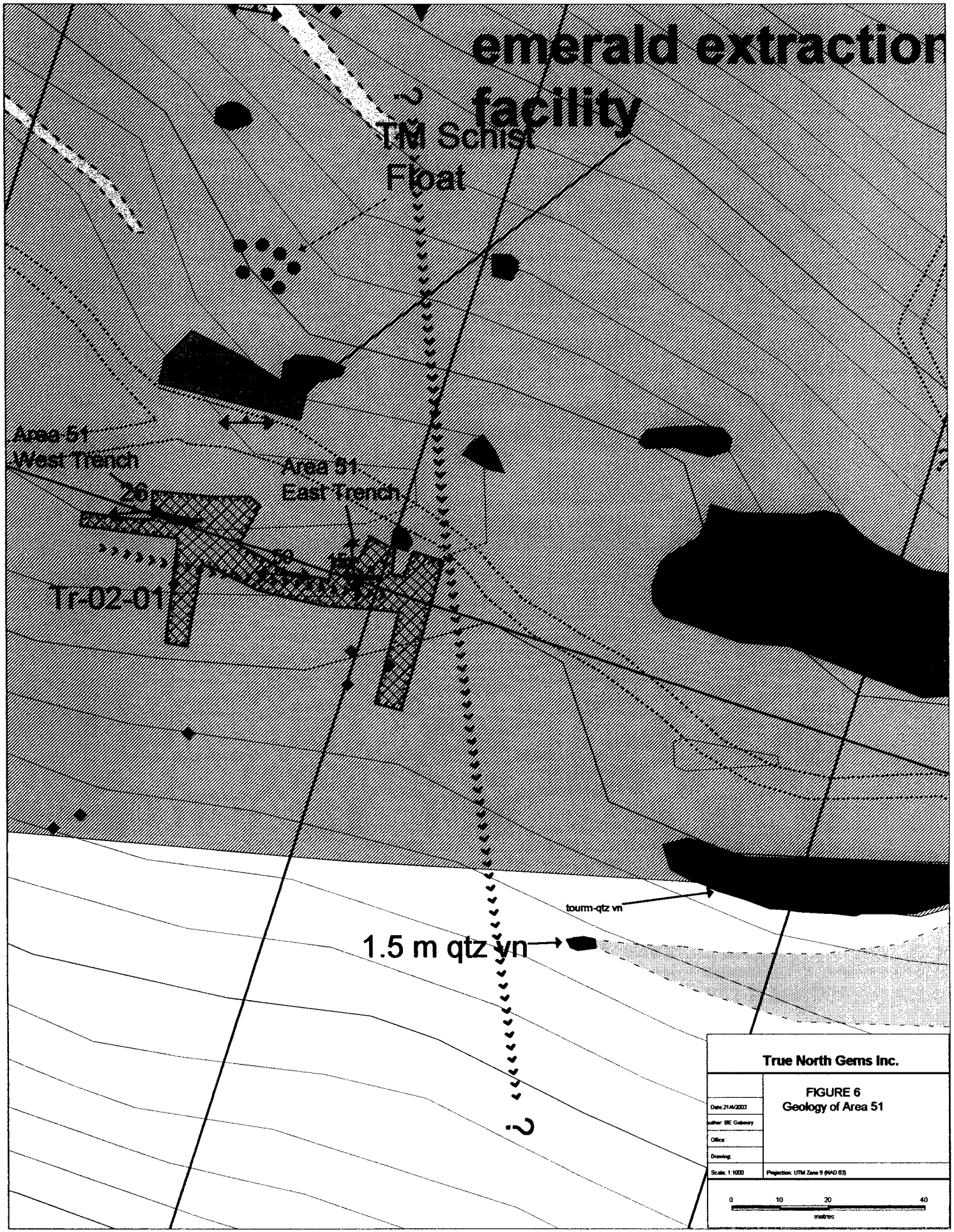

emerald extraction
facility
TM Schist
Float
Area 51
West Trench
Area 51
East Trench
26
Tr-02-01
tourm-qtz vn
1.5 m qtz vn
True North Gems Inc.
FIGURE 6
Geology of Area 51
Date: 21/4/2003
Author: BE Gaboury
Office:
Drawing:
Scale: 1:1000
Projection: UTM Zone 9 (NAD 83)
0
10
20
40
metres



FIGURE 7 Oblique aerial view of Area 51

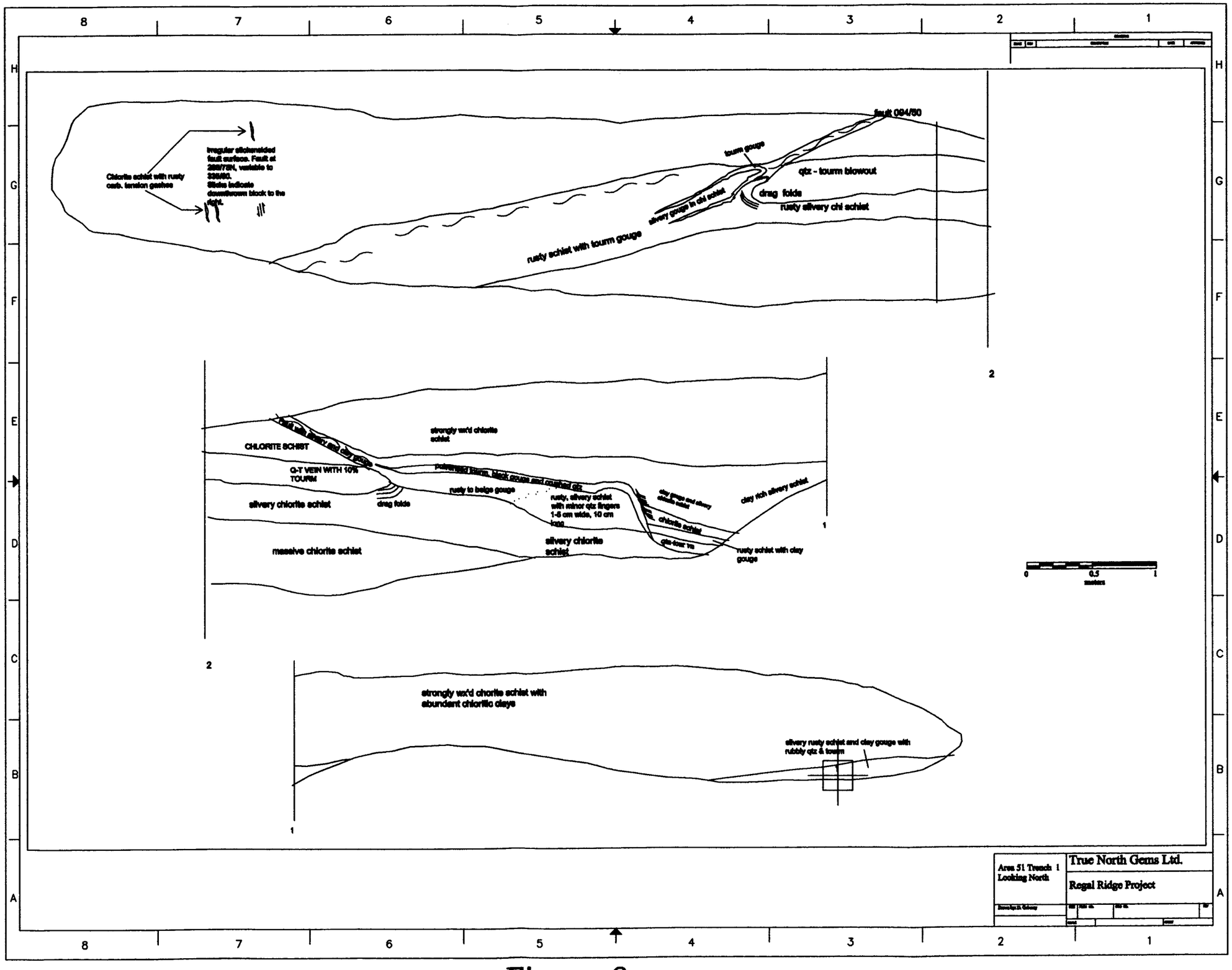

fault 094/50
tourm gouge
qtz - tourm blowout
drag folde
rusty silvery chl schist
silvery gouge in chl schist
rusty schist with tourm gouge
Chlorite schist with rusty carb. tension gashes
Irregular slickensided fault surface. Fault at 288/72N, variable to 338/80. Slicks indicate downthrown block to the right.
2
strongly wx'd chlorite schist
CHLORITE SCHIST
Q-T VEIN WITH 10% TOURM
silvery chlorite schist
drag folde
rusty to beige gouge
rusty, silvery schist with minor qtz fingers 1-5 cm wide, 10 cm long
clay rich silvery schist
chlorite schist
massive chlorite schist
silvery chlorite schist
rusty schist with clay gouge
1
0
0.5
1
meters
2
strongly wx'd chlorite schist with abundant chloritic clays
silvery rusty schist and clay gouge with rubbly qtz & tourm
1
Area 51 Trench 1 Looking North
True North Gems Ltd.
Regal Ridge Project

Figure 8a

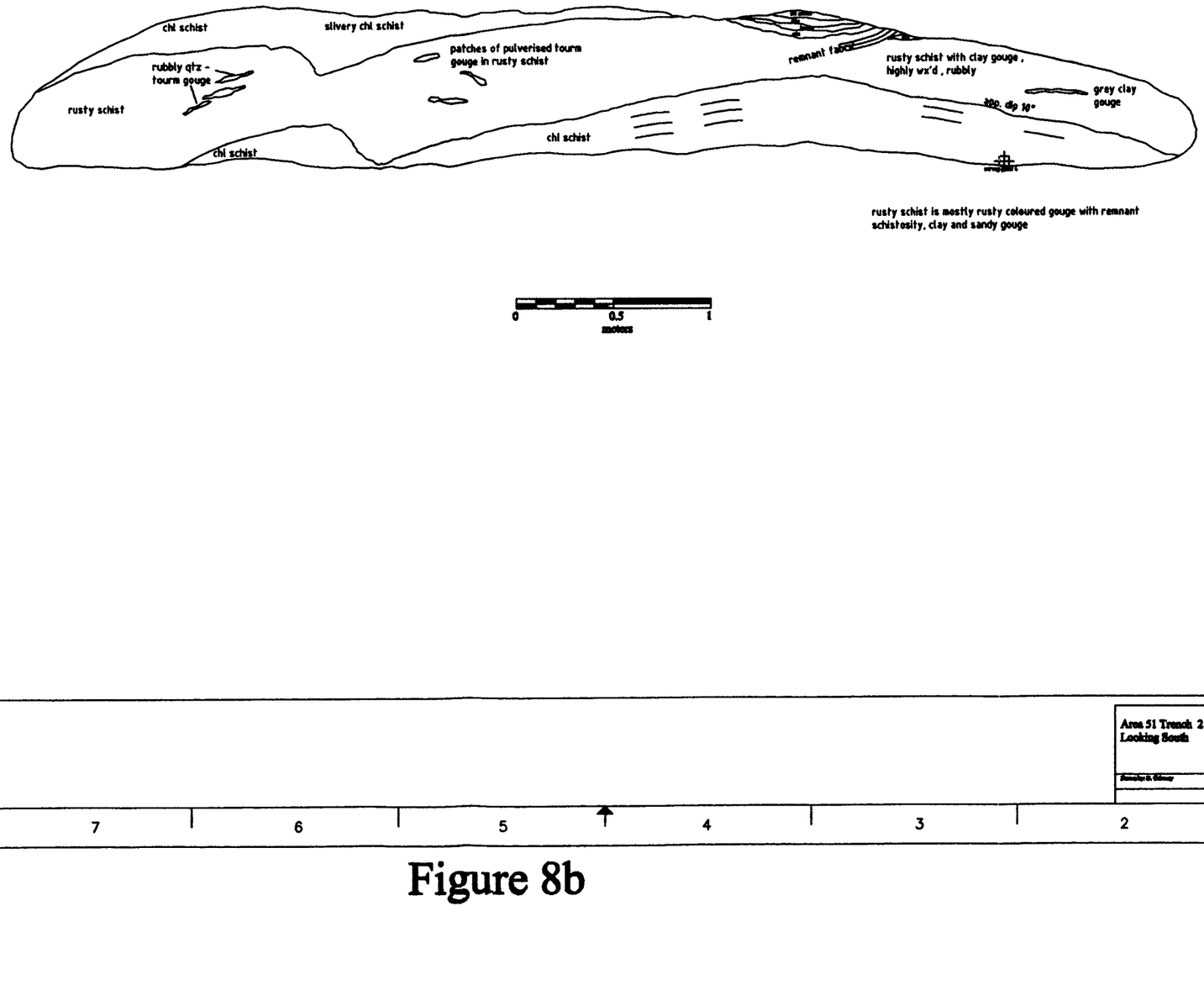

chl schist
silvery chl schist
patches of pulverised tourm gouge in rusty schist
rubbly qtz - tourm gouge
rusty schist
chl schist
chl schist
remnant fabric
rusty schist with clay gouge , highly wx'd , rubbly
grey clay gouge
approx. dip 30°
rusty schist is mostly rusty coloured gouge with remnant schistosity, clay and sandy gouge
0
0.5
1
metres
Area 51 Trench 2 Looking South
True North Gems Ltd.
Regal Ridge Project

Figure 8b

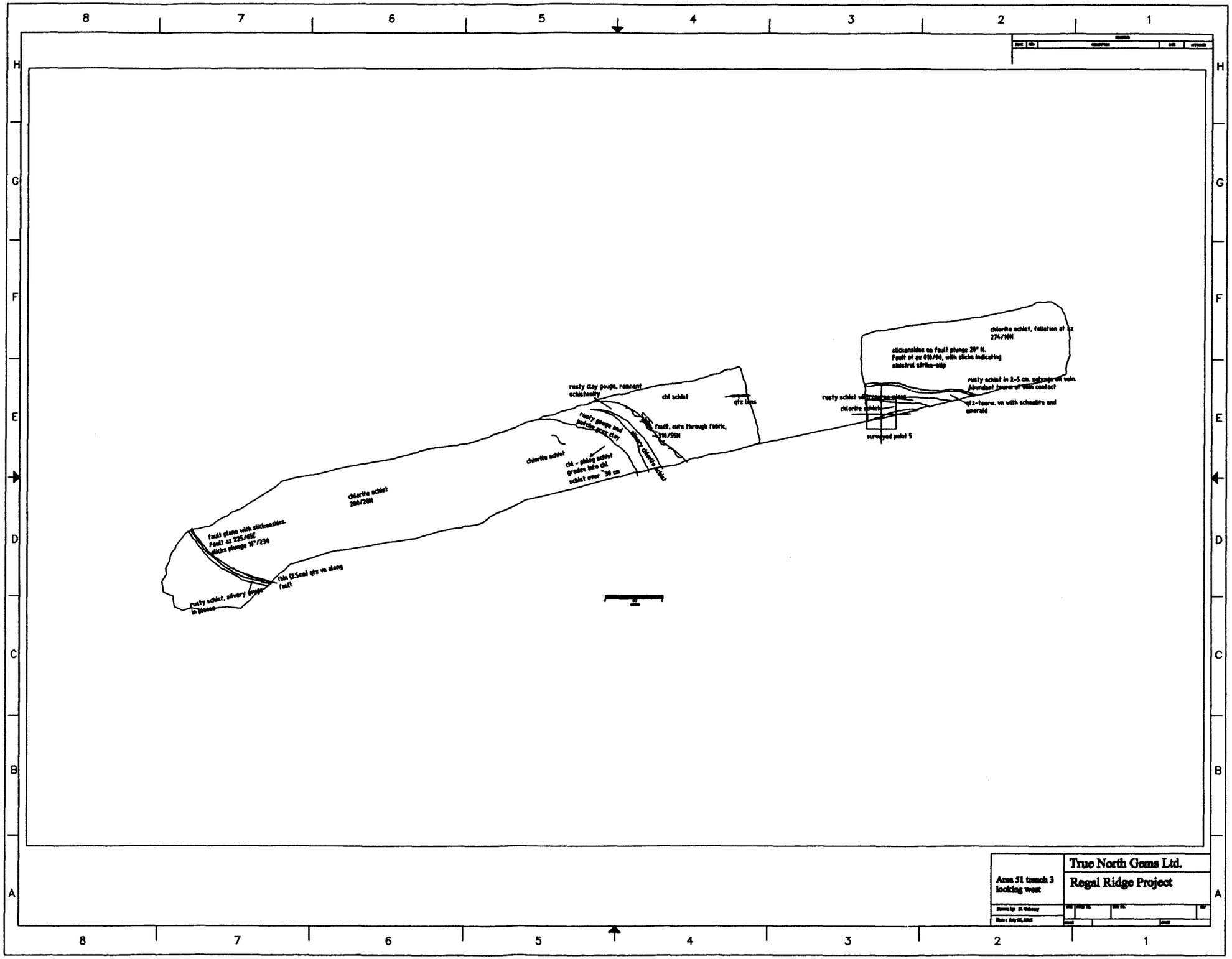
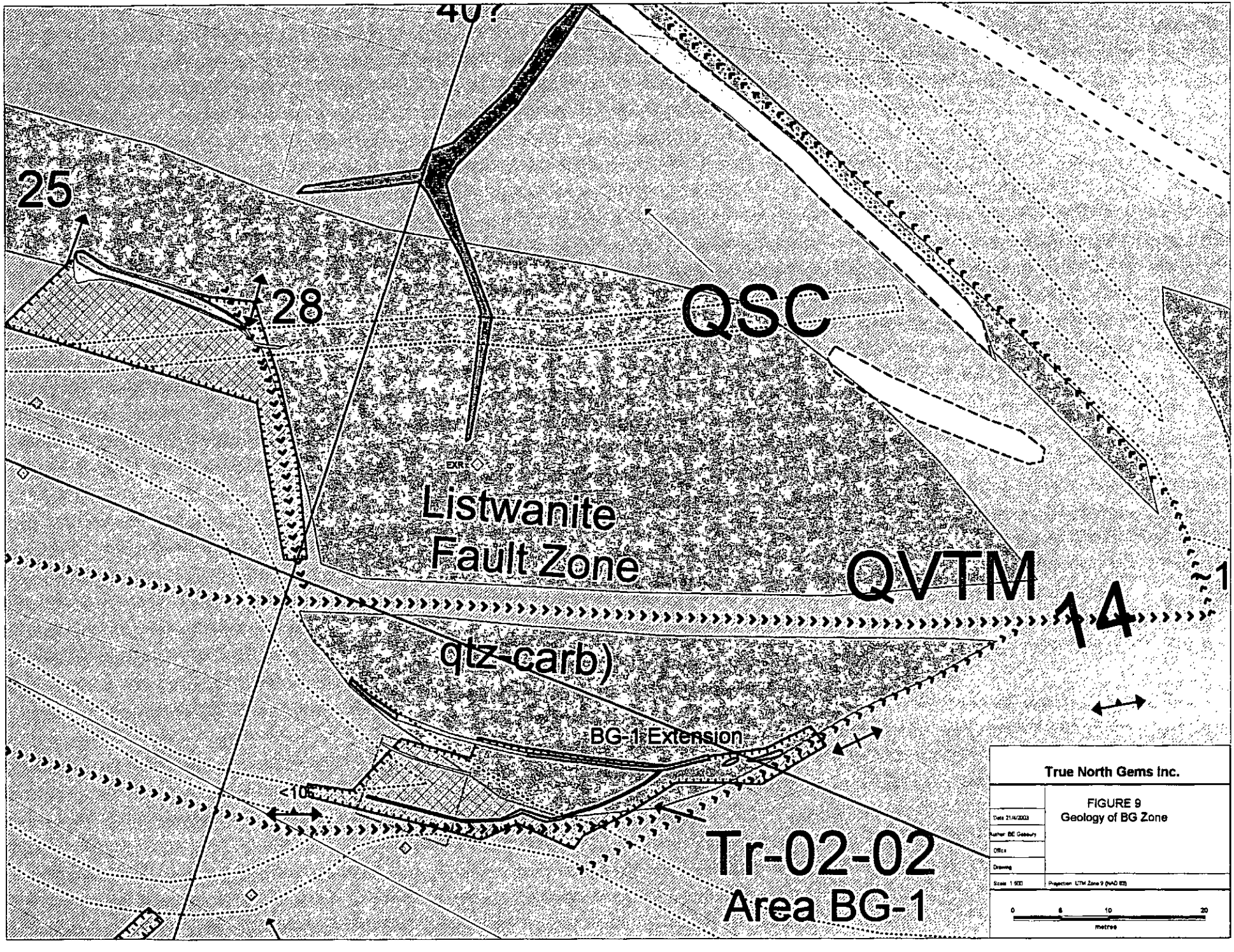

chlorite schist, foliation at qz
274/16N
slickensides on fault plunge 29° N.
Fault at ca 010/90, with slicks indicating
sinistral strike-slip
rusty schist in 2-5 cm. selvage on vein.
Abundant fuchsite on vein contact
qtz-fuchs. vn with schoelite and
emerald
rusty schist with
chlorite schist
surveyed point 5
rusty clay gouge, remnant
schistosity
chl schist
qtz lens
fault, cuts through fabric,
~310/55W
chlorite schist
chl - phlog schist
grades into chl
schist over ~30 cm
chlorite schist
288/78W
fault plane with slickensides.
Fault at 225/65E
slicks plunge W°/23d
thin (2.5cm) qtz vn along
fault
rusty schist, slivery gouge
in places
Area 51 trench 3
looking west
True North Gems Ltd.
Regal Ridge Project

Figure 8c


40?
25
28
QSC
EXR
Listwanite
Fault Zone
QVTM
14
qtz-carb)
BG-1 Extension
<10
Tr-02-02
Area BG-1
True North Gems Inc.
FIGURE 9
Geology of BG Zone
Date 21/4/2003
Author BE Cassidy
Office
Drawing
Scale 1:500
Projection UTM Zone 9 (NAD 83)
0
5
10
20
metres

The vein material was loaded into the crusher hopper at the processing facility via a 15 cm grizzly. The crusher was set to crush to approximately -20 mm. It was found that due to the friable nature of the Chlorite schist, it would break into considerably larger "flagstone-like" pieces whereas the vein material and altered schist broke into smaller equant pieces. The Emerald-bearing material was collected manually from a slow-moving conveyor belt, and placed in 5 gallon plastic buckets which were transported down to the campsite where a crude initial separation of the Emerald was made in preparation for shipping to the Vancouver processing lab.

Mapping and prospecting in the area to the SE of Area 51, led to the discovery of Chlorite-Sericite-Tourmaline schist with a Tourmaline-Quartz vein near the break of slope at the base. Below this and to the east is a wide expanse of Muscouvite Granite, Pegmatite, and Quartz-Tourmaline boulders. This is lithologically identical to the north side of the ridge near the top of the access road where a dike of Cretaceous Granite cuts through the chlorite schists producing the rusty alteration envelope very similar to those observed peripheral to many of the Emerald-bearing Quartz-Tourmaline veins throughout the regal Ridge occurrence. Both areas show the same development from a moderately foliated Muscovite Granite to Muscovite-bearing Pegmatite to Quartz-Tourmaline veins. Area 51 trench maps are depicted in **Figs 8a, 8b, 8c, and 8d**.

Emerald-bearing vein material was again encountered in the east trench and in a separate vein in the west trench as well. Although both veins dip gently to the west, they dip at different angles and are not colinear. The vein in the east trench was found to be truncated by a high angle west-trending fault. Evidence was discovered in the trenching on the south side of the displacing fault for a continuation of the east vein downslope to the southwest toward a Beryllium-Tungsten soil anomaly that has yet to be investigated. Bulk samples of Emerald-bearing material was extracted from each of these veins and processed through the mill. Bulk sample data are summarized later in **Table 5**.

6.3 BG-1 Zone

Trenching was re-initiated on the Quartz-Tourmaline vein discovered in the BG-1 zone last year. **Figure 9** is a map of the geology and location of trenches in the BG-1 Zone. An appreciable amount of Emerald mineralization was encountered, some of which is almost identical to Area 51 material. The vein is ~ 8-10 cm thick where it was originally found, but upon exposing it westward it is found to swell to at least 40 cm thick. It is enveloped by rusty schist and there are at least two other rusty schist horizons in the immediate 2 meters of footwall schist. Its attitude is about 20 degrees to the west in the thinner emerald-bearing portion uncovered originally in the 2001 field season, but it flattens to horizontal in the thickened portion to the immediate west. Immediately below the horizontal portion of the vein is a near horizontal shear zone similar to the "listwanite fault zone" which occurs

above and to the north of the BG Zone. **Figure 10** is an oblique aerial photograph of the portion of the main BG-1 vein where it ramps up from this basal thrust zone. **Figure 11** is a map of the BG-1 trenches.

Trenching of the BG-1 zone (discovered in the 2001 field season) has indicated that Quartz-Tourmaline veins can exhibit any orientation and that mineralization is enhanced at the intersection of veins. Two bulk samples were collected from the BG-1 vein. Emerald-bearing material was also collected from the point of intersection of the BG-1 vein and a near vertical Quartz-Tourmaline vein to the immediate north of the original BG-1 trench. Several Quartz-Tourmaline veins with coarse mica selvages occur in this area. They are oriented shallowly west-dipping to near-horizontal. The mineralization encountered at the BG-1 extension represents one of these situations. It is becoming increasingly more apparent that mineralization can be found associated with Quartz-Tourmaline veins with any attitude. The more important indicator of Emerald productivity, again, seems to be the presence of coarse Muscovite and Biotite (Phlogopite) in vein selvages.plus the presence of biotite / muscovite and pervasive tourmalinization within the host schist.

6.4 Area 14

Figure 12 is a geological map of Area 14. Trenching was also carried out in Area 14. This area contains a reasonably thick package of altered schist and several Quartz-Tourmaline veins. This area was detail mapped and a bulk sample extracted and processed from a well mineralized, basal, Muscovite-bearing Quartz-Tourmaline vein. **Figure 13** is a map of the Area 14 trenches and **Figure 14** is an oblique aerial photograph of the same area. Structural analysis indicates that this zone projects 10 degrees down plunge at Az 320 toward Area 4 on the north-facing slope. Stripping and mapping of a broader portion of Area 4 has verified this. A bulk sample was extracted from what appeared to be non-mineralized material. Subsequent processing through the mill produced Emerald. A total of 5 drillholes totaling approximately 1300 feet were drilled to test the continuity of the zone between Area 4 and Area 14. The continuity has been verified as was the Emerald-bearing potential, based on peripheral alteration.

6.5 Southwest Zone

Pegmatitic float, similar to that found in the vicinity of the Granitic dike near Area 51, was also found in the area to the south and downslope of the western-most trench dug in 2001. The existence of Emerald-bearing material reported by EXR in this area was verified and new material found. As a result, detail boulder prospecting was initiated in this area. Emerald-bearing samples collected in the detail prospecting were processed back at the campsite by assessing colour, max

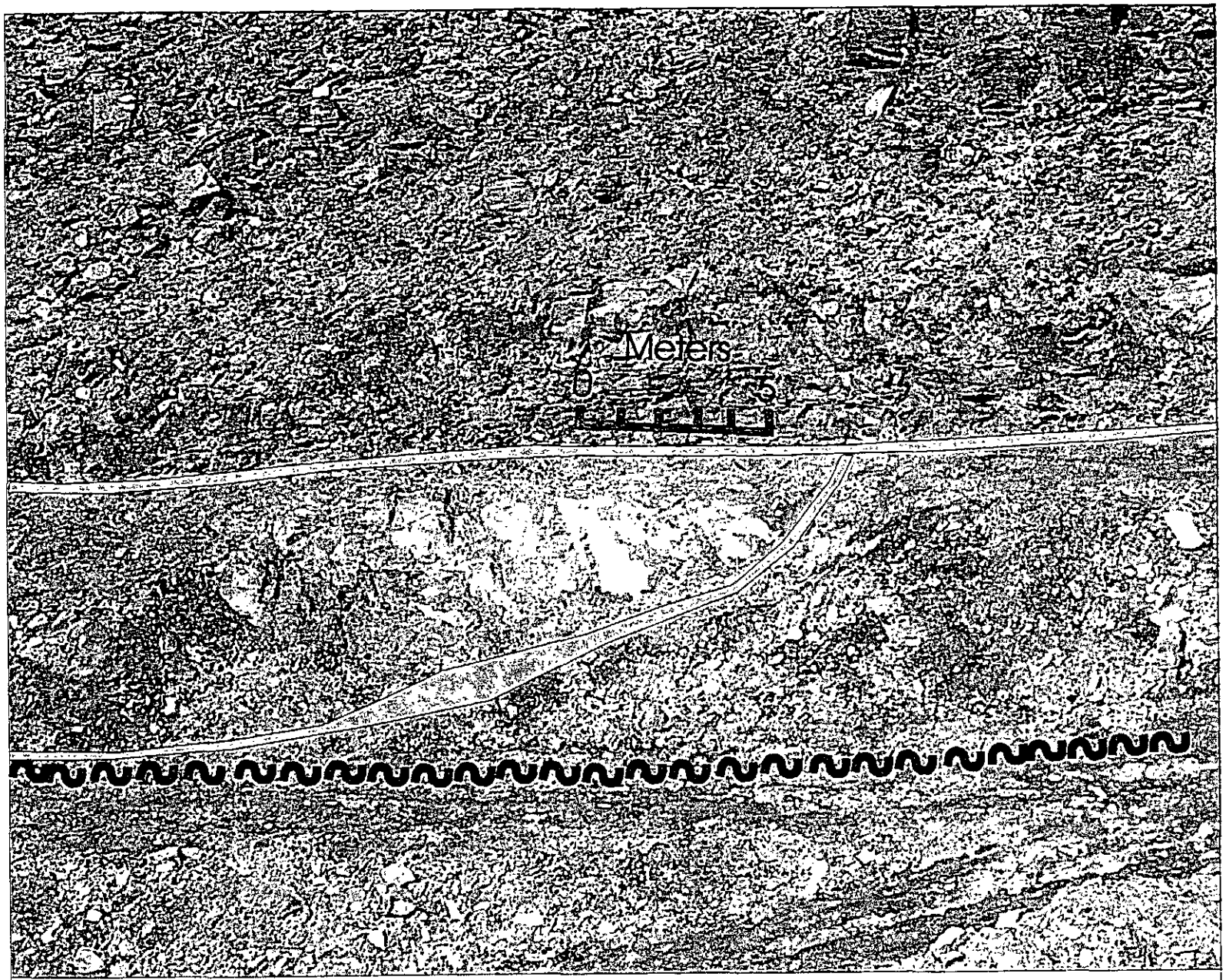
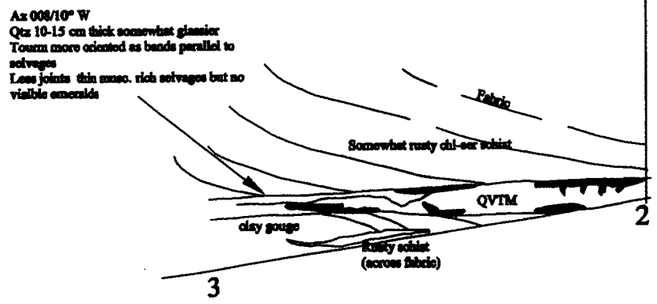
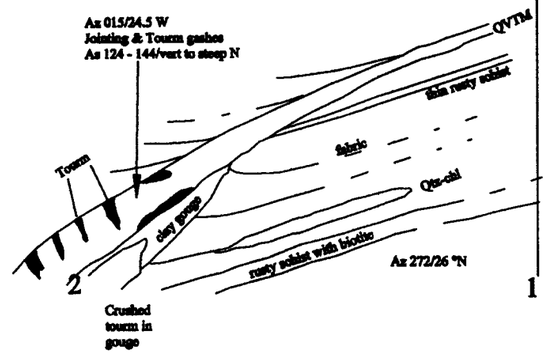


FIGURE 10 Oblique aerial view of the BG-1 Vein

North wall - trends Az 070°



N wall

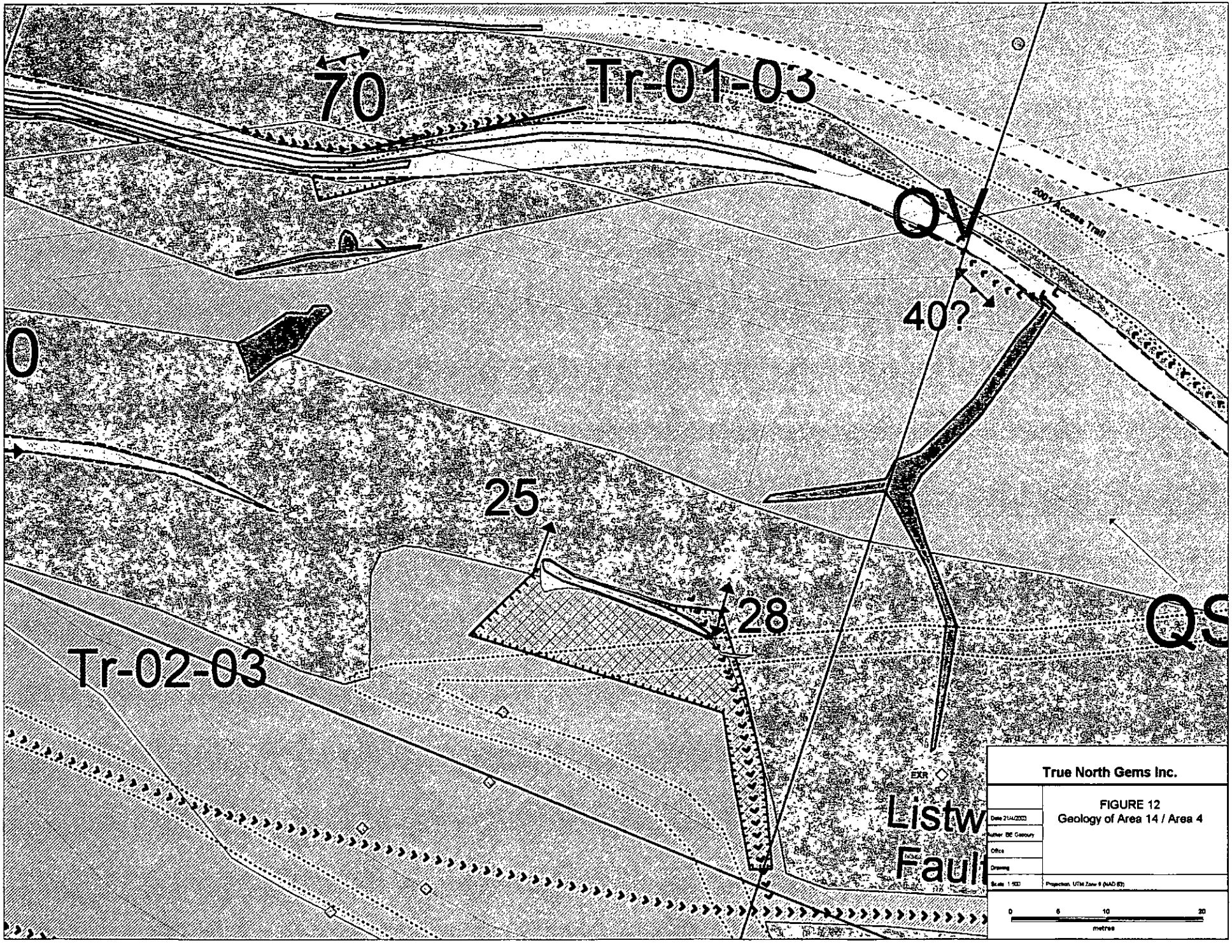


BG-1 zone Trench North wall

True North Gems Ltd.

Regal Ridge Project

Figure 11


70
Tr-01-03
QV
2001 Access Trail
40?
O
25
28
Tr-02-03
QS
EXR
Listw
Fault
True North Gems Inc.
FIGURE 12
Geology of Area 14 / Area 4
Date 2/14/2003
Author BE Gasbury
Office
Drawing
Scale 1:500
Projection: UTM Zone 9 (NAD 83)
0
5
10
20
metres

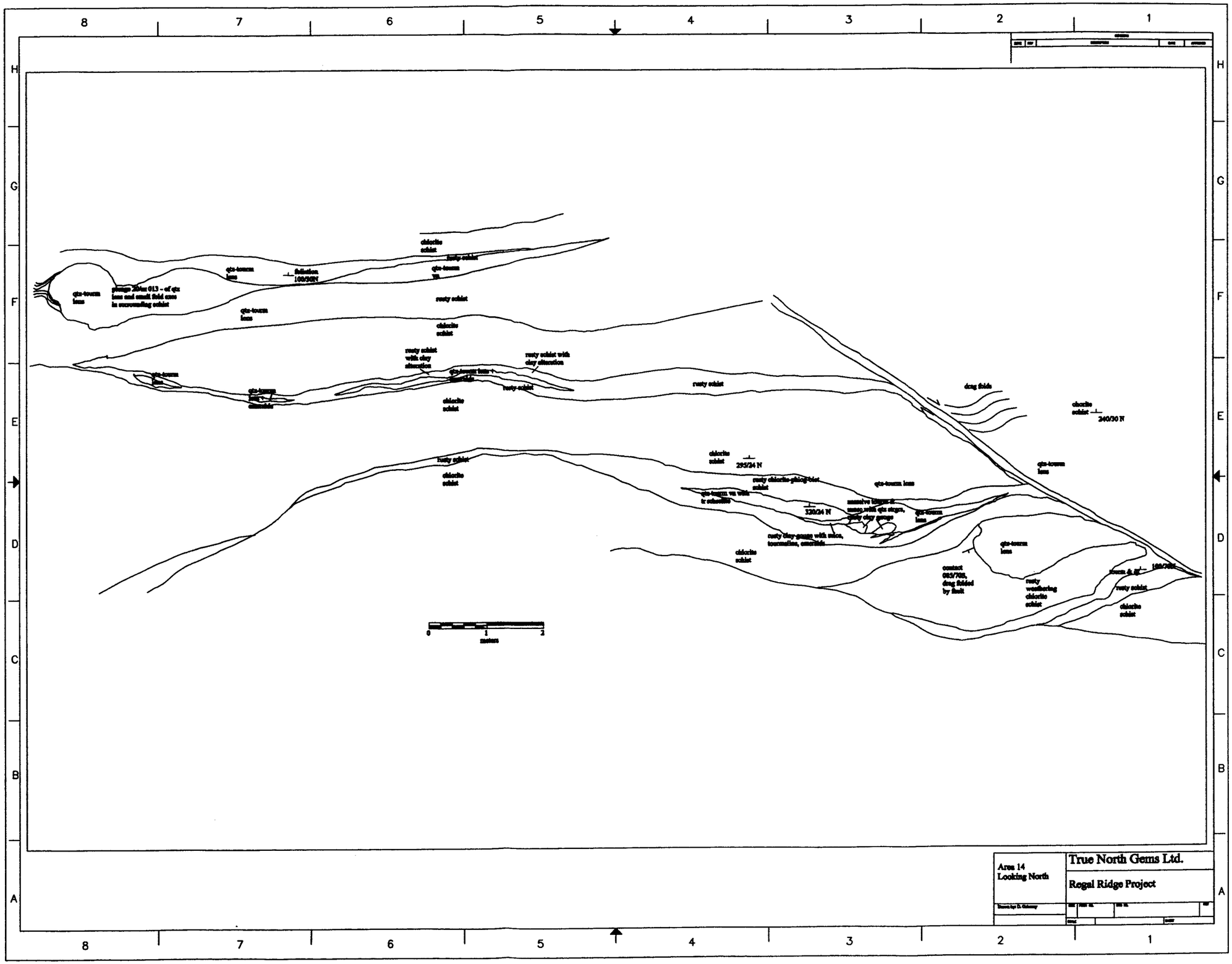

8
7
6
5
4
3
2
1
H
G
F
E
D
C
B
A
qtz-tourm lens
chlorite schist
rusty schist
qtz-tourm vn
foliation 100/30W
rusty schist with clay alteration
drag folds
chlorite schist 240/30 W
chlorite schist 295/24 W
rusty chlorite-phlog-bist
qtz-tourm vn with tr sulfides
320/24 W
massive blocks of quartz with qtz stkgwk, rusty clay gouge
rusty clay gouge with micas, tourmaline, emeralds
contact 085/70S, drag folded by fault
rusty weathering chlorite schist
0
1
2
meters
Area 14
Looking North
True North Gems Ltd.
Regal Ridge Project

Figure 13

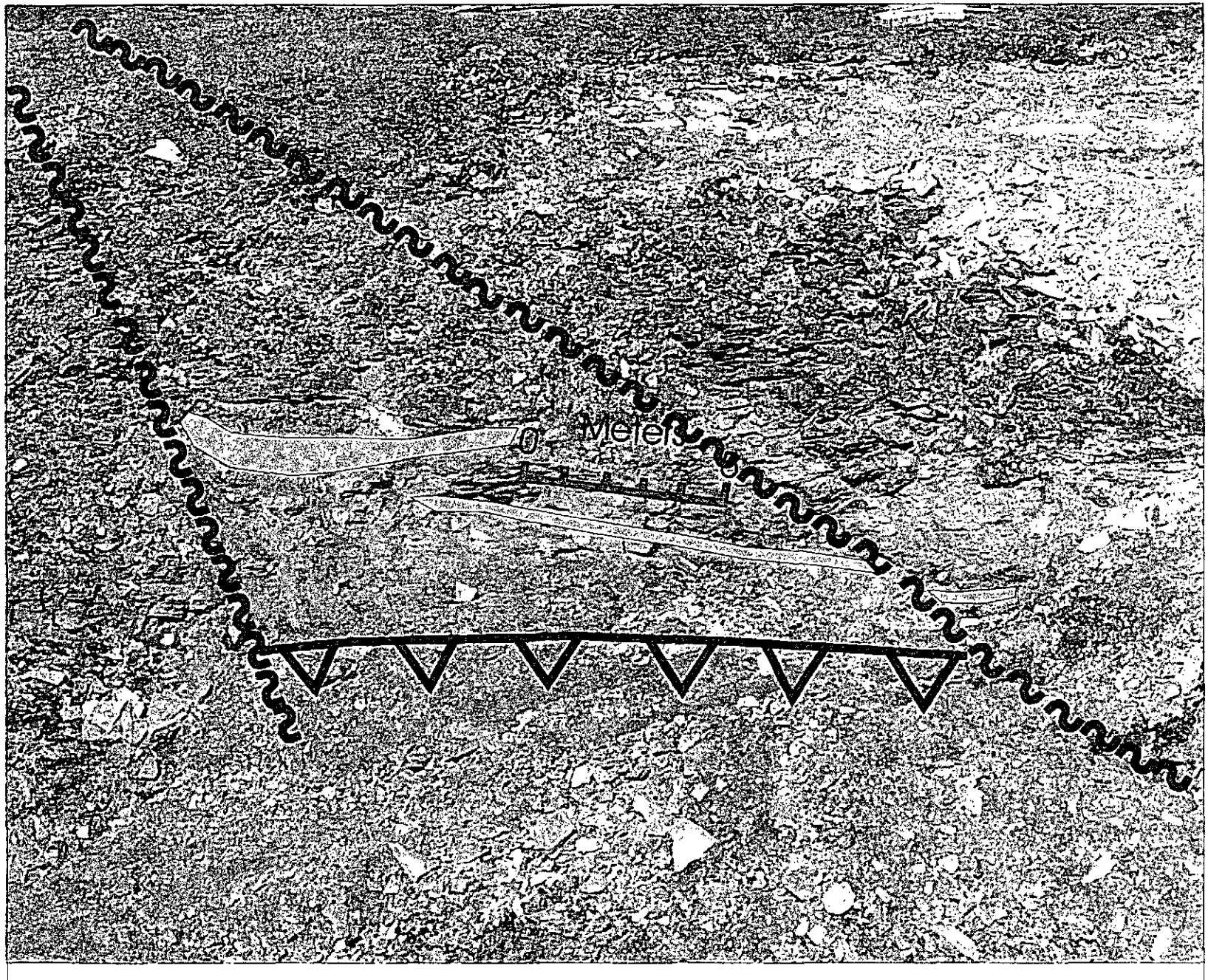


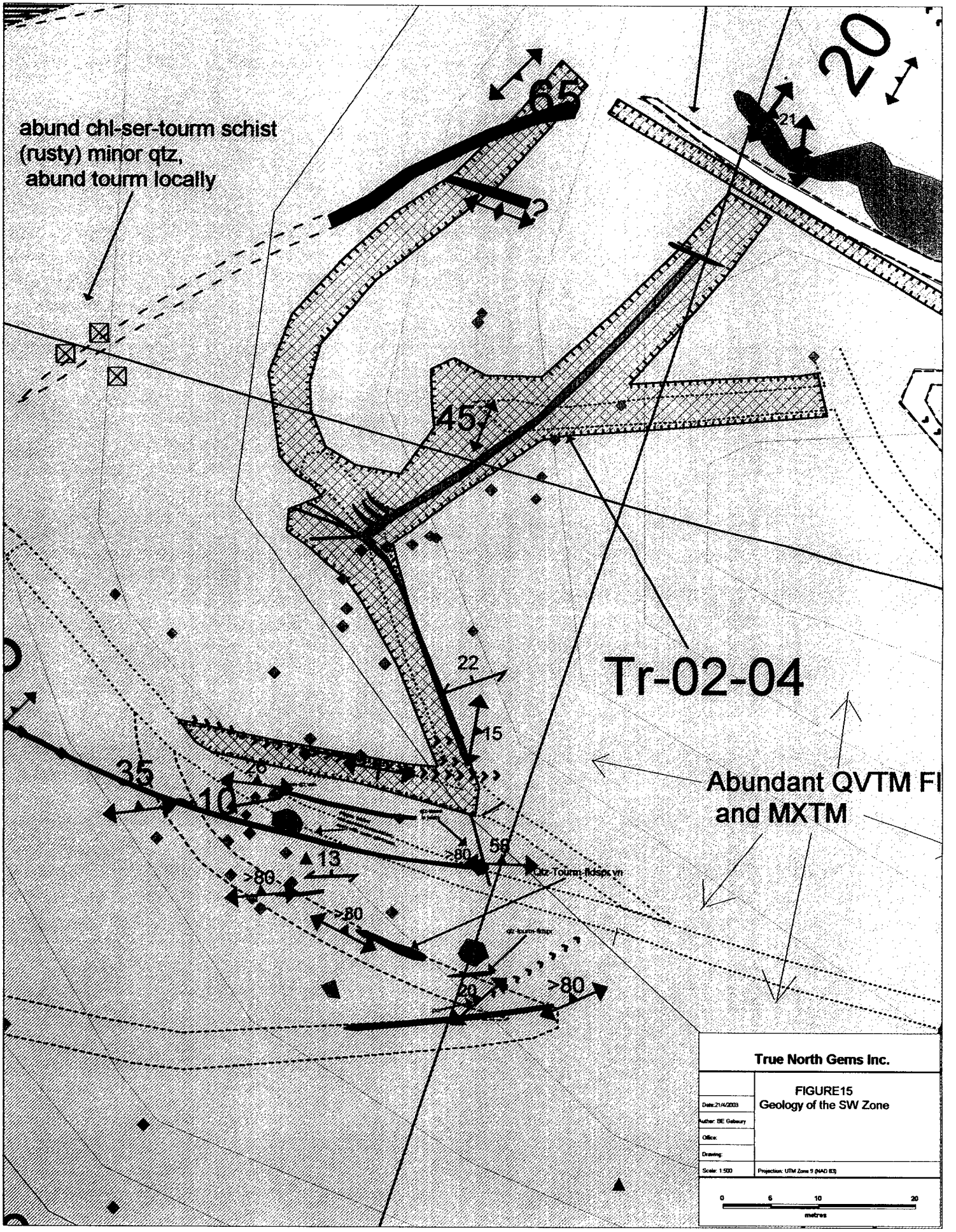
FIGURE 14: Oblique Aerial View of Area 14

size, and grade of contained emerald. This data was entered into plotted sample locations in Mapinfo. In addition to determining the possible attitude of the source vein based on the distribution of float samples it was also possible to determine if more than one population of emerald-bearing samples existed in a particular area. A boulder location / geology map for the Southwest Zone is shown in **Figure 15**. **Figure 16** is an oblique aerial photograph of the Southwest Zone. Subsequent trenching after analysis of this data, led to the discovery of the SW #1 vein. One bulk sample was extracted and processed from an abundantly mineralized shoot from the vein at the top of the ridge. The shoot sampled measured 10 meters long, .6 meters wide and .4 meters thick. The calculated weight of material processed is 6.36 Tonnes. Emerald has also been encountered in several other areas along the exposed strikelength of the vein. One such area is located at the point of intersection of the ~50° dipping SW #1 vein and an anastomosing near flat-lying Quartz-Tourmaline vein near the southernmost exposed portion of the vein. Closer examination of the flat-lying vein has indicated that it originates from a colourless beryl- bearing Aplite which grades into a similarly mineralized Quartz-Tourmaline-Feldspar-Muscovite Pegmatite and finally into a Quartz-Tourmaline vein. The Aplites and Pegmatites are identical to those found associated with the Cretaceous Granite.

Deep trenching on the SW #1 vein was initiated to access fresher, less fractured rock in order to assess its suitability for underground development, and to determine the extent of influence of frost shattering. It is not apparent that the second end was achieved as the material became too difficult to dig with the excavator. A large cat with rippers is needed to dig deeper into this material. The greater competency of the rock with depth is, however, positive from the standpoint of underground development. Soil sampling was also completed at the far west end of the existing grid in the attempt to cover the soil anomaly indicated from the 2001 data.

6.6 West Zone

In the final two weeks of this years program, ongoing detailed prospecting in the area immediately to the west of the SW #1 vein, has led to the discovery of at least three new possible source areas for Emerald – bearing material. **Figure 17** is a geological map of the West Zone, and **Figure 18** is an oblique aerial photograph of the same area. One of the new Emerald source areas in the West Zone is a verified outcrop source. The other areas have yet to be investigated.


abund chl-ser-tourm schist
(rusty) minor qtz,
abund tourm locally
65
20
21
457
Tr-02-04
22
15
35
10
26
13
>80
58
Qtz-Tourm-fldspr vn
qtz-tourm-fldspr
20
Abundant QVTM Fl
and MXTM
True North Gems Inc.
FIGURE15
Geology of the SW Zone
Date:21/4/2003
Author: BE Gateaury
Office:
Drawing:
Scale: 1:500
Projection: UTM Zone 9 (NAD 83)
0
5
10
20
metres

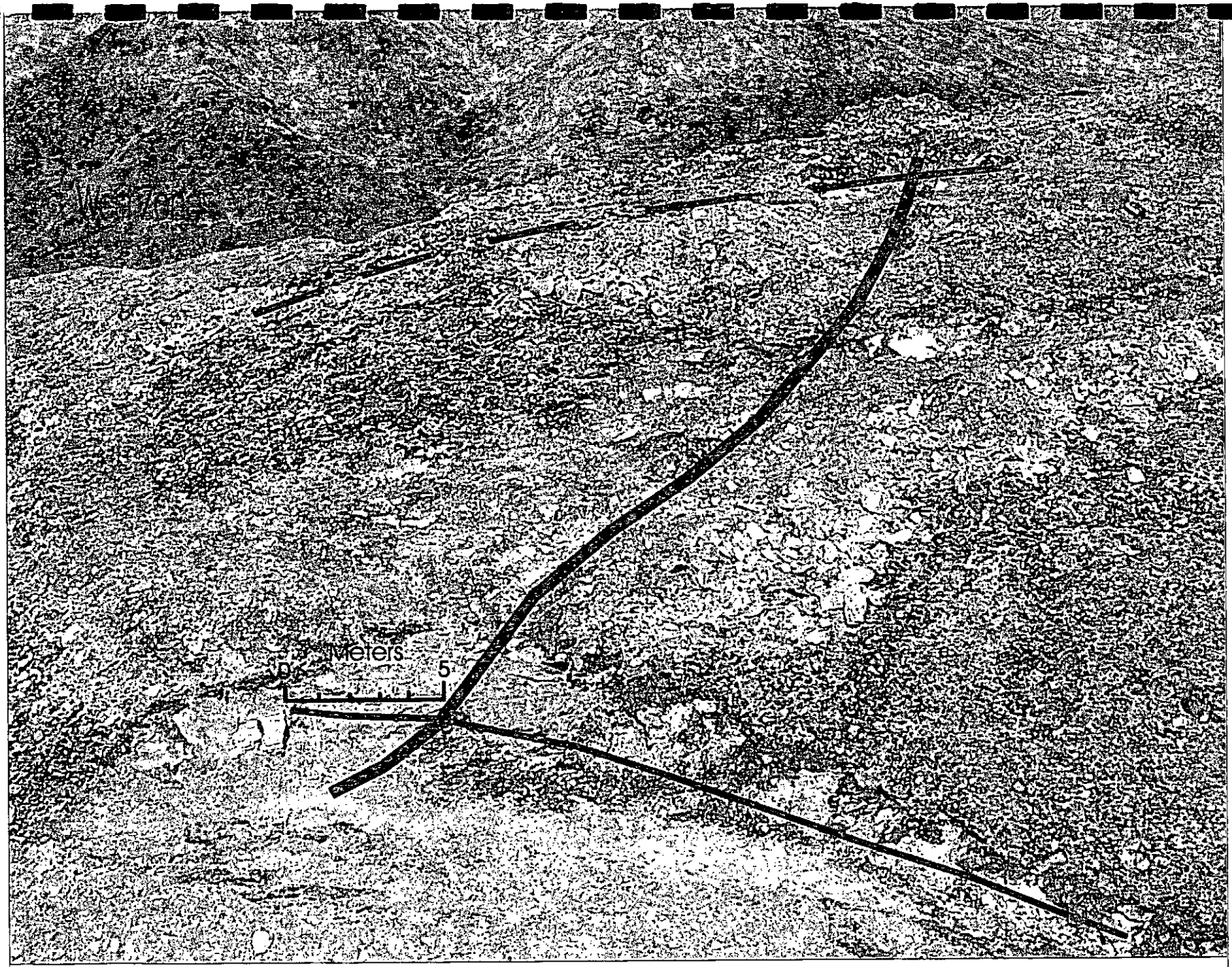
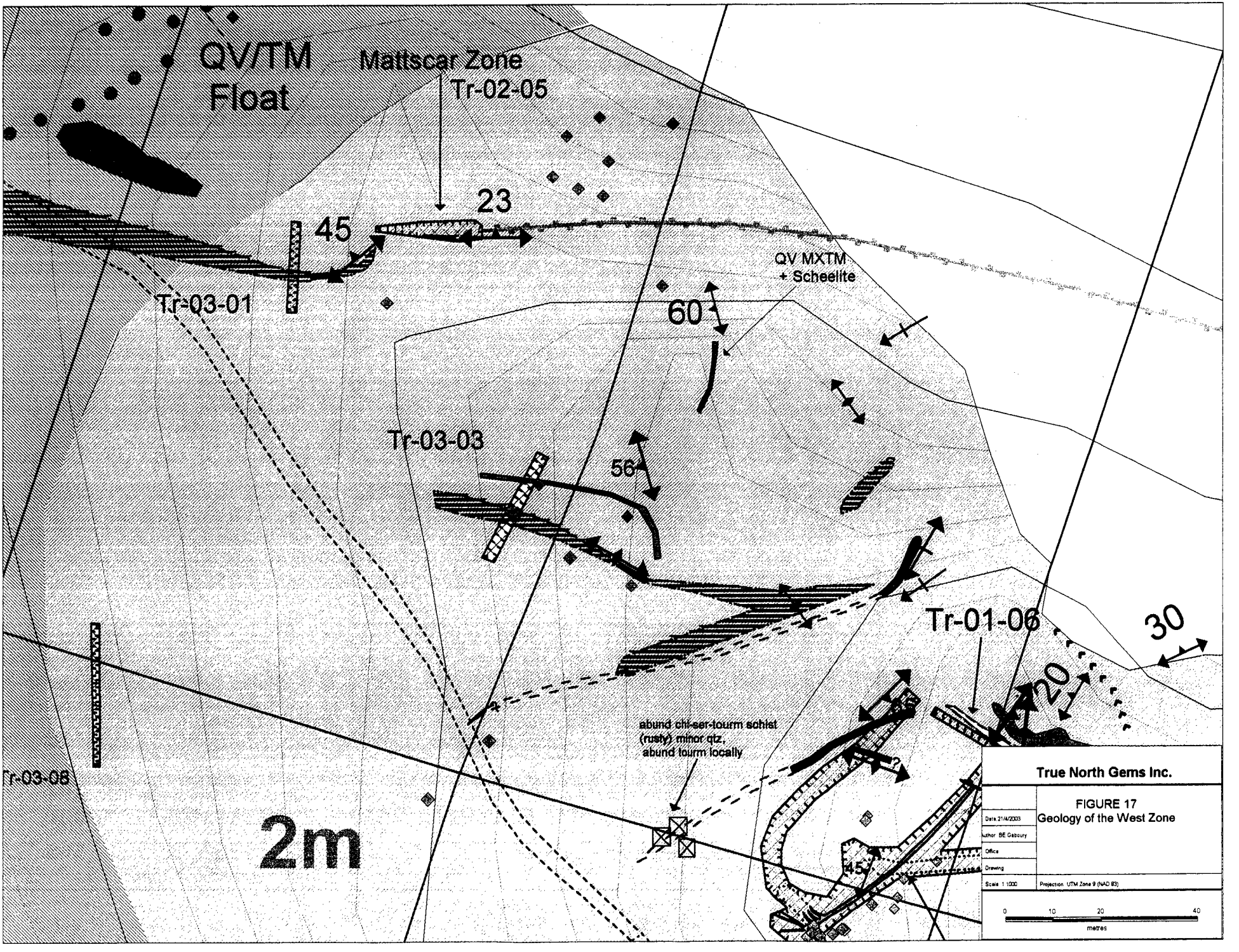


FIGURE 16 Oblique Aerial View of the SW #1 Vein


QV/TM
Float
Mattscar Zone
Tr-02-05
23
45
Tr-03-01
QV MXTM
+ Scheelite
60
Tr-03-03
56
Tr-01-06
30
20
abund chl-ser-tourm schist
(rusty) minor qtz,
abund tourm locally
Tr-03-08
2m
45
True North Gems Inc.
FIGURE 17
Geology of the West Zone
Date 2/14/2003
Author BE Geboury
Office
Drawing
Scale 1:1000
Projection UTM Zone 9 (NAD 83)
0
10
20
40
metres

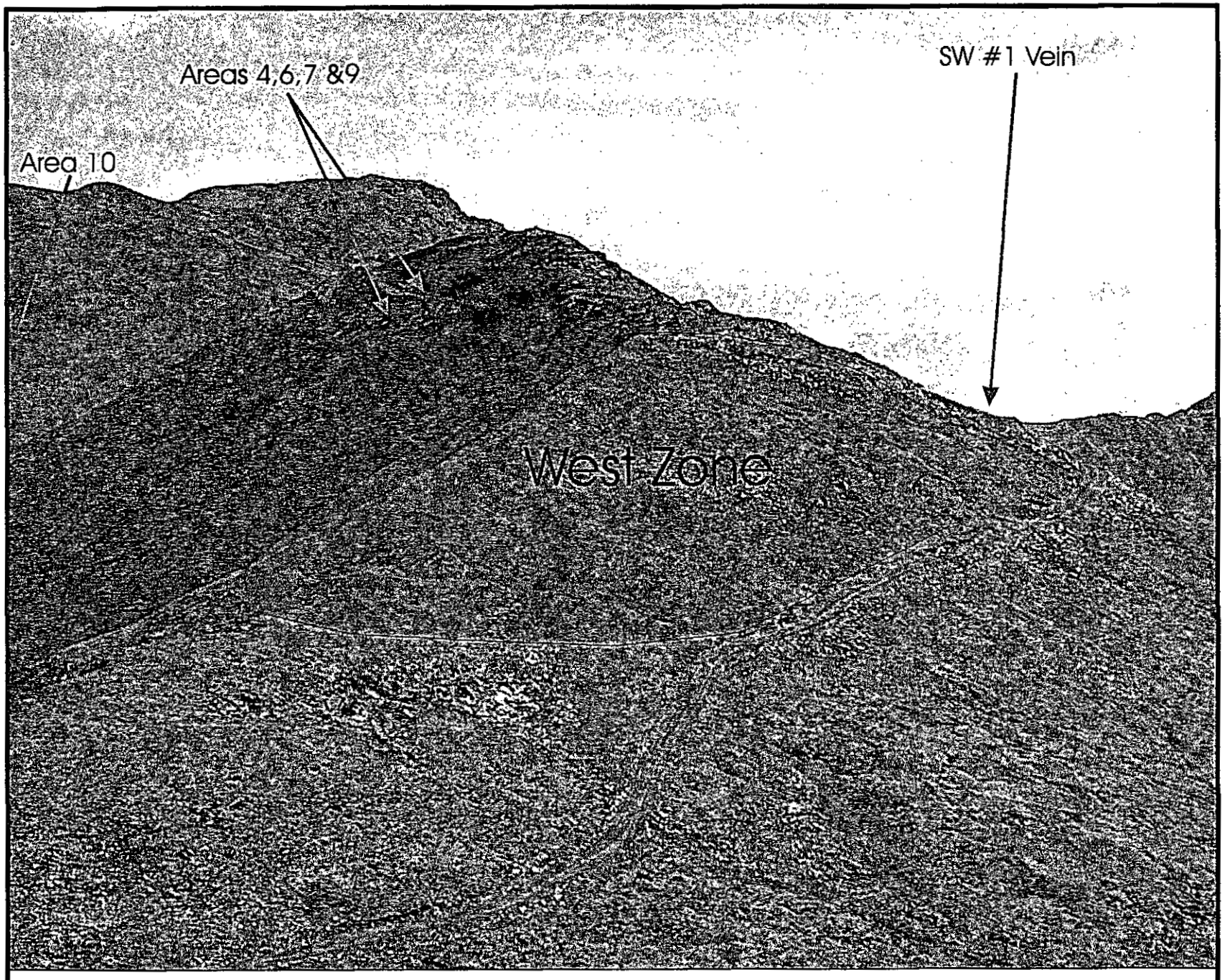


FIGURE 18 Oblique Aerial view of the West Zone

6.7 *Area 4*

An extension of the detail mapping of the Area 4 mineralized zone was completed in 2002 in conjunction with the removal of a large sample to assess emerald potential. **Figure 19** is a map of the Area 4 trench. It is a detail map of the area depicted in the oblique aerial photo shown in **Figure 20.** The vertical cross-structures discovered in 2001 are clearly related to the large wide vertical quartz-Tourmaline which trends roughly North-South through the upper part of the ridge. Although many of the Quartz-Tourmaline veins are near horizontal in this area (such as the main basal vein from which much of the emeralds were extracted from Area 4 in 2001), there are other ample examples of oblique veins in this area.

6.8 *2002 diamond Drill Program*

The 2002 diamond drill program was designed with dual purpose. Its primary function was to determine continuity of mineralization between Area 4 and Area 14. Structural geological measurements suggest that Area 4 and Area 14 are one and the same.

Its secondary function was to explore for additional blind mineralization potential. A total of 4 short holes and one deeper vertical hole were drilled making for a total of 417.41 meters. These holes are summarized in **Table 4** below. Detailed diamond drill logs are located in **Appendix A**.

TABLE 4 2002 Drillholes

Drillhole #	Grid coordinates	attitude	Depth (m)	Target
AD-1	93+47E / 100+44N	vertical	196.60	all
AD-2	93+47E / 100+44N	-75° / Az320	60.96	Area 4 & 14
AD-3	93+47E / 100+44N	-55° / Az140	67.06	Area 4 & 14
AD-4	93+47E / 100+44N	-55° / Az270	60.96	Area 4 & 14
AD-5	93+75E / 100+53N	-55° / Az270	33.83	Area 4 & 14

6.9 *Meg Claim Reconnaissance*

The MEG group consists of a total of 118 claims (YB93395 to YB93506 inclusive and the YIR group: YB93280 to YB93285 inclusive). They were staked over

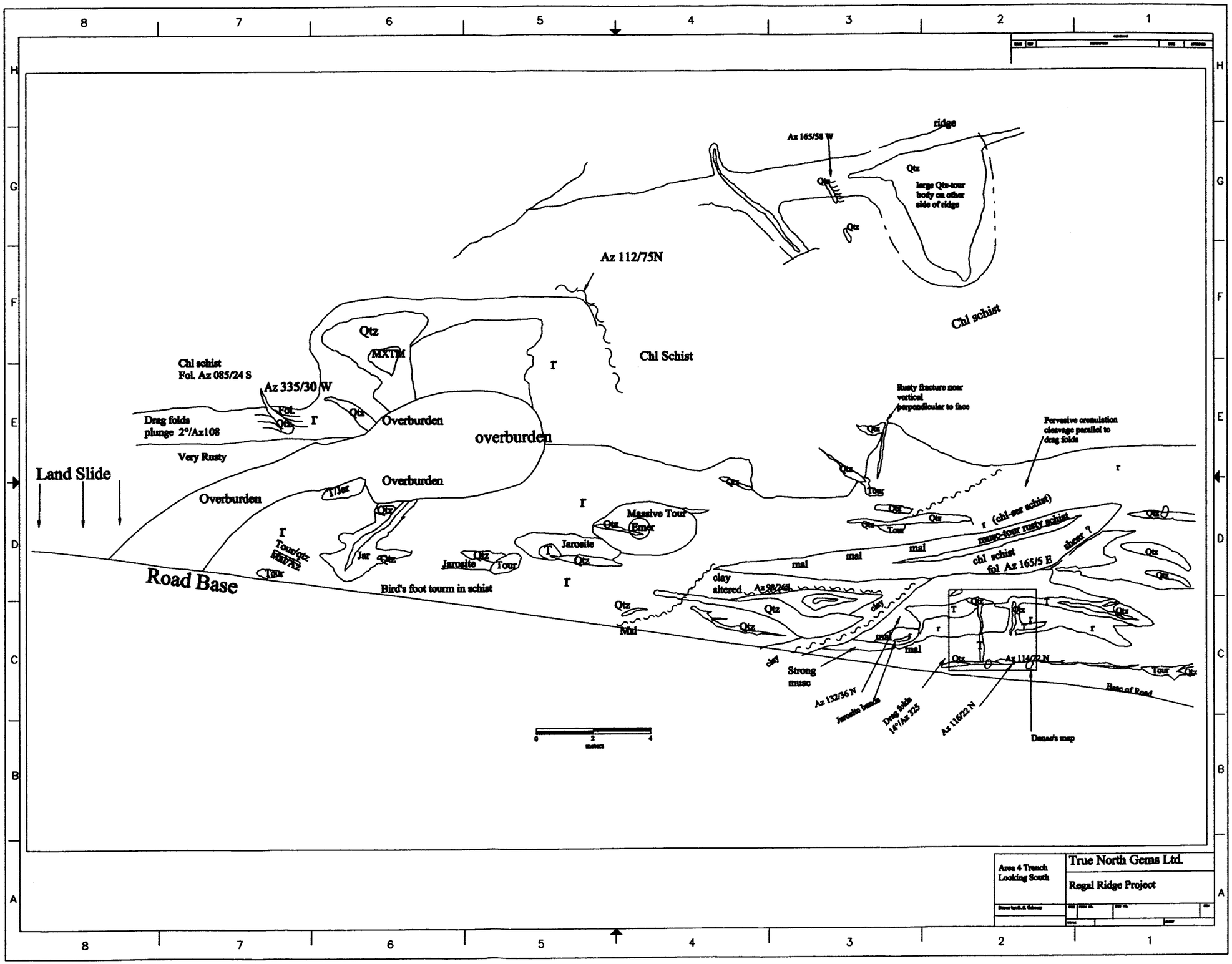

Land Slide
Road Base
Overburden
Overburden
Overburden
overburden
Very Rusty
Drag folds
plunge 2°/Az108
Chl schist
Fol. Az 085/24 S
Az 335/30 W
Qtz
MXTM
Chl Schist
Az 112/75N
Chl schist
ridge
Az 165/58 W
large Qtz-tour body on other side of ridge
Rusty fracture near vertical perpendicular to face
Pervasive cronulation cleavage parallel to drag folds
Massive Tour
Jarosite
Bird's foot tourm in schist
clay altered
Az 98/26S
chl schist fol Az 165/5 E
Strong musc
Az 132/36 N
Jarosite bands
Drag folds 14°/Az 325
Az 116/22 N
Az 114/22 N
Base of Road
Danae's map
Area 4 Trench Looking South
True North Gems Ltd.
Regal Ridge Project

Figure 19

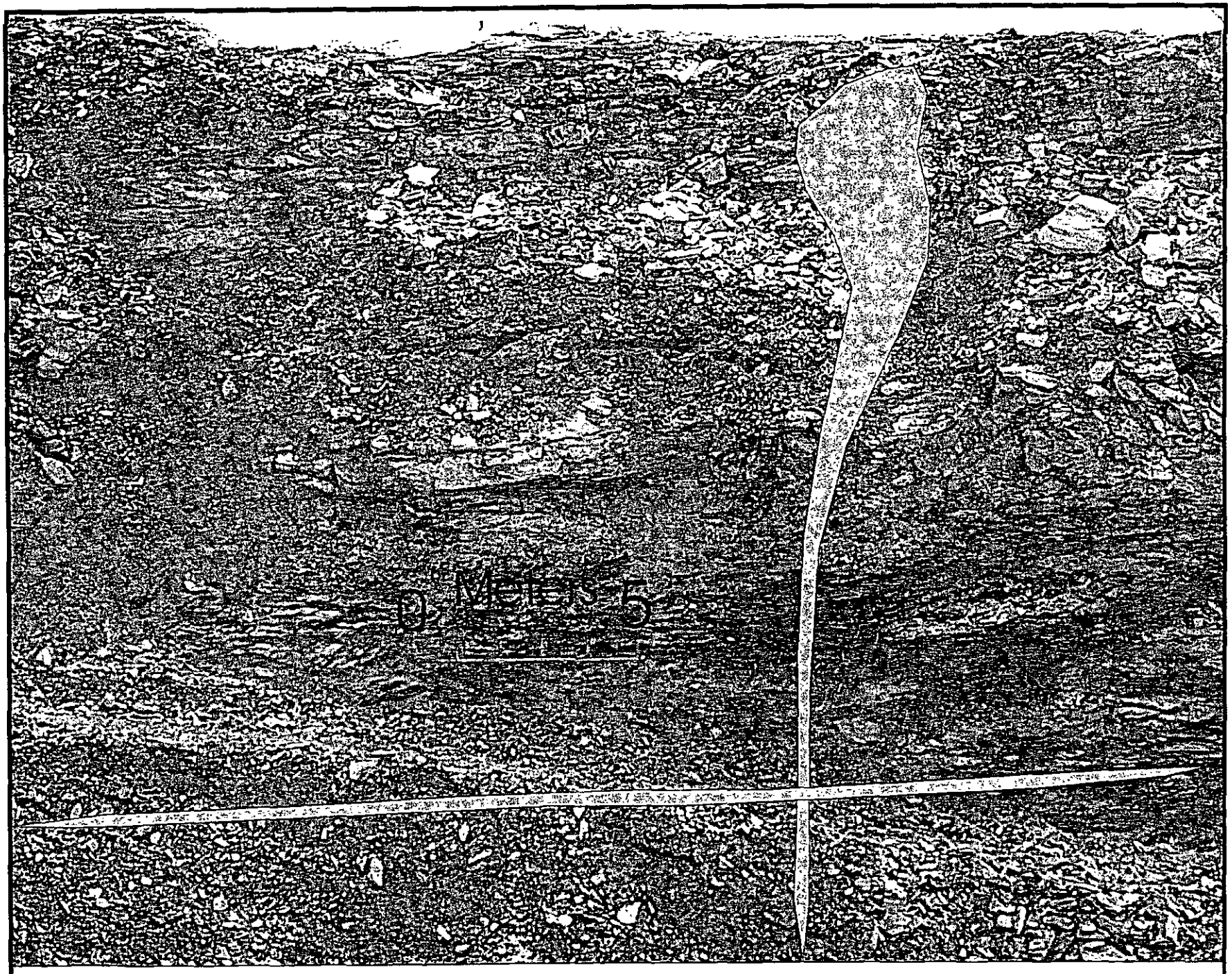


FIGURE 20: Oblique Aerial View of Area 4

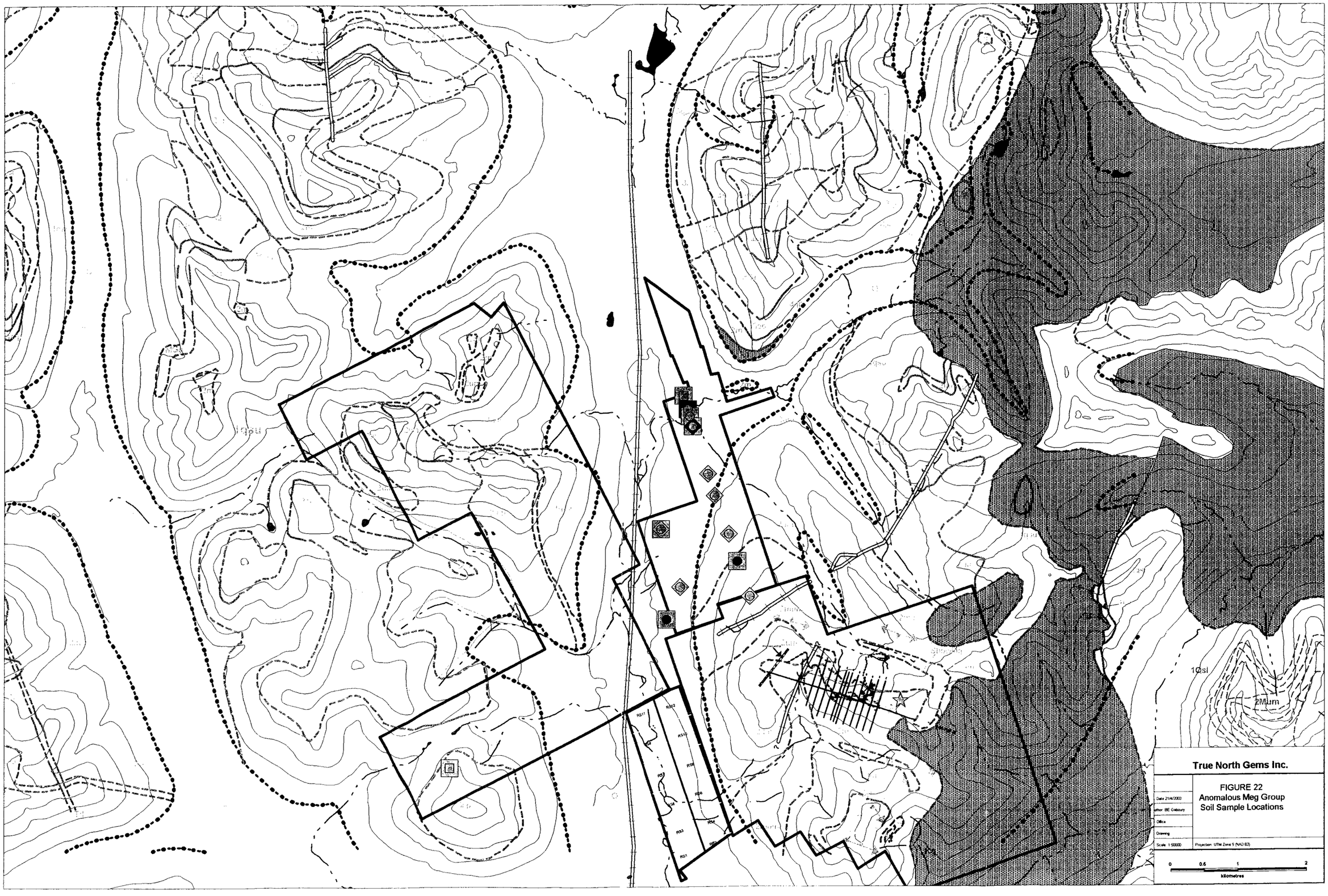
ground with favorable geology to the west of the Regal Ridge Project claims during the 2001 field season.

Reconnaissance soil sampling and prospecting were carried out on the Meg Group. Soil sample locations were collected in conjunction with claim maintenance. There were 106 soil samples taken. The location of these soil samples is depicted in **Figure 21** enclosed in the map pocket. Based on the statistical analysis of geochemical data executed on the Regal Ridge data, anomalous soils collected in the Meg Group reconnaisance have been flagged as shown in **Figure 22.** The larger squares represent anomalous Beryllium while the diamonds represent anomalous Tungsten. The small circles represent anomalous Tin. Soil analytical data are listed in **Appendix B**. Prospecting along claim lines led to very little outcrop encountered, but chlorite schists with minor quartz veining similar to those encountered on Regal Ridge were observed.

It is apparent that most of the anomalous soils encountered in the Meg Group reconnaissance occur on the smaller block of claims that adjoin the Regal Ridge Goalnet Group. This may be an extension of the broad geochemical anomaly developing over airport ridge. It is suspected by some Yukon Government geologists that the valley containing the North Lakes contains a N-S trending fault which may truncate the prospectively Beryllium mineralized package of Fire Lake Chlorite Schists. This could mean that the offset portion of this block may not continue to the western claims of the Meg Group. Additional reconnaissance is required to verify or discount this possibility. Recommendations to this end are given in the report on Proposals for the Meg Group prepared by the author for Firestone Ventures Inc.

6.10 Claimstaking

499 additional claims in eight priority areas have been laid out and staked during the 2002 field season and early January of 2003 (the Lion, Rusty, Straw, Sparkle, Shine, Glitter, RS, and WWN groups). Criteria used for area selection was the presence of suitable hostrocks that could contain Chromium and/or Vanadium peripheral to Cretaceous S-type Granitoids. These claims are shown in **Figure 2**, and the pertinent recording information is summarized earlier in section 1.1.



True North Gems Inc.

	FIGURE 22 Anomalous Meg Group Soil Sample Locations
Date 21/4/2003	
Author BE Gaboury	
Office	
Drawing	
Scale 1:50000	Projection UTM Zone 9 (NAD 83)

0 0.5 1 2
kilometres

6.11 Emerald Sample Processing

The 2002 summer field season involved selectively mining and separating 113 tonnes of Emerald-bearing material from waste host rock. A total of approximately 65 kg of beryl-bearing material was shipped back to Vancouver for subsequent processing. **Table 5** is a summary of bulk sample statistics for the 2002 trenching program.

This material was trimmed to free the beryl from the enclosing host rock and then examined and categorized according to colour, clarity, size and suitability for cutting into finished gemstones. Gem yield data are summarized in **Table 6** below. 65 kilograms of emerald-bearing concentrate were sent in sealed containers to the True North office in Vancouver.

In the laboratory, emerald was first liberated from the host rock in the concentrate. This was accomplished with the use of regular and fine diamond saws, tile clippers and an 80-mesh diamond grinder. The emerald separated was then sorted into three categories: gem quality, near-gem quality, and non-gem quality. The various categories were defined by an independent gemmologist (William Rohtert, G.G.) and an experienced master facetor (Bernard Gaboury, M.Sc., P.Eng.).

Microscopic examination of material designated gem quality and near gem quality showed the former to be medium-green colour with good saturation, and transparency with some fractures and no foreign inclusions. The latter (near-gem) is also medium-green with good saturation. This category contains light to moderate fractures, some pits, and a few inclusions. In general, the gem quality material is transparent and considered usable for faceting; the near-gem material is translucent and considered usable for lower quality faceted goods and cabachons; the non-gem material is opaque and could potentially be used for beads or other products.

The stones separated by class, were sized through a set of diamond sieves to produce the following size classifications. Screen #20- (+4.5 mm), Screen #17- (3.9-4.5 mm), Screen #12 (2.9-3.9 mm), Screen #7 (1.9-2.9 mm), Pan (<1.9 mm). Each size and grade sample was counted and weighed.

Table 6 shows the results of the rough stone count and yields for each size and category. Supervision of the sorting and categorizing was provided by Joseph Montgomery, Ph.D., P.Eng., an independent consultant, to verify the procedures. These samples are currently being evaluated by Warren Boyd, an independent gemologist and the results are pending.

Table 5: Bulk Sample Statistics for 2002 Trenching Program

Sample	Length	Width	Thick	Vol	Tonnes		Description	Weight Shipped	Sample Ref.
	(m)	(m)	(m)	(cu m)				(lbs)	
Area 51 W.	4.00	3.00	0.50	6.00	15.60		Qtz-tourm vn, from west trench area 51	7.0	pail #4
Area 51 E.	3.00	3.00	0.40	3.60	9.36		Qtz-tourm vn, from east trench area 51	5.5	pail #4
BG ext milled	5.00	2.00	0.40	4.00	10.40		Qtz - tourm vns 3m above the BG vein	23.0	pail #2
Area 14 hand cob	8.00	0.50	0.30	1.20	3.12		upper vn in trench - qtz - tourm- beryl in small vertical cross structures	9.0	pail #3
Area 14 milled	5.00	3.00	0.40	6.00	15.60		Lower vn in trench - qtz - tourm, with no beryl visible in o/c		pail # 5
area 4 bench	11.00	1.00	1.00	11.00	28.60		qtz vn with rusty muscovite alteration and fault clays, tourm-musc schist, malachite stain and sulphides	15.0	pail # 5
BG zone sample 1	4.00	3.00	0.50	6.00	15.60			30.0	pail #3
BG zone sample 2	4.00	3.00	0.50	6.00	15.60			28.0	pail #1
Prospecting Grab Samples							for electrocution		pail #6
Hand Samples for Whole Rock									pail # 7
SW vein hand cobbed sample									pail #8
SW vein hand samples for whole rock	10.00	0.60	0.40	2.40	6.36				pail # 9
Prospecting Grab Samples							for electrocution		pail #6

Table 6: Gem Yield Data from 2002 Regal Ridge Bulk Sampling.

	Southwest Zone		Area 14		BG-Extension	
Initial Sample	6.36 tonnes		18.72 tonnes		10.40 tonnes	
Concentrate	11.59 kg		4.09 kg		10.45 kg	
Size	Gem	Near-Gem	Gem	Near-Gem	Gem	Near-Gem
+4.5 mm	98.12 g	549.42 g	4.78 g	13.38 g	0.52 g	29.59 g
3.9-4.5 mm	7.42 g	10.32 g	0.67 g	2.32 g	0.05 g	0.50 g
2.9-3.9 mm	9.58 g	23.47 g	0.19 g	1.96 g	0.10 g	0.76 g
1.9-2.9 mm	5.61 g	2.55 g	1.50 g	1.11 g	0.19 g	0.19 g
-1.9 mm	0.68 g	1.57 g	0.49 g	1.60 g	0.03 g	0.06 g
Total	**121.42 g**	**587.33 g**	**8.84 g**	**20.38 g**	**0.88 g**	**31.11 g**
grams/tonne	19.09	92.35	0.47	1.09	0.09	3.00
	Number of Stones		Number of Stones		Number of Stones	
Size	Gem	Near-Gem	Gem	Near-Gem	Gem	Near-Gem
+4.5 mm	284	714	20	69	2	54
3.9-4.5 mm	111	177	13	44	1	8
2.9-3.9 mm	276	803	60	65	3	21
1.9-2.9 mm	421	209	137	113	16	20
Total	**1092**	**1903**	**230**	**291**	**22**	**103**

	BG – 1		Area 51 East		Area 51 West	
Initial Sample	31.20 tonnes		9.36 tonnes		15.60 tonnes	
	26.36 kg		2.50 kg		3.18 kg	
Size	Gem	Near-Gem	Gem	Near-Gem	Gem	Near-Gem
+4.5 mm	3.394 g	28.33 g	0.58 g	3.50 g		3.40 g
3.9-4.5 mm	0.082 g	1.07 g	0.17 g	1.35 g	0.19 g	0.36 g
2.9-3.9 mm		0.46 g	0.24 g	1.79 g	0.03 g	0.19 g
1.9-2.9 mm	0.014 g	0.23 g	0.09 g	0.90 g		0.05 g
-1.9 mm		0.18 g	0.00 g	0.02 g		0.00 g
Total	**3.49 g**	**30.26 g**	**1.08 g**	**7.56 g**	**0.22 g**	**4.50 g**
grams/tonne	0.11	0.97	0.12	0.81	0.01	0.29
	Number of Stones		Number of Stones		Number of Stones	
Size	Gem	Near-Gem	Gem	Near-Gem	Gem	Near-Gem
+4.5 mm	7	79	3	28		21
3.9-4.5 mm	1	21	4	22	4	6
2.9-3.9 mm		15	9	64	1	6
1.9-2.9 mm	2	26	10	72		5
Total	**10**	**141**	**26**	**186**	**5**	**38**

	Area 4	
Initial Sample	28.60 tonnes	
	6.82 kg	
Size	Gem	Near-Gem
+4.5 mm		3.17 g
-4.5 mm		0.11 g
Total		**3.28 g**
grams/tonne		0.11
	Number of Stones	
Size	Gem	Near-Gem
+4.5 mm		6
-4.5 mm		5
Total		**11**

6.12 *Reconnaissance and Grid Soil Sampling Program*

Due to the inability of the formerly used partial digest ICP analysis to detect "micro-Beryls", the decision was made to use a near total digest and the more sensitive Mass Spectrographic analytical technique. In order to marry the former data with the data generated in 2002, some of the former Expatriate grid sample locations were resampled and analyzed by the near total digest / Mass Spectrographic technique.

Grid soil sampling was systematically continued eastwardly and westwardly beyond those portions of the grid formerly sampled. Where possible, the soils were sieved to -80 mesh in the field. The material collected was described for colour, particle size, surrounding rock type or predominant boulder type, steepness of terrain and drainage. Samples were collected every 25 or 50 meters.

Reconnaissance soil samples were collected on joint geochemical / geological traverses in areas peripheral to Regal Ridge. Soil samples were collected in the same manner as that described above for the grid soil sampling.

Grid and reconnaissance soil sample locations are shown in **Figure 23**. Raw soil sample data are tabulated in **Appendix B**.

Proposed Airstrip

Camp

88E
89E
90E
91E
92E
93E
94E
95E
96E
97E
98E

Lower ramp

100+00 N

True North Gems Inc.

FIGURE 23
2002 Soil Sample Locations

Date 21/4/2003	
Author BE Gadsby	
Office	
Drawing	
Scale 1:10000	Projection UTM Zone 9 (NAD 83)

0 100 200 400

7.0 CONCLUSIONS

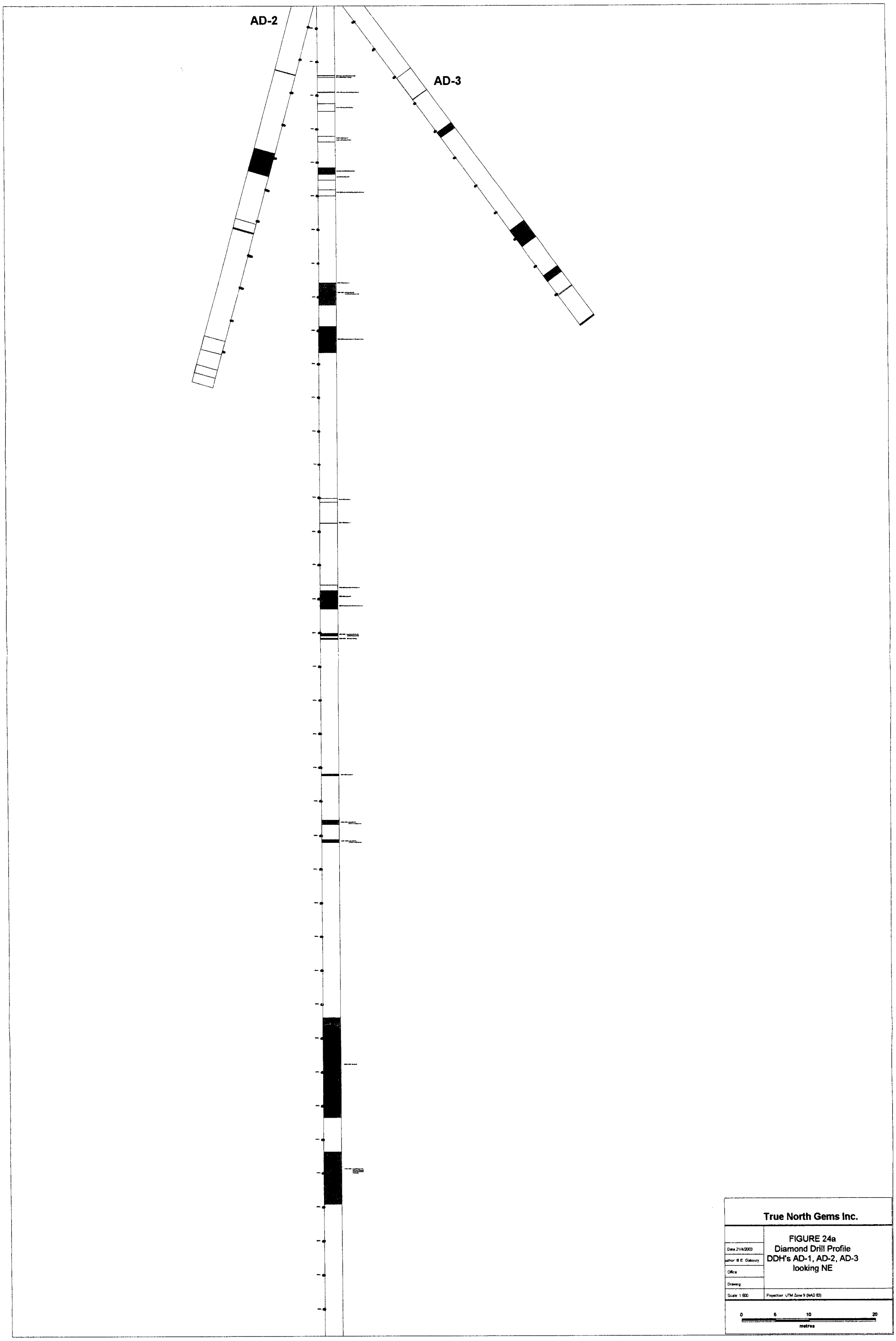
7.1 *Continuity of Mineralized Zones*

Continuity of mineralization between Area 4 and Area 14 was verified by a series of short fanned diamond drillholes collared in allocation midway between the mineralized zones at Area 4 and Area 14. This is depicted in the diamond drillhole profile in **Figure 24a**. The red intersections represent primary targets where Quartz-Tourmaline veins with muscovite ± biotite were intersected. The yellow intersections represent secondary targets where Quartz-Tourmaline with only biotite in the selvages or rusty schist zones with muscovite-biotite were encountered. **Figure 24b** is a diagram depicting an interpretation of the mineralization encountered in the profile through diamond drillholes AD-2, AD-1, and AD-3 oriented at Az320.

7.2 *Potential for Additional Mineralization*

A total of 10 alteration zones with Emerald-bearing potential were encountered in the 200 meter vertical hole DDH AD-1. This is depicted in the diamond drillhole profile in **Figure 24a**. These zones are deemed to be prospective by virtue of the presence of coarse Muscovite and / or Biotite which has been found to be found in close association with Emerald mineralization. Further analysis of these zones is currently underway in order to verify the existence of geochemical similarities to known productive alteration zones. On the basis of that which has been qualitatively recorded a total of 10 prospective horizons have been identified in the deep diamond drillhole AD-1, 6 of which show primary indicators of emerald potential (the presence of quartz-tourmaline veins with muscouvite-phlogopite alteration in the vein selvages) and four of which are of secondary rank (i.e. those quartz-tourmaline veins which have phlogopite selvages without the presence of muscouvite).

Based on the assumption that the mineralized horizons represent horizontal lenses, the total volume of mineralized material in each of these horizons was calculated (an assumption was made that there was no variation in horizon thickness, and that the thickness encountered in drillhole AD-1 was uniform across the extent of the horizon). It was also assumed that the horizons extend back to the east to the contact with the Cretaceous granite. The granite contact is assumed to be located at its furthest western apophyse and that it has a vertical orientation. An inferred resource of 5.2 million Tonnes of primary mineralized material and 1.48 million Tonnes of secondary mineralized material is calculated to exist. The total tonnage of rock this is contained within has been calculated to be 32.4 million

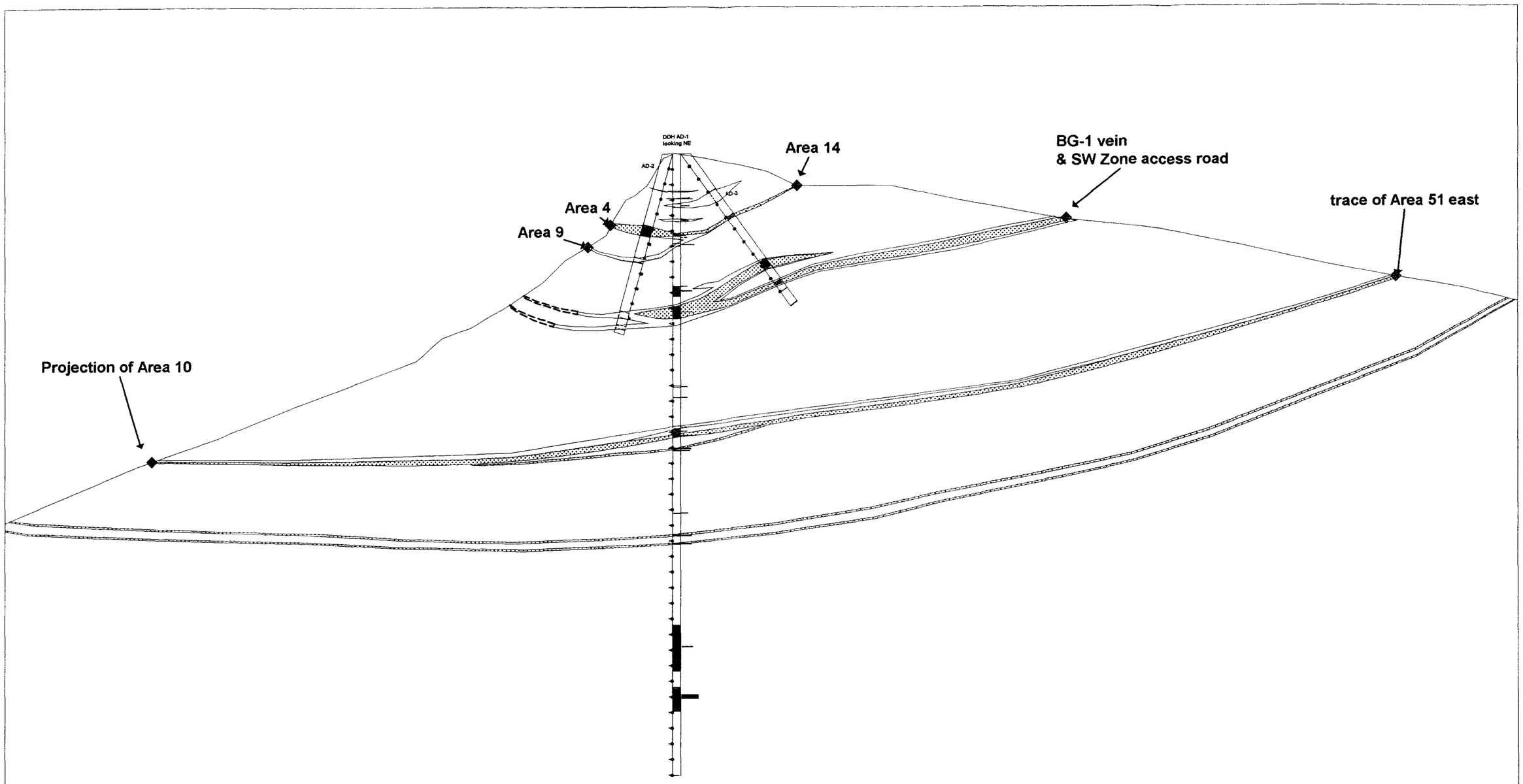


True North Gems Inc.

FIGURE 24a
Diamond Drill Profile
DDH's AD-1, AD-2, AD-3
looking NE

Date 21/4/2003	
Author B E Gaboury	
Office	
Drawing	
Scale 1:500	Projection UTM Zone 9 (NAD 83)

0 5 10 20
metres



True North Gems Inc.

FIGURE 24b
Interpretation of Drillhole Data for Profile through Ad-2, AD-1, AD-3 looking Northeast

Date 2/4/2003
Author BE Gaboury
Office
Drawing
Scale 1:1250
Projection UTM Zone 9 (NAD 83)

0 12.5 25 50
metres

Tonnes. Based on the findings of 2002 an inferred resource of 46,428 Tonnes of mineralized material is calculated to exist as oblique mineralized veins (with emerald mineralization) contained within a total of 9.01 million Tonnes of rock. Assuming that the same volumetric component extends into the same block of rock in which the 10 horizontal mineralized zones exist, the oblique vein component would represent an inferred resource of 167,277 Tonnes.

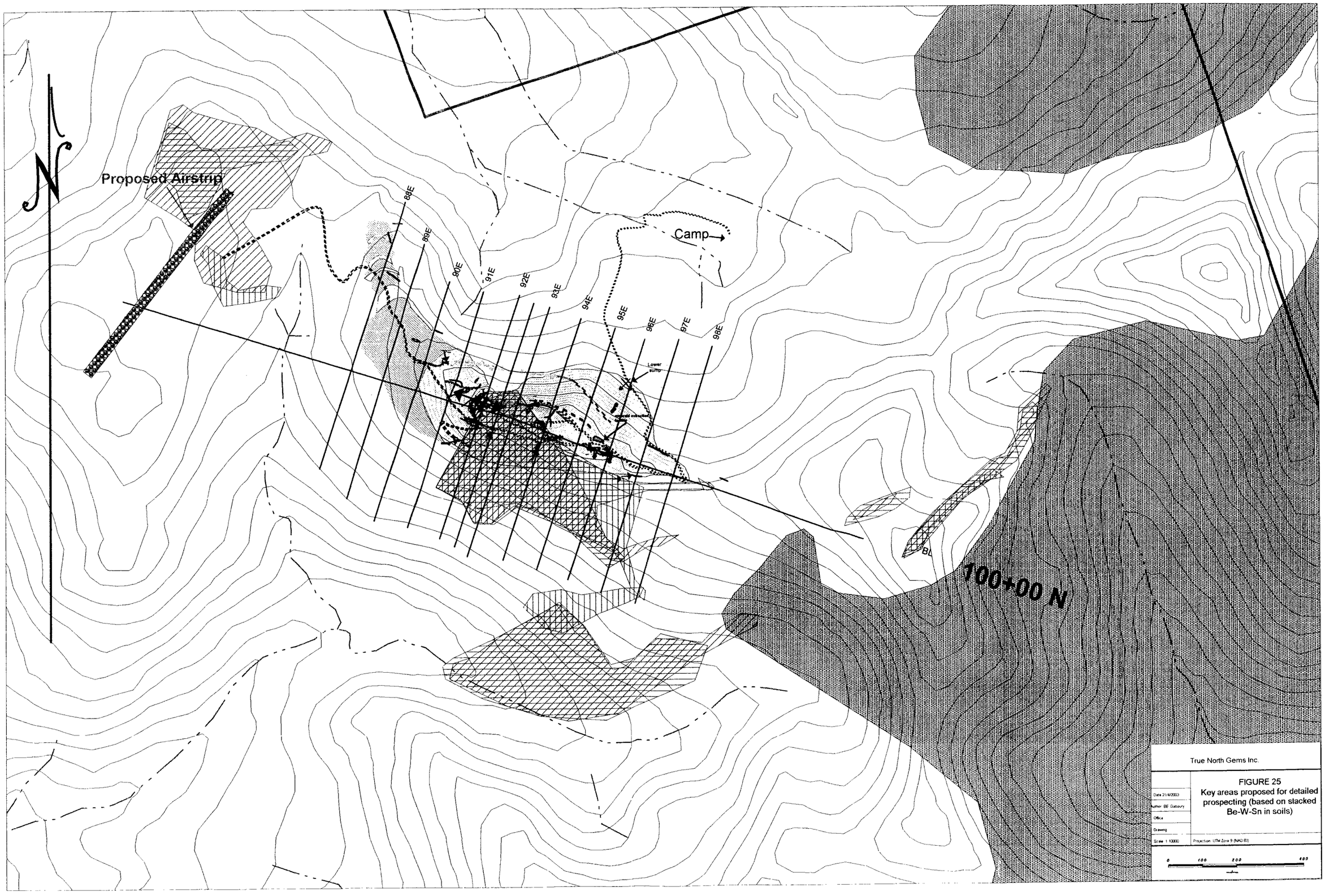
7.3 Elemental Associations in Soil Sample Data

A total of 491 soil samples were collected during the 2002 field season. This includes grid and reconnaissance samples collected on the Regal Ridge claim group and reconnaissance samples collected on the Meg and Lion claim groups. The soil samples were analyzed by Mass Spectrography for 47 elements after near total digestion. Raw soil sample data are tabulated in **Appendix B**.

The raw data were subjected to statistical analysis in order to produce a correlative coefficient matrix. From this 7 elements were found to have significant positive correlation to Beryllium. Beryllium, Bismuth, Cesium, Potassium, Rubidium, Tin, Thallium, and Tungsten are elements associated with Emerald mineralization. This analysis of the geochemical data is presented in **Appendix C** which is the report prepared by Giroux Consultants. Included with this report are plots of Beryllium and the seven other elements which exhibit positive correlations with beryllium. Utilizing three of the elements with positive correlation (Beryllium, Tungsten and Tin) a plot was prepared to delineate four zones with stacked anomalies, which will become priority follow-up areas for prospecting in 2003. **Figure 25** illustrates these four areas of superimposed geochemical anomalies. The vertical hatching represents anomalous Tungsten in soils, the horizontal hatching represents anomalous Tin, and the diagonal hatching represents anomalous Beryllium in soils.

7.4 Genetic Model for Emerald Mineralization

Observations in the BG-1 and Southwest Zones have verified 2001 results in Area 4, that quartz-tourmaline veins any attitude have emerald potential, providing they have the **biotite-muscovite-rich selvages**. It is therefore necessary to focus on exact location and attitude of all Quartz-Tourmaline veins, and to pay particular attention to the intersection of veins (this has been found in the past to be where the best and most abundant mineralization is found; as reported originally by Wengynowski). These criteria were used to make the determination that there were a total of ten horizons with emerald potential encountered in diamond drillhole AD-1.


Proposed Airstrip
Camp
88E
89E
90E
91E
92E
93E
94E
95E
96E
97E
98E
Lower slump
100+00 N
True North Gems Inc.
FIGURE 25
Key areas proposed for detailed prospecting (based on stacked Be-W-Sn in soils)
Date 21/4/2003
Author BE Gaboury
Office
Drawing
Scale 1:10000
Projection: UTM Zone 9 (NAD 83)
0
100
200
400

Past research by Groat (2000) has demonstrated the importance of fluorine in the phylosilicate composition. The low salinity of mineralizing fluids measured in fluid inclusion studies by Groat and Marshall was originally perplexing as it would indicate that the fluids had limited ability to transport beryllium for emerald production. The high fluorine content of the alteration micas suggests that the Beryllium is transported as a fluorine complex. Fluorine has a pronounced ability to carry dissolved Beryllium, and so the low salinity of the fluids would not be a concern.

Stable isotope data for emeralds from Regal Ridge (Marshall, 2000) have indicated that they have attributes of both magmatic and metamorphic origin. This has meant that there has been uncertainty as to whether the Cretaceous granite is the Beryllium source. This question was answered this year when an aplite dike uncovered in the SW zone was traced westward where it became a Pegmatite vein and then eventually a Quartz-Tourmaline vein. Both the aplitic and pegmatitic portions of the vein demonstrated structural zoning where the outer portions of the vein were Tourmaline-rich followed inward by a Feldspathic layer. The outer Tourmaline rich layer is an attribute shared with the Quartz-Tourmaline veins but the Feldspathic layer is not. The feldspar armored aplite and pegmatite portions demonstrate far less wallrock alteration then the Quartz-Tourmaline portion. It appears as though feldspar crystallized from the fluids along the vein selvage, sealing the vein so as to prevent interaction of the fluids with the enveloping Chlorite Schists. This minimal wallrock alteration limited Beryllium precipitation to a minor amount of clear to white Beryl. Where the vein develops into a Quartz-Tourmaline vein, the lack of Feldspathic armoring allowed for considerably greater wallrock interaction where fluorine was scavenged by conversion of Chlorite to fluorine-rich Muscouvite and Biotite and by Calcium to produce Fluorite. Diminished fluorine fugacity in the mineralizing fluids lowered the solubility of Beryllium and so the precipitation of Beryl was greatly enhanced. **Figure 26** is a model proposed to explain the observed effects.

Several samples of the chlorite schist were collected from various areas on Regal Ridge in order to look at the chemical variations in the unaltered host substrate. Analyses for these samples (sample numbers 2002-001-100 to 2002-001-106 incl) are listed in **Appendix B.** The locations of these samples are depicted as inverted burgundy coloured triangles in **Figure 27.**

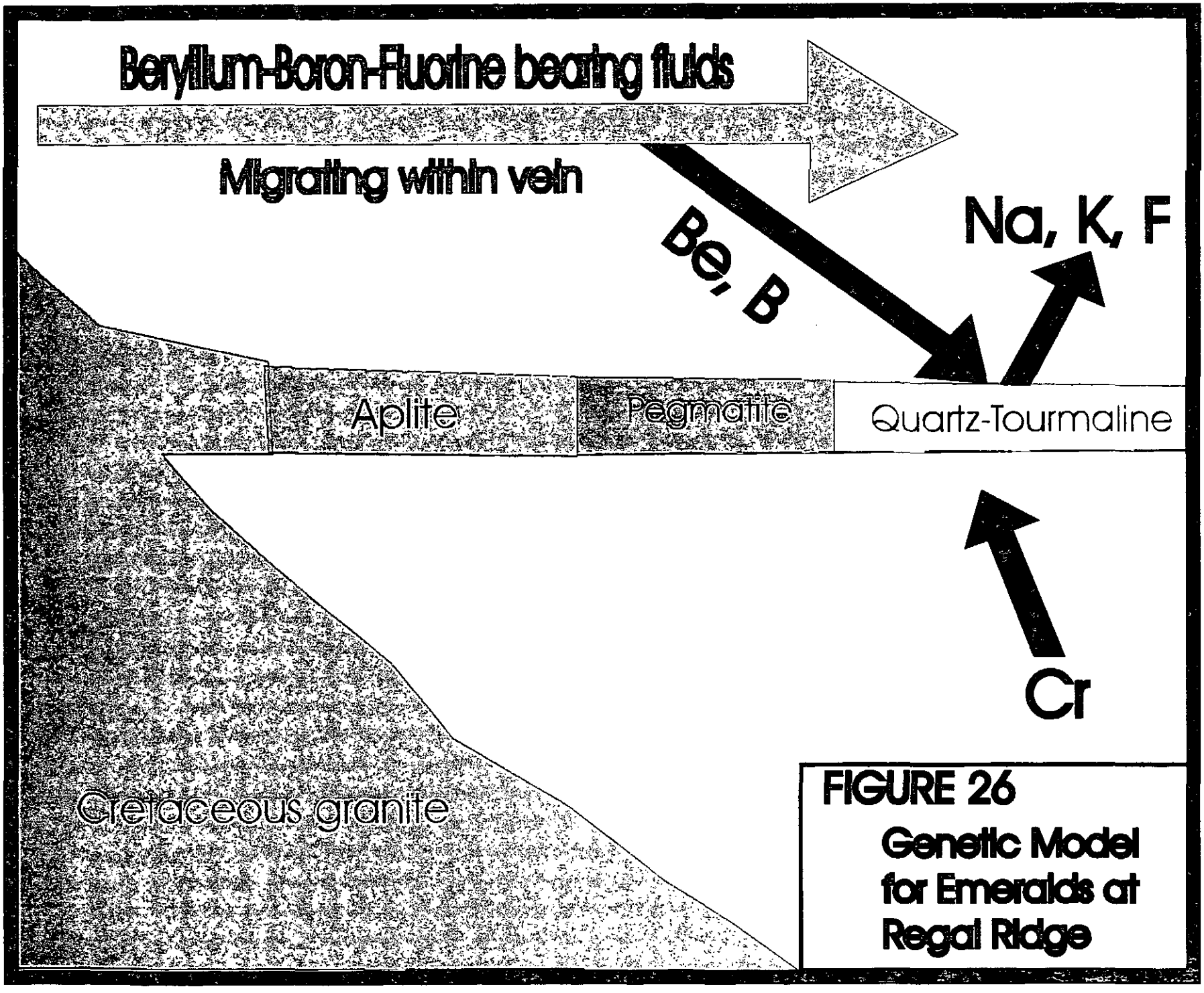


FIGURE 26

Genetic Model for Emeralds at Regal Ridge

Tr-01-06

abund chl-ser-tourm schist
(rusty) minor qtz,
abund tourm locally

Tr-03-06

Tr-01-03

2002-001-100

2002-001-101

Tr-02-04

wholerock
geochem
traverse

2002-001-106

Tr-02-03

2002-001-103
& 104

2002-001-105

2002-001-102

Tr-01-05
(reclaimed)

Tr-02-02
Area BG-1

tourm - rich rusty schist zone
no coarse mica visible (cop)

Tr-01-04
(reclaimed)

True North Gems Inc.

FIGURE 27
Wholerock Sample Locations

Date 2/4/2003
Author BE Gaboury
Office
Drawing
Scale 1:1000
Projection: UTM Zone 9 (NAD 83)

0 10 20 40
metres

Following is a description of the samples taken:

2002-001-100:	unaltered chlorite schist from SW Zone
2002-001-101:	chlorite-sericite schist from near aplite dike in SW Zone
2002-001-102:	chlorite schist from lower vein area of SW Zone
2002-001-103:	chlorite-sericite schist from ~2m above inflection point on BG-1 vein.
2002-001-104:	chlorite-sericite schist from ~ 3.5 meters above the BG-1 vein.
2002-001-105:	chlorite-sericite schist from ~ 1.5 meters above and 10 meters west of 2002-001-104.
2002-001-106:	chlorite-sericite schist from ~ 1.5 meters above the "pay zone" at Area 14.

A rock geochemical traverse was also carried out across the upper portion of the SW #1 vein. This traverse was carried out on the SW #1 vein near the top of the ridge and is shown in **Figure 27**. **Figure 28** is a diagram indicating the location of the samples. Results from this sampling are pending.

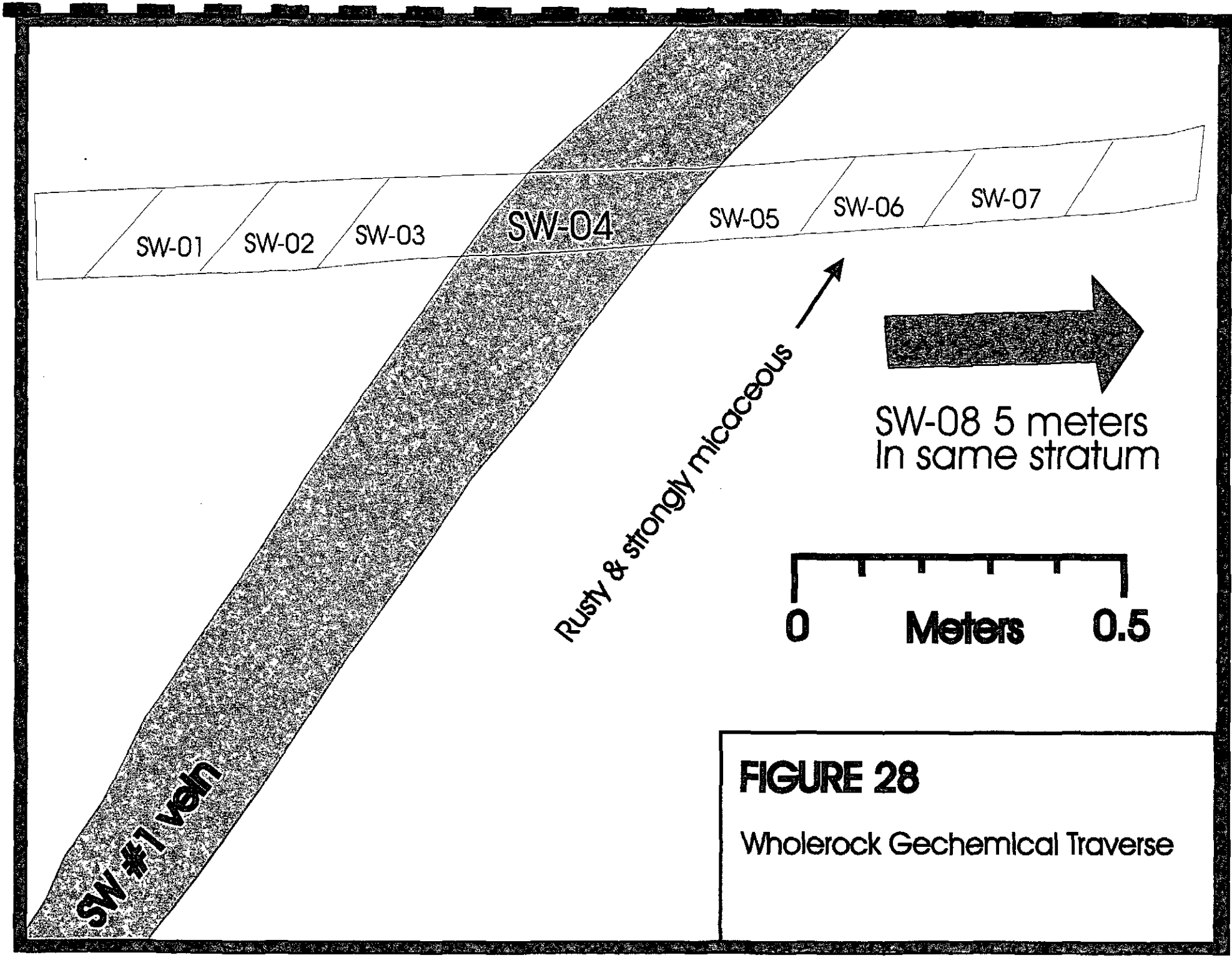


FIGURE 28

Wholerock Gechemical Traverse

8.0 RECOMMENDATIONS

8.1 Construction of Airstrip

In an effort to minimize environmental impact and maintain the highest degree of security the decision was made to construct an airstrip in order to maximize efficiency in logistical support. Even in the event that a mining situation develops at Regal Ridge, the emerald concentrate can easily be flown out. If one considers the amount of gem and near-gem component recovered from the SW#1 vein, a 1000 Tonne per day mining operation would produce 3 Tonnes of gem and near gem emerald per month. Such production can easily be taken out on the back-hauls of food / supply flights.

Fig 4 depicts the proposed location of the airstrip. The site has been surveyed, and it is anticipated that the strip can be constructed in two weeks with minimal movement of overburden.

8.2 Modification of Emerald Processing Facility

Plans for 2003 include the removal of a large sample of mineralized material from underground development on the SW #1 vein in addition to the trenching of newly exposed mineralized veins on surface (see Section 8.6). It is anticipated that this could amount to at least 2,000 Tonnes of material to be processed to extract the emeralds. Based on the findings in the 2002 field season, it is clear that the existing processing facility is inadequate to meet this objective. Modification of the facility is necessary in order to increase processing from 10 Tonnes per day to 30 Tonnes per day.

During the processing of emerald-bearing material in the pilot facility at Regal Ridge in 2002, it was observed that the more fissile waste Chlorite Schist tended to remain in large platy blocks as opposed to the Quartz-Tourmaline and the altered schist selvages. By incorporating an additional screen deck, between the existing crusher and screen deck, it is anticipated that a significant percentage of material can be eliminated from the picking belt. **Fig 29** is a diagram of the proposed modifications to the emerald processing facility.

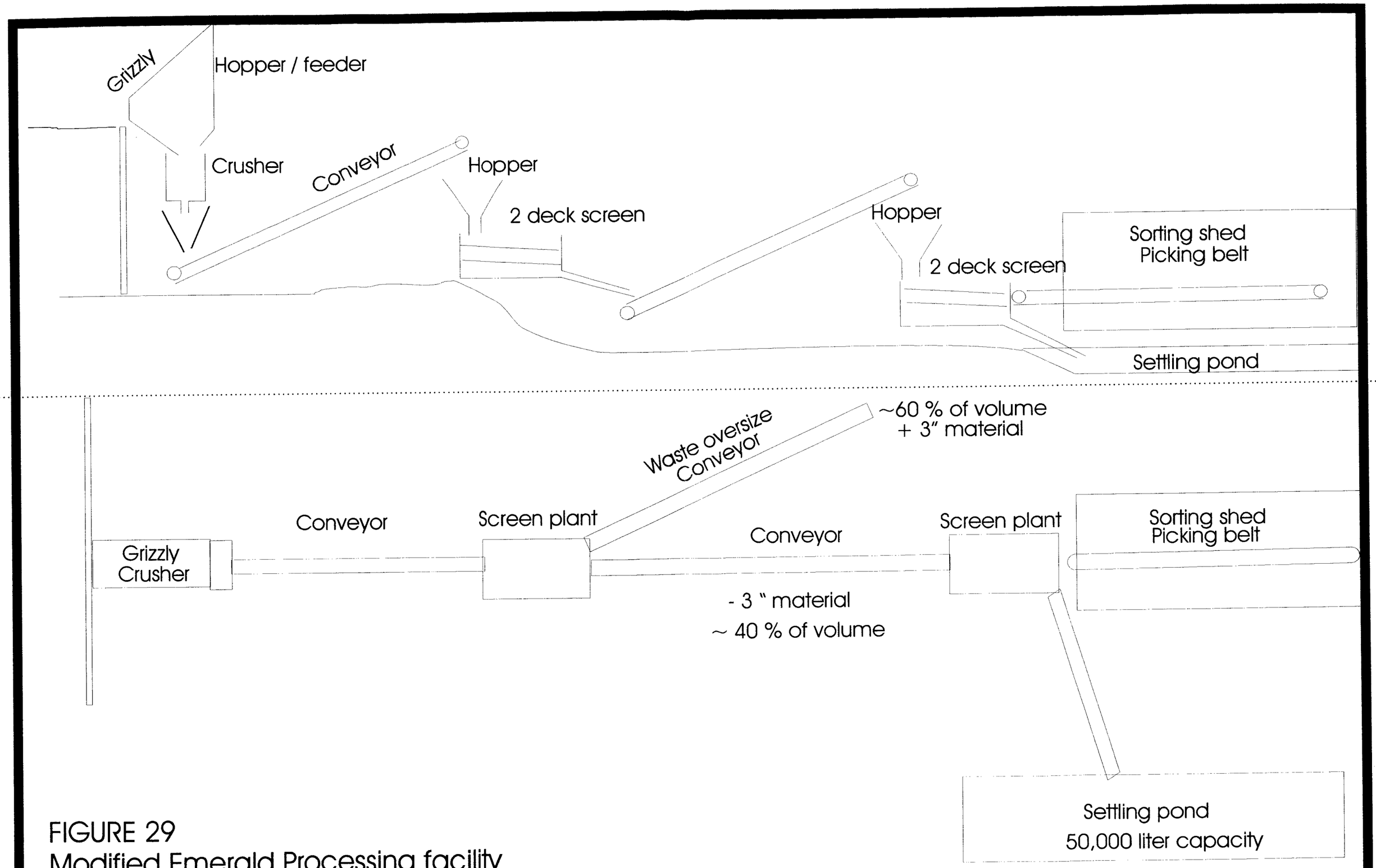


FIGURE 29
Modified Emerald Processing facility

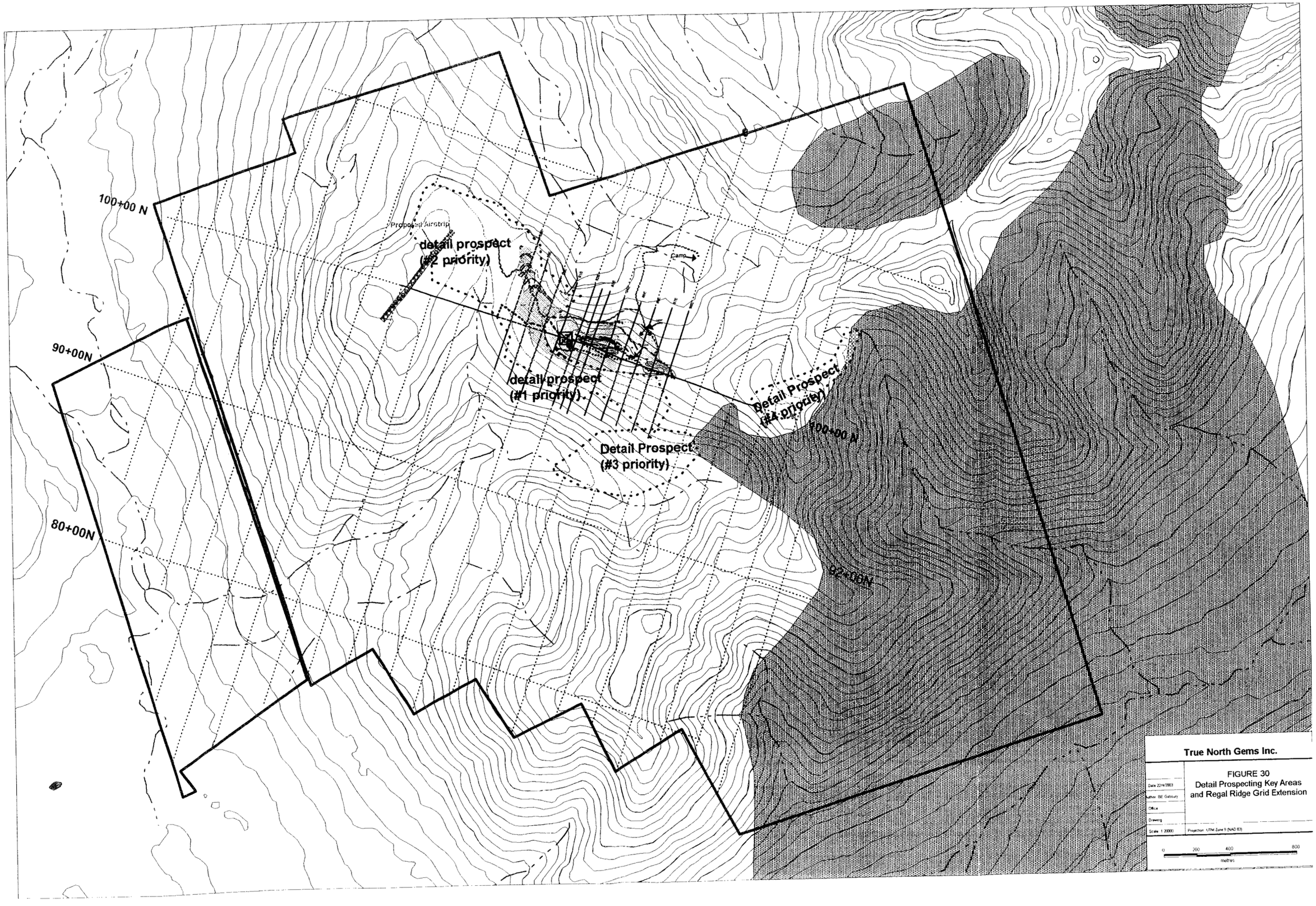
8.3 Grid Prospecting and Geochemical Sampling

Four key areas have been delineated for detail prospecting. These are based on the geochemical data associations developed by Giroux, 2002, and the point at which detail prospecting activities left off at the end of the 2002 field season in the West Zone. **Figure 30** shows the four priority detail prospecting areas for 2003. Other priority areas are also expected to develop in 2003 as new geochemical data is collected and processed.

Based on soil geochemical results from 2002, an extension of the existing Regal Ridge grid is proposed in order to assess the emerald-bearing potential of all Fire lake Group volcanic rocks and related intusive rocks on the Goalnet and RS claim Groups. Initially, a line spacing of 200 meters with a 50 meter soil sample interval is proposed. 65 km of new lines for a total of 1300 soil samples is anticipated. In conjunction with the collection of -80 mesh soil fraction (when possible), mapping and prospecting along and immediately peripheral to these lines is proposed (wood pickets at 50 meter stations, metal tags at 100 meter stations). Phase two of this operation would involve establishing intermediate lines at 100 meter to 50 meter separations and sample intervals down to 25 meters. Anomalous areas would become the target for additional detailed prospecting and eventual mechanical trenching. The proposed expansion of the Regal Ridge grid is also shown in **Figure 30**.

8.4 2003 Trenching Program

It is anticipated that the efficiency of trenching will be improved through the use of the larger D-8 cat with rippers. As trenching progressed deeper into the hangingwall waste rock on Area 14, some difficulty was encountered and progress slowed considerably. Below are the proposed areas to be trenched in the ongoing 2003 program. It is expected that new additional areas will develop as the detail prospecting and geochemical sampling progresses.


100+00 N
90+00N
80+00N
Proposed Airstrip
detail prospect
(#2 priority)
detail prospect
(#1 priority)
Detail Prospect
(#3 priority)
Detail Prospect
(#4 priority)
100+00 N
92+00N
Camp
True North Gems Inc.
FIGURE 30
Detail Prospecting Key Areas
and Regal Ridge Grid Extension
Date 2/24/2003
Author BE Gaboury
Office
Drawing
Scale 1:20000
Projection UTM Zone 9 (NAD 83)
0
200
400
800
metres

Proposed Trench Areas:

1. New ridge access road, find source of emerald float mineralization found in 2002 on the north face of the ridge (Mattscar Zone).

2. Continuation of Area 14 trenching.

3. Trench along continuation of Area 51 East Vein extension.

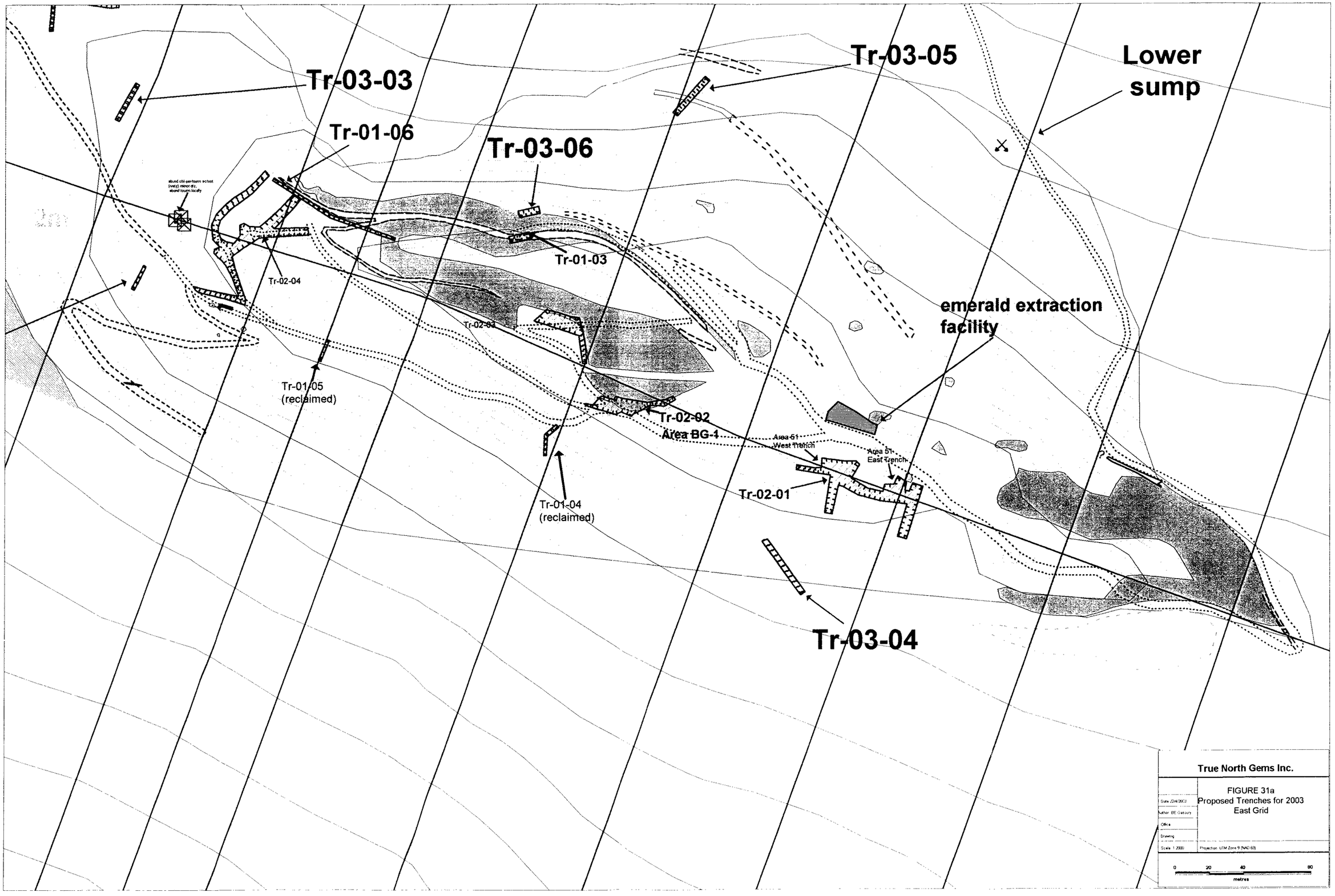
4. Trench the West #1 Vein.

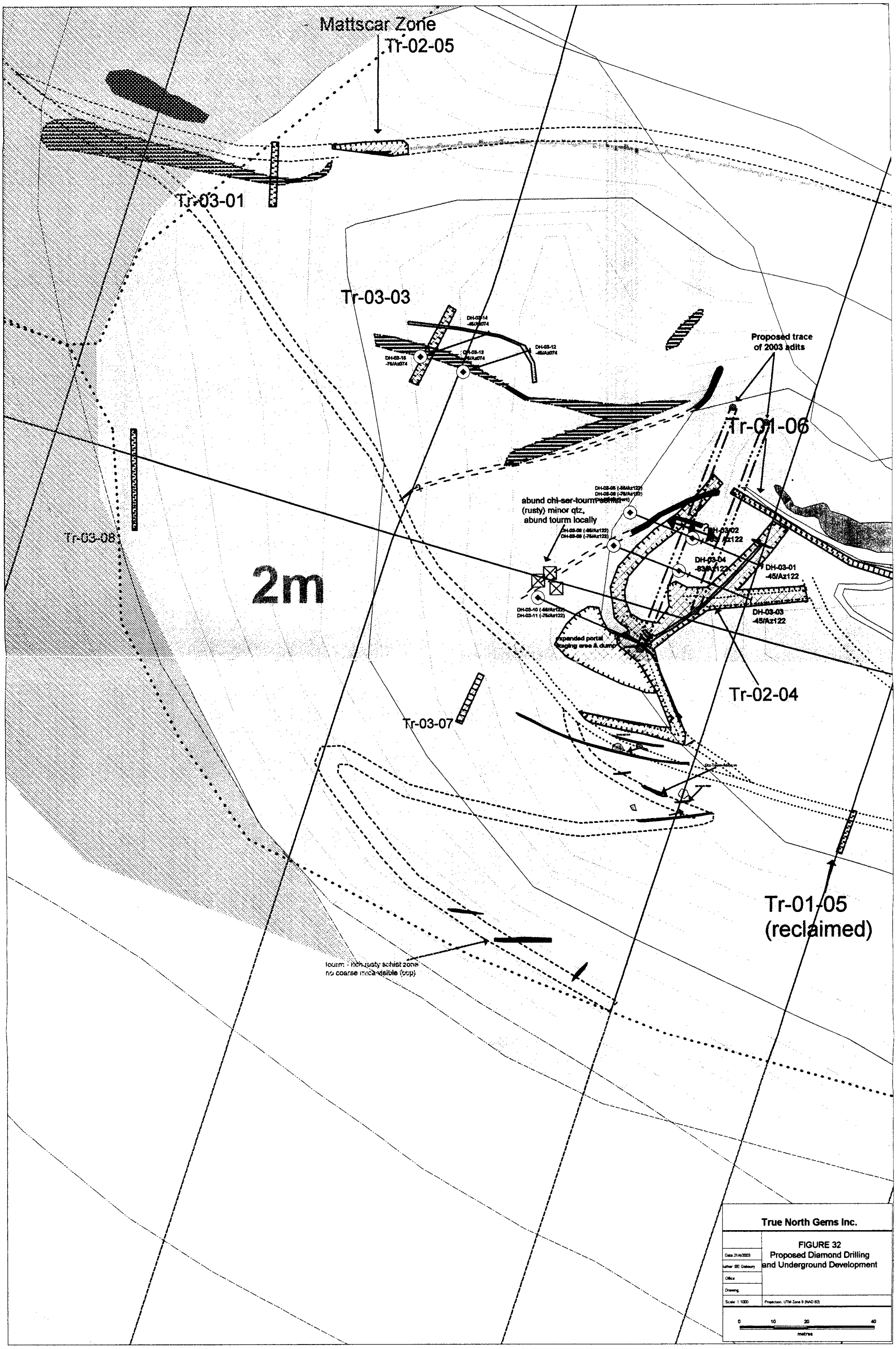
5. Trench the Far west Vein(s)

These areas are illustrated in **Figure 31a**. **Figure 31b** is a map showing proposed trenching for the western portion of the grid

8.5 2003 Diamond Drilling Program

As was concluded in 2001, diamond drilling for reserves is not a viable prospect and drilling is useful mainly to follow geology. In preparation for the underground development and sampling on the SW #1 vein at the beginning of the 2003 field season, a series of short drillholes is proposed in order to test the continuity of the SW #1 vein and its alteration envelope. The drilling will also give a qualitative evaluation of emerald-bearing potential in light of the findings of the 2002 drill program. A number of short drillholes are also proposed for the West #1 vein. Diamond drillhole # DH-03-07 is a vertical hole planned to intersect the SW #1 vein. It will be drilled to 200+ meter depth in order to test additional blind mineralization at depth. **Table 7** is a list of the preliminary drillholes proposed for the 2003 program. They total ~600 meters, and it is anticipated that the remaining 600 meters of proposed drilling will be used to test additional targets which develop during the 2003 field program.


Tr-03-03
Tr-03-05
Lower sump
Tr-01-06
Tr-03-06
Tr-01-03
Tr-02-04
Tr-02-03
emerald extraction facility
Tr-01-05 (reclaimed)
Tr-02-02 Area BG-1
Area 51 West Trench
Area 51 East Trench
Tr-02-01
Tr-01-04 (reclaimed)
Tr-03-04
True North Gems Inc.
FIGURE 31a
Proposed Trenches for 2003 East Grid
Date 2/4/2003
Author BE Gaetany
Office
Drawing
Scale 1:2000
Projection UTM Zone 9 (NAD 83)
0 20 40 80
metres


Mattscar Zone
Tr-02-05
Tr-03-01
Tr-03-03
Proposed trace
of 2003 adits
Tr-01-06
Tr-03-08
2m
abund chl-ser-tourm schist
(rusty) minor qtz,
abund tourm locally
DH-03-04
-83/Az122
DH-03-01
-45/Az122
DH-03-03
-45/Az122
Tr-02-04
Tr-03-07
Tr-01-05
(reclaimed)
tourm - rich rusty schist zone
no coarse mica visible (top)
True North Gems Inc.
FIGURE 32
Proposed Diamond Drilling
and Underground Development
Date 21/4/2003
Author BE Gebourg
Office
Drawing
Scale 1:1000
Projection: UTM Zone 9 (NAD 83)
0
10
20
40
metres

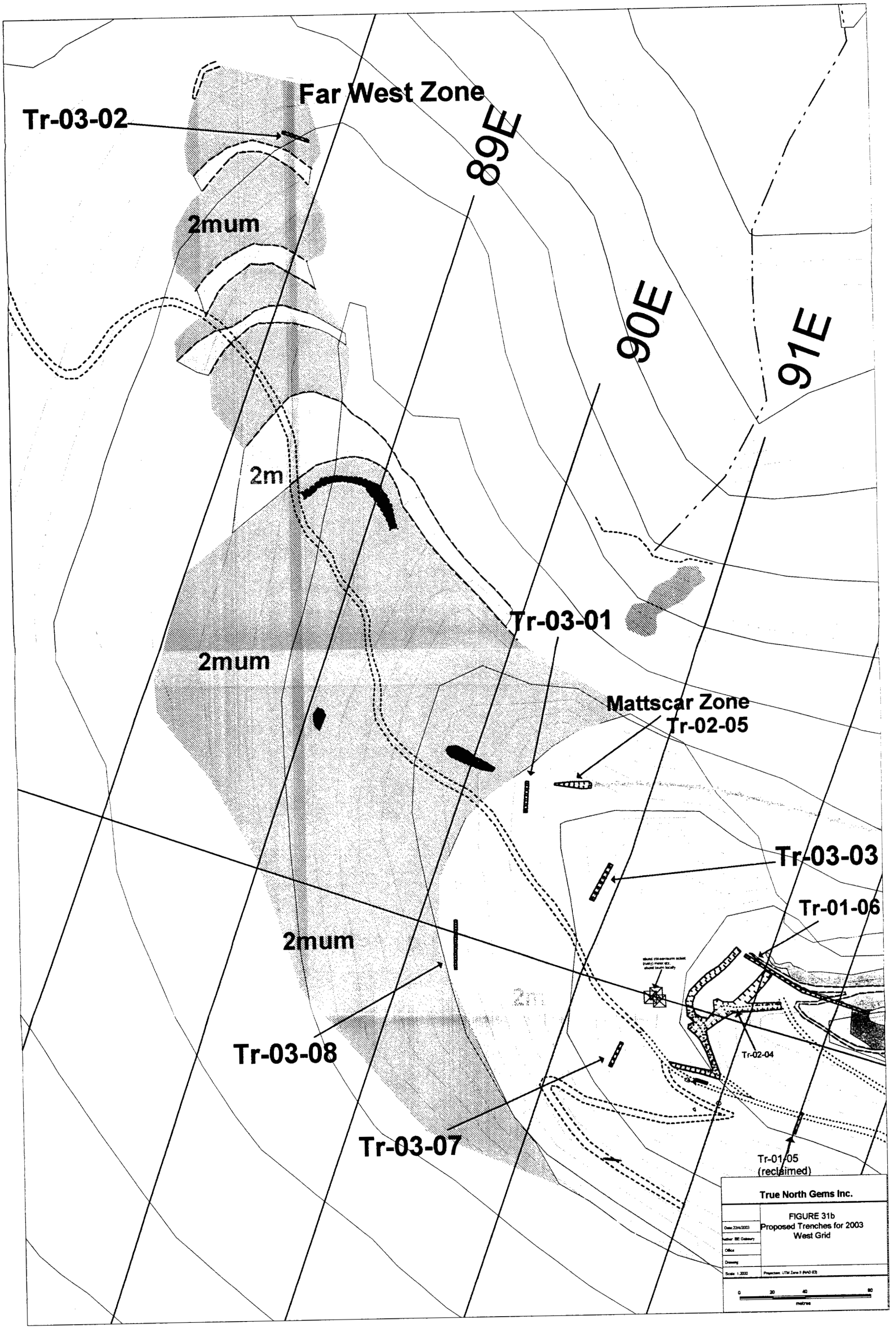

Far West Zone
Tr-03-02
89E
90E
91E
2mum
2m
2mum
Tr-03-01
Mattscar Zone
Tr-02-05
Tr-03-03
Tr-01-06
2mum
Tr-03-08
Tr-02-04
Tr-03-07
Tr-01-05
(reclaimed)
True North Gems Inc.
FIGURE 31b
Proposed Trenches for 2003
West Grid
Date: 22/4/2003
Author: BE Gaboury
Office
Drawing
Scale 1:2000
Projection: UTM Zone 9 (NAD 83)
0
20
40
80
metres

TABLE 7 2003 Drillholes				
Drillhole #	**Grid coordinates**	**attitude**	**Depth (m)**	**Target**
DH-03-01	91+79.5E / 100+23N	-45° / Az122	30	SW #1
DH-03-02	91+79.5E / 100+23N	-83° / Az122	25	SW #1
DH-03-03	91+79.5E / 100+12.5N	-45° / Az122	30	SW #1
DH-03-04	91+79.5E / 100+12.5N	-83° / Az122	25	SW #1
DH-03-05	91+60E / 100+25N	-55° / az122	35	SW #1
DH-03-06	91+60E / 100+25N	-75° / az122	35	SW #1
DH-03-07	91+60E / 100+25N	vertical	200+	SW #1
DH-03-08	91+58E / 100+15N	-55° / az122	35	SW #1
DH-03-09	91+58E / 100+15N	-75° / az122	35	SW #1
DH-03-10	91+46E / 99+94N	-55° / az122	35	SW #1
DH-03-11	91+46E / 99+94N	-75° / az122	35	SW #1
DH-03-12	91+01E / 100+52N	-45° / Az074	30	West #1
DH-03-13	91+01E / 100+52N	-75° / Az074	30	West #1
DH-03-14	90+88E / 100+52N	-45° / Az074	30	West #1
DH-03-15	90+88E / 100+52N	-75° / Az074	30	West #1

8.6 2003 Underground Development

It has been determined during the 2001 program that reserve estimates can not be made with diamond drill data due to the "emerald nugget effect" (Gaboury, 2001). It has been concluded that this end would best be achieved through the removal and processing of a suitable sized sample of mineralized material. The SW #1 vein has been selected to be the target of such an exercise for the 2003 field program. **Figure 32** is a map showing the plan view of the adits to be driven for the development of stopes to accomplish the extraction of such a sample. **Figure 32** also depicts the position and attitudes of the initial diamond drill program discussed in the previous section.

8.7 Reconnaissance Program

A reconnaissance program is proposed for the initial assessment of the new claim groups staked by True North Gems Inc. in the months of August 2002 and January 2003. Proposals for the Glitter Claim Group are included in **Appendix D**, a report submitted to International Arimex Resources Ltd. Similarly, proposals for the Meg,

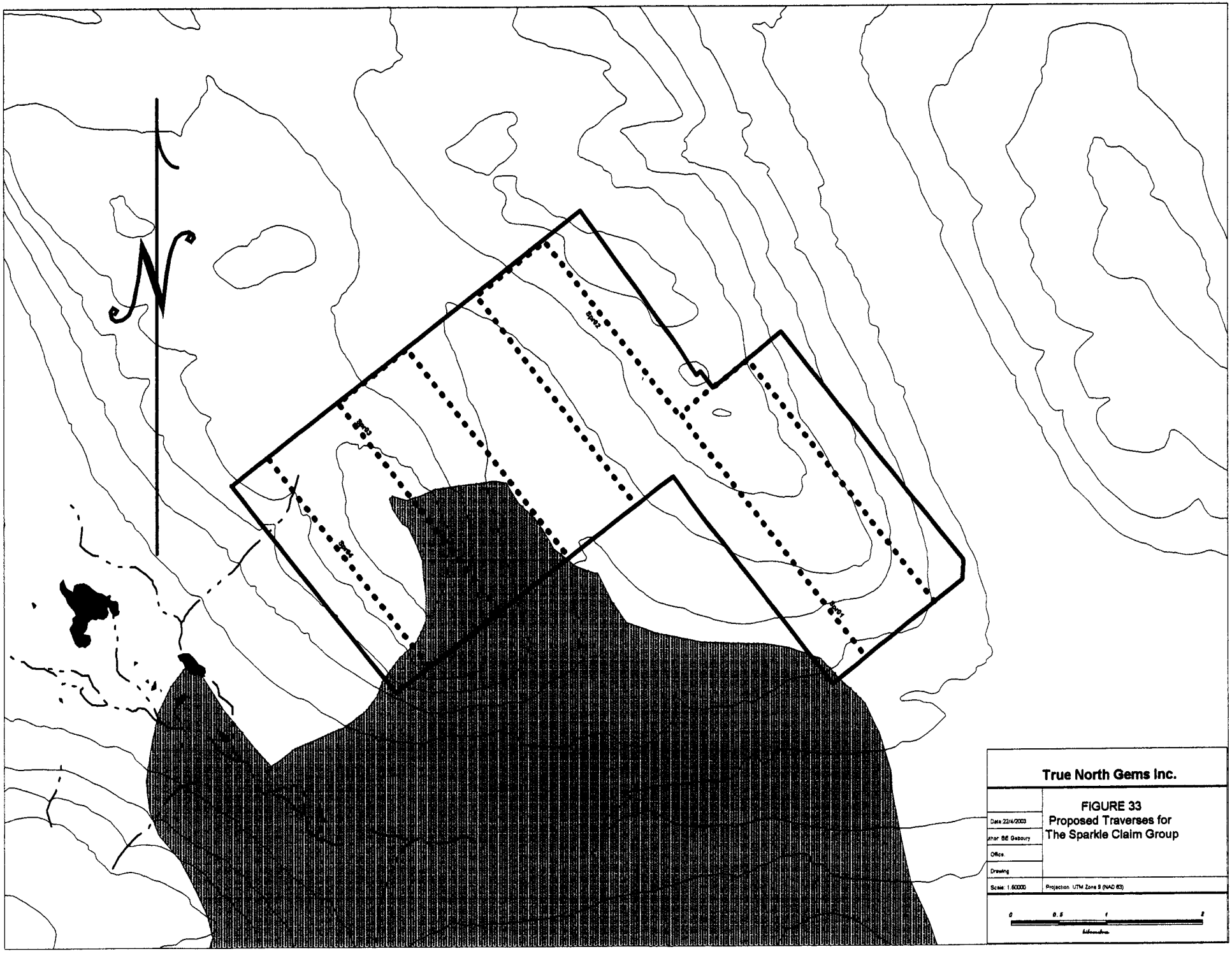
Rusty, Straw, and Lion claim groups are included in **Appendix E**, a report submitted to Firestone Ventures Inc.

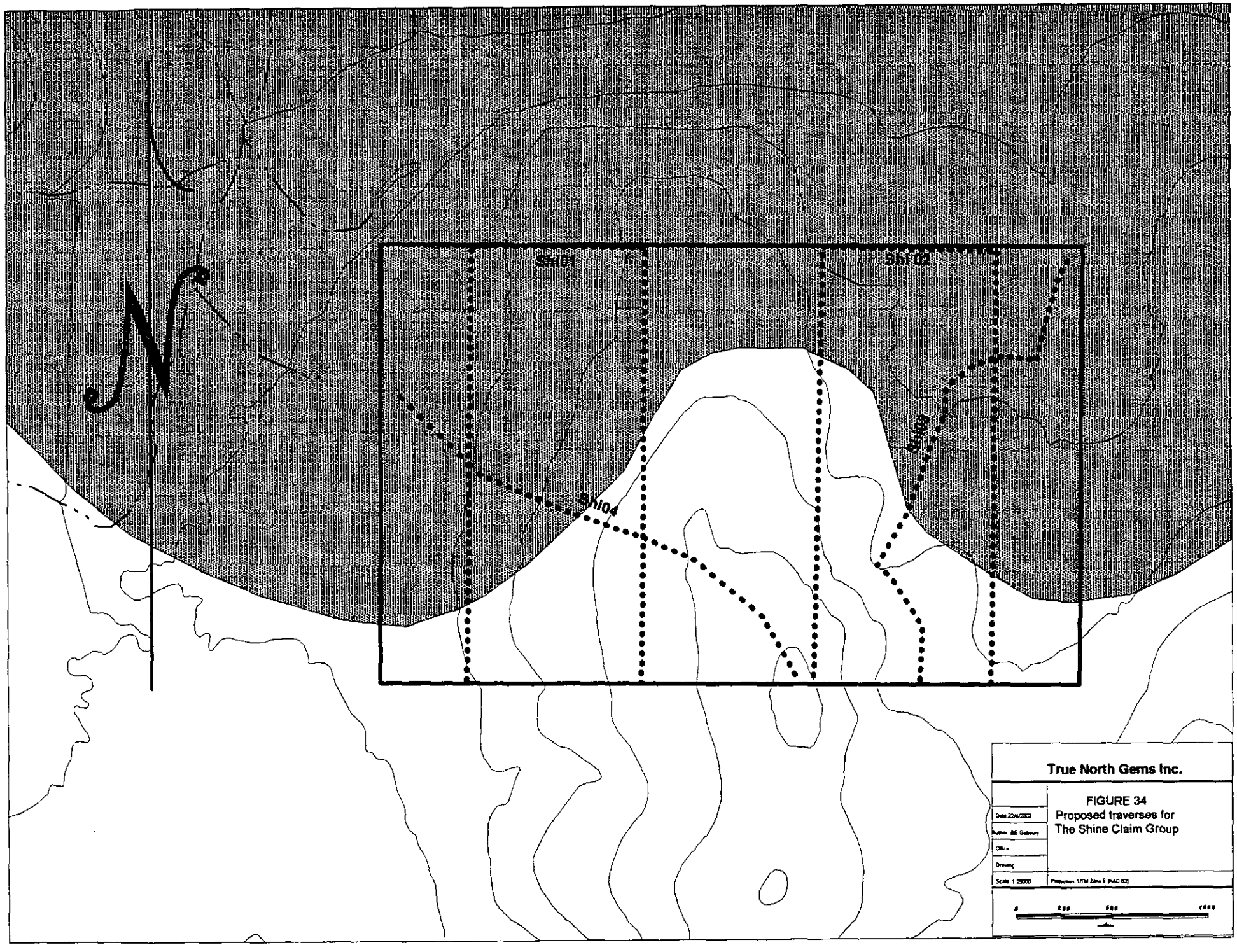
Initial assessment of the WWN, Sparkle, and Shine claims will be achieved in a similar reconnaissance prospecting and mapping program in conjunction with claim maintenance. The same three man crew will be utilized to achieve this end. It is suggested that, as was the case for the Arimex and Firestone Properties, the reconnaissance crew be stationed in the Regal Ridge camp, and be mobilized daily to the work area by helicopter for all but the WWN Claim Group. The WWN Claim Group would most effectively be accessed by the crew from Inconnu Lodge.

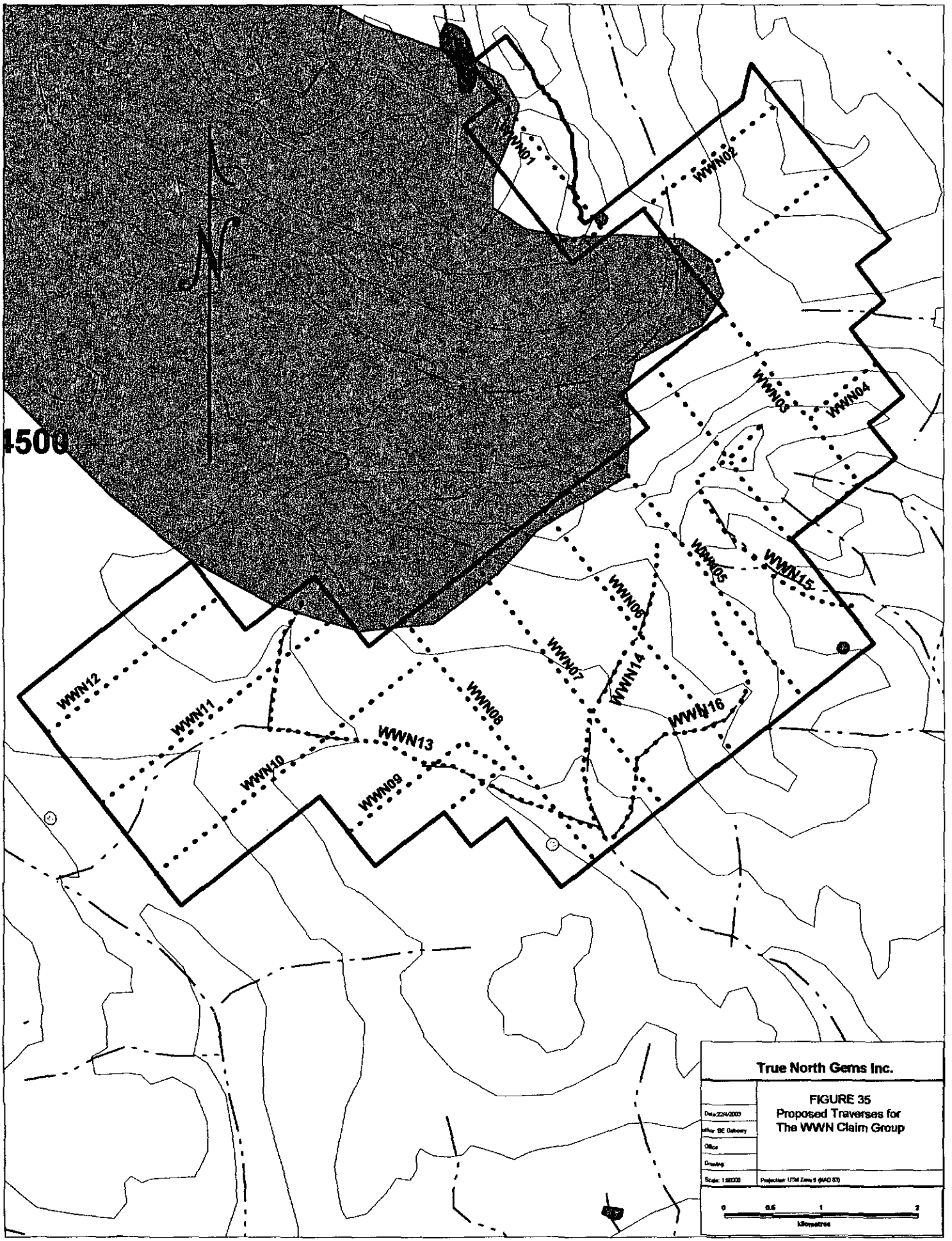
Figure 33 is a map of the Sparkle Claim Group showing the proposed traverses. This group is apparently underlain dominantly by felsic volcanic rocks of the Kudz Ze Kayah Group. It reportedly contains thin horizons of plagioclase-biotite-chlorite schists (Murphy et. al., 1999).

Figure 34 is a map of the Shine Claim Group showing proposed traverses. A large portion of this area is underlain by granitic intrusive rocks of the Grass Lake Plutonic complex in addition to the Cretaceous granite. The higher elevations however, do appear to be underlain by a series of metapelitic schists and chloritic schists.

Figure 35 is a map of the WWN Claim Group showing proposed traverses. Yukon Government regional soil geochemical data indicates that the entire high terrain to the immediate southeast of the Cretaceous granite contains anomalous tungsten (three separate drainages sampled). Government geological mapping is not useful in its description of the hostrocks surrounding the Cretaceous granite but the tungsten association is such that it has a more pronounced signature than that which exists over Regal Ridge.


N
Spk2
Spk3
Spk1
True North Gems Inc.
FIGURE 33
Proposed Traverses for
The Sparkle Claim Group
Date 22/4/2003
Auth BE Gaboury
Office
Drawing
Scale: 1:50000
Projection UTM Zone 9 (NAD 83)
0
0.5
1
2
kilometres


Shi01
Shi02
Shi03
Shi04
True North Gems Inc.
FIGURE 34
Proposed traverses for
The Shine Claim Group

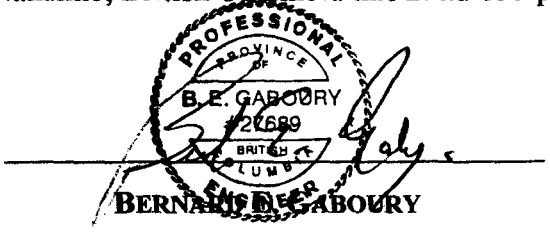

WWN01
WWN02
WWN03
WWN04
WWN05
WWN06
WWN07
WWN08
WWN09
WWN10
WWN11
WWN12
WWN13
WWN14
WWN15
WWN16
4500
N
True North Gems Inc.
FIGURE 35
Proposed Traverses for
The WWN Claim Group
Date:2/24/2009
Author: BE Calloway
Office
Drawing
Scale: 1:50000
Projection: UTM Zone 9 (NAD 83)
0
0.5
1
2
kilometres

CERTIFICATE OF QUALIFICATIONS

I, **BERNARD E. GABOURY** of Nanaimo, British Columbia do hereby certify as follows:

1. I am a geologist residing at 1935 Richardson Rd, Nanaimo, British Columbia, V9X 1C1.
2. I graduated from the University of Manitoba in Winnipeg, Manitoba in 1975 with a B.Sc (Hons, first class) in Chemistry.
3. I graduated from the University of Manitoba in Winnipeg, Manitoba in 1985 with a M.Sc. in Economic Geology.
4. I have practised my profession since 1978.
5. I am a registered Professional Engineer with the APEGM in Manitoba since 1984 and with the APEGBC since Oct 29th, 2002.
6. I am the owner operator of Cinnabar Valley Gems and Minerals, in British Columbia since 1990, where I have been engaged in the custom cutting and marketing of coloured gemstones to the retail jewellery sector.
7. I am the author of this technical report on the 2002 ***Report on Field Activities for the Regal Ridge Emerald Project, Yukon Territory, Canada*** . It is based on information collected either by myself or under my supervision during the 2002 field season.
8. This report may be utilized for the development of the property provided that no portion is used out of context in such a manner as to convey a meaning that differs from that set out in the whole.

Dated in Nanaimo, British Columbia this 22nd of April, 2003



BERNARD E. GABOURY

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APPENDIX A

DDH : AD-1
Date Started: July 23, 2002
Date Finished: Aug. 01, 2002

True North Gems Ltd
Diamond Drill Hole

From	To	From	To	Description	Samples	From	To	Length
0.00	1.83			Casing				
1.83	40.40	**Chlorite schist**						
				Fabric at 65deg. to core axis.				
				Minor qtz vn at 9'9" , at 27 deg. to CA.				
				qtz vn is 1.5 cm. thick, and dips opposite to rock foliation, at 60 deg. to foliation.				
				Other minor qtz-feldspar vnlts occur at 3.05.				
				Qtz vn with epidote alteration at 3.66 to 3.81, 3 vnlts approx. 1.5 cm thickness.				
				Epidote vnlt at 4.03, with secondary hairline qtz vnlts (ladder vnlts) at 90 deg. across epidote vnlt.				
		4.27	4.57	- strongly foliated and friable schist, silvery core.				
				moderately broken core from top of hole to 7.80m				
		5.09	5.19	Fault - Strongly foliated, rubbly to silvery section of schist, minor clay alteration. Foliation at 48				
		6.30		minor qtz-carb fracture coating, on shallow angle (0 deg to CA) irregular fracture.				
		7.80		foliation becomes slightly weaker, with fractures every 10 to 20 cm. Schist is more massive and well consolidated.				
				1-3% biotite/phlogopite porphyroblasts				
		9.50		3 cm section of silvery, broken core, probable fault surface with little or no alteration				
		9.50	9.90	slight increase in phlogopite in numerous thin layers, 3-5 mm thick, to ~5% of rock at 9.8 to 9.9				
		10.20	10.45	minor qtz vnlts and lenses, ~0.5 - 2 cm across about 3-5% of rock. Small sections of white feldpathic materiel in qtz.				
				Vnlts are sub-parallel to foliation.				
		10.55	10.60	minor qtz vnlt (2mm) at steep angle to foliation, cuts across 10 cm band of weak epidote altered schist				
		10.60	11.35	minor qtz vnlts and lenses, ~0.5 - 2 cm across about 3-5% of rock. Small sections of white feldpathic material in qtz.				
				numerous fractures near-parallel to CA. Core is partly rubbly and broken, with minor faults at 10.75 - 10.78				
				and 11.10 to 11.12				
		11.35	11.50	Strongly broken, silvery core, minor clay alteration, and numerous pale carbonate fracture coatings, at varying angles,				
				0 - 38 deg. to core axis				
		12.04	12.10	**rusty schist**, tourmaline alteration in chloritic schist.				
				Foliation at 73 deg to CA				
				1cm bands of tourm broken up by cross-cutting hairline fracture vnlts of rusty weathering carb and qt				
				Tourm veins are broken and boudinaged in places				
		12.14	12.34	**Qtz -Tourmaline vein**				
				upper contact is near - parallel to foliation. Lower contact is irregular, with massive tourmaline in last 2 -3 cm.				
		12.34		slightly rusty fracture coating along foliation in chlorite schist with numerous bands of phlogopite (1-3 mm).				
				core is broken and silvery at 12.3 and 12.55				
		14.50	14.60	small zone of chl-phlog-tourm-musc schist				
		14.75	15.50	Start of rusty schist zone in chlorite schist.				
				rusty carbonate and clay fracture coatings at shallow angles (0-5 deg) to CA				
				foliation at 85 deg to CA				
		16.00		fault - at 85 deg. to CA. Silvery gouge, strong foliated chlorite schist with carb (white to rusty brown weathering),				
				minor malachite staining on fractures				
		16.15	16.40	rusty schist - chlorite schist with phlogopite and tourmaline at 16.18 to 16.20				
		17.30	17.35	*rusty schist - chlorite schist with phlogopite*				
		17.35	17.60	rubbly broken core of chlorite schist				
		17.60		foliation at 45 deg to CA				
		18.90	19.10	numerous small (<5mm) qtz vnlts cross cut by micro faulting and kink folds. Vnlts are oblique to foliation (60 deg)				
		19.60		slight increase in biotite/phlogopite layering in schist. Possible relict bedding or flow banding at 20.40 to 20.70				
				Bedding at shallow angle to foliation.				
		20.60	20.70	fault breccia, healed with tourmaline infilling				
		21.03	21.40	**Qtz-tourm vein**, with rusty to cream coloured carb vnlts cross-cutting.				
		21.80	21.90	fault breccia, healed with tourmaline infilling				
		22.80	23.00	rubbly broken core , abundant fractures cross-cutting foliation, with some clay +carb + qtz fracture coatings, in schist				
		24.60	24.80	clay gouge and rubbly, broken core				
		26.60	26.70	**Massive tourmaline**, with some muscovite, biotite, phlogopite				
				minor vein qtz, carb and trace scheelite				
				Grades into rusty chlorite -biotite - muscovite schist at 26.70				
				irregular lower contact at 50 deg to CA				
		26.70	27.60	**Rusty chlorite-tourm - phlogopite schist**				
				rusty clay gouge at 27.15 to 27.20				
		28.50	29.70	50% lost core				
		28.60	29.10	rubbly broken core				
		29.10	30.00	**Rusty weathering chlorite - phlogopite schist**				
				strongly altered, with clay and muscovite. Some brecciation and broken, rubbly sections				
		30.00		Foliation at 60 deg. to CA, gradually increasing to 85 deg. at 30.30, until 31.50, where it is cut by a fault, after which				
				foliation is back to 67 deg.				
		34.14	34.30	rubbly core with minor chloritic and clay gouge at lower end.				
		37.80		1 - 2 cm section of rubbly qtz in chlorite schist, with lower contact of rusty coarse micas .5 - 1mm thick bands, parallel				
				to foliation at 65 deg to CA				
40.40	49.38	**Chlorite - phlogopite schist**						
				occasional tourmaline blebs and crystals				
				foliation decreases angle to about 45 deg. to CA at 41.70				
		42.90	43.00	**Qtz - tourmaline vn, 60 - 70% massive tourmaline**				
		43.00	46.20	Qtz - carb -muscovite vnlts, sub-parallel to CA, cross-cutting small qtz vns with minor epidote alteration.				
				occasional cross-cutting qtz tension veinlets				
		47.70	47.90	Foliation increases angle to 70 - 90 deg to CA				
49.38		**chlorite schist**						
				numerous tourmaline strgs. minor qtz vnlts, 4cm qtz vn at 50.16,				
		49.38	49.75	**Qtz - tourmaline vn**				
				slightly rusty phlogopite-chlorite-tourm schist at lower contact (3 cm), at 50 deg. to foliation, which is at 73 deg to CA				
		50.77	51.30	**Tourmaline vn with interstitial qtz**, minor qtz vns, chloritic ("tourmaline - chlorite schist")				
		51.60	52.35	**tourmaline vn as above**				
				larger tourmaline crystals are broken and boudinaged, occasional hairline qtz tension vnlts				

DDH : AD-1
Date Started: July 23, 2002
Date Finished: Aug. 01, 2002

True North Gems Ltd
Diamond Drill Hole

From	To	From	To	Description	Samples	From	To	Length
		53.00	**53.34**	**tourmaline vein - tourmaline-chlorite schist as above**				
				lower contact has thin layer of rusty clay and flaky muscovite and chlorite.				
		53.34	54.14	relict phenocrysts or clasts - white plagioclase? in chlorite schist, foliation at 56 deg. to CA				
		57.25	**58.60**	numerous clay gouge segments, 1cm thick, at 57.25, 57.60, 57.70, 58.30, 58.45, parallel to foliation at 58 deg. CA				
		61.50	62.30	highly fractured and jointed chlorite schist with numerous irregular and cross-cutting qtz veins 1-3 cm thick				
		62.30	69.00	strongly silicified chlorite schist with numerous qtz veins, increasing over 3 m to a siliceous, massive chlorite schist at 65.00				
				Several patches (2-5cm) of epidote alteration with cross-cutting qtz tension fracture vnlts				
		66.80	67.10	Carb-qtz-tourm veins, irregular, with rusty weathering carbonate.				
		67.60	68.25	Strong hydrothermal alteration and brecciation, qtz-carb-epidote and chlorite-tourmaline replacement.				
				Pale pink to buff colour,				
		69.00	69.60	tourmaline - chlorite schist with minor rusty phlogopite schist layers				
		70.20	70.60	tourmaline - chlorite schist with minor rusty phlogopite schist layers				
		74.00	75.70	.3 m lost core - rubbly section				
		75.10	**75.70**	**Qtz - tourm vein, minor carb**				
		75.30		2cm clay-chlorite gouge, foliation at 90 deg to CA				
		75.75	**76.80**	**Qtz - tourm vein, as above.**				
		84.80	85.90	faulted and weakly crenulated schist, with minor sections of clay/chloritic gouge				
		85.00	85.10	Qtz-tourm vein with some minor carb in strongly sheared chlorite schist				
				foliation at 65 deg to CA				
		87.95	**88.80**	**Rusty schist**				
				phlogopite - chlorite - tourm with qtz				
				weakly silicified, with 1-2 cm bands of tourm at 88.4, 88.6, 88.7				
		90.00	90.20	Rusty schist, as above				
		90.60	**91.50**	**Rusty schist**				
				phlogopite - chlorite - tourm with qtz, musc, minor cross-cutting, rusty weathering carb vnlts 1-3 mm				
				foliation varies from 60 to 80 deg to CA				
				near-massive tourmaline at 90.6 to 90.9				
		91.50	93.30	Silicified chlorite schist with abundant tourmaline and phlogopite (overall 1-3%)				
				foliation varies widely, tight folds visible in core, avg. 45 to 60 deg to CA				
		93.30	94.95	Rusty schist, as above				
		95.07	95.43	Massive tourmaline, with minor qtz strgrs, patchy trace phlogopite and muscovite				
				lower contact has thin layer of rusty clay and phlogopite/biotite				
		95.80	96.00	Section of silicified chlorite schist with ~30% tourmaline and minor Qtz in 3 sections, 1-3cm each, with Tr phlogopite				
				Some qtis cross-cutting tension vnlts 1-5mm thick, parallel to CA. Overall qtz is 3-5%				
		100.20	100.40	Qtz vein, sugary qtz, fine grained, with minor tourm at both contacts. Foliation at 74deg. to CA				
		102.00	102.14	qtz vein, as above, with tr mucovite, esp. on fracture surfaces.				
		105.40		5cm section of clay&chlorite gouge and rubbly core				
		113.00	113.40	rubbly core with minor chloritic and clay gouge				
		113.40	114.10	numerous qtz and rusty carbonate strgrs and vnlts, 1mm up to 2cm, parallel to foliation				
		116.00	**116.20**	**Qtz-tourmaline vein. Tourm mainly in rusty schist in the 3cm vein selvage at top and bottom of setion**				
				qtz contains ~20% pale green, massive, finely crystalline mineral (chalcedony?)				
		117.80	118.40	rubbly core, with irregular tourm vn, minor qtz at 117.9 to 118.05				
		119.40		foliation at 45 deg to CA				
		120.50	121.10	rubbly core, irregular qtz vein .2 - 3cm, minor carb fracture coating				
		122.80	**123.44**	**Rusty Schist**				
				phlogopite and muscovite, with qtz-tourm vn at 122.80 -122.90 and 123.20 - 123.30				
				foliation at 53 deg. to CA				
		125.58	126.00	Rusty schist, as above				
				brecciated qtz-tourm vn throughout, up to 5% of rock				
		126.00	127.10	rubbly broken core and clay gouge				
		127.50	127.60	fault - clay and chloritic gouge, parallel to foliation				
		129.66	129.67	fault - clay and chloritic gouge, parallel to foliation				
		129.90	133.00	minor faults - five 1cm sections of clay gouge and strong foliation, silvery schist				
				fabric in schist contains many relict stretched fragments or clasts of feldspathic material				
		141.85	142.00	qtz in chlorite schist, cross-cutting foliation				
		142.44	142.50	qtz in chlorite schist, cross-cutting foliation				
		150.70	150.80	fault - clay and silvery gouge				
		151.30	152.00	strong shearing, foliation is tightly refolded. Silvery and clay gouge from 151.8 to 152.00, minor tourm and qtz				
152.00	**166.73**			**Granitic sill**				
				med to coarse grained, syenite or monzonite in composition				
				upper 30 cm has aphanitic groundmass with feldspar phenocrysts				
				possible chill margin, but upper contact is a sharply defined fault surface, with slickensides.				
		154.70	154.85	Fault - strongly sheared, with minor clay gouge, sandy and rubbly gouge				
		154.85	156.00	strongly fractured, with rusty stained fracture selveges, minor gouge and rubble at 155.7 - 156.00				
		158.80	160.50	fault zone, with brecciation and clay infilling in upper 20 cm. Other minor faults at 160.63, 162.15, 165.8				
		166.20	166.70	gradual bleaching of granite, and fine banding, strong pale bleaching alteration halos around felspars in last 20 cm				
166.70	**196.60**			**Chlorite Schist**				
		166.70	166.73	zone of very strong in-situ clay alteration with relect fabric, strong foliation and cleavage. Light rusty to buff colour				
				with slickensides visible. Foliation/contact at 80 deg to foliation				
		171.85	172.20	Tourmaline alteration zone with 3-5% tourm, in hydrothermal bleaching and recrystallized tourmaline				
		172.35	175.40	Minor qtz vn in schist				
		175.45	175.50	qtz-tourm vn, parallel to foliation at 80 deg. to CA				
		175.50	175.80	Tourm-rich layers in schist, up to 10%				
		179.20	179.40	Fault - clay and chloritic gouge				
		179.55	179.65	qtz-tourm vn, parallel to foliation at 80 deg. to CA				
		180.40	195.20	Blocky faulted core, numerous clay gouge sections and fault rubble				
				gouge sections at 180.40 - 183.55, 187.70 - 187.95, 188.5-189.80 (.5m lost), 189.88 - 192.63, 192.75-193.10,				
				194.00-194.50,194.80-195.00,196.50-196.60				
196.60				End of hole				

DDH : AD2
Date Started:
Date Finished:

True North Gems Ltd
Diamond Drill Hole

From	To	From	To	Description	Samples	From	To	Length
0.00	1.75			Casing				
1.75	24.45			Chlorite Schist				
				Fine grained, darg green - grey, with moderate to strong foliation at 40 deg. to CA				
				occassional med. grained white feldspar phenocrysts and irregular epidote alteration.				
				Thin qtz veinlets, .5 to 2 cm thick at varying angles, with trace tourmaline, and occasional thin tourmaline vnlts.				
		7.33	7.39	Clay gouge with fine schist fragments				
		12.40	12.50	Small section of slightly rusty schist with coarse phlogopite and minor clay alteration				
		13.85	14.00	Rusty schist, coarse phlogopite/biotite, minor tourmaline. Foliation at 60 deg. to CA				
		15.50	15.55	minor section of rusty schist with trace tourmaline				
		19.60	19.80	Rusty schist with fine layers of tourmaline in rubbly core				
		21.75	24.45	Rusty schist - biotite - phlogopite - chlorite schist				
				numerous silicified lenses in schist. Rubbly fault at 21.75 to 22.86. Foliation at 70 deg. to CA				
24.45	28.90			Qtz-Tourmaline vein, with over 50% tourmaline. Contacts are near parallel to foliation. Numerous rubbly fault gouge				
				sections, including 24.60 -24.75 and 26.15 - 28.90				
				Strongly fractured, with carbonate vnlts and occasional cross-cutting qtz tension vnlts, perpendicular to selvage.				
				Biotite in hanging wall selvage schist.				
				Also, minor rusty schist blocks in vein, coarse muscovite at footwall selvage.				
28.90	34.44			Pervasive tourmaline alteration in chlorite schist. Up to 1% tourmaline in small veins and blebs. Diminishes downhole.				
				minor section of rusty schist < 2cm thick				
				Minor qtz veins & possible gypsum				
				foliation at 55 deg. to CA at 29.57				
		33.83	34.44	Fault zone - blocky core, minor clay				
34.44	34.94			Chl-Ser-Biot schist				
				somewhat lighter coloured, more schistose rock with up to 5% biotite in schlieren parallel to foliation				
		34.73		1 cm wide qtz-tourm vnlt cuts foliation at 90 deg., foliation at 40 deg. to CA				
34.94	35.30			Chl-Ser schist				
				Still med. green, finer grained, occasional schlieren & wisps of qtz (some ptygmatically folded)				
				foliation at 45 deg. to CA at 29.57				
				Lower 1.0 cm chlorite rich				
35.30	35.48			Qtz-tourm vein, chloritic selvages, CA's 45 deg.				
35.48	37.15			Chl-Ser-Biot schist				
				rusty sections, biotite up to 5% as schlieren. Tourm as bands or eyes of massive crystals up to 1 cm thick, parallel				
				to foliation. (55 deg. to CA).				
				Coarse muscovite in rusty schist with qtz vein at bottom of interval.				
37.15	38.35			Chlorite Schist - darker green, monotone				
38.35	44.00			Chlorite-Ser schist				
				Alternating lighter and med. grey-green banded, with occasional biotite bearing bands and schlieren.				
				Occasional tourmaline bands up to 1cm, with perpendicular carb tension gashes. CA's 70 deg.				
				Biotite content diminishes gradually downhole to 40.80, and then gradually increases in abundance from 40.80 - 41.10				
				and again at 42.70 - 42.90				
44.85	45.30			Fault zone				
		44.85	44.90	crushed and broken core. 1 cm wide clay gouge seam at 35-40 deg. to CA				
		45.10		another 1cm clay gouge seam followed by broken core to 45.30. Chl-ser schist is bleached med. grey.				
45.30	47.00			Chl-ser schist				
				Med grey schist with crenulation cleavage. Foliation at 60-70 deg, to CA				
47.00	53.25			Chlorite schist - med grained, dark green				
				Somewhat sericitic, lighter green. Grey coloured sections from 49.98 to 52.92. CA's 35-40 deg.				
		50.80	50.90	Minor shear. CA's overall 35-40 deg with some areas of distortion				
53.25	56.39			Chl-ser - biotite schist				
				Rusty intervals begin to appear at 54.20 & extend downhole to 56.39				
				Small qtz-tourm-sulfide blebs within rusty bands. Biotite is not as abundant as previous intervals. CA's 55 deg				
				Rock becomes more carb-altered toward bottom of interval.				
		55.55	56.39	Fault zone - broken core and minor clay gouge. Some core with drusy qtz (?) on fracture surfaces				
56.39	60.96			Chlorite Schist				
				Very minor sericitic sections but pervasive tourmaline as masses, bands and individual euhedral crystals.				
		57.70	57.90	Core takes on a mottled lighter grey-green and dark appearance due to carb alteration & tourmaline masses.				
				Numerous thin carbonate veinlets parallel to foliation (60 - 70 deg. to CA)				
		57.90	60.96	Fault Zone				
				57.90 - 59.20 Rock consists of 10-20 % tourmaline (up to 50 % in sections), 15-20% qtz (drusy qtz on fracture surfaces				

DDH : AD-3 -55
Date Started:
Date Finished:

True North Gems Ltd
Diamond Drill Hole

From	To	From	To	Description	Samples	From	To	Length
0.00	15.30			Chlorite-Sericite-Biotite Schist				
				Generally grey-green, med-fine grained				
				Biotite occurs mainly as schlieren and lenses along fabric and probably averages 3-5%.				
				Minor contorted qtz veinlets up to several cm's thick with chloritic selvages. Fabric averages 70 deg. to CA.				
				Core is fairly blocky from collar to 18.29m with ~25 fractures per meter.				
		0.00	9.70	Mainly chl-biot schist (very little sericite)				
		9.70	15.30	Fault zone; schist contains slightly more sericite and is lighter in colour.				
				Clay gouge at 10.70, <1cm, rusty rubble with tourmaline at 12.00 - 12.19				
				Clay gouge at 12.70, <1cm				
				Clay gouge at 14.60, ~1cm				
				Clay gouge at 15.30, ~3cm				
				CA's 70-90 deg				
15.30	19.39			Sericite-Biotite-Tourmaline schist				
				Brecciated, mottled black, light grey-green, brown schist with contorted fabric.				
				Tourmaline >50% at top 20cm of interval, dropping to 10% in the interval from 15.80 to 16.60, then it increases to				
				40% from 16.60 to 17.66				
				Biotite reaches ~10% in the last meter of the interval. This material is identical to the "bird foot" tourmaline schist				
				overlying the Area 14 veins. CA's where not contorted ~70deg				
19.39	19.45			Qtz-Tourmaline vein				
				upper selvage biotite-muscovite, perpendicular tension gashes in tourmaline at selvages.				
				Lower selvage biotite-muscovite irregular				
19.45	20.85			Chlorite-Sericite-Biotite (+tourmaline) Schist				
				banded grey-green, brownish grey, and green schist with up to 10% biotite between 19.81 - 20.85.				
				<3% tourmaline as individual crystals, masses and thin contorted bands (ptygmatically folded)				
				CA's average 45deg., minor shear, blocky				
20.85	25.35			Chlorite-Biotite schist				
				Dark grey-green, med-fine grained schist. Patchy epdiote and qtz-epidote veinlets.				
				Biotite varies from 5-10% near top of interval to 3% around 23.47; biotite occurs as wisps and schlieren				
				Very minor sericite in the top 1 meter of the interval, increases toward bottom of interval.				
				CA's ~55-60 deg.				
		24.60	25.35	Fault zone - broken core				
25.35	26.30			Tourmaline-muscovite-biotite-sericite schist (rusty schist). In excess of 50% tourmaline as crystal masses				
				& massive bands intergrown with coarse muscovite and biotite plus associated sulphides. Rusty portions represent				
				muscovite/biotite concentrations. Fine crosscutting qtz tension gashes.				
				25.70 1cm contorted qtz veinlet at ~40 deg. to CA.				
				Generally CA's at 65 deg., except in broken section from 25.60 to 25.80				
				25.10 5cm sample with blue-grey alteration mineral, submitted to UBC for analysis.				
26.30	31.69			Sericite-chlorite-biotite schist; generally banded schist with chlorite-rich and sericite-rich bands.				
				Light brownish (hydrothermal) biotite is pervasive throughout, up to 5% in some bands. It also occurs as schlieren &				
				wisps that tend to partially cross-cut the fabric. CA's 55-60 deg. at 28.00				
		26.30	27.85	Fault zone				
				broken rubbly core with minor clay gouge				
		28.35	29.35	Fault zone				
				broken rubbly core with minor clay gouge				
		31.19	31.39	Fault zone				
				broken crumbly biotite rich material				
31.69	33.64			Chlorite-biotite schist ~40% contorted and disjointed qtz veinlets; Biotite occurs as schlieren and bands wrapping				
				around qtz lenses. Minor chlorite-sericite-biotite bands. Generally chloritic intervals with qtz demonstrate poor fabric				
				development.				

DDH : AD-3 -55
Date Started:
Date Finished:

True North Gems Ltd
Diamond Drill Hole

		31.80		8 cm wide qtz-tourmaline vein at 70 deg. to CA with chloritic selvages				
		33.44		Minor shear at ~40 deg. to CA				
		33.60		CA's at 70 deg. Minor tourmaline at bottom of interval				
33.64	35.46			Chlorite-sericite-biotite schist band. Schist with good fabric development. ~3% biotite as before.				
		35.20	35.46	Fault zone				
35.46	40.90			Chlorite schist +- chlorite-sericite schist. Banded schist with sericitic bands up to 1cm thick.				
		36.28	37.40	Chlorite-sericite-biotite schist up to 3% hydrothermal biotite.				
				CA's 37.4m 55-60 deg.				
				40.00m CA's 70 deg.				
		39.00	39.80	Fault zone; broken rubbly core				
		40.54	40.90	Carbonate - filled shear along foliation				
40.90	51.82			Chlorite-sericite-biotite schist as before				
		41.36	42.06	Chlorite schist with poor & contorted fabric, minor biotite schlieren, contorted qtz veinlets and augen				
		42.80		Fabric at 45-55 deg. to CA				
				Biotite occurs as schlieren on selvages of qtz veinlets & at edges of qtz augen & sericite-richer bands				
		43.57	43.70	Minor fault; rusty broken crushed core with qtz. Rusty chlorite-sericite schist extends ~20 cm uphole				
		44.30	45.60	Chlorite schist interval; minor contortion and epidote veinlets at 50 deg. to CA				
		45.72	46.47	Rusty biotite-rich interval of Sericite-chlorite-biotite schist. CA's 55 deg.				
		46.47	46.53	Qtz vein with chlorite, minor muscovite and tourmaline upper selvage. Upper CA >60 deg., lower broken				
		46.53	46.94	Chlorite-Sericite-biotite schist as before				
		46.94	47.95	Chlorite schist interval, minor fault at 47.64 - 47.95				
		47.95	48.77	Chlorite-Sericite-biotite schist as before				
		48.77	49.12	Chlorite schist with epidote masses similar to interval above.				
		49.12	49.40	Rusty Biotite rich interval with 5-8% sulphide including pyrite, pyrrhotite, chalcopyrite				
		49.40	50.00	Chlorite schist, as before				
		50.00	51.40	Chlorite-Sericite-biotite schist as before				
				Upper portion ~3-5% biotite. CA's ~60 deg.				
		51.40	51.80	Shear zone; broken, crushed chloritic interval				
51.82	55.80			Rusty schist; Sericite-chlorite-biotite schist				
		51.82	52.90	Sericite rich interval with up to 20% sulphides locally. Upper 30cm - 20% sulphides and 20% tourmaline. Next 30 cm				
				8-10% sulphides and 10% tourmaline.				
				Lower end of interval is chlorite-tourmaline with minor qtz veinlets				
		53.04	54.56	Fault zone; Broken rubbly core and clay gouge				
		54.56	55.20	Rusty schist; Sericite-chlorite-biotite schist				
				At least 3-5% sulphide remnants. Minor shearing at bottom of interval				
		55.20	55.35	Rusty qtz vein at ~45 deg to CA with chlorite/muscovite selvages (no tourmaline)				
55.80	67.06			Chlorite schist as before, but not contorted. No epidote, no biotite or sericite. Minor qtz veinlets at various CA's				
				Fabric ~50 deg to CA				
		55.80	56.00	Fault zone				
		57.00	57.91	Fractured, broken core, fracturing down CA				
		59.00	60.60	Broken, rubbly core				
		60.60	60.80	Minor rusty schist interval with coarse muscovite and biotite				
		60.80	65.00	Fault zone, broken rubbly core, fracturing down CA. Many filled with clay gouge.				
		66.70	67.00	Fractured core; fractures at various CA's				
67.06				EOH				

DDH : AD-4
Date Started:
Date Finished:

True North Gems Ltd
Diamond Drill Hole

From	To	From	To	Description	Samples	From	To	Length
0.00	13.93			Chlorite Schist				
				med-fine grained, greyish green to olive green schistose rock with quartzose ghost fragments (possibly amygdules)				
				Foliation well developed with exception of darker coloured interval from 7.60 - 9.75 (contorted with epidotized irregular				
				masses). Biotite generally increases from 0% at top of interval to ~3% at bottom (as schlieren at low angles or				
				parallel to fabric).				
				CA's 2.00m - 55 deg. 6.70 - 55 deg 10.60 - 45 deg.				
13.93	14.63			Tourmaline-qtz vein; 60-70% tourmaline, remainder qtz. Upper CA 55 deg. Lower CA near 0 deg.				
				Contains late-stage fine qtz veinlets perpendicular to upper contact. Lower contact zone is light greenish-grey sericite				
				schist.				
14.63	23.17			Chlorite-Sericite-Biotite schist;				
				Lighter grey-green, somewhat banded schist with 1-3% biotite as schlieren. Top of interval has irregular qtz vein ~5 cm				
				wide, apparently at <= 20 deg. to CA				
		14.83	16.00	Minor shear zone, rubbly core with siliceous rusty 5cm wide section at bottom of interval. CA 60deg.				
		17.00	17.50	Shear zone, rubbly and crushed core. Upper *CA* parallel to fabric ~ 50 deg.				
		18.29	18.69	Shear zone, rubbly and crushed core. Lower *CA* parallel to fabric ~ 60 deg.				
		19.75	20.73	Shear zone, broken intervals and 2 clay gouge zones				
		20.73	23.17	Somewhat more chloritic with some qtz-chlorite veining.				
23.17	25.00			Rusty chlorite-sericite-biotite schist similar to interval above, but rusty, more olive to brownish green, traces of				
				sulphide visible in biotite schlieren. Occasional thin tourmaline lenses and bands. CA's 50deg.				
				Ptygmatically folded 1cm wide qtz-tourmaline veinlet cuts fabric at ~20deg to core axis at 23.80m				
25.00	27.40			Chlorite-sericite-biotite schist; as before but becomes increasingly rusty, becoming like the previous interval.				
				Biotite consistently >= 3%, occasional qtz-tourmaline veinlets or tourmaline-rich bands parallel to foliation.				
				CA's 55 deg.				
				Core is broken and somewhat rubbly at bottom of interval.				
27.40	31.50			Brecciated sericite-muscovite-biotite-chlorite schist				
				Grey to greenish grey med-fine grained schist with purplish-grey sericitic lensoid fragments, rusty often tourmaline				
				rich cross-cutting veinlets at all CA's. Overall at least 1-2% sulphide including some chalcopyrite.				
		27.40	27.80	Fault zone, broken rubbly core with some localized gouge				
		30.50	31.50	Silicified interval with ~5-10% tourmaline overall and at least 2% sulphide as disseminations associated with tourmaline.				
		30.85	31.00	Qtz-tourmaline vein; irregular selvages at ~90 deg to CA. Some cross-cutting carbonate veinlets.				
		31.00	31.50	More chlorite-rich interval with ~10% tourmaline as bands parallel to fabric (at 45 deg) or at 90 deg. to core axis				
31.50	37.19			Sericite-chlorite-biotite schist as before				
		32.00	34.75	Fault zone; broken, rubbly core. Clay gouge near top of interval. Fractures at various CA's (many at low to 0 deg)				
				Carbonate veinlets at high CA's at 33.40m. Rusty fractures at 33.50m, 34.60m				
		35.17	35.60	Rusty sericite schist contains silicified bands up to 3cm wide at CA's >=70 deg. with rusty selvages				
		35.60	37.19	Fault zone; broken, rubbly core and several gouge seams up to 3cm wide.				
				Fabric ~70 deg. to core axis				
37.19	51.19			Chlorite schist, as before.				
				Dark greyish green, very mildly banded schist with ~3-5% qtz veinlets up to 3cm wide generally parallel to fabric,				
				occasional epidote veinlets.				
				CA fabric at 43.00m - 45 deg.				
				Becomes slightly more sericitic with biotite-bearing sections below 47.00m				
51.19	54.04			Chlorite-Sericite-Biotite schist				
				Greenish-grey, moderately to poorly foliated med-fine grained rock with occasional tourmaline bands parallel to fabric.				
				51.82m fabric at 50-55 deg.				
				Some irregular epidote masses around 52.30m to 53.60m				
54.04	54.86			Brecciated tourmaline-carbonate altered chlorite-sericite schist. Appears to have fuchsite at top of interval.				
				Most of the rusty fractures and carbonate veinlets at 55-65 deg to core axis.				
				Fine irregular qtz veinlets cut the core in opposite directions at 55 deg.				
				~10% tourmaline as irregular masses				
				~10% qtz as veinlets <= 1cm wide				
54.86	60.96			Chlorite-sericite schist, grading downhole into chlorite schist (as before) with 5-7% qtz veinlets up to 10cm wide,				
				generally parallel to fabric. Minor occasional epidote masses.				
				CA fabric 57.50m ~55 deg.				
60.96				EOH				

DDH : AD-5
Date Started: Aug.16, 2002
Date Finished: Aug. 20, 2002

True North Gems Ltd
Diamond Drill Hole

From	To	From	To	Description
0.00	1.54			Casing
1.54	33.83			**Chlorite Schist**
				Strongly fractured, blocky core, minor epidote alteration in diffuse replacement vnlts, some qtz
				foliation at 85 deg. to CA
		5.80	5.85	Tourmaline replacement vein, with sericite vnlts. at 37deg to CA
		6.50		foliation at 58 deg to CA
		7.35	7.60	minor biotite and tourmaline alteration in thin layers of biotite-tourm schist , schlieren
		9.50	10.35	rubbly and blocky core
				rusty fracture coatings and minor biotite alteration
		10.35	**10.67**	**Qtz- tourmaline vein** with over 50% tourmaline. Highly pulverised and broken core, minor clay gouge.
		11.20	11.30	small patch of tourmaline and minor qtz, in strongly folded, crenulated chlorite schist, sericite alt'n
		12.80	16.30	Slight increase in number of qtz-epidote alteration vnlts, and up to 1-2% biotite/phlogopite
		16.30	18.70	biotite-phlogopite schlieren and layers, 3-5%, locally up to 10% at 16.40 - 16.65
		18.70	18.85	Qtz vn with minor tourmaline
		19.60	19.80	Fault - slivery core and minor clay gouge
		19.80	20.00	minor malachite stain along fractures, trace biotite
		20.30	22.80	Strongly fractured, blocky core
		26.85	32.00	biotite-phlogopite & tourmaline schlieren and layers, 3-5%, locally up to 30% biotite
				foliation at 80 to CA
		27.75	30.50	numerous small tourmaline - qtz vns and lenses,
				minor fault with clay gouge at 28.20 - 28.30
				biotite/phlogopite is abundant as schlieren in chlorite schist
		28.60	28.95	qtz- tourmaline vein with up to 2% biotite/phlogopite
		31.30	33.83	gradual decrease in biotite/phlogopite, to <1% at bottom of hole.
				Core is less fractured. Foliation at 50 deg to CA
33.83				Bottom of hole

APPENDIX B

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: TRUE NORTH GEMS
701 KENWOOD RD.
WEST VANCOUVER BC V7S 1S7

Date : 30-Oct-2002
Account: THR

CERTIFICATE VA02003451

Project : Regal Ridge

P.O. No:

This report is for 200 ROCK samples submitted to our lab in North Vancouver, BC, Canada on 13-Sep-2002.

The following have access to data associated with this certificate:

ANDY SMITH
DAVID GABOURY

SAMPLE PREPARATION

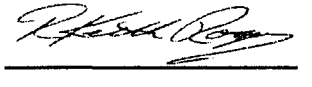
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	47 element four acid ICP-MS	
ME-ICP61i	ICP-AES elements for ME-MS61	ICP-AES
ME-MS61i	ICP-MS elements for ME-MS61	ICP-MS

To: **TRUE NORTH GEMS**
ATTN: ANDY SMITH
701 KENWOOD RD.
WEST VANCOUVER BC V7S 1S7

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 

ALS chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: TRUE NORTH GEMS
701 KENWOOD RD.
WEST VANCOUVER BC V7S 1S7

Date : 30-Oct-2002
Account: THR

Project : Regal Ridge

CERTIFICATE OF ANALYSIS VA02003451

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 0.5	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
2002-04-02-0001		0.52	0.06	7.16	1.1	610	2.43	0.16	3.39	0.16	7.71	45.6	369	13.05	149.0	6.54
2002-04-02-0002		0.70	0.06	6.97	1.4	470	1.54	0.22	3.46	0.17	11.95	44.0	363	14.45	187.0	6.04
2002-04-02-0003		0.66	0.06	7.12	1.6	720	1.16	0.17	2.99	0.13	21.0	37.6	291	15.20	109.0	5.69
2002-04-02-0004		0.48	0.06	7.45	2.1	290	1.35	0.16	1.25	0.27	5.79	50.0	327	23.1	489	7.61
2002-04-02-0005		0.16	0.04	6.73	2.2	710	1.87	0.28	2.19	0.16	28.0	29.3	204	11.95	82.0	4.70
2002-04-02-0006		0.36	0.06	6.64	4.3	480	2.24	0.35	1.76	0.16	34.0	48.8	286	12.50	54.9	6.14
2002-04-02-0007		0.42	0.02	7.76	0.9	1270	2.31	0.18	0.50	0.08	81.9	10.0	46	24.0	31.0	2.86
2002-04-02-0008		0.68	0.04	7.43	1.6	720	1.52	0.17	1.77	0.11	41.4	30.0	200	24.3	52.9	4.85
2002-04-02-0009		0.54	0.05	8.82	2.1	210	6.80	0.54	0.55	0.19	12.05	115.0	686	31.0	80.3	12.10
2002-04-02-0010		0.54	0.04	6.27	1.5	510	1.80	0.25	2.38	0.21	22.1	40.4	238	14.45	35.8	5.64
2002-04-02-0011		0.36	0.05	5.92	1.4	320	1.88	2.59	2.44	0.34	15.45	49.2	277	14.65	16.3	6.22
2002-04-02-0012		0.54	0.04	6.30	2.5	460	1.42	0.24	2.59	0.12	23.1	44.3	293	8.36	31.5	5.88
2002-04-02-0013		0.34	0.04	6.17	1.9	310	1.22	0.24	2.78	0.16	14.25	44.0	296	6.82	31.4	5.74
2002-04-02-0014		0.32	0.05	5.94	2.0	380	1.81	0.21	2.64	0.21	23.1	47.9	359	7.34	24.6	5.99
2002-04-02-0015		0.42	0.03	6.23	2.7	410	1.72	0.19	2.49	0.15	25.9	50.1	370	8.63	31.6	5.94
2002-04-02-0016		0.48	0.04	6.80	2.0	340	1.37	0.16	2.76	0.19	18.20	62.2	451	8.07	34.3	6.82
2002-04-02-0017		0.36	0.05	5.79	1.3	370	1.92	0.35	2.21	0.20	21.0	35.1	303	12.80	28.3	5.19
2002-04-02-0018		0.28	0.09	5.59	1.3	410	1.43	0.42	2.15	0.35	18.65	32.2	227	9.32	25.2	4.55
2002-04-02-0019		0.22	0.12	5.61	1.0	440	2.59	0.91	1.81	0.29	24.5	21.6	155	11.30	17.3	3.31
2002-04-02-0020		0.40	0.04	6.14	1.2	310	4.27	0.86	2.17	0.12	22.9	37.5	298	12.00	29.5	4.88
2002-04-02-0021		0.34	0.04	6.65	1.8	440	4.77	0.54	1.81	0.15	35.5	34.3	228	12.95	52.4	4.47
2002-04-02-0022		0.22	0.09	5.98	2.0	400	3.69	1.06	1.69	0.19	42.3	29.6	234	17.30	28.0	4.72
2002-04-02-0023		0.16	0.12	6.23	1.5	560	3.02	0.51	1.95	0.22	35.4	18.2	106	17.40	18.8	3.14
2002-04-02-0024		0.26	0.13	6.79	1.5	720	1.55	0.17	1.72	0.17	35.8	9.2	27	3.63	26.2	2.04
2002-04-02-0025		0.48	0.04	6.73	0.9	190.0	2.25	0.22	4.59	0.09	8.73	40.3	344	8.74	67.6	5.86
2002-04-02-0026		0.32	0.03	6.81	1.1	210	0.92	0.14	3.67	0.10	11.05	43.6	286	8.43	45.7	6.19
2002-04-02-0027		0.32	0.04	6.50	1.1	270	1.01	0.17	4.12	0.10	13.65	34.2	255	6.33	46.9	5.35
2002-04-02-0028		0.40	0.04	6.90	1.7	460	1.82	0.52	2.70	0.11	20.5	45.3	243	19.60	55.2	5.84
2002-04-02-0029		0.34	0.04	6.23	4.8	760	1.33	0.35	1.87	0.11	39.7	35.6	196	11.70	28.3	5.31
2002-04-02-0030		0.40	0.04	6.22	3.0	580	1.30	0.27	1.91	0.14	28.1	51.2	222	10.10	22.6	6.02
2002-04-02-0031		0.36	0.04	6.00	3.0	600	1.29	0.22	1.61	0.16	27.2	44.5	205	7.53	19.8	5.48
2002-04-02-0032		0.24	0.06	5.79	3.7	580	1.17	0.22	1.18	0.23	33.3	51.0	218	8.01	27.1	6.16
2002-04-02-0033		0.36	0.04	6.71	3.7	490	1.14	0.20	1.40	0.18	25.4	68.6	265	6.48	91.8	7.83
2002-04-02-0034		0.22	0.07	6.45	2.6	440	1.48	0.42	1.75	0.27	20.6	53.6	262	8.02	49.5	6.68
2002-04-02-0035		0.48	0.04	6.63	1.7	320	4.98	0.27	1.82	0.21	12.80	60.8	249	7.00	61.0	7.94
2002-04-02-0036		0.36	0.04	7.12	1.5	320	1.10	0.20	2.32	0.16	13.15	58.7	322	7.45	85.9	7.78
2002-04-02-0037		0.34	0.10	6.31	3.6	230	1.57	0.24	1.94	0.19	10.70	58.9	311	10.30	60.5	7.88
2002-04-02-0038		0.34	0.07	6.19	2.0	250	1.33	0.23	2.05	0.24	13.05	52.5	310	13.05	48.5	7.05
2002-04-02-0039		0.16	0.07	6.68	3.1	330	1.70	0.33	2.17	0.16	16.90	47.8	260	14.90	76.4	6.25
2002-04-02-0040		0.10	0.09	6.45	2.3	340	2.29	0.55	2.13	0.13	22.5	37.7	289	17.85	57.0	5.85

Comments: REE's may not be totally soluble in MS61 method.

ALS chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: TRUE NORTH GEMS
701 KENWOOD RD.
WEST VANCOUVER BC V7S 1S7

Date : 30-Oct-2002
Account: THR

Project : Regal Ridge

CERTIFICATE OF ANALYSIS VA02003451

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 0.5	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
2002-04-02-0041		0.24	0.08	6.35	1.3	290	1.26	0.31	2.84	0.12	12.85	38.6	252	12.00	38.6	5.82
2002-04-02-0042		0.16	0.10	6.38	2.5	570	1.82	0.36	1.80	0.10	33.3	16.3	93	11.05	24.0	3.14
2002-04-02-0043		0.10	0.09	6.05	2.2	410	3.78	0.92	1.68	0.05	55.5	17.9	136	18.50	17.7	3.52
2002-04-02-0044		0.14	0.09	6.38	2.8	460	5.17	0.88	1.49	0.09	58.1	17.7	157	23.9	18.4	3.27
2002-04-02-0045		0.14	0.18	7.24	3.2	760	3.05	0.37	1.57	0.06	53.9	6.0	24	10.60	23.3	1.95
2002-04-02-0046		0.26	0.10	4.43	1.1	140.0	2.44	0.39	4.57	0.06	8.90	57.9	714	7.88	14.1	5.26
2002-04-02-0047		0.24	0.09	5.01	1.3	180.0	1.31	0.25	4.21	0.09	10.15	47.7	575	6.76	22.5	5.51
2002-04-02-0048		0.20	0.04	6.27	1.7	130.0	1.28	0.18	3.78	0.08	5.94	61.2	683	6.05	25.0	6.14
2002-04-02-0049		0.50	0.02	5.98	1.3	150.0	1.26	0.14	4.29	0.06	5.23	61.2	649	5.15	32.9	6.35
2002-04-02-0050		0.46	0.06	4.86	<0.2	41.7	0.77	0.07	4.77	0.05	1.44	67.4	789	3.78	25.7	6.25
2002-04-02-0051		0.32	0.07	4.91	0.7	54.0	0.71	0.07	4.61	0.04	1.68	66.5	776	4.36	25.5	6.16
2002-04-02-0052		0.18	0.06	5.33	0.6	160.0	0.74	0.09	4.03	0.05	7.13	55.7	610	4.56	28.0	5.52
2002-04-02-0053		0.44	0.08	6.36	3.2	320	1.69	0.26	3.17	0.07	17.35	61.8	604	9.64	44.7	5.97
2002-04-02-0054		0.22	0.06	5.23	2.2	260	1.30	0.25	3.06	0.16	17.25	52.0	621	8.30	33.3	5.49
2002-04-02-0055		0.18	0.09	5.41	1.5	280	1.02	0.22	2.79	0.11	16.60	48.2	687	7.24	15.2	5.34
2002-04-02-0056		0.24	0.07	5.47	1.6	160.0	1.42	0.33	3.01	0.15	10.35	65.8	857	6.08	22.2	6.18
2002-04-02-0057		0.54	0.09	6.16	3.1	300	1.61	0.26	3.56	0.12	20.2	54.5	568	9.69	75.3	5.42
2002-04-02-0058		0.18	0.11	5.79	3.4	1100	1.61	0.35	2.72	0.21	18.20	50.0	574	8.82	59.8	4.98
2002-04-02-0059		0.24	0.07	5.47	3.1	320	1.19	0.20	3.78	0.18	20.9	46.4	487	6.26	35.4	5.06
2002-04-02-0060		0.22	0.08	6.25	2.5	380	2.53	0.23	3.86	0.12	19.40	39.1	424	8.52	56.1	4.97
2002-04-02-0061		0.20	0.08	5.51	3.2	390	1.16	0.19	3.67	0.10	24.4	37.4	390	7.16	44.0	4.64
2002-04-02-0062		0.34	0.11	5.89	3.7	320	1.32	0.19	3.95	0.11	21.0	45.1	425	9.48	70.2	5.06
2002-04-02-0063		0.32	0.11	5.84	3.7	320	1.67	0.19	4.20	0.15	22.1	43.3	414	10.90	96.7	4.99
2002-04-02-0064		0.32	0.06	5.19	2.4	240	0.81	0.11	5.02	0.14	14.15	41.6	426	6.96	48.2	5.08
2002-04-02-0065		0.32	0.08	5.40	2.4	210	1.97	0.31	3.89	0.10	14.25	45.1	530	7.76	74.1	5.22
2002-04-02-0066		0.18	0.06	4.40	1.0	180.0	0.75	0.09	4.03	0.10	7.89	48.1	608	6.49	31.9	5.09
2002-04-02-0067		0.16	0.08	6.79	2.3	680	1.04	0.13	2.11	0.09	30.3	9.3	40	3.01	20.3	2.33
2002-04-02-0068		0.18	0.09	5.67	1.3	150.0	0.76	0.09	2.84	0.07	9.48	52.9	903	6.51	66.9	5.39
2002-04-02-0069		0.18	0.08	6.38	2.3	530	0.80	0.13	3.19	0.08	24.6	18.5	155	3.20	25.1	3.27
2002-04-02-0070		0.26	0.06	4.98	1.1	160.0	0.78	0.09	5.42	0.10	5.56	45.7	529	5.25	32.3	5.51
2002-04-02-0071		0.30	0.13	5.02	0.8	160.0	0.22	0.08	5.25	0.08	4.67	43.6	486	3.64	15.8	5.81
2002-04-02-0072		0.32	0.05	4.36	0.7	120.0	0.19	0.05	5.57	0.09	4.38	43.3	486	2.80	15.2	5.45
2002-04-02-0073		0.26	0.06	4.77	0.3	160.0	0.29	0.08	5.77	0.05	6.55	41.6	561	3.14	7.9	5.58
2002-04-02-0074		0.22	0.08	5.49	1.1	180.0	0.37	0.07	5.22	0.09	7.17	41.9	550	4.39	25.0	5.31
2002-04-02-0075		0.24	0.02	7.42	0.2	67.8	0.21	0.06	6.16	0.09	3.08	43.0	529	22.9	32.8	5.75
2002-04-02-0076		0.22	0.03	5.51	0.2	160.0	0.30	0.07	5.25	0.15	6.15	41.4	568	5.30	14.4	5.41
2002-04-02-0077		0.22	0.03	5.03	0.5	180.0	0.33	0.09	5.57	0.07	8.34	43.8	621	5.62	11.0	6.11
2002-04-02-0078		0.16	0.03	5.23	0.2	130.0	0.29	0.07	5.28	0.17	5.47	40.9	557	7.19	13.5	5.55
2002-04-02-0079		0.20	0.05	5.19	0.2	340	0.47	0.07	5.13	0.11	10.65	40.0	438	5.75	12.2	5.07
2002-04-02-0080		0.18	0.04	5.21	0.4	150.0	0.30	0.07	5.31	0.11	6.95	39.1	510	3.68	19.3	5.56

Comments: REE's may not be totally soluble in MS61 method.

ALS chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

TO: TRUE NORTH GEMS
701 KENWOOD RD.
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CERTIFICATE OF ANALYSIS VA02003451

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 0.5	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
2002-04-02-0081		0.20	0.03	5.14	1.1	230	0.47	0.11	4.93	0.11	12.75	37.1	531	4.54	10.6	5.66
2002-04-02-0082		0.18	0.02	5.38	0.3	150.0	0.28	0.06	5.04	0.10	6.37	42.0	562	3.00	12.4	5.44
2002-04-02-0083		0.20	0.02	4.46	0.2	160.0	0.35	0.24	6.05	0.07	8.51	41.9	529	3.11	8.3	5.43
2002-04-02-0084		0.24	0.02	6.27	0.2	290	0.17	0.02	5.66	0.06	2.03	50.0	530	4.15	21.9	5.82
2002-04-02-0085		0.48	0.02	5.86	0.2	210	0.23	0.05	5.76	0.05	1.87	50.6	534	5.27	5.9	6.03
2002-04-02-0086		0.20	0.02	6.42	0.2	150.0	0.51	0.05	5.25	0.07	3.99	50.7	595	10.85	21.1	5.78
2002-04-02-0087		0.26	0.02	4.79	0.2	190.0	0.15	0.02	6.38	0.06	1.37	64.6	1145	1.99	3.2	6.20
2002-04-02-0088		0.48	0.02	6.72	0.2	110.0	0.23	0.04	6.59	0.05	1.68	47.0	499	40.3	21.4	5.52
2002-04-02-0090		0.26	0.02	4.06	0.2	54.8	0.68	0.23	6.95	0.10	1.53	53.4	848	9.13	17.3	5.60
2002-04-02-0091		0.18	0.02	4.16	0.2	200.0	0.13	0.13	5.92	0.07	2.65	54.6	670	2.67	8.0	6.30
2002-04-02-0092		0.22	0.02	4.64	0.2	140.0	0.27	0.09	4.76	0.08	5.28	43.6	603	3.65	13.2	5.38
2002-04-02-0093		0.24	0.02	4.29	1.2	160.0	0.41	0.12	4.50	0.09	11.20	48.1	781	7.19	9.4	6.03
2002-04-02-0094		0.22	0.02	5.06	1.7	240	0.61	0.15	4.35	0.09	14.60	49.9	639	6.79	16.9	5.73
2002-04-02-0095		0.08	0.05	6.62	1.7	570	1.03	0.17	2.85	0.09	24.7	24.2	350	8.71	23.1	3.72
2002-04-02-0096		0.24	0.02	5.29	0.4	160.0	0.77	0.13	5.40	0.08	6.20	54.4	638	7.24	22.1	5.93
2002-04-02-0097		0.24	0.02	5.05	0.5	180.0	1.33	0.16	5.63	0.12	8.14	44.9	516	9.62	37.1	5.49
2002-04-02-0098		0.68	0.02	6.81	0.2	80.4	2.06	0.20	6.25	0.13	2.00	42.9	352	21.1	55.7	5.40
2002-04-02-0099		0.26	0.03	4.56	0.4	180.0	0.53	0.11	5.33	0.09	8.45	42.5	617	3.69	13.7	5.67
2002-04-02-0100		0.30	0.07	5.87	0.2	210	0.68	0.09	5.07	0.08	8.31	40.8	450	6.59	32.0	5.67
2002-04-02-0101		0.38	0.05	5.90	0.2	190.0	0.63	0.10	5.20	0.08	7.11	42.2	479	6.62	31.0	5.86
2002-04-02-0102		0.26	0.04	5.86	1.3	280	1.04	0.21	3.96	0.12	16.15	35.2	463	7.52	27.4	5.41
2002-04-02-0103		0.24	0.05	7.26	1.2	290	0.54	0.13	5.07	0.11	8.70	38.0	300	12.80	45.5	4.85
2002-04-02-0104		0.56	0.02	6.53	0.6	550	0.70	0.11	5.58	0.06	9.11	41.6	459	5.16	30.2	5.94
2002-04-02-0105		0.20	0.03	4.53	0.9	220	0.69	0.16	5.00	0.07	12.55	38.5	534	4.56	15.3	5.43
2002-04-02-0106		0.32	0.02	4.84	0.7	190.0	0.53	0.12	4.97	0.09	11.95	39.3	424	3.71	18.6	5.59
2002-04-02-0107		0.38	0.04	5.22	0.7	210	1.02	0.13	4.71	0.08	8.44	39.8	490	4.99	32.3	5.33
2002-04-02-0108		0.42	0.03	4.02	0.8	220	1.65	0.27	4.04	0.17	13.40	61.5	1310	9.60	13.3	6.51
2002-04-02-0109		0.56	0.02	5.73	0.9	170.0	1.56	0.20	3.93	0.09	7.91	53.3	722	5.73	19.5	5.94
2002-04-02-0110		0.34	0.05	6.54	1.4	430	1.28	0.17	3.37	0.08	21.3	26.7	227	6.81	21.5	3.92
2002-04-02-0111		0.20	0.11	6.93	2.6	630	1.15	0.19	1.73	0.13	28.1	19.2	94	7.34	27.1	2.43
2002-04-02-0112		0.46	0.06	4.60	0.3	160.0	0.71	0.17	3.76	0.06	11.45	48.7	698	3.80	8.3	5.47
2002-04-02-0113		0.66	0.03	5.08	0.4	101.0	2.44	0.13	3.95	0.05	4.73	55.0	748	3.07	13.3	5.89
2002-04-02-0114		0.72	0.03	5.86	0.4	160.0	0.54	0.06	5.26	0.08	7.03	50.0	518	4.83	30.6	5.50
2002-04-02-0115		0.48	0.05	4.88	<0.2	200.0	1.67	0.22	3.63	0.07	14.25	46.7	607	8.01	9.2	4.97
2002-04-02-0116		0.22	0.08	5.28	1.5	230	1.57	0.29	3.23	0.12	16.50	46.7	693	11.05	15.2	5.70
2002-04-02-0117		0.24	0.08	5.15	1.3	200.0	1.76	0.25	3.03	0.11	13.05	45.0	725	8.88	14.8	5.29
2002-04-02-0118		0.22	0.08	5.78	1.6	330	1.28	0.22	2.62	0.08	16.50	47.8	608	5.79	12.5	4.62
2002-04-02-0119		0.26	0.05	5.30	0.9	230	1.45	0.30	2.58	0.10	13.90	59.0	745	11.25	13.1	5.50
2002-04-02-0120		0.30	0.05	5.59	1.2	160.0	1.65	0.21	3.45	0.07	10.65	52.9	706	7.90	22.1	5.41
2002-04-02-0121		0.44	0.07	5.31	0.9	230	1.45	0.18	3.47	0.07	13.35	45.3	651	5.48	15.7	4.92

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 0.5	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
2002-04-02-0122		0.54	0.03	5.40	<0.2	94.0	2.21	0.22	4.56	0.07	3.45	57.2	744	10.50	43.1	5.27
2002-04-02-0123		0.54	0.04	5.07	0.4	160.0	2.79	0.20	3.91	0.08	8.10	51.1	704	9.00	21.4	5.17
2002-04-02-0124		0.36	0.10	7.10	1.7	710	1.78	0.14	1.81	0.05	30.0	8.0	55	3.45	17.1	1.80
2002-04-02-0125		0.28	0.05	7.09	1.7	210	4.54	0.13	3.49	0.11	8.68	41.9	373	10.15	79.5	5.86
2002-04-02-0126		0.48	0.03	5.90	1.5	280	0.88	0.12	4.07	0.10	12.60	36.6	381	7.48	62.1	4.85
2002-04-02-0127		0.40	0.03	6.57	0.9	210	0.48	0.08	3.03	0.07	7.86	38.6	436	5.84	101.0	5.58
2002-04-02-0128		0.28	0.06	6.99	4.1	670	1.98	0.28	3.14	0.18	10.60	43.5	336	14.25	119.0	5.77
2002-04-02-0129		0.30	0.06	7.42	2.3	260	1.20	0.30	3.75	0.23	12.60	52.3	390	17.50	120.0	6.66
2002-04-02-0130		0.50	0.05	6.75	3.7	440	4.20	0.44	3.47	0.18	14.30	35.7	293	19.25	108.0	6.07
2002-04-02-0131		0.32	0.04	7.97	2.0	590	3.56	0.38	1.56	0.05	17.80	37.0	191	76.8	79.6	5.53
2002-04-02-0132		0.30	0.05	7.03	1.5	3460	0.97	0.16	2.60	0.17	17.20	42.7	236	18.55	105.0	5.45
2002-04-02-0133		0.62	0.04	7.98	0.5	1470	2.98	0.09	0.23	0.03	64.9	4.0	15	30.5	2.9	2.12
2002-04-02-0134		0.50	0.04	7.48	0.8	1610	2.95	0.07	0.17	0.06	56.6	4.1	28	23.6	3.2	2.03
2002-04-02-0135		0.74	0.04	7.39	0.7	1300	2.86	0.08	0.23	0.06	63.8	4.5	24	25.2	4.9	2.06
2002-04-02-0136		0.40	0.04	7.92	2.0	1140	2.63	0.13	0.42	0.08	62.8	8.5	50	24.8	16.3	2.47
2002-04-02-0137		0.46	0.06	7.38	3.0	200.0	14.00	0.62	1.05	0.17	4.60	29.9	208	111.0	112.0	5.18
2002-04-02-0138		0.60	0.11	7.80	1.7	410	8.09	0.78	1.46	0.18	8.10	34.9	181	80.4	126.0	5.52
2002-04-02-0139		0.38	0.03	7.55	0.4	1840	2.69	0.08	0.26	0.03	63.6	3.2	28	17.25	3.2	2.02
2002-04-02-0140		0.48	0.07	7.90	0.9	1080	1.85	0.12	1.33	0.08	45.5	24.7	137	35.5	84.6	4.07
2002-04-02-0141		0.38	0.03	7.01	1.2	250	0.49	0.13	3.34	0.08	12.20	49.0	479	9.57	76.1	6.21
2002-04-02-0142		0.56	0.03	6.59	0.5	260	0.31	0.09	4.21	0.07	2.52	53.5	567	5.27	132.0	6.47
2002-04-02-0143		0.26	0.05	5.98	0.4	440	0.52	0.10	3.81	0.09	8.99	43.0	466	6.04	75.1	5.63
2002-04-02-0144		0.48	0.22	6.35	<0.2	180.0	0.60	0.15	3.49	0.11	2.41	60.5	555	6.72	534	6.80
2002-04-02-0145		0.48	0.08	7.21	1.8	300	2.10	0.06	1.94	0.08	3.06	48.3	490	53.9	132.0	5.54
2002-04-02-0146		0.64	0.05	6.50	<0.2	170.0	0.31	<0.01	4.38	0.12	2.20	51.3	505	4.56	109.0	6.00
2002-04-02-0147		0.48	0.04	6.77	<0.2	190.0	0.39	<0.01	4.50	0.11	2.76	50.3	506	4.71	116.0	6.05
2002-04-02-0148		0.58	0.03	6.48	<0.2	210	0.44	<0.01	4.52	0.07	2.17	49.2	500	7.53	71.2	5.98
2002-04-02-0149		0.54	0.05	6.35	1.5	240	11.75	1.36	1.58	0.14	18.65	46.3	526	61.8	54.4	4.83
2002-04-02-0150		0.42	0.03	6.97	1.6	330	9.21	6.85	1.61	0.07	42.5	28.9	276	21.8	26.0	3.32
2002-04-02-0151		0.44	0.03	7.07	1.8	350	10.20	1.92	1.67	0.07	41.9	29.3	290	22.6	27.4	3.49
2002-04-02-0152		0.32	0.04	7.08	1.2	200.0	9.22	0.20	1.88	0.08	16.10	61.0	504	49.6	57.6	6.16
2002-04-02-0153		0.36	0.06	7.02	1.0	290	4.85	0.33	2.39	0.10	23.6	53.0	409	23.8	97.0	5.46
2002-04-02-0154		0.32	0.05	6.44	1.7	430	1.02	0.04	3.62	0.13	19.45	45.8	443	10.55	30.7	5.42
2002-04-02-0155		0.54	0.03	5.54	1.3	190.0	1.93	0.18	5.05	0.06	4.37	58.8	642	7.91	82.9	6.59
2002-04-02-0156		0.38	0.04	6.95	2.1	460	2.07	0.14	3.42	0.14	25.4	41.4	354	11.35	46.9	5.05
2002-04-02-0157		0.54	0.04	5.28	0.7	200.0	0.76	0.04	5.39	0.08	4.10	56.5	618	4.90	81.0	5.85
2002-04-02-0158		0.40	0.05	6.19	2.7	390	2.32	0.47	3.53	0.08	26.5	41.2	448	13.95	67.2	4.52
2002-04-02-0159		0.60	0.03	6.25	2.4	400	4.61	0.74	3.18	0.21	31.6	32.7	340	11.75	48.2	4.02
2002-04-02-0160		0.40	0.03	6.62	3.4	380	6.60	1.24	2.47	0.26	43.7	27.7	263	16.85	43.5	3.64
2002-04-02-0161		0.54	0.03	7.12	3.6	210	14.30	2.63	0.15	0.03	65.5	2.4	48	25.8	4.8	0.96

Comments: REE's may not be totally soluble in MS61 method.

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: TRUE NORTH GEMS
701 KENWOOD RD.
WEST VANCOUVER BC V7S 1S7

Date : 30-Oct-2002
Account: THR

Project : Regal Ridge

CERTIFICATE OF ANALYSIS VA02003451

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 0.5	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
2002-04-02-0162		0.46	0.04	6.99	1.9	590	3.74	0.46	1.88	0.10	42.4	31.9	306	13.75	19.3	3.80
2002-04-02-0163		0.46	0.06	6.97	3.1	640	4.28	0.49	2.10	0.09	43.2	37.0	326	23.1	35.8	4.35
2002-04-02-0164		0.44	0.06	9.28	0.5	920	1.54	0.01	1.05	0.04	32.4	49.2	254	27.2	9.6	4.51
2002-04-02-0165		0.72	<0.02	5.94	<0.2	41.0	0.07	<0.01	5.04	0.04	0.52	69.7	655	1.20	4.9	6.60
2002-04-02-0166		0.96	0.02	5.01	<0.2	82.0	0.47	<0.01	3.50	0.06	3.34	73.0	897	3.31	55.9	6.14
2002-04-02-0167		0.40	0.03	7.18	<0.2	170.0	0.85	0.02	3.71	0.06	7.94	66.5	649	6.96	93.1	6.70
2002-04-02-0168		0.76	0.02	5.76	<0.2	73.0	0.32	<0.01	3.37	0.05	1.75	87.9	938	1.73	25.4	6.43
2002-04-02-0169		0.42	0.05	8.05	<0.2	1810	2.44	<0.01	0.43	0.10	63.5	4.9	31	19.40	4.7	2.21
2002-04-02-0170		0.40	0.05	8.02	0.7	1360	2.09	0.07	0.30	0.04	53.7	4.7	21	16.70	4.7	2.04
2002-04-02-0171		0.38	0.06	7.60	0.5	1040	2.27	0.05	0.32	0.15	55.9	4.0	23	24.2	7.0	2.15
2002-04-02-0172		0.24	0.07	7.22	1.0	1210	3.77	0.24	0.97	0.08	39.0	6.8	50	16.70	13.4	1.78
2002-04-02-0173		0.70	0.05	6.45	<0.2	280	0.68	0.03	3.37	0.11	9.40	65.0	722	9.93	158.0	6.69
2002-04-02-0174		0.56	0.02	6.44	<0.2	150.0	0.17	<0.01	5.21	0.06	2.08	45.4	435	3.23	64.8	5.81
2002-04-02-0175		0.72	0.04	6.37	0.3	570	1.71	0.04	2.18	0.12	28.6	51.2	500	10.70	29.5	4.97
2002-04-02-0176		0.48	0.02	6.14	0.2	420	1.74	0.08	2.41	0.11	16.00	65.8	676	13.55	27.4	5.76
2002-04-02-0177		0.72	0.03	6.18	<0.2	190.0	1.55	0.07	3.41	0.09	6.06	69.1	707	16.50	30.2	6.53
2002-04-02-0178		0.76	0.02	6.38	<0.2	160.0	0.50	<0.01	4.33	0.07	1.31	70.0	665	12.65	45.6	6.57
2002-04-02-0179		0.62	0.03	6.36	<0.2	73.0	0.73	0.09	4.20	0.08	1.34	81.4	692	8.70	36.0	6.50
2002-04-02-0180		0.76	0.03	5.58	<0.2	94.0	0.77	<0.01	1.67	0.09	5.12	88.9	1040	5.41	27.2	8.06
2002-04-02-0181		0.62	0.02	5.45	<0.2	150.0	1.08	<0.01	5.25	0.10	4.21	58.9	731	12.20	34.3	6.25
2002-04-02-0182		0.50	0.02	4.69	0.2	90.0	1.20	0.10	4.41	0.07	2.56	53.2	739	9.65	16.8	5.50
2002-04-02-0183		0.62	0.02	4.85	0.2	130.0	0.38	0.10	4.52	0.07	1.08	52.7	711	13.75	28.5	5.61
2002-04-02-0184		0.42	0.07	5.99	0.7	81.0	0.48	0.11	3.08	0.04	1.14	82.3	628	7.85	20.9	6.57
2002-04-02-0185		0.70	0.07	5.68	<0.2	73.0	0.65	0.17	4.06	0.06	1.67	77.1	759	10.50	27.9	6.46
2002-04-02-0186		0.70	0.09	7.26	0.2	80.5	1.18	0.33	2.45	0.04	1.50	102.0	726	15.55	31.4	7.82
2002-04-02-0187		0.66	0.06	6.33	<0.2	100.0	1.18	0.20	2.77	0.05	2.53	89.0	687	10.90	19.1	6.84
2002-04-02-0188		0.42	<0.02	6.25	1.8	750	1.65	0.21	1.00	0.08	44.0	22.5	256	12.90	18.3	3.00
2002-04-02-0189		0.52	<0.02	6.30	2.2	530	2.32	0.33	2.04	0.09	34.8	27.6	294	9.63	20.5	3.43
2002-04-02-0190		0.40	<0.02	6.24	2.0	700	1.65	0.34	1.68	0.08	36.1	26.4	235	11.15	15.7	3.34
2002-04-02-0191		0.50	<0.02	6.83	1.6	660	1.82	0.27	1.12	0.09	41.7	30.4	260	14.40	17.5	3.61
2002-04-02-0192		0.62	0.07	6.55	<0.2	350	0.96	0.13	1.81	0.05	19.65	81.5	668	9.96	48.7	6.64
2002-04-02-0193		0.24	0.03	5.65	1.1	320	1.02	0.14	3.25	0.10	16.50	30.6	338	5.26	36.8	3.68
2002-04-02-0194		0.66	0.03	6.65	0.9	720	1.62	0.18	1.89	0.09	36.1	35.7	296	13.00	29.9	3.88
2002-04-02-0195		0.34	0.06	5.61	0.3	310	1.17	0.52	2.65	0.06	24.8	48.3	457	10.55	14.9	5.07
2002-04-02-0196		0.50	0.03	6.23	0.9	480	1.51	0.31	2.28	0.07	30.3	45.6	379	10.25	26.4	4.66
2002-04-02-0197		0.52	<0.02	7.43	2.5	910	2.54	0.23	1.14	0.07	46.3	24.7	182	37.1	47.8	3.43
2002-04-02-0198		0.72	0.13	6.27	<0.2	93.5	4.59	0.28	4.16	0.15	2.30	57.0	423	12.45	146.0	6.44
2002-04-02-0199		0.54	0.06	6.47	0.8	100.0	0.83	0.13	3.81	0.09	5.51	40.0	343	5.04	47.0	5.65
2002-04-02-0200		0.54	0.05	6.74	1.2	210	0.60	0.21	3.55	0.09	14.45	35.2	254	8.11	55.7	5.02
2002-04-02-0201		0.54	0.05	6.85	1.4	210	0.59	0.18	3.66	0.07	13.40	35.6	257	7.12	45.7	5.01

Comments: REE's may not be totally soluble in MS61 method.

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
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CERTIFICATE OF ANALYSIS VA02003451

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
2002-04-02-0001		12.50	0.14	0.4	0.046	0.46	3.6	87.2	6.78	1295	0.42	1.15	1.8	188.0	110	7.5
2002-04-02-0002		12.40	0.15	0.5	0.044	0.58	6.4	75.6	6.03	1300	2.58	1.35	2.8	190.0	200	4.9
2002-04-02-0003		13.15	0.15	0.8	0.044	0.76	11.7	74.8	5.41	1170	0.60	1.40	4.8	150.0	300	6.3
2002-04-02-0004		13.05	0.15	0.3	0.078	0.40	2.8	86.3	4.01	1595	0.89	0.54	1.4	149.0	180	2.9
2002-04-02-0005		12.80	0.14	0.9	0.037	1.21	15.2	68.4	3.55	851	0.76	1.29	5.8	96.8	300	9.5
2002-04-02-0006		14.80	0.15	1.0	0.040	0.88	17.1	67.2	3.91	846	1.00	1.06	7.1	105.0	560	10.1
2002-04-02-0007		16.85	0.16	2.3	0.023	2.59	45.6	29.8	0.80	720	1.09	1.78	14.6	19.5	610	21.5
2002-04-02-0008		15.25	0.16	1.6	0.035	1.60	22.1	48.8	3.18	917	1.34	1.45	10.0	84.9	470	11.0
2002-04-02-0009		19.70	0.20	0.4	0.044	0.62	4.9	200.0	3.98	1265	0.49	0.31	2.3	270	270	10.3
2002-04-02-0010		13.25	0.15	0.9	0.035	0.95	11.9	56.0	4.04	932	1.03	1.10	5.2	105.0	550	7.7
2002-04-02-0011		14.55	0.14	0.7	0.035	0.76	7.9	37.2	4.27	1670	0.87	0.89	4.5	110.0	980	9.2
2002-04-02-0012		12.80	0.15	0.8	0.040	0.83	12.3	53.2	4.52	810	1.03	1.00	5.2	129.0	320	6.7
2002-04-02-0013		13.75	0.15	0.8	0.033	0.71	7.5	45.0	4.34	798	0.81	1.04	3.3	116.0	470	5.4
2002-04-02-0014		13.10	0.16	0.9	0.033	0.73	11.8	35.8	5.03	803	1.13	0.93	4.4	148.0	510	5.9
2002-04-02-0015		13.60	0.16	0.8	0.034	0.73	13.6	49.2	5.35	822	0.71	0.86	5.2	188.0	360	5.9
2002-04-02-0016		14.95	0.15	0.7	0.035	0.67	9.3	54.6	6.09	904	0.88	0.89	4.0	212	320	5.5
2002-04-02-0017		14.25	0.13	1.1	0.031	0.98	11.1	55.4	3.67	723	0.90	1.01	4.3	120.0	630	7.3
2002-04-02-0018		14.10	0.13	1.3	0.028	1.04	10.2	37.6	3.25	867	1.27	1.28	4.0	104.0	880	7.7
2002-04-02-0019		15.60	0.13	1.7	0.026	1.44	13.0	46.0	2.33	571	1.29	1.48	4.5	69.0	720	11.1
2002-04-02-0020		16.30	0.15	1.1	0.034	1.34	10.9	78.9	3.94	924	1.04	1.18	3.9	125.0	490	18.7
2002-04-02-0021		16.75	0.15	1.3	0.035	1.63	18.0	88.8	3.41	669	0.69	1.29	5.0	113.0	270	18.5
2002-04-02-0022		17.85	0.17	1.4	0.036	1.44	18.6	88.3	3.08	719	1.14	0.96	5.1	102.0	1000	19.5
2002-04-02-0023		17.70	0.14	2.2	0.028	1.69	18.2	56.1	1.96	1265	1.25	1.73	5.1	43.6	940	18.1
2002-04-02-0024		16.90	0.12	2.8	0.019	1.77	20.7	22.1	0.77	497	1.63	2.45	5.4	14.3	810	11.7
2002-04-02-0025		11.70	0.14	0.4	0.039	0.36	4.3	52.8	6.15	1230	0.39	1.54	2.3	148.0	210	3.0
2002-04-02-0026		12.55	0.14	0.4	0.036	0.34	5.6	35.8	5.77	1035	0.64	1.19	2.6	116.0	210	3.4
2002-04-02-0027		11.65	0.14	0.5	0.037	0.45	7.0	43.6	5.18	1055	0.53	1.39	3.0	108.0	340	4.5
2002-04-02-0028		14.40	0.15	0.7	0.037	0.88	10.9	110.0	4.00	893	1.07	1.19	4.7	96.1	260	11.7
2002-04-02-0029		14.65	0.16	1.2	0.036	1.12	20.9	68.9	2.96	653	1.23	1.09	8.3	71.3	550	10.4
2002-04-02-0030		14.60	0.16	1.0	0.033	0.96	14.6	77.8	3.64	750	1.14	0.91	6.6	89.6	450	7.2
2002-04-02-0031		13.65	0.14	1.0	0.032	0.98	14.0	88.6	3.26	571	0.89	0.86	6.6	82.4	440	6.9
2002-04-02-0032		14.20	0.17	1.1	0.033	0.91	17.4	67.3	2.97	587	1.33	0.69	7.2	79.6	890	8.1
2002-04-02-0033		15.20	0.17	0.8	0.038	0.74	13.4	59.4	3.97	686	0.83	0.75	5.7	124.0	280	6.6
2002-04-02-0034		14.00	0.15	0.8	0.037	0.73	10.2	67.6	4.06	907	1.04	0.81	4.6	103.0	640	6.1
2002-04-02-0035		13.50	0.18	0.5	0.044	0.52	6.2	66.2	4.78	871	0.62	0.75	2.9	110.0	290	4.2
2002-04-02-0036		13.55	0.16	0.5	0.046	0.44	6.6	78.0	5.71	971	0.80	0.71	3.1	122.0	230	4.2
2002-04-02-0037		14.30	0.26	0.5	0.048	0.37	5.3	63.3	5.22	877	0.62	0.60	3.0	122.0	230	5.1
2002-04-02-0038		13.50	0.26	0.5	0.043	0.44	6.5	72.6	5.01	880	0.90	0.68	3.1	112.0	430	4.7
2002-04-02-0039		14.45	0.26	0.7	0.043	0.54	8.2	100.0	5.00	835	0.71	0.97	3.6	109.0	230	6.3
2002-04-02-0040		14.30	0.22	0.8	0.040	0.79	10.9	100.0	4.35	853	1.24	1.00	3.9	95.1	590	9.4

Comments: REE's may not be totally soluble in MS61 method.

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: TRUE NORTH GEMS
701 KENWOOD RD.
WEST VANCOUVER BC V7S 1S7

Date : 30-Oct-2002
Account: THR

Project : Regal Ridge

CERTIFICATE OF ANALYSIS VA02003451

Sample Description	Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
2002-04-02-0041		13.05	0.22	0.6	0.042	0.59	6.3	90.6	4.94	968	0.52	1.11	2.7	95.2	430	6.2
2002-04-02-0042		16.00	0.24	1.7	0.027	1.51	16.8	49.7	1.90	518	1.17	1.83	4.8	41.5	1030	11.6
2002-04-02-0043		20.4	0.24	2.0	0.030	1.80	26.0	100.0	2.47	454	0.88	1.16	4.8	65.5	1330	19.6
2002-04-02-0044		24.2	0.25	2.7	0.038	2.23	28.7	110.0	2.12	448	1.07	1.23	7.1	56.0	780	26.9
2002-04-02-0045		19.95	0.25	2.5	0.027	2.03	41.1	45.7	0.67	312	1.42	2.26	6.4	10.3	1160	15.8
2002-04-02-0046		11.25	0.27	0.4	0.029	0.37	4.6	55.0	9.00	1020	0.31	0.60	2.5	389	160	4.2
2002-04-02-0047		10.75	0.23	0.5	0.030	0.40	5.1	37.7	7.95	900	0.35	0.69	2.9	348	280	3.7
2002-04-02-0048		9.89	0.18	0.4	0.026	0.31	2.8	45.3	9.35	862	0.41	0.70	1.8	515	170	3.2
2002-04-02-0049		9.11	0.18	0.3	0.025	0.31	2.5	33.8	9.74	931	0.28	0.72	1.4	539	130	2.0
2002-04-02-0050		7.96	0.23	0.1	0.022	0.07	0.7	50.7	12.00	1055	0.17	0.23	0.7	658	40	0.8
2002-04-02-0051		8.17	0.24	0.1	0.020	0.09	0.8	54.1	11.60	1040	0.06	0.24	0.6	620	20	0.9
2002-04-02-0052		9.40	0.23	0.5	0.023	0.33	3.6	50.7	9.43	893	0.26	0.57	1.4	459	160	2.1
2002-04-02-0053		12.90	0.25	0.7	0.033	0.60	9.0	40.0	8.70	873	0.66	0.77	4.4	513	330	6.8
2002-04-02-0054		11.60	0.22	0.6	0.030	0.48	8.5	39.8	7.49	755	0.52	0.67	3.9	425	270	5.7
2002-04-02-0055		12.75	0.23	1.0	0.025	0.65	8.7	25.3	8.17	675	1.04	0.82	4.1	412	370	5.2
2002-04-02-0056		11.20	0.22	0.4	0.028	0.34	5.2	39.2	9.22	760	0.38	0.56	2.7	605	260	5.3
2002-04-02-0057		12.60	0.26	0.7	0.033	0.59	10.0	38.3	7.86	816	0.57	0.76	4.3	437	280	6.8
2002-04-02-0058		12.35	0.23	0.7	0.030	0.58	9.0	41.0	7.32	684	0.66	0.70	4.1	444	660	7.4
2002-04-02-0059		11.35	0.23	0.9	0.034	0.58	10.4	34.3	6.47	800	0.60	0.84	4.5	344	280	5.7
2002-04-02-0060		13.00	0.22	0.9	0.031	0.71	10.0	36.1	6.26	791	0.63	1.05	4.4	258	450	6.0
2002-04-02-0061		11.95	0.25	1.0	0.030	0.73	12.4	33.2	5.64	754	0.71	1.00	4.6	234	360	6.4
2002-04-02-0062		11.30	0.25	0.7	0.033	0.59	10.7	39.4	6.40	832	0.60	0.79	4.2	293	270	6.0
2002-04-02-0063		11.50	0.23	0.7	0.033	0.56	11.1	38.7	6.22	876	0.59	0.81	4.5	254	470	5.9
2002-04-02-0064		9.65	0.21	0.5	0.032	0.39	6.9	30.2	6.74	907	0.46	0.84	2.7	236	150	4.0
2002-04-02-0065		10.90	0.24	0.5	0.031	0.46	7.0	43.1	7.34	870	0.48	0.69	3.5	335	400	6.2
2002-04-02-0066		8.27	0.21	0.4	0.023	0.30	3.9	28.0	8.43	921	0.28	0.57	1.6	385	190	2.5
2002-04-02-0067		16.05	0.24	2.9	0.017	1.73	16.3	19.0	1.21	397	1.30	2.43	4.8	25.9	550	8.0
2002-04-02-0068		10.85	0.26	0.4	0.025	0.24	4.9	41.5	9.10	696	0.32	0.35	1.7	478	440	2.9
2002-04-02-0069		13.85	0.23	2.1	0.023	1.36	12.7	20.1	3.07	565	1.02	2.04	4.0	82.0	620	6.2
2002-04-02-0070		9.09	0.22	0.3	0.030	0.27	2.7	32.4	7.95	1160	0.23	0.81	1.4	266	340	2.3
2002-04-02-0071		9.48	0.22	0.3	0.027	0.26	2.3	27.0	7.59	1130	0.24	0.72	1.4	266	430	2.4
2002-04-02-0072		7.86	0.21	0.2	0.027	0.19	2.1	17.0	7.89	989	0.23	0.77	0.9	287	170	1.6
2002-04-02-0073		9.50	0.21	0.4	0.028	0.29	3.3	14.7	7.57	1075	0.29	0.88	1.7	244	80	1.8
2002-04-02-0074		9.02	0.21	0.3	0.027	0.24	3.5	22.9	6.96	926	0.31	0.85	1.5	249	220	2.6
2002-04-02-0075		11.00	0.23	0.2	0.026	0.20	1.4	46.2	6.80	1040	0.27	0.68	0.9	235	230	2.8
2002-04-02-0076		10.70	0.22	0.4	0.027	0.26	3.1	23.4	6.86	1000	0.33	0.82	1.8	225	220	2.5
2002-04-02-0077		11.85	0.22	0.4	0.030	0.34	4.3	18.2	7.64	1070	0.39	0.82	2.6	256	120	3.0
2002-04-02-0078		11.65	0.19	0.3	0.027	0.24	2.8	22.2	6.68	1080	0.47	0.71	2.6	222	380	2.5
2002-04-02-0079		11.45	0.19	0.8	0.028	0.51	5.5	21.6	6.53	2590	0.40	0.96	2.9	191.0	310	3.6
2002-04-02-0080		10.80	0.21	0.3	0.030	0.24	3.3	21.1	6.76	923	0.37	0.79	2.1	222	350	2.6

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ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
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CERTIFICATE OF ANALYSIS VA02003451

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
2002-04-02-0081		12.10	0.20	0.6	0.032	0.39	6.3	19.1	6.46	900	0.61	0.83	3.4	220	240	4.7
2002-04-02-0082		9.86	0.20	0.3	0.028	0.22	3.1	17.6	7.00	899	0.47	0.76	1.8	240	230	2.1
2002-04-02-0083		10.45	0.20	0.4	0.031	0.26	4.3	19.9	7.34	1000	0.49	0.73	2.1	236	80	1.9
2002-04-02-0084		10.25	0.20	0.2	0.024	0.10	0.9	19.6	7.89	1010	0.24	0.85	0.7	288	90	1.2
2002-04-02-0085		10.80	0.21	0.2	0.027	0.25	0.8	27.7	8.83	1105	0.14	0.86	0.6	263	90	1.1
2002-04-02-0086		11.65	0.22	0.3	0.025	0.23	1.8	27.1	7.55	961	0.45	0.85	1.3	318	320	2.8
2002-04-02-0087		7.22	0.21	0.1	0.019	0.12	0.7	27.1	11.70	1135	0.21	0.31	0.5	763	110	0.8
2002-04-02-0088		10.65	0.21	0.2	0.023	0.17	0.8	31.7	7.71	996	0.20	0.82	0.6	291	40	1.3
2002-04-02-0090		7.31	0.20	0.1	0.021	0.18	0.7	59.1	10.55	1055	0.19	0.38	0.7	375	120	1.7
2002-04-02-0091		8.33	0.19	0.2	0.026	0.20	1.3	34.5	10.10	1155	1.48	0.41	1.0	358	100	1.6
2002-04-02-0092		8.73	0.21	0.3	0.024	0.20	2.6	36.1	8.34	935	0.85	0.83	1.3	263	280	3.3
2002-04-02-0093		9.75	0.22	0.4	0.028	0.30	5.7	28.7	9.15	998	0.84	0.49	2.8	293	120	3.0
2002-04-02-0094		9.98	0.19	0.5	0.036	0.40	7.4	39.7	8.65	963	0.67	0.71	3.0	302	250	4.8
2002-04-02-0095		13.75	0.22	2.0	0.024	1.30	13.2	44.1	4.52	611	2.15	1.82	4.4	156.0	570	7.3
2002-04-02-0096		9.47	0.21	0.3	0.031	0.24	3.0	28.7	9.55	1080	0.30	0.66	1.4	394	120	2.5
2002-04-02-0097		9.21	0.21	0.3	0.028	0.26	3.8	27.6	7.60	1025	0.42	0.76	1.7	251	110	3.0
2002-04-02-0098		11.60	0.22	0.2	0.029	0.18	0.8	45.6	6.32	1015	0.23	0.45	0.7	181.0	90	2.4
2002-04-02-0099		10.30	0.21	0.4	0.029	0.27	4.3	20.4	7.91	992	0.67	0.69	2.3	270	170	2.7
2002-04-02-0100		11.95	0.22	0.6	0.030	0.36	4.2	29.4	6.33	978	0.45	0.80	2.0	208	190	3.0
2002-04-02-0101		11.60	0.22	0.4	0.031	0.30	3.6	29.3	6.65	1025	0.44	0.73	1.9	214	170	2.7
2002-04-02-0102		14.45	0.25	0.8	0.030	0.48	8.2	35.3	5.60	847	0.65	0.72	3.8	199.0	220	5.9
2002-04-02-0103		13.40	0.22	0.5	0.032	0.37	4.8	27.6	5.14	839	0.45	0.67	2.4	174.0	320	4.4
2002-04-02-0104		11.20	0.22	0.5	0.028	0.39	4.6	25.2	7.05	1085	0.40	1.01	1.9	229	240	3.4
2002-04-02-0105		11.60	0.22	0.6	0.032	0.40	6.4	17.8	7.11	964	0.50	0.67	3.6	253	320	4.3
2002-04-02-0106		12.05	0.22	0.5	0.030	0.32	6.0	29.8	6.69	1000	0.53	0.81	3.2	217	140	3.7
2002-04-02-0107		10.45	0.21	0.4	0.029	0.33	5.0	31.0	6.61	933	0.42	0.68	2.6	219	200	3.9
2002-04-02-0108		11.45	0.24	0.6	0.027	0.39	6.7	19.2	8.06	1515	0.45	0.62	3.5	346	190	4.2
2002-04-02-0109		10.75	0.25	0.3	0.030	0.33	3.9	34.8	8.55	850	0.33	0.70	2.1	420	140	3.8
2002-04-02-0110		16.50	0.13	2.1	0.028	1.11	12.3	23.1	3.75	681	1.15	1.84	5.2	125.0	350	7.4
2002-04-02-0111		17.05	0.10	2.9	0.024	1.59	16.6	20.8	1.73	904	1.85	2.12	5.9	69.3	480	11.0
2002-04-02-0112		11.60	0.13	0.7	0.024	0.42	6.6	16.9	8.44	811	0.60	0.62	3.5	384	100	4.0
2002-04-02-0113		10.40	0.13	0.3	0.027	0.24	2.6	23.7	9.46	859	0.22	0.65	1.7	463	70	2.8
2002-04-02-0114		10.15	0.13	0.4	0.030	0.26	3.8	22.6	7.48	1020	0.27	0.79	2.0	351	140	2.7
2002-04-02-0115		12.35	0.14	0.7	0.026	0.52	8.2	30.3	8.10	799	0.55	0.66	4.6	370	70	5.6
2002-04-02-0116		13.55	0.15	0.7	0.032	0.53	9.5	35.6	7.60	883	0.70	0.62	5.2	372	210	5.4
2002-04-02-0117		12.30	0.13	0.8	0.027	0.55	7.5	32.3	7.55	734	0.96	0.71	3.9	386	250	5.2
2002-04-02-0118		13.55	0.14	1.4	0.023	0.84	9.7	21.7	6.80	912	0.84	1.25	4.3	361	250	7.4
2002-04-02-0119		13.00	0.15	0.8	0.026	0.54	7.9	25.1	8.23	979	0.83	0.67	5.0	451	220	6.8
2002-04-02-0120		11.25	0.15	0.5	0.025	0.38	6.0	37.8	8.44	823	0.34	0.64	3.4	462	160	4.5
2002-04-02-0121		11.70	0.13	0.8	0.029	0.56	7.6	27.6	7.87	763	0.37	0.91	3.9	397	110	4.9

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2002-04-02-0122		9.35	0.14	0.2	0.022	0.29	1.8	49.9	9.61	986	0.22	0.58	1.2	697	120	3.5
2002-04-02-0123		9.83	0.13	0.4	0.025	0.36	4.6	45.3	9.05	863	0.27	0.68	2.2	482	160	3.9
2002-04-02-0124		17.00	0.11	3.3	0.015	1.79	17.9	18.2	1.02	361	1.50	2.64	5.4	38.0	510	9.0
2002-04-02-0125		13.25	0.14	0.6	0.043	0.47	4.7	50.6	5.58	1320	0.61	1.32	3.6	158.0	260	4.3
2002-04-02-0126		10.90	0.14	0.5	0.041	0.56	7.1	32.1	5.43	1065	0.34	1.00	3.1	183.0	210	4.4
2002-04-02-0127		12.40	0.13	0.7	0.043	0.60	4.5	35.5	5.63	1230	0.49	0.90	1.8	184.0	260	3.1
2002-04-02-0128		13.00	0.14	0.5	0.041	0.51	5.6	79.9	5.17	1110	0.42	1.57	2.3	167.0	240	16.4
2002-04-02-0129		14.40	0.14	0.5	0.048	0.41	6.8	69.7	4.88	1185	0.84	1.50	3.1	169.0	330	5.1
2002-04-02-0130		13.35	0.14	0.5	0.044	0.58	7.8	79.2	4.27	1065	0.65	1.50	4.0	133.0	210	5.4
2002-04-02-0131		15.40	0.16	0.8	0.062	1.42	9.9	110.0	3.61	1390	1.56	1.18	4.8	106.0	260	11.8
2002-04-02-0132		12.70	0.14	0.6	0.057	0.60	9.2	89.6	5.04	1470	1.12	1.32	4.0	144.0	190	9.8
2002-04-02-0133		17.15	0.12	2.3	0.027	2.59	37.2	250	0.20	586	1.06	1.01	15.4	4.2	590	17.6
2002-04-02-0134		15.90	0.13	2.3	0.023	2.63	31.0	440	0.19	510	1.01	0.91	15.5	4.8	530	19.0
2002-04-02-0135		16.05	0.13	2.4	0.020	2.57	36.0	210	0.32	450	0.87	0.92	15.4	8.0	550	16.1
2002-04-02-0136		17.05	0.14	2.4	0.021	2.41	33.0	150.0	0.54	561	1.13	1.16	14.2	19.4	590	17.6
2002-04-02-0137		15.85	0.15	0.3	0.039	1.41	2.2	200.0	2.93	1160	0.70	1.48	2.7	95.0	210	6.3
2002-04-02-0138		14.15	0.16	0.4	0.039	1.12	4.3	150.0	2.38	1195	0.71	1.85	2.1	103.0	230	10.2
2002-04-02-0139		15.85	0.15	2.6	0.023	2.66	31.5	310	0.16	391	0.79	1.14	15.5	3.5	600	15.0
2002-04-02-0140		14.80	0.16	1.5	0.039	1.71	22.6	150.0	1.86	1025	0.89	1.72	8.8	87.1	360	14.4
2002-04-02-0141		12.00	0.15	0.5	0.037	0.48	6.7	49.9	6.62	1100	0.45	0.82	3.3	233	200	4.6
2002-04-02-0142		11.15	0.16	0.2	0.042	0.33	1.3	48.4	7.77	1215	0.32	0.91	0.7	284	110	1.8
2002-04-02-0143		11.55	0.16	0.5	0.040	0.56	5.0	38.6	6.08	1085	0.44	0.92	2.4	215	470	5.5
2002-04-02-0144		10.70	0.14	0.2	0.079	0.33	1.2	42.0	7.55	1355	0.21	0.80	0.6	329	80	1.9
2002-04-02-0145		12.00	0.16	0.3	0.042	0.76	1.6	320	2.43	1245	0.26	0.79	0.7	254	110	2.6
2002-04-02-0146		10.75	0.13	0.2	0.035	0.35	1.1	58.3	7.51	1105	0.14	1.42	0.7	313	70	2.3
2002-04-02-0147		11.60	0.13	0.3	0.041	0.38	1.4	58.6	7.35	1080	0.22	1.44	0.7	272	100	2.5
2002-04-02-0148		10.40	0.12	0.2	0.035	0.37	1.1	68.4	7.86	1080	0.08	1.14	0.6	327	90	2.2
2002-04-02-0149		16.00	0.15	0.7	0.034	1.35	9.4	150.0	4.24	1100	1.13	0.74	2.3	313	380	11.9
2002-04-02-0150		19.70	0.13	1.7	0.027	1.92	17.5	90.5	3.17	720	0.53	1.58	3.9	176.0	340	21.0
2002-04-02-0151		20.3	0.16	1.7	0.030	1.91	17.0	100.0	3.23	750	0.66	1.56	4.2	179.0	360	22.0
2002-04-02-0152		16.25	0.15	0.7	0.031	0.92	8.0	210	6.43	937	0.26	1.18	2.4	322	340	11.6
2002-04-02-0153		15.00	0.15	0.9	0.035	1.01	12.8	130.0	5.53	798	0.50	1.37	3.8	252	280	13.3
2002-04-02-0154		12.35	0.15	0.9	0.032	0.72	11.4	80.1	6.21	942	0.58	1.00	4.8	289	340	6.7
2002-04-02-0155		9.80	0.15	0.2	0.032	0.35	2.2	89.3	8.89	1230	0.09	0.52	1.1	349	90	2.7
2002-04-02-0156		12.45	0.16	1.0	0.032	0.82	14.3	100.0	5.70	857	0.54	1.15	5.6	223	320	7.4
2002-04-02-0157		8.62	0.14	0.2	0.030	0.19	2.2	78.6	9.82	1205	0.16	0.51	1.0	447	100	4.0
2002-04-02-0158		14.90	0.15	1.2	0.034	1.20	14.3	160.0	6.12	841	0.34	0.83	3.9	246	290	16.0
2002-04-02-0159		14.90	0.13	1.4	0.032	1.40	17.2	120.0	4.94	766	0.52	1.13	4.3	196.0	350	11.0
2002-04-02-0160		17.75	0.15	1.8	0.040	1.80	18.5	130.0	3.87	709	0.55	1.23	4.9	156.0	410	17.0
2002-04-02-0161		27.1	0.13	3.6	0.026	2.84	32.0	170.0	0.26	253	0.85	0.96	4.7	4.9	390	46.3

Comments: REE's may not be totally soluble in MS61 method.

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: TRUE NORTH GEMS
701 KENWOOD RD.
WEST VANCOUVER BC V7S 1S7

Date : 30-Oct-2002
Account: THR

Project : Regal Ridge

CERTIFICATE OF ANALYSIS VA02003451

Sample Description	Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
2002-04-02-0162		16.15	0.13	1.9	0.029	1.83	20.0	90.1	3.91	622	0.78	1.25	8.0	194.0	460	12.0
2002-04-02-0163		15.55	0.13	1.8	0.031	1.61	20.5	100.0	4.25	793	1.16	1.06	8.1	218	590	13.0
2002-04-02-0164		15.85	0.15	1.7	0.023	1.52	16.9	69.5	5.69	676	1.19	1.51	9.5	317	330	16.1
2002-04-02-0165		9.66	0.14	0.1	0.028	0.08	<0.5	31.5	11.20	893	<0.05	0.53	0.2	529	30	0.8
2002-04-02-0166		8.26	0.15	0.2	0.024	0.16	1.9	20.6	12.45	898	0.20	0.37	0.9	837	70	2.0
2002-04-02-0167		12.35	0.15	0.5	0.039	0.36	4.7	39.5	9.11	1005	0.45	0.80	2.1	502	190	4.0
2002-04-02-0168		9.04	0.15	0.1	0.022	0.07	0.9	16.3	12.90	800	0.17	0.20	0.6	840	80	1.3
2002-04-02-0169		17.00	0.11	2.6	0.024	2.24	31.5	38.8	0.51	631	1.32	2.21	14.4	8.5	630	19.5
2002-04-02-0170		17.85	0.15	2.7	0.018	2.24	33.1	28.5	0.39	443	1.19	1.85	14.7	8.5	420	18.0
2002-04-02-0171		17.20	0.13	2.5	0.020	2.11	30.5	38.6	0.29	406	2.00	1.59	13.9	6.4	530	16.0
2002-04-02-0172		18.35	0.11	2.7	0.017	2.04	18.5	40.1	0.75	381	1.32	2.24	8.4	38.0	560	23.0
2002-04-02-0173		11.75	0.14	0.4	0.038	0.43	5.4	30.8	8.17	1160	0.41	0.83	2.2	496	230	9.9
2002-04-02-0174		9.89	0.12	0.2	0.037	0.44	1.0	16.6	6.92	1090	0.17	1.45	0.7	244	70	1.2
2002-04-02-0175		11.40	0.14	1.1	0.026	1.10	16.6	44.4	6.38	852	0.75	1.13	6.0	460	240	8.8
2002-04-02-0176		10.50	0.14	0.7	0.026	0.71	9.2	47.2	8.37	903	0.42	0.80	3.8	643	180	7.1
2002-04-02-0177		10.05	0.13	0.3	0.026	0.48	3.5	67.7	9.98	987	0.32	0.73	1.6	633	130	3.7
2002-04-02-0178		10.00	0.15	0.1	0.025	0.33	0.7	76.1	10.85	1030	0.07	0.71	0.6	535	70	3.8
2002-04-02-0179		9.68	0.14	0.1	0.022	0.21	0.7	49.6	11.45	952	0.22	0.40	0.7	664	70	1.5
2002-04-02-0180		9.05	0.17	0.2	0.021	0.14	2.8	26.4	12.60	691	0.17	0.21	0.9	1050	100	2.5
2002-04-02-0181		8.91	0.15	0.2	0.030	0.34	2.3	67.5	9.91	1125	0.18	0.82	1.1	488	60	2.0
2002-04-02-0182		9.04	0.24	0.2	0.032	0.26	1.2	60.1	8.68	958	0.15	0.63	0.9	389	70	1.6
2002-04-02-0183		9.20	0.25	0.1	0.030	0.34	0.5	71.7	8.47	963	0.19	0.98	0.5	391	60	1.2
2002-04-02-0184		12.60	0.27	0.2	0.024	0.18	0.6	60.4	9.14	804	0.15	0.50	0.8	474	130	1.6
2002-04-02-0185		10.80	0.23	0.1	0.029	0.23	0.8	59.2	9.76	959	0.16	0.64	0.6	542	70	2.2
2002-04-02-0186		12.95	0.27	0.1	0.021	0.30	0.7	68.6	10.70	834	0.14	0.39	0.7	605	120	2.0
2002-04-02-0187		11.80	0.26	0.1	0.023	0.26	1.5	52.2	9.96	784	0.41	0.47	0.8	566	60	2.4
2002-04-02-0188		15.55	0.21	1.5	0.019	1.59	20.2	46.0	2.36	638	0.84	1.12	9.1	143.0	430	13.0
2002-04-02-0189		15.70	0.24	1.3	0.023	1.51	18.8	51.6	3.36	642	0.87	1.19	6.3	151.0	380	14.3
2002-04-02-0190		16.60	0.25	1.5	0.022	1.62	18.1	54.9	2.86	782	0.87	1.05	8.1	127.0	430	14.8
2002-04-02-0191		16.60	0.25	1.5	0.024	1.64	20.8	73.8	3.22	671	1.58	0.93	9.7	187.0	490	15.4
2002-04-02-0192		12.70	0.27	0.6	0.024	0.65	11.4	60.3	8.50	744	0.84	0.51	3.6	612	180	7.4
2002-04-02-0193		12.95	0.23	1.3	0.021	0.91	8.6	40.1	4.72	679	1.06	1.43	2.8	195.0	460	7.3
2002-04-02-0194		15.05	0.25	1.3	0.026	1.50	19.8	62.6	4.16	683	0.90	1.06	8.0	220	310	12.2
2002-04-02-0195		15.65	0.24	1.0	0.035	0.92	14.4	52.1	5.43	963	1.25	0.74	6.1	257	360	11.2
2002-04-02-0196		13.70	0.24	1.0	0.025	1.14	16.4	58.7	5.46	646	0.84	0.94	6.0	302	240	10.6
2002-04-02-0197		18.65	0.25	1.6	0.032	1.59	22.2	210	2.00	739	1.89	1.14	9.0	100.0	530	18.6
2002-04-02-0198		11.20	0.25	0.2	0.046	0.25	1.0	47.1	6.94	1285	2.35	0.86	0.8	206	100	1.9
2002-04-02-0199		12.75	0.22	0.3	0.044	0.20	2.8	38.9	6.07	1060	4.42	1.53	1.5	152.0	160	2.4
2002-04-02-0200		13.50	0.25	0.6	0.044	0.43	7.0	35.9	4.96	932	4.45	1.73	3.2	114.0	230	4.3
2002-04-02-0201		12.65	0.21	0.5	0.039	0.42	6.5	33.9	4.98	948	1.13	1.83	2.8	115.0	220	4.2

Comments: REE's may not be totally soluble in MS61 method.

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: TRUE NORTH GEMS
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WEST VANCOUVER BC V7S 1S7

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CERTIFICATE OF ANALYSIS VA02003451

Sample Description	Method Analyte Units LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Tl % 0.01	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
2002-04-02-0001		22.3	<0.002	<0.01	0.13	1	0.9	71.2	0.10	<0.05	1.6	0.21	0.21	0.4	232	2.7
2002-04-02-0002		29.5	<0.002	<0.01	0.15	1	3.2	73.4	0.18	0.05	2.4	0.18	0.26	0.5	211	5.6
2002-04-02-0003		31.9	<0.002	<0.01	0.20	1	1.6	83.0	0.28	<0.05	4.3	0.21	0.28	1.0	194	3.1
2002-04-02-0004		24.0	<0.002	0.02	0.11	1	0.5	40.2	0.08	0.09	1.1	0.18	0.19	2.8	229	2.4
2002-04-02-0005		58.8	<0.002	0.01	0.21	1	2.0	91.2	0.33	<0.05	5.9	0.20	0.46	1.4	154	2.8
2002-04-02-0006		48.1	<0.002	0.01	0.34	1	2.0	86.7	0.61	<0.05	8.1	0.24	0.31	5.8	177	2.4
2002-04-02-0007		90.3	<0.002	<0.01	0.07	1	1.5	200.0	0.60	<0.05	18.5	0.23	0.80	2.7	81	2.3
2002-04-02-0008		59.7	0.002	0.01	0.21	1	1.7	110.0	0.49	<0.05	9.9	0.21	0.53	1.7	144	3.1
2002-04-02-0009		69.6	<0.002	<0.01	0.23	1	5.3	22.9	0.16	<0.05	2.7	0.17	0.51	4.1	242	6.1
2002-04-02-0010		43.7	<0.002	0.01	0.35	1	2.9	78.8	0.23	<0.05	4.6	0.20	0.32	1.2	176	6.9
2002-04-02-0011		46.1	<0.002	0.03	0.38	1	2.2	54.6	0.26	<0.05	3.1	0.22	0.27	1.1	197	2.1
2002-04-02-0012		35.0	<0.002	<0.01	0.42	1	2.0	80.8	0.29	<0.05	5.0	0.23	0.37	1.2	176	6.3
2002-04-02-0013		30.5	<0.002	<0.01	0.32	1	1.7	102.0	0.18	<0.05	2.9	0.17	0.22	0.9	171	4.1
2002-04-02-0014		29.7	<0.002	0.01	0.40	1	1.4	86.8	0.22	<0.05	4.0	0.20	0.19	1.2	171	5.6
2002-04-02-0015		32.3	<0.002	<0.01	0.42	1	2.0	68.8	0.30	<0.05	4.9	0.21	0.23	1.2	179	3.6
2002-04-02-0016		30.4	<0.002	<0.01	0.43	1	1.5	67.0	0.25	<0.05	3.6	0.19	0.22	1.0	199	3.2
2002-04-02-0017		51.1	<0.002	0.01	0.41	1	2.5	107.0	0.25	<0.05	4.7	0.17	0.31	1.2	157	10.2
2002-04-02-0018		42.6	<0.002	0.04	0.30	1	2.0	172.0	0.21	<0.05	3.8	0.17	0.25	1.3	132	2.2
2002-04-02-0019		80.5	<0.002	0.04	0.28	1	3.6	188.0	0.20	<0.05	6.4	0.18	0.43	2.0	105	3.8
2002-04-02-0020		110.0	<0.002	0.01	0.16	1	5.4	64.8	0.26	<0.05	7.2	0.15	0.64	2.2	142	10.2
2002-04-02-0021		120.0	<0.002	<0.01	0.16	1	5.4	78.3	0.39	<0.05	9.1	0.17	0.75	3.0	127	4.8
2002-04-02-0022		120.0	<0.002	0.03	0.30	1	5.8	70.9	0.23	<0.05	10.4	0.20	0.65	2.4	142	5.2
2002-04-02-0023		90.4	<0.002	0.05	0.34	1	3.7	249	0.27	<0.05	8.5	0.21	0.52	2.4	100	4.0
2002-04-02-0024		42.8	<0.002	0.05	0.40	1	1.1	458	0.37	<0.05	5.7	0.21	0.24	2.6	46	0.9
2002-04-02-0025		21.6	<0.002	<0.01	0.16	1	5.2	81.3	0.18	<0.05	1.4	0.20	0.16	0.4	208	1.6
2002-04-02-0026		14.6	<0.002	<0.01	0.15	1	1.7	81.5	0.18	<0.05	1.9	0.19	0.09	0.5	203	1.3
2002-04-02-0027		19.7	<0.002	<0.01	0.22	1	1.8	84.8	0.20	<0.05	2.2	0.20	0.12	0.5	196	3.5
2002-04-02-0028		53.7	<0.002	<0.01	0.19	1	3.1	85.2	0.30	<0.05	3.9	0.20	0.41	1.6	181	1.6
2002-04-02-0029		51.0	<0.002	0.01	0.52	1	1.9	111.0	0.38	<0.05	7.3	0.29	0.42	1.9	169	2.9
2002-04-02-0030		45.1	<0.002	<0.01	0.36	1	1.8	81.6	0.35	<0.05	5.4	0.25	0.35	1.4	174	2.3
2002-04-02-0031		44.2	<0.002	<0.01	0.32	1	1.6	82.2	0.37	<0.05	5.6	0.22	0.41	1.4	159	2.0
2002-04-02-0032		43.4	<0.002	0.02	0.48	1	1.8	76.9	0.32	<0.05	6.1	0.27	0.35	1.8	166	2.4
2002-04-02-0033		32.6	<0.002	<0.01	0.34	1	1.7	70.6	0.35	<0.05	4.9	0.26	0.27	1.5	199	3.8
2002-04-02-0034		40.0	<0.002	0.01	0.31	1	2.3	73.7	0.28	<0.05	3.9	0.21	0.31	1.3	181	1.8
2002-04-02-0035		26.1	<0.002	<0.01	0.12	1	1.9	56.5	0.14	<0.05	2.4	0.17	0.18	0.8	194	2.0
2002-04-02-0036		23.3	<0.002	<0.01	0.16	1	1.7	49.5	0.20	<0.05	2.3	0.21	0.17	0.8	211	2.0
2002-04-02-0037		24.4	0.002	0.01	0.28	1	2.5	36.9	0.19	<0.05	2.4	0.18	0.19	0.9	199	2.5
2002-04-02-0038		30.7	0.004	0.02	0.27	1	2.4	41.0	0.19	<0.05	2.2	0.18	0.21	0.9	198	5.2
2002-04-02-0039		39.5	0.003	0.01	0.27	1	3.2	61.0	0.24	<0.05	3.4	0.19	0.29	1.5	190	3.8
2002-04-02-0040		60.0	0.003	0.03	0.28	1	4.6	60.0	0.30	<0.05	4.8	0.20	0.38	1.5	175	3.4

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Sample Description	Method Analyte Units LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Tl % 0.01	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
2002-04-02-0041		39.5	0.002	0.01	0.18	1	3.3	55.2	0.19	<0.05	2.6	0.16	0.29	0.8	195	2.1
2002-04-02-0042		60.3	0.003	0.05	0.38	1	2.4	287	0.25	<0.05	5.8	0.20	0.39	2.0	92	4.9
2002-04-02-0043		140.0	0.003	0.03	0.22	1	5.5	83.1	0.25	<0.05	14.0	0.20	0.82	2.8	121	3.7
2002-04-02-0044		190.0	0.004	0.03	0.33	1	7.4	98.5	0.54	<0.05	16.0	0.21	1.16	3.5	115	5.8
2002-04-02-0045		80.4	0.003	0.05	0.46	1	2.7	414	0.32	<0.05	9.8	0.23	0.49	6.2	51	1.1
2002-04-02-0046		37.6	0.004	0.03	0.13	1	4.4	30.0	0.24	<0.05	1.6	0.10	0.23	0.6	167	0.8
2002-04-02-0047		26.2	0.004	0.02	0.15	1	2.3	35.0	0.22	<0.05	1.8	0.12	0.16	0.6	177	0.6
2002-04-02-0048		22.8	0.002	0.01	0.10	1	2.2	22.0	0.16	<0.05	1.4	0.11	0.15	0.5	206	0.7
2002-04-02-0049		21.6	0.002	<0.01	<0.05	1	2.0	25.0	0.13	<0.05	1.0	0.11	0.14	0.5	208	0.8
2002-04-02-0050		6.9	0.003	0.01	<0.05	1	1.5	11.4	<0.05	<0.05	0.2	0.07	0.04	0.1	160	0.3
2002-04-02-0051		9.2	0.004	0.01	<0.05	1	1.6	12.6	<0.05	<0.05	0.2	0.08	0.05	0.1	158	0.3
2002-04-02-0052		14.4	0.004	0.01	0.08	1	1.1	64.3	0.10	<0.05	1.1	0.10	0.08	0.5	151	0.4
2002-04-02-0053		38.2	0.003	0.01	0.28	1	2.8	52.0	0.36	<0.05	3.0	0.18	0.26	1.3	188	1.3
2002-04-02-0054		31.1	0.002	0.02	0.24	1	2.9	47.0	0.31	<0.05	2.9	0.16	0.23	0.8	173	1.3
2002-04-02-0055		30.3	0.004	0.02	0.20	1	2.1	98.7	0.30	<0.05	2.8	0.18	0.20	1.0	175	0.8
2002-04-02-0056		26.6	0.002	0.02	0.15	1	2.3	28.4	0.24	<0.05	2.0	0.15	0.18	1.1	198	0.7
2002-04-02-0057		41.0	0.003	0.01	0.31	1	2.2	49.4	0.34	<0.05	3.6	0.15	0.29	1.6	182	1.1
2002-04-02-0058		36.1	0.004	0.06	0.39	1	2.5	59.4	0.31	<0.05	3.3	0.14	0.25	3.3	151	1.2
2002-04-02-0059		29.3	0.005	0.02	0.35	1	1.9	68.8	0.43	<0.05	3.3	0.16	0.20	1.2	171	1.1
2002-04-02-0060		37.1	0.005	0.02	0.30	1	2.3	91.5	0.34	<0.05	3.1	0.17	0.24	1.2	162	1.1
2002-04-02-0061		32.6	0.005	0.02	0.38	1	2.0	107.0	0.31	<0.05	3.8	0.18	0.23	1.1	155	2.6
2002-04-02-0062		35.0	0.005	0.01	0.33	1	2.2	58.8	0.30	<0.05	3.4	0.16	0.25	1.1	169	1.3
2002-04-02-0063		35.0	0.006	0.01	0.35	1	2.5	55.5	0.35	<0.05	3.8	0.15	0.23	1.2	168	6.2
2002-04-02-0064		20.7	0.004	0.01	0.21	1	1.5	49.4	0.19	<0.05	2.2	0.13	0.14	0.8	179	0.7
2002-04-02-0065		37.2	0.006	0.01	0.20	1	3.8	39.0	0.42	<0.05	2.5	0.13	0.25	1.2	163	1.2
2002-04-02-0066		13.4	0.005	0.02	0.10	1	1.5	42.8	0.12	<0.05	1.1	0.10	0.08	0.4	147	0.6
2002-04-02-0067		40.4	0.005	0.04	0.36	1	0.8	459	0.35	<0.05	4.6	0.23	0.22	1.8	60	0.5
2002-04-02-0068		10.9	0.006	0.03	0.11	1	0.9	26.3	0.15	<0.05	1.2	0.09	0.08	0.4	139	0.4
2002-04-02-0069		34.0	0.006	0.04	0.29	1	0.9	370	0.29	<0.05	3.6	0.23	0.18	1.4	101	0.5
2002-04-02-0070		15.5	0.005	0.02	0.10	1	1.8	27.6	0.12	<0.05	0.8	0.11	0.10	0.3	187	3.9
2002-04-02-0071		12.7	0.005	0.02	0.09	1	0.7	24.2	0.09	<0.05	0.7	0.12	0.07	0.3	205	0.4
2002-04-02-0072		7.0	0.005	0.01	0.09	1	0.4	21.7	0.06	<0.05	1.1	0.10	0.16	0.2	191	0.3
2002-04-02-0073		10.4	0.006	<0.01	0.10	1	1.0	40.9	0.12	<0.05	1.0	0.14	0.07	0.3	210	0.4
2002-04-02-0074		10.6	0.006	<0.01	0.13	1	0.6	37.9	0.10	<0.05	1.2	0.12	0.08	0.3	187	0.4
2002-04-02-0075		8.5	0.002	0.01	0.23	1	0.3	27.8	0.05	0.07	0.8	0.11	0.09	0.2	191	0.2
2002-04-02-0076		10.7	0.002	0.01	0.24	1	0.6	39.8	0.11	0.05	1.1	0.13	0.07	0.3	191	0.3
2002-04-02-0077		15.4	0.002	0.01	0.25	1	0.7	35.3	0.16	0.05	1.3	0.16	0.09	0.3	219	0.5
2002-04-02-0078		9.7	0.002	0.01	0.23	1	0.5	29.2	0.64	0.05	1.0	0.14	0.06	0.8	199	0.3
2002-04-02-0079		18.5	0.002	0.01	0.24	1	0.8	74.2	0.17	0.05	1.8	0.15	0.22	0.6	180	0.3
2002-04-02-0080		9.4	0.002	0.01	0.24	1	0.5	28.4	0.12	0.05	1.2	0.14	0.06	0.3	197	0.3

Comments: REE's may not be totally soluble in MS61 method.

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: TRUE NORTH GEMS
701 KENWOOD RD.
WEST VANCOUVER BC V7S 1S7

Date : 30-Oct-2002
Account: THR

Project : Regal Ridge

CERTIFICATE OF ANALYSIS VA02003451

Sample Description	Method Analyte Units LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Tl % 0.01	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
2002-04-02-0081		18.0	0.002	0.01	0.34	1	0.8	45.9	0.21	0.05	2.3	0.19	0.11	0.6	201	0.5
2002-04-02-0082		9.6	0.002	0.01	0.21	1	0.5	29.6	0.11	0.05	1.3	0.13	0.06	0.3	187	0.4
2002-04-02-0083		12.5	0.002	0.01	0.23	1	1.7	30.0	0.13	0.05	1.2	0.14	0.07	0.4	212	0.5
2002-04-02-0084		3.4	0.002	0.01	0.11	1	0.3	31.2	0.05	0.05	0.3	0.10	0.02	0.1	201	0.2
2002-04-02-0085		12.0	0.002	0.01	0.13	1	0.4	22.5	0.05	0.05	0.2	0.11	0.06	0.1	207	0.2
2002-04-02-0086		9.5	0.002	0.01	0.32	1	0.6	27.9	0.09	0.06	0.6	0.12	0.06	0.2	182	0.5
2002-04-02-0087		4.8	0.002	0.01	0.09	1	0.2	9.2	0.05	0.05	0.2	0.10	0.02	0.1	144	0.2
2002-04-02-0088		9.0	0.002	0.01	0.11	1	0.5	54.1	0.05	0.05	0.2	0.11	0.06	0.1	189	0.9
2002-04-02-0090		11.3	0.002	0.01	0.17	1	9.8	9.9	0.05	0.05	0.2	0.09	0.08	0.1	173	0.4
2002-04-02-0091		7.9	0.002	0.01	0.16	1	0.5	17.1	0.06	0.05	0.4	0.10	0.05	0.2	190	0.5
2002-04-02-0092		9.5	0.002	0.01	0.16	1	0.8	43.4	0.09	0.05	0.9	0.10	0.06	0.3	182	0.5
2002-04-02-0093		17.1	0.002	0.01	0.29	1	1.3	32.5	0.16	0.05	1.7	0.14	0.12	0.4	183	1.2
2002-04-02-0094		19.8	0.002	0.01	0.36	1	1.3	53.6	0.19	0.05	2.7	0.15	0.22	0.6	167	3.4
2002-04-02-0095		37.9	0.002	0.03	0.43	1	1.6	287	0.29	0.05	4.2	0.19	0.23	1.3	102	2.3
2002-04-02-0096		16.2	0.002	0.01	0.17	1	3.4	33.0	0.09	0.05	1.0	0.12	0.13	0.3	190	1.0
2002-04-02-0097		14.9	0.002	0.01	0.23	1	3.4	43.6	0.12	0.05	1.3	0.12	0.11	0.3	191	2.6
2002-04-02-0098		12.1	0.002	0.01	0.13	1	3.7	42.3	0.05	0.05	0.3	0.08	0.14	0.1	170	8.5
2002-04-02-0099		13.0	0.002	0.01	0.23	1	1.6	29.4	0.16	0.05	1.4	0.15	0.08	0.4	205	1.4
2002-04-02-0100		15.7	0.002	0.01	0.20	1	1.8	59.1	0.15	0.05	1.3	0.14	0.10	0.4	227	2.9
2002-04-02-0101		14.3	0.002	0.01	0.17	1	1.8	46.1	0.16	0.05	1.1	0.13	0.09	0.4	226	1.4
2002-04-02-0102		22.4	0.002	0.01	0.33	1	2.7	61.9	0.28	0.05	2.6	0.19	0.14	0.7	183	1.9
2002-04-02-0103		19.0	0.002	0.01	0.46	1	1.4	58.5	0.17	0.05	1.7	0.14	0.11	0.5	171	0.7
2002-04-02-0104		18.0	0.002	0.01	0.22	1	1.4	69.1	0.18	0.05	1.5	0.14	0.10	0.4	209	0.9
2002-04-02-0105		21.2	0.002	0.01	0.23	1	1.8	40.6	0.24	0.05	2.2	0.18	0.11	0.5	195	0.7
2002-04-02-0106		17.9	0.002	0.01	0.25	1	1.3	36.7	0.22	0.05	1.8	0.16	0.10	0.5	198	0.8
2002-04-02-0107		21.9	0.002	0.01	0.22	1	2.8	40.9	0.27	0.05	1.6	0.13	0.15	0.4	180	1.9
2002-04-02-0108		30.8	0.002	0.01	0.35	1	4.4	34.9	0.27	0.05	2.0	0.15	0.22	0.6	201	3.2
2002-04-02-0109		21.6	0.002	0.01	0.18	1	2.2	28.8	0.19	0.05	1.6	0.13	0.16	0.5	189	0.7
2002-04-02-0110		34.1	<0.002	<0.01	0.34	1	2.2	354	0.31	<0.05	3.8	0.24	0.23	1.3	136	0.9
2002-04-02-0111		42.9	<0.002	0.02	0.51	1	1.0	371	0.37	<0.05	5.3	0.16	0.30	1.9	73	1.1
2002-04-02-0112		18.7	<0.002	<0.01	0.13	1	1.8	62.1	0.19	<0.05	2.0	0.14	0.13	0.6	194	0.8
2002-04-02-0113		14.2	<0.002	<0.01	0.11	1	1.6	24.8	0.18	<0.05	1.0	0.11	0.09	0.3	204	0.4
2002-04-02-0114		13.7	<0.002	<0.01	0.15	1	0.8	38.0	0.14	<0.05	1.4	0.12	0.09	0.4	198	0.7
2002-04-02-0115		32.1	<0.002	<0.01	0.16	1	3.1	49.1	0.25	<0.05	2.3	0.16	0.22	0.7	174	0.9
2002-04-02-0116		32.6	<0.002	<0.01	0.30	1	3.3	49.1	0.31	<0.05	2.9	0.19	0.23	0.9	186	1.2
2002-04-02-0117		31.3	<0.002	<0.01	0.30	1	3.5	66.8	0.28	<0.05	2.3	0.14	0.19	0.9	159	0.8
2002-04-02-0118		29.8	<0.002	<0.01	0.50	1	2.2	179.0	0.55	<0.05	3.1	0.16	0.23	1.1	150	0.8
2002-04-02-0119		28.5	<0.002	<0.01	0.25	1	2.8	68.1	0.29	<0.05	2.6	0.17	0.23	0.9	179	0.8
2002-04-02-0120		24.2	<0.002	<0.01	0.18	1	3.2	44.1	0.30	<0.05	1.9	0.13	0.18	0.6	170	1.3
2002-04-02-0121		26.5	<0.002	<0.01	0.18	1	2.4	98.0	0.42	<0.05	2.3	0.15	0.17	0.7	158	0.8

Comments: REE's may not be totally soluble in MS61 method.

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: TRUE NORTH GEMS
701 KENWOOD RD.
WEST VANCOUVER BC V7S 1S7

Date : 30-Oct-2002
Account: THR

Project : Regal Ridge

CERTIFICATE OF ANALYSIS VA02003451

Sample Description	Method Analyte Units LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Tl % 0.01	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
2002-04-02-0122		27.5	<0.002	<0.01	0.10	<1	4.3	39.6	0.12	<0.05	1.1	0.08	0.25	0.3	163	0.7
2002-04-02-0123		26.6	<0.002	<0.01	0.15	1	4.7	51.1	0.19	<0.05	1.5	0.11	0.20	0.5	154	2.1
2002-04-02-0124		43.1	<0.002	0.02	0.45	1	1.2	517	0.35	<0.05	5.0	0.19	0.28	2.1	42	0.7
2002-04-02-0125		43.7	<0.002	0.01	0.27	1	3.2	73.1	0.63	0.06	1.6	0.18	0.36	0.7	209	1.7
2002-04-02-0126		38.7	<0.002	<0.01	0.28	1	0.8	59.1	0.22	<0.05	2.1	0.15	0.34	0.6	183	0.6
2002-04-02-0127		21.7	<0.002	<0.01	0.21	1	0.5	93.1	0.14	0.06	1.3	0.13	0.12	0.5	201	2.3
2002-04-02-0128		33.2	<0.002	0.01	0.43	1	4.7	80.8	0.16	<0.05	1.7	0.19	0.35	0.5	226	15.4
2002-04-02-0129		22.8	<0.002	0.01	0.40	2	3.3	89.3	0.22	0.07	2.0	0.21	0.19	0.7	223	7.4
2002-04-02-0130		40.9	<0.002	<0.01	0.41	2	11.6	86.6	0.42	<0.05	2.2	0.24	0.33	0.7	210	10.3
2002-04-02-0131		110.0	<0.002	<0.01	0.36	1	7.7	82.8	0.26	<0.05	3.9	0.22	1.31	1.2	226	8.9
2002-04-02-0132		33.2	<0.002	<0.01	0.27	1	2.6	87.2	0.25	<0.05	2.9	0.21	0.52	0.7	203	3.3
2002-04-02-0133		120.0	<0.002	<0.01	0.13	1	1.5	134.0	0.73	<0.05	15.2	0.20	1.31	2.3	64	3.5
2002-04-02-0134		120.0	<0.002	<0.01	0.18	1	1.4	174.0	0.69	<0.05	15.0	0.19	1.50	2.3	58	2.5
2002-04-02-0135		120.0	<0.002	<0.01	0.14	1	1.5	140.0	0.72	<0.05	15.3	0.19	1.34	2.2	61	2.9
2002-04-02-0136		110.0	<0.002	<0.01	0.29	1	1.7	157.0	0.73	<0.05	14.0	0.20	1.08	2.1	75	4.8
2002-04-02-0137		230	<0.002	<0.01	0.32	1	19.4	46.7	0.51	<0.05	0.9	0.18	1.81	0.9	204	32.0
2002-04-02-0138		150.0	<0.002	<0.01	0.17	1	12.6	77.6	0.18	0.05	1.4	0.20	1.31	0.8	225	100.0
2002-04-02-0139		110.0	<0.002	<0.01	0.11	1	1.5	196.0	0.68	<0.05	15.4	0.20	1.03	2.3	57	3.1
2002-04-02-0140		80.7	<0.002	<0.01	0.16	1	1.1	133.0	0.43	<0.05	9.7	0.18	0.75	1.6	146	2.2
2002-04-02-0141		21.7	<0.002	<0.01	0.28	1	0.6	60.7	0.22	<0.05	2.3	0.16	0.16	0.5	202	0.8
2002-04-02-0142		10.1	<0.002	<0.01	0.19	1	0.4	47.8	0.05	0.05	0.4	0.12	0.09	0.3	228	0.3
2002-04-02-0143		22.3	<0.002	0.02	0.22	1	0.7	62.0	0.16	<0.05	1.7	0.16	0.15	0.6	201	0.6
2002-04-02-0144		8.9	<0.002	<0.01	0.10	1	0.9	47.3	<0.05	0.06	0.3	0.11	0.07	0.4	241	0.3
2002-04-02-0145		51.2	<0.002	<0.01	0.13	1	0.3	61.5	0.05	<0.05	0.5	0.12	0.43	0.6	238	1.3
2002-04-02-0146		10.3	<0.002	<0.01	0.13	<1	0.3	56.0	0.05	<0.05	0.7	0.11	0.08	0.2	216	0.3
2002-04-02-0147		12.3	<0.002	<0.01	0.12	1	0.3	72.4	0.06	0.05	0.5	0.12	0.09	0.3	215	0.2
2002-04-02-0148		15.6	<0.002	<0.01	0.10	<1	0.4	55.6	0.05	<0.05	0.4	0.11	0.10	0.3	215	0.2
2002-04-02-0149		180.0	<0.002	<0.01	0.21	1	15.1	61.1	0.25	<0.05	4.6	0.11	1.32	1.9	157	100.0
2002-04-02-0150		170.0	<0.002	<0.01	0.23	1	6.9	102.0	0.45	<0.05	11.5	0.12	1.17	5.7	101	2.7
2002-04-02-0151		170.0	<0.002	<0.01	0.40	1	7.0	94.9	0.35	<0.05	11.4	0.13	1.14	5.4	105	2.8
2002-04-02-0152		130.0	<0.002	0.01	0.22	1	10.5	57.8	0.24	<0.05	4.6	0.14	0.93	4.0	193	3.2
2002-04-02-0153		81.9	<0.002	0.03	0.20	1	5.5	97.0	0.30	<0.05	5.9	0.15	0.61	3.2	171	3.1
2002-04-02-0154		39.9	<0.002	0.01	0.36	1	1.5	77.6	0.33	<0.05	4.2	0.17	0.30	1.0	171	1.4
2002-04-02-0155		35.7	<0.002	<0.01	0.21	1	4.5	31.6	0.10	<0.05	0.9	0.09	0.35	0.4	196	0.8
2002-04-02-0156		54.0	<0.002	<0.01	0.39	1	3.7	79.7	0.39	<0.05	4.8	0.19	0.46	1.3	179	3.3
2002-04-02-0157		13.7	<0.002	<0.01	0.17	1	3.2	18.0	0.07	0.05	0.8	0.09	0.13	0.3	196	0.7
2002-04-02-0158		110.0	<0.002	<0.01	0.31	1	5.7	53.2	0.30	<0.05	7.7	0.14	0.72	1.8	150	1.6
2002-04-02-0159		110.0	<0.002	<0.01	0.29	1	5.6	71.2	0.30	<0.05	9.1	0.14	0.80	4.0	133	1.7
2002-04-02-0160		170.0	<0.002	<0.01	0.35	1	7.2	84.1	0.33	<0.05	12.2	0.14	1.06	6.1	112	2.8
2002-04-02-0161		330	<0.002	<0.01	0.20	1	12.4	68.2	0.51	<0.05	25.8	0.10	1.95	22.6	12	1.2

Comments: REE's may not be totally soluble in MS61 method.

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ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: TRUE NORTH GEMS
701 KENWOOD RD.
WEST VANCOUVER BC V7S 1S7

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Account: THR

Project : Regal Ridge

CERTIFICATE OF ANALYSIS VA02003451

Sample Description	Method Analyte Units LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Tl % 0.01	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
2002-04-02-0162		120.0	<0.002	<0.01	0.23	1	4.1	98.0	0.52	<0.05	11.7	0.15	0.91	5.8	112	1.6
2002-04-02-0163		100.0	<0.002	<0.01	0.27	1	3.6	88.1	0.47	<0.05	10.8	0.15	0.84	13.2	127	1.8
2002-04-02-0164		64.9	<0.002	0.01	0.18	1	1.0	230	0.51	<0.05	8.0	0.17	0.56	1.8	172	1.2
2002-04-02-0165		3.7	<0.002	<0.01	0.07	<1	<0.2	19.8	<0.05	<0.05	<0.2	0.08	0.03	0.1	208	0.2
2002-04-02-0166		7.2	<0.002	<0.01	0.08	1	0.6	32.0	0.06	<0.05	0.6	0.09	0.07	0.5	188	0.3
2002-04-02-0167		15.3	<0.002	<0.01	0.22	1	1.1	69.1	0.15	0.06	1.6	0.14	0.12	1.1	217	0.6
2002-04-02-0168		3.6	<0.002	<0.01	0.06	1	0.3	19.8	0.05	<0.05	0.3	0.13	0.04	0.7	221	0.2
2002-04-02-0169		82.2	<0.002	0.01	0.13	1	1.6	322	0.67	<0.05	15.2	0.20	0.73	3.1	65	1.3
2002-04-02-0170		90.6	<0.002	0.01	0.15	1	1.6	245	0.57	<0.05	15.2	0.19	0.77	3.3	68	1.3
2002-04-02-0171		90.2	<0.002	0.02	0.13	1	1.6	196.0	0.58	<0.05	14.5	0.20	0.69	3.2	67	1.5
2002-04-02-0172		100.0	<0.002	0.03	0.28	1	4.9	332	0.49	<0.05	9.0	0.16	0.72	3.2	39	1.0
2002-04-02-0173		18.5	<0.002	<0.01	0.09	1	0.8	50.2	0.15	0.06	1.9	0.13	0.20	2.6	191	0.7
2002-04-02-0174		9.2	<0.002	<0.01	0.05	1	0.4	50.1	0.05	<0.05	0.3	0.11	0.03	0.2	209	0.2
2002-04-02-0175		52.5	<0.002	<0.01	0.16	1	1.9	74.9	0.36	<0.05	6.4	0.13	0.47	1.5	155	1.0
2002-04-02-0176		41.1	<0.002	<0.01	0.14	1	2.5	63.5	0.28	<0.05	3.3	0.11	0.41	0.9	174	0.7
2002-04-02-0177		42.4	<0.002	<0.01	0.07	1	3.0	35.7	0.13	<0.05	1.2	0.11	0.38	0.6	203	0.4
2002-04-02-0178		25.0	<0.002	<0.01	0.05	1	1.0	20.0	<0.05	<0.05	0.2	0.10	0.17	0.2	209	0.2
2002-04-02-0179		20.6	<0.002	<0.01	0.07	1	1.6	18.6	0.08	0.05	0.5	0.11	0.24	0.2	222	0.4
2002-04-02-0180		8.7	<0.002	<0.01	<0.05	1	0.9	16.0	0.05	<0.05	1.0	0.09	0.16	0.8	191	0.3
2002-04-02-0181		26.2	<0.002	<0.01	0.12	1	1.4	24.6	0.09	<0.05	0.7	0.10	0.19	0.5	197	0.2
2002-04-02-0182		20.3	0.002	0.01	0.10	1	1.8	19.3	0.09	0.05	0.4	0.08	0.17	0.4	173	0.2
2002-04-02-0183		24.5	0.002	0.01	0.07	1	0.5	30.8	0.05	0.05	0.2	0.08	0.17	0.1	182	0.1
2002-04-02-0184		21.4	0.002	<0.01	0.62	1	1.1	20.4	0.08	0.07	0.9	0.09	0.11	0.2	185	0.3
2002-04-02-0185		26.3	0.002	<0.01	0.60	1	1.2	23.0	0.05	0.06	0.6	0.09	0.11	0.4	191	0.7
2002-04-02-0186		44.5	0.003	<0.01	0.49	1	2.0	15.7	0.07	0.07	0.5	0.09	0.25	0.4	203	2.0
2002-04-02-0187		32.8	0.002	<0.01	0.54	1	2.3	29.2	0.07	0.06	0.8	0.09	0.19	0.3	189	0.6
2002-04-02-0188		74.4	0.002	<0.01	0.94	1	1.6	108.0	0.47	<0.05	10.8	0.15	0.60	2.0	92	1.2
2002-04-02-0189		82.0	0.002	<0.01	0.76	1	2.2	104.0	0.33	<0.05	9.5	0.14	0.58	2.3	109	1.0
2002-04-02-0190		81.9	<0.002	<0.01	0.70	1	2.2	102.0	0.38	0.05	10.0	0.15	0.60	2.4	106	1.0
2002-04-02-0191		82.4	0.002	<0.01	0.99	1	1.9	79.4	0.53	<0.05	10.9	0.16	0.72	2.1	105	1.5
2002-04-02-0192		37.3	0.002	<0.01	0.63	1	0.7	40.0	0.20	0.05	4.7	0.11	0.29	1.1	173	0.5
2002-04-02-0193		36.0	0.004	0.02	0.94	1	1.2	199.0	0.19	<0.05	3.1	0.11	0.16	1.6	110	0.5
2002-04-02-0194		73.1	0.002	<0.01	0.79	1	1.5	78.7	0.43	0.05	9.1	0.14	0.52	1.8	116	1.1
2002-04-02-0195		64.2	<0.002	<0.01	0.91	1	2.2	57.6	0.38	0.05	7.1	0.14	0.71	1.5	155	0.9
2002-04-02-0196		67.3	0.003	<0.01	0.81	1	1.6	69.1	0.34	0.05	7.5	0.12	0.55	2.3	131	0.9
2002-04-02-0197		82.5	0.003	0.01	0.83	1	1.8	146.0	0.52	0.05	11.3	0.17	0.83	8.8	109	2.9
2002-04-02-0198		32.2	0.004	<0.01	0.61	1	14.8	44.7	0.08	0.05	0.4	0.13	0.22	0.2	215	0.5
2002-04-02-0199		12.9	0.004	<0.01	0.65	1	2.3	60.7	0.10	0.05	0.9	0.15	0.06	0.3	208	0.7
2002-04-02-0200		22.2	0.002	<0.01	0.64	1	1.0	73.6	0.18	<0.05	2.8	0.18	0.11	0.6	198	0.9
2002-04-02-0201		20.4	0.003	<0.01	0.69	1	1.0	77.3	0.18	<0.05	2.7	0.18	0.08	0.6	201	0.7

Comments: REE's may not be totally soluble in MS61 method.

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EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
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701 KENWOOD RD.
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CERTIFICATE OF ANALYSIS VA02003451

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
2002-04-02-0001		7.1	151	9.5
2002-04-02-0002		7.7	150	12.8
2002-04-02-0003		9.0	138	22.9
2002-04-02-0004		5.9	197	6.8
2002-04-02-0005		6.8	114	29.2
2002-04-02-0006		9.9	100	30.3
2002-04-02-0007		10.6	64	72.4
2002-04-02-0008		7.4	95	51.6
2002-04-02-0009		4.8	129	10.8
2002-04-02-0010		7.8	103	27.5
2002-04-02-0011		7.2	96	21.9
2002-04-02-0012		7.7	94	25.1
2002-04-02-0013		6.4	89	26.6
2002-04-02-0014		7.7	95	28.8
2002-04-02-0015		8.4	94	26.1
2002-04-02-0016		7.4	96	22.3
2002-04-02-0017		5.9	91	36.6
2002-04-02-0018		5.5	91	48.4
2002-04-02-0019		5.3	79	62.2
2002-04-02-0020		5.5	88	35.4
2002-04-02-0021		6.5	90	41.3
2002-04-02-0022		5.9	96	46.2
2002-04-02-0023		6.2	88	75.2
2002-04-02-0024		7.2	73	103.0
2002-04-02-0025		7.9	104	10.5
2002-04-02-0026		8.5	123	11.7
2002-04-02-0027		8.6	101	15.9
2002-04-02-0028		9.2	85	20.7
2002-04-02-0029		10.1	88	38.8
2002-04-02-0030		8.7	80	31.1
2002-04-02-0031		7.6	71	30.8
2002-04-02-0032		8.5	70	35.3
2002-04-02-0033		8.5	79	24.7
2002-04-02-0034		7.2	89	25.5
2002-04-02-0035		6.3	100	17.0
2002-04-02-0036		7.4	91	13.9
2002-04-02-0037		6.5	64	15.4
2002-04-02-0038		6.3	72	15.7
2002-04-02-0039		7.2	73	19.9
2002-04-02-0040		6.7	73	23.7

Comments: REE's may not be totally soluble in MS61 method.

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EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
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701 KENWOOD RD.
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Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
2002-04-02-0041		6.1	72	15.5
2002-04-02-0042		6.0	60	69.0
2002-04-02-0043		5.1	69	64.9
2002-04-02-0044		5.8	64	80.3
2002-04-02-0045		8.6	49	116.0
2002-04-02-0046		4.5	341	13.4
2002-04-02-0047		4.7	64	16.3
2002-04-02-0048		3.9	57	9.0
2002-04-02-0049		4.0	58	6.6
2002-04-02-0050		2.9	61	2.9
2002-04-02-0051		3.0	59	2.3
2002-04-02-0052		3.6	58	16.4
2002-04-02-0053		5.9	68	20.1
2002-04-02-0054		5.3	66	18.2
2002-04-02-0055		4.8	55	32.9
2002-04-02-0056		4.4	59	12.2
2002-04-02-0057		6.4	65	21.4
2002-04-02-0058		5.1	62	26.3
2002-04-02-0059		6.3	64	27.3
2002-04-02-0060		6.3	70	31.0
2002-04-02-0061		6.8	66	33.6
2002-04-02-0062		6.4	67	20.4
2002-04-02-0063		7.1	71	20.4
2002-04-02-0064		5.7	60	15.1
2002-04-02-0065		5.0	71	16.4
2002-04-02-0066		4.1	58	13.4
2002-04-02-0067		5.7	53	108.5
2002-04-02-0068		3.6	60	12.7
2002-04-02-0069		5.5	58	81.3
2002-04-02-0070		4.9	61	8.3
2002-04-02-0071		4.5	58	8.3
2002-04-02-0072		4.3	51	5.5
2002-04-02-0073		5.2	77	11.0
2002-04-02-0074		4.8	82	8.3
2002-04-02-0075		4.6	83	6.9
2002-04-02-0076		5.4	75	12.5
2002-04-02-0077		6.0	78	15.3
2002-04-02-0078		5.5	79	9.3
2002-04-02-0079		5.6	79	22.5
2002-04-02-0080		5.4	84	9.9

Comments: REE's may not be totally soluble in MS61 method.

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ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
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Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
2002-04-02-0081		6.5	80	19.6
2002-04-02-0082		5.7	75	9.0
2002-04-02-0083		6.9	74	13.9
2002-04-02-0084		4.9	72	4.1
2002-04-02-0085		5.9	83	4.3
2002-04-02-0086		5.4	86	8.1
2002-04-02-0087		3.7	92	3.4
2002-04-02-0088		5.5	70	4.3
2002-04-02-0090		3.7	94	3.6
2002-04-02-0091		3.9	87	4.9
2002-04-02-0092		4.5	81	9.4
2002-04-02-0093		5.5	81	15.3
2002-04-02-0094		6.0	91	18.1
2002-04-02-0095		6.3	84	70.1
2002-04-02-0096		5.6	88	7.9
2002-04-02-0097		5.9	87	8.5
2002-04-02-0098		3.6	74	3.7
2002-04-02-0099		5.9	87	11.5
2002-04-02-0100		5.4	89	16.9
2002-04-02-0101		5.4	88	14.1
2002-04-02-0102		6.5	95	24.5
2002-04-02-0103		5.8	93	14.2
2002-04-02-0104		6.0	90	15.2
2002-04-02-0105		6.6	84	20.8
2002-04-02-0106		6.3	89	17.6
2002-04-02-0107		5.7	82	14.0
2002-04-02-0108		5.9	114	18.7
2002-04-02-0109		5.2	86	10.0
2002-04-02-0110		6.1	79	80.0
2002-04-02-0111		5.2	65	116.0
2002-04-02-0112		4.4	72	25.4
2002-04-02-0113		4.2	72	8.8
2002-04-02-0114		5.0	84	10.4
2002-04-02-0115		4.8	76	23.0
2002-04-02-0116		5.0	79	24.8
2002-04-02-0117		4.3	81	27.7
2002-04-02-0118		4.4	77	52.2
2002-04-02-0119		4.4	80	29.3
2002-04-02-0120		4.4	84	18.0
2002-04-02-0121		4.7	76	28.0

Comments: REE's may not be totally soluble in MS61 method.

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Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
2002-04-02-0122		3.0	82	5.7
2002-04-02-0123		3.6	80	14.0
2002-04-02-0124		5.3	65	128.0
2002-04-02-0125		6.7	203	14.6
2002-04-02-0126		6.0	134	15.0
2002-04-02-0127		4.4	178	26.6
2002-04-02-0128		7.0	115	16.7
2002-04-02-0129		8.1	147	16.2
2002-04-02-0130		10.3	115	16.4
2002-04-02-0131		5.9	97	24.8
2002-04-02-0132		6.4	125	19.1
2002-04-02-0133		6.9	44	76.0
2002-04-02-0134		5.3	49	78.2
2002-04-02-0135		7.8	45	79.6
2002-04-02-0136		7.0	57	80.2
2002-04-02-0137		6.3	135	6.4
2002-04-02-0138		7.4	131	10.8
2002-04-02-0139		5.1	39	83.0
2002-04-02-0140		11.1	90	46.6
2002-04-02-0141		5.5	121	16.3
2002-04-02-0142		5.2	129	5.0
2002-04-02-0143		5.1	107	17.7
2002-04-02-0144		5.1	115	5.9
2002-04-02-0145		5.9	94	9.3
2002-04-02-0146		5.0	121	5.7
2002-04-02-0147		5.4	117	6.3
2002-04-02-0148		4.9	97	4.8
2002-04-02-0149		6.4	108	20.4
2002-04-02-0150		5.4	84	56.8
2002-04-02-0151		5.7	88	57.4
2002-04-02-0152		6.9	96	20.7
2002-04-02-0153		6.0	86	30.5
2002-04-02-0154		5.5	96	29.1
2002-04-02-0155		3.7	87	5.6
2002-04-02-0156		7.1	83	30.3
2002-04-02-0157		3.8	89	6.5
2002-04-02-0158		4.9	86	37.7
2002-04-02-0159		5.6	90	46.2
2002-04-02-0160		6.2	102	60.7
2002-04-02-0161		7.1	45	110.5

Comments: REE's may not be totally soluble in MS61 method.

ALS chemex
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ALS Canada Ltd.
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Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
2002-04-02-0162		5.7	84	62.8
2002-04-02-0163		7.7	80	59.5
2002-04-02-0164		5.4	59	55.3
2002-04-02-0165		3.7	64	2.3
2002-04-02-0166		4.1	75	6.3
2002-04-02-0167		5.3	99	16.8
2002-04-02-0168		4.1	68	3.9
2002-04-02-0169		7.0	73	87.7
2002-04-02-0170		5.7	61	87.6
2002-04-02-0171		7.9	56	85.6
2002-04-02-0172		6.0	63	98.8
2002-04-02-0173		5.6	123	13.0
2002-04-02-0174		5.2	93	6.1
2002-04-02-0175		5.7	73	34.0
2002-04-02-0176		4.6	75	22.7
2002-04-02-0177		4.4	85	7.9
2002-04-02-0178		3.6	86	3.5
2002-04-02-0179		3.0	74	3.5
2002-04-02-0180		2.8	64	5.9
2002-04-02-0181		4.5	90	5.6
2002-04-02-0182		5.2	79	3.8
2002-04-02-0183		4.7	83	3.9
2002-04-02-0184		3.4	75	4.5
2002-04-02-0185		4.1	80	2.9
2002-04-02-0186		3.1	70	2.3
2002-04-02-0187		3.6	66	3.3
2002-04-02-0188		5.2	61	47.7
2002-04-02-0189		5.4	78	46.6
2002-04-02-0190		5.3	76	48.4
2002-04-02-0191		5.3	68	45.3
2002-04-02-0192		6.0	66	17.3
2002-04-02-0193		5.0	74	49.7
2002-04-02-0194		5.7	68	40.7
2002-04-02-0195		5.3	68	32.1
2002-04-02-0196		5.0	68	32.5
2002-04-02-0197		9.6	73	51.8
2002-04-02-0198		6.7	150	3.2
2002-04-02-0199		7.6	117	7.1
2002-04-02-0200		8.6	94	16.8
2002-04-02-0201		8.0	95	15.7

Comments: REE's may not be totally soluble in MS61 method.

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
Aurora Laboratory Services Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: TRUE NORTH GEMS
701 KENWOOD RD.
WEST VANCOUVER BC V7S 1S7

Date : 1-Oct-2002
Account: THR

CERTIFICATE VA02003452

Project : Regal Ridge

P.O. No:

This report is for 178 ROCK samples submitted to our lab in North Vancouver, BC, Canada on 13-Sep-2002.

The following have access to data associated with this certificate:

ANDY SMITH
DAVID GABOURY

SAMPLE PREPARATION

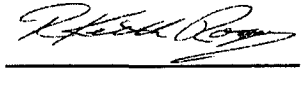
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	47 element four acid ICP-MS	
ME-ICP61i	ICP-AES elements for ME-MS61	ICP-AES
ME-MS61i	ICP-MS elements for ME-MS61	ICP-MS

To: **TRUE NORTH GEMS**
ATTN: ANDY SMITH
701 KENWOOD RD.
WEST VANCOUVER BC V7S 1S7

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 

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CERTIFICATE OF ANALYSIS VA02003452

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 0.5	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
2002-04-02-0202		0.58	0.05	7.26	1.0	380	0.81	0.18	2.81	0.08	20.4	33.0	171	16.10	54.2	4.72
2002-04-02-0203		0.36	0.06	6.19	1.1	230	0.41	0.13	3.56	0.07	10.80	30.2	195	6.34	20.5	4.29
2002-04-02-0204		0.64	0.04	6.89	3.4	540	2.19	0.80	2.68	0.13	29.2	28.7	166	13.65	44.6	4.28
2002-04-02-0205		0.50	<0.02	6.84	3.2	540	1.77	0.74	2.67	0.14	28.3	31.3	177	13.35	42.9	4.25
2002-04-02-0206		0.50	0.05	6.79	1.0	260	0.81	0.47	3.89	0.10	11.40	46.9	318	9.36	62.0	5.85
2002-04-02-0207		0.42	0.03	6.31	3.0	510	1.92	0.67	2.55	0.12	26.4	30.0	179	9.44	30.8	4.32
2002-04-02-0208		0.48	0.05	6.30	2.4	430	0.98	0.33	2.70	0.16	23.2	39.4	199	10.25	34.5	5.11
2002-04-02-0209		0.66	0.04	6.58	4.3	510	1.22	0.61	2.70	0.15	29.0	35.7	202	7.66	43.8	4.89
2002-04-02-0210		0.60	0.05	6.68	1.8	290	1.20	0.39	3.24	0.10	15.85	40.8	243	10.50	64.8	5.17
2002-04-02-0211		0.42	0.06	6.37	2.1	350	0.91	0.86	2.89	0.15	18.50	39.8	200	11.05	28.4	5.06
2002-04-02-0212		0.48	0.07	6.45	0.8	250	0.94	0.64	3.34	0.11	14.10	36.6	198	8.05	42.8	4.87
2002-04-02-0213		0.38	0.09	6.13	1.7	270	0.97	0.39	2.94	0.13	17.00	34.8	204	10.55	36.5	4.50
2002-04-02-0214		0.50	0.05	6.71	0.3	240	1.59	0.49	3.29	0.13	12.50	34.3	192	7.72	52.6	4.56
2002-04-02-0215		0.50	0.08	5.84	0.8	590	1.67	0.47	2.31	0.16	15.90	39.4	256	21.6	47.7	5.51
2002-04-02-0216		0.42	0.05	6.40	1.5	310	2.59	0.62	2.43	0.13	23.1	28.9	165	9.90	48.1	4.14
2002-04-02-0217		0.44	0.03	5.97	2.2	300	2.82	1.25	2.33	0.21	20.3	28.9	182	13.65	27.4	4.15
2002-04-02-0218		0.38	0.09	5.85	2.5	350	4.26	0.98	1.71	0.13	23.6	22.5	162	15.65	27.6	3.36
2002-04-02-0219		0.54	0.07	6.30	2.8	330	3.39	0.39	2.05	0.10	23.4	32.9	245	9.98	35.5	4.53
2002-04-02-0220		0.40	0.07	6.23	3.0	380	6.80	0.80	1.24	0.10	41.5	13.9	183	16.35	25.8	2.53
2002-04-02-0221		0.40	0.09	5.91	1.9	300	3.19	0.43	2.67	0.09	26.2	30.0	297	12.45	37.7	4.04
2002-04-02-0222		0.26	0.09	6.01	2.0	440	5.23	0.63	1.25	0.12	55.6	16.0	223	22.7	16.3	2.59
2002-04-02-0223		0.70	0.08	6.59	2.4	730	1.92	0.38	2.15	0.12	25.1	29.2	212	9.73	47.3	4.26
2002-04-02-0224		0.50	0.08	6.32	3.1	690	1.69	0.31	2.10	0.13	29.7	24.5	190	10.10	50.9	3.94
2002-04-02-0225		0.54	0.09	6.17	2.8	760	5.87	1.36	1.97	0.16	29.0	26.5	174	13.05	43.9	3.79
2002-04-02-0226		0.46	0.08	6.07	1.5	270	0.88	0.07	3.55	0.15	10.40	40.4	364	9.14	66.6	5.26
2002-04-02-0227		0.68	0.09	6.72	3.6	1250	1.84	0.09	1.41	0.17	46.8	18.6	132	18.80	46.5	3.42
2002-04-02-0228		0.50	0.08	6.80	2.4	1100	1.77	0.07	1.88	0.11	38.9	21.4	154	17.25	34.5	3.69
2002-04-02-0229		0.64	0.05	6.26	1.6	200.0	0.51	0.01	2.94	0.13	9.42	44.1	412	7.97	113.0	5.69
2002-04-02-0230		0.56	0.05	6.06	0.4	81.1	0.16	<0.01	3.77	0.08	1.39	47.1	483	4.64	154.0	6.07
2002-04-02-0231		0.34	0.04	6.22	0.2	100.0	1.11	<0.01	4.60	0.12	2.97	47.5	515	4.46	40.4	5.93
2002-04-02-0232		0.36	0.06	6.14	2.0	230	0.54	0.02	3.09	0.11	10.30	46.8	421	5.14	98.0	5.70
2002-04-02-0233		0.38	0.04	6.45	1.8	230	0.59	0.13	3.86	0.12	10.00	47.5	441	11.55	50.8	6.16
2002-04-02-0234		0.52	0.05	6.23	1.1	550	1.35	0.28	2.44	0.16	16.95	34.5	255	9.01	54.2	4.87
2002-04-02-0235		0.40	0.08	5.75	1.4	310	2.22	4.61	2.70	0.16	12.60	32.6	271	11.55	44.3	4.70
2002-04-02-0236		0.36	0.07	5.57	0.9	330	1.32	0.32	2.96	0.14	12.95	32.4	279	13.00	44.0	4.80
2002-04-02-0237		0.50	0.08	6.11	1.6	360	1.77	0.36	2.58	0.17	11.60	34.5	333	20.9	60.0	5.01
2002-04-02-0238		0.26	0.11	5.61	1.1	310	1.49	0.40	2.38	0.27	14.55	29.2	259	16.65	57.5	4.36
2002-04-02-0239		0.48	0.09	6.02	0.8	300	1.18	0.27	3.09	0.19	10.25	34.6	280	11.70	59.4	4.97
2002-04-02-0240		0.30	0.10	5.58	1.2	380	1.52	0.46	2.05	0.16	15.45	38.7	301	14.50	54.0	4.63
2002-04-02-0241		0.56	0.06	6.45	0.8	250	1.26	0.22	3.39	0.15	10.55	37.4	270	8.76	57.2	5.45

Comments: REE's may not be totally soluble in MS61 method.

ALS Chemex

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Aurora Laboratory Services Ltd.

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WEST VANCOUVER BC V7S 1S7

Date : 1-Oct-2002
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Project : Regal Ridge

CERTIFICATE OF ANALYSIS VA02003452

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 0.5	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
2002-04-02-0242		0.32	0.16	5.66	1.2	260	0.96	0.22	3.18	0.26	13.05	36.9	320	11.05	58.4	5.06
2002-04-02-0243		0.38	0.11	5.42	0.4	290	1.01	0.19	3.26	0.11	10.95	34.2	289	6.91	37.4	4.66
2002-04-02-0244		0.42	0.10	5.96	0.8	320	1.68	0.40	2.88	0.14	13.95	31.2	260	7.32	39.0	4.26
2002-04-02-0245		0.38	0.13	5.74	1.1	290	2.31	0.39	2.55	0.17	15.15	27.2	264	9.75	35.9	3.77
2002-04-02-0246		0.46	0.15	5.48	1.6	360	2.63	0.46	2.21	0.10	21.5	26.2	268	14.50	27.6	4.10
2002-04-02-0247		0.28	0.17	6.67	10.3	550	5.49	0.58	0.89	0.09	66.1	7.8	73	15.90	14.2	1.45
2002-04-02-0248		0.48	0.08	6.12	0.4	350	4.38	0.57	1.76	0.06	41.7	21.0	178	13.45	17.6	3.09
2002-04-02-0249		0.44	0.08	6.16	1.6	430	6.26	0.66	0.87	0.06	67.8	9.5	109	17.85	9.9	1.61
2002-04-02-0250		0.40	0.07	6.12	0.9	440	7.01	0.52	0.59	<0.02	52.5	3.9	78	20.00	6.5	1.10
2002-04-02-0251		0.50	0.04	6.18	0.7	430	7.15	0.65	0.49	<0.02	62.9	3.7	77	23.9	6.2	1.04
2002-04-02-0252		0.42	0.06	6.33	0.7	420	9.16	0.91	0.52	<0.02	67.4	4.9	71	25.1	5.2	1.11
2002-04-02-0253		0.48	0.05	6.94	0.9	420	10.85	1.67	0.77	0.11	66.8	7.0	99	43.0	10.1	1.36
2002-04-02-0254		0.46	0.09	6.45	4.4	440	2.46	1.19	1.97	0.19	32.2	41.2	214	12.65	60.4	5.02
2002-04-02-0255		0.58	0.07	6.01	2.8	270	2.06	1.08	1.87	0.16	15.65	60.8	270	9.89	81.4	6.47
2002-04-02-0256		0.44	0.07	6.07	3.1	320	1.96	1.17	1.90	0.15	16.80	60.0	260	10.10	80.5	6.51
2002-04-02-0257		0.38	0.08	6.06	2.4	370	1.45	0.48	2.58	0.13	17.80	40.1	246	11.75	32.2	4.95
2002-04-02-0258		0.36	0.08	5.61	1.9	220	1.58	0.38	2.92	0.14	12.65	37.1	274	12.60	32.5	4.93
2002-04-02-0259		0.30	0.10	5.61	1.5	250	2.28	1.68	2.69	0.15	17.10	30.7	292	16.15	26.9	4.36
2002-04-02-0260		0.50	0.06	6.12	3.4	280	3.38	2.35	2.67	0.12	19.55	37.5	291	14.05	49.3	4.94
2002-04-02-0261		0.44	0.09	6.47	1.0	120.0	7.56	4.14	2.81	0.16	5.44	39.4	294	79.1	133.0	5.12
2002-04-02-0262		0.36	0.05	5.38	0.8	120.0	0.32	0.01	3.16	0.13	3.83	38.6	345	6.77	31.2	4.89
2002-04-02-0263		0.34	0.06	6.03	0.5	150.0	0.36	<0.01	3.18	0.10	7.43	42.8	382	10.15	53.6	5.38
2002-04-02-0264		0.32	0.06	5.92	1.7	270	0.59	0.03	2.39	0.12	15.35	38.9	368	11.15	48.1	5.07
2002-04-02-0265		0.18	0.25	5.16	1.4	390	1.32	0.27	1.45	0.53	21.7	32.6	173	15.05	58.3	3.99
2002-04-02-0266		0.50	0.09	6.24	1.0	260	3.46	0.40	1.84	0.16	16.10	59.0	272	20.1	122.0	6.74
2002-04-02-0267		0.28	0.13	5.80	1.2	410	3.13	0.64	1.30	0.15	28.2	33.2	197	16.55	72.2	3.95
2002-04-02-0268		0.34	0.06	5.52	1.0	310	3.88	1.02	1.16	0.06	24.3	29.8	211	16.05	43.8	4.41
2002-04-02-0269		0.46	0.06	5.94	1.6	540	5.49	0.87	1.69	0.11	31.6	29.8	237	11.30	57.5	4.30
2002-04-02-0270		0.38	0.08	5.61	1.2	360	3.07	0.53	1.88	0.15	21.2	32.6	242	15.75	31.7	4.70
2002-04-02-0271		0.32	0.12	5.35	1.2	330	2.91	0.46	1.91	0.27	27.3	26.5	265	9.71	45.6	3.68
2002-04-02-0272		0.26	0.18	5.76	1.1	420	4.22	0.36	1.43	0.37	41.5	17.0	108	11.30	34.7	2.73
2002-04-02-0273		0.36	0.07	5.95	1.2	370	4.98	0.53	1.22	0.03	42.6	12.4	107	11.25	11.4	2.07
2002-04-02-0274		0.34	0.11	6.50	2.0	470	6.25	0.98	1.10	0.11	51.8	16.6	86	15.55	19.5	2.25
2002-04-02-0275		0.52	0.04	6.31	0.4	410	7.45	0.92	0.74	<0.02	66.0	8.2	78	17.05	7.4	1.55
2002-04-02-0276		0.44	0.05	6.40	0.9	410	6.99	1.03	0.75	0.02	75.8	8.5	65	17.40	6.8	1.55
2002-04-02-0277		0.50	0.09	6.28	1.1	400	7.66	0.84	1.03	0.03	62.6	11.2	116	17.90	10.4	1.73
2002-04-02-0278		0.30	0.10	5.84	0.9	570	5.52	0.27	0.66	0.03	67.5	4.8	65	16.90	7.4	0.98
2002-04-02-0279		0.22	0.58	7.62	3.5	480	12.70	3.16	1.13	<0.02	130.0	16.4	80	115.0	63.5	2.42
2002-04-02-0280		0.42	0.06	6.57	1.5	410	1.97	0.20	2.50	0.18	19.65	43.5	250	22.0	67.6	5.33
2002-04-02-0281		0.44	0.11	5.89	1.4	370	0.99	0.21	2.13	0.10	8.93	42.8	312	7.50	243	6.49

Comments: REE's may not be totally soluble in MS61 method.

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CERTIFICATE OF ANALYSIS VA02003452

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 0.5	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
2002-04-02-0282		0.34	0.09	5.42	0.5	260	1.47	0.26	2.23	0.10	9.34	33.9	292	13.05	114.0	6.46
2002-04-02-0283		0.46	0.08	5.77	0.9	250	0.91	0.16	2.04	0.19	8.73	43.4	301	13.75	159.0	6.88
2002-04-02-0284		0.40	0.16	5.50	0.3	230	1.14	0.14	2.57	0.23	9.06	32.7	261	10.15	64.7	5.47
2002-04-02-0285		0.52	0.06	4.90	0.6	330	1.67	0.11	3.22	0.22	10.55	39.0	567	9.40	22.9	4.63
2002-04-02-0286		0.20	0.21	6.06	1.6	740	1.27	0.04	1.46	0.32	28.0	9.0	41	3.77	33.5	1.78
2002-04-02-0287		0.50	0.06	4.51	0.5	280	2.61	0.26	3.14	0.13	12.90	43.7	677	12.30	17.3	4.82
2002-04-02-0288		0.32	0.12	5.16	0.4	470	1.34	0.10	2.25	0.12	19.75	23.0	344	5.39	17.6	3.07
2002-04-02-0289		0.30	0.16	4.67	1.1	290	2.89	0.43	2.73	0.11	17.70	35.9	497	13.80	20.6	4.45
2002-04-02-0290		0.26	0.18	5.31	1.3	290	2.30	0.55	2.28	0.10	15.05	25.3	230	13.75	49.5	3.92
2002-04-02-0291		0.48	0.07	5.87	1.4	290	3.30	0.66	2.30	0.12	21.9	28.4	244	15.75	59.2	3.91
2002-04-02-0292		0.32	0.15	6.09	0.8	360	6.21	0.75	1.34	0.04	45.4	12.7	156	17.80	13.4	2.11
2002-04-02-0293		0.40	0.26	6.27	1.0	290	4.64	0.57	1.65	0.37	35.0	20.5	197	12.70	37.5	3.76
2002-04-02-0294		0.36	0.45	7.91	2.7	850	5.54	1.76	1.32	0.63	42.8	15.4	81	88.0	134.0	2.76
2002-04-02-0295		0.36	0.07	7.28	1.5	640	1.87	0.11	2.60	0.15	50.5	14.6	85	2.61	17.1	4.09
2002-04-02-0296		0.52	0.09	7.64	<0.2	330	1.27	<0.01	4.65	0.17	31.5	36.6	136	1.56	66.9	5.27
2002-04-02-0297		0.40	0.13	7.35	1.7	1060	2.51	0.25	1.79	0.32	45.0	21.0	133	7.87	32.2	4.56
2002-04-02-0298		0.34	0.20	4.80	1.6	1360	1.27	0.14	0.58	0.53	43.3	5.9	114	2.55	35.6	3.22
2002-04-02-0299		0.40	0.25	7.34	1.3	1440	2.24	0.21	1.60	0.21	46.8	12.8	169	11.55	34.6	3.92
2002-04-02-0300		0.38	0.14	6.73	2.3	1150	2.75	0.20	1.50	0.30	46.5	14.7	108	8.46	23.2	3.22
2002-04-02-0301		0.38	0.11	6.34	3.1	1630	2.09	0.12	0.87	0.25	65.1	10.5	104	5.12	16.9	2.47
2002-04-02-0302		0.34	0.09	6.90	0.8	620	1.14	0.07	2.56	0.14	37.6	18.7	109	1.71	13.7	3.60
2002-04-02-0303		0.42	0.07	6.04	0.3	1120	1.41	0.04	1.02	0.15	32.4	7.9	99	2.08	6.1	2.35
2002-04-02-0304		0.22	0.07	5.77	1.1	1350	1.33	0.07	1.02	0.16	34.5	4.7	100	2.01	11.7	1.60
2002-04-02-0305		0.40	0.18	6.41	1.6	2200	2.31	0.27	1.14	1.30	44.6	14.9	145	6.59	45.7	3.34
2002-04-02-0306		0.26	0.29	7.01	1.0	440	0.88	0.04	3.80	0.31	25.9	26.5	216	5.42	21.4	4.07
2002-04-02-0307		0.30	0.09	6.21	0.8	1240	1.64	0.37	2.53	0.25	18.70	26.8	261	18.70	47.4	4.69
2002-04-02-0308		0.38	0.08	5.81	<0.2	460	0.81	0.17	4.15	0.17	7.16	40.6	479	10.45	37.4	5.21
2002-04-02-0309		0.42	0.06	5.99	<0.2	530	0.42	0.04	4.94	0.15	3.37	47.7	479	7.48	40.0	5.80
2002-04-02-0310		0.48	0.10	5.75	4.5	320	0.93	0.38	4.54	0.17	8.20	50.9	518	18.10	127.0	5.76
2002-04-02-0311		0.50	0.06	5.64	<0.2	840	1.92	0.09	2.19	0.09	3.82	58.7	528	5.99	58.6	7.55
2002-04-02-0312		0.42	0.08	5.92	0.2	280	0.97	0.12	3.77	0.19	7.82	37.6	350	15.60	78.4	5.11
2002-04-02-0313		0.48	0.07	6.73	<0.2	180.0	1.43	0.06	1.64	0.06	1.87	44.2	404	106.5	142.0	6.13
2002-04-02-0314		0.36	0.07	5.25	<0.2	190.0	0.85	0.09	4.14	0.29	7.92	32.7	386	4.00	40.8	5.06
2002-04-02-0315		0.40	0.14	6.37	0.5	280	1.05	0.08	2.55	0.20	15.95	33.4	332	13.90	203	5.11
2002-04-02-0316		0.48	0.08	5.91	1.6	270	0.83	0.06	3.70	0.26	18.85	44.5	527	8.79	157.0	5.29
2002-04-02-0317		0.34	0.07	5.21	<0.2	210	0.35	0.02	3.45	0.17	8.38	35.7	402	3.68	60.7	4.74
2002-04-02-0318		0.36	0.09	6.20	0.5	220	0.42	0.01	3.17	0.13	13.60	38.9	462	7.08	68.3	5.66
2002-04-02-0319		0.58	0.06	5.35	<0.2	290	0.18	<0.01	4.37	0.12	1.24	44.5	486	1.63	56.2	5.43
2002-04-02-0320		0.60	0.05	6.09	<0.2	1020	0.21	0.01	4.14	0.12	4.42	50.1	577	3.35	54.8	5.72
2002-04-02-0321		0.48	0.08	6.06	2.6	460	0.63	0.06	3.12	0.16	24.2	42.0	535	2.19	61.9	5.01

Comments: REE's may not be totally soluble in MS61 method.

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
Aurora Laboratory Services Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: TRUE NORTH GEMS
701 KENWOOD RD.
WEST VANCOUVER BC V7S 1S7

Date : 1-Oct-2002
Account: THR

Project : Regal Ridge

CERTIFICATE OF ANALYSIS VA02003452

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 0.5	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
2002-04-02-0322		0.52	0.07	5.92	<0.2	150.0	0.27	<0.01	3.24	0.12	9.25	37.9	323	1.28	59.9	5.37
2002-04-02-0323		0.42	0.08	6.45	1.2	220	0.47	0.01	3.10	0.10	17.85	38.2	276	1.93	75.7	5.36
2002-04-02-0324		0.38	0.09	6.08	2.2	260	0.49	0.01	2.89	0.17	17.85	34.3	264	1.65	118.0	5.12
2002-04-02-0325		0.50	0.06	5.89	0.5	240	0.47	<0.01	3.01	0.08	13.40	31.5	198	1.04	134.0	4.80
2002-04-02-0326		0.34	0.06	5.72	1.3	280	0.70	0.11	2.34	0.14	19.15	30.5	250	2.23	90.5	4.90
2002-04-02-0327		0.60	0.04	6.97	1.9	380	0.94	0.13	2.69	0.16	28.2	29.8	215	2.02	70.0	4.92
2002-04-02-0328		0.34	0.04	6.78	1.5	370	0.88	0.13	2.98	0.15	21.3	30.9	274	2.03	58.6	5.08
2002-04-02-0329		0.66	0.05	7.34	2.9	660	1.40	0.19	2.15	0.20	42.7	35.1	324	3.39	57.2	5.18
2002-04-02-0330		0.52	0.07	8.40	3.9	690	2.80	0.31	0.74	0.26	61.7	16.0	103	5.36	35.2	4.53
2002-04-02-0331		0.44	0.25	7.70	47.7	740	2.62	0.24	0.08	0.35	74.3	18.0	94	10.95	45.8	4.34
2002-04-02-0332		0.64	0.11	8.67	7.6	800	2.66	0.34	0.28	0.44	70.8	19.1	110	6.63	44.4	4.74
2002-04-02-0333		0.56	0.07	7.83	4.9	710	2.37	0.31	0.34	0.29	62.8	16.5	97	5.67	27.8	4.26
2002-04-02-0334		0.52	0.03	5.06	0.5	450	0.65	0.11	4.07	0.12	14.90	34.6	510	6.91	28.0	4.87
2002-04-02-0335		0.28	0.06	5.96	0.8	460	1.40	0.15	3.06	0.24	23.4	34.5	406	14.25	54.4	4.78
2002-04-02-0336		0.52	<0.02	5.67	1.0	360	2.72	0.12	3.76	0.12	16.70	32.6	389	8.99	42.4	4.99
2002-04-02-0337		0.44	0.03	6.89	1.0	210	0.51	0.15	4.25	0.09	8.88	47.3	433	8.01	85.5	6.40
2002-04-02-0338		0.52	<0.02	6.82	0.7	220	0.52	0.13	3.94	0.09	10.15	47.7	401	8.70	44.9	6.17
2002-04-02-0339		0.62	<0.02	7.18	<0.2	110.0	0.38	0.12	4.61	0.06	3.00	46.5	361	9.28	43.3	6.28
2002-04-02-0340		1.04	<0.02	6.78	<0.2	110.0	0.31	0.11	4.42	0.06	2.64	47.9	385	9.63	41.1	6.38
2002-04-02-0341		0.44	<0.02	7.83	0.2	150.0	0.31	0.10	3.65	0.06	2.88	64.7	465	12.95	110.0	7.75
2002-04-02-0342		0.50	0.02	7.26	12.5	120.0	1.18	0.17	1.61	0.08	6.73	65.4	493	8.11	31.1	8.19
2002-04-02-0343		0.48	<0.02	6.59	0.2	90.4	0.43	0.09	3.23	0.04	2.16	66.3	436	8.72	34.5	7.90
2002-04-02-0344		0.58	0.02	6.73	<0.2	120.0	0.30	0.08	2.28	0.07	3.39	75.1	460	9.22	52.6	9.41
2002-04-02-0345		0.40	0.03	6.65	<0.2	240	1.31	0.19	3.44	0.11	4.93	52.4	424	22.2	97.0	6.93
2002-04-02-0346		0.26	0.07	7.82	0.9	260	1.23	0.21	2.93	0.09	10.70	57.4	634	28.5	175.0	8.45
2002-04-02-0347		0.42	0.03	6.74	0.5	400	2.19	0.26	3.47	0.11	10.15	43.7	382	28.9	128.0	6.34
2002-04-02-0348		0.54	0.03	6.99	1.0	310	2.05	0.20	4.04	0.13	3.89	52.0	520	21.5	158.0	6.66
2002-04-02-0349		0.34	0.06	7.12	1.2	220	1.82	0.15	3.57	0.10	5.85	49.4	541	13.10	294	6.56
2002-04-02-0350		0.10	0.07	7.44	1.3	270	1.76	0.13	3.22	0.21	10.65	40.9	456	17.80	272	5.65
2002-04-02-0351		0.08	0.05	7.29	1.0	270	1.58	0.12	3.13	0.17	10.00	37.6	410	16.50	265	5.43
2002-04-02-0352		0.48	0.02	6.84	0.5	190.0	0.60	0.09	3.48	0.07	5.73	39.2	316	6.73	278	6.15
2002-04-02-0353		0.38	<0.02	7.38	0.6	260	0.62	0.15	5.03	0.17	6.33	43.6	413	5.84	44.9	6.38
2002-04-02-0354		0.30	0.03	5.84	2.0	400	1.73	0.16	3.39	0.18	19.35	35.0	454	11.60	52.8	5.12
2002-04-02-0355		0.54	0.03	5.66	0.5	320	1.46	0.16	4.07	0.14	13.65	35.2	421	11.80	46.9	5.37
2002-04-02-0356		0.50	0.02	4.96	0.3	460	1.14	0.14	3.91	0.10	15.40	37.3	548	16.10	14.0	4.80
2002-04-02-0357		0.56	0.04	5.58	0.7	580	1.41	0.14	3.13	0.08	17.30	29.6	483	12.05	14.3	4.08
2002-04-02-0358		0.34	0.03	5.55	0.6	620	2.72	0.17	3.08	0.11	17.55	34.2	570	16.70	14.9	4.58
2002-04-02-0359		0.40	0.06	4.73	1.1	540	1.98	0.23	2.90	0.44	16.40	33.9	512	18.75	26.6	4.13
2002-04-02-0360		0.44	0.02	5.36	1.1	550	2.99	0.17	3.20	0.12	15.20	39.6	632	17.15	16.7	4.72
2002-04-02-0361		0.58	0.04	5.24	0.6	360	2.09	0.15	3.58	0.15	11.10	38.3	512	12.50	24.0	4.74

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ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
Aurora Laboratory Services Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: TRUE NORTH GEMS
701 KENWOOD RD.
WEST VANCOUVER BC V7S 1S7

Date : 1-Oct-2002
Account: THR

Project : Regal Ridge

CERTIFICATE OF ANALYSIS VA02003452

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 0.5	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
2002-04-02-0362		0.34	0.04	4.74	1.1	350	1.21	0.21	3.97	0.11	16.00	34.8	622	16.65	12.9	4.96
2002-04-02-0363		0.40	0.04	3.50	0.4	330	1.35	0.18	2.76	0.11	15.35	31.9	826	12.15	9.5	3.96
2002-04-02-0364		0.32	0.08	4.95	0.9	360	1.82	0.19	3.96	0.15	10.65	38.1	681	24.0	12.4	4.91
2002-04-02-0365		0.36	0.03	5.37	1.8	490	0.96	0.19	2.71	0.39	19.70	26.9	327	12.35	30.4	3.37
2002-04-02-0366		0.44	0.03	4.81	0.7	250	1.20	0.21	4.11	0.14	8.39	42.2	935	9.13	15.9	5.62
2002-04-02-0367		0.26	<0.02	6.04	1.8	560	1.00	0.16	2.35	0.35	24.5	19.2	270	5.58	22.1	2.73
2002-04-02-0368		0.32	<0.02	6.10	1.6	560	1.11	0.15	2.86	0.14	22.5	23.4	277	11.20	17.2	3.34
2002-04-02-0369		0.56	0.05	4.79	0.5	280	2.31	0.17	4.08	0.15	9.66	42.8	698	13.05	17.5	5.16
2002-04-02-0370		0.30	0.03	4.69	0.8	360	1.45	0.19	3.94	0.17	9.81	43.8	656	14.25	16.0	5.10
2002-04-02-0371		0.40	<0.02	6.23	2.3	620	1.10	0.17	2.00	0.12	27.3	15.5	223	5.86	20.2	2.64
2002-04-02-0372		0.34	<0.02	4.86	0.7	250	1.19	0.15	4.19	0.09	8.18	43.3	780	9.38	19.3	5.29
2002-04-02-0373		0.60	0.03	4.92	0.5	310	1.61	0.17	3.93	0.16	9.52	40.2	674	14.10	19.7	4.98
2002-04-02-0374		0.40	<0.02	5.64	3.2	490	1.73	0.20	2.62	0.20	21.8	32.5	434	13.15	30.9	4.09
2002-04-02-0375		0.48	<0.02	5.07	0.7	300	1.75	0.19	3.79	0.11	9.92	41.1	658	9.68	24.8	5.09
2002-04-02-0376		0.52	<0.02	4.46	1.0	250	2.42	0.39	3.65	0.10	17.50	41.5	744	7.66	15.2	5.02
2002-04-02-0377		0.32	<0.02	6.27	1.5	690	1.06	0.14	2.00	0.09	27.7	20.9	278	4.94	20.3	2.82
2002-04-02-0378		0.42	0.04	4.06	1.2	280	1.09	0.18	3.57	0.11	15.65	43.2	1190	9.89	14.3	6.32
2002-04-03-0001		0.16	<0.02	7.36	8.8	400	10.30	1.85	1.11	0.23	51.3	20.2	270	57.7	44.9	3.04

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CERTIFICATE OF ANALYSIS VA02003452

Sample Description	Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
2002-04-02-0202		14.35	0.23	0.8	0.037	0.80	10.9	89.6	3.72	848	0.57	1.69	4.8	89.7	290	7.8
2002-04-02-0203		12.75	0.20	0.6	0.037	0.43	5.9	22.6	4.01	851	1.10	1.77	2.5	87.1	570	4.3
2002-04-02-0204		15.70	0.25	0.9	0.040	0.91	14.5	70.4	3.48	900	1.81	1.63	5.9	82.4	470	11.2
2002-04-02-0205		15.30	0.23	0.9	0.037	0.92	14.3	70.4	3.45	893	0.70	1.60	6.0	82.7	460	11.3
2002-04-02-0206		13.50	0.23	0.4	0.046	0.42	5.6	49.4	6.02	1015	0.75	1.04	2.7	152.0	180	4.5
2002-04-02-0207		14.40	0.23	1.1	0.033	0.93	14.0	51.8	3.42	672	1.42	1.36	5.4	77.7	510	7.5
2002-04-02-0208		14.00	0.21	0.8	0.039	0.73	12.6	59.4	4.14	748	1.39	1.05	5.5	87.2	300	7.2
2002-04-02-0209		14.40	0.24	0.9	0.040	0.81	15.9	52.3	3.97	730	6.90	1.22	5.9	110.0	350	8.1
2002-04-02-0210		13.40	0.24	0.5	0.039	0.53	7.9	70.9	4.89	869	2.93	1.25	3.5	111.0	190	5.8
2002-04-02-0211		13.35	0.20	0.7	0.040	0.66	9.7	49.0	4.28	1055	1.00	1.04	4.6	94.1	780	8.5
2002-04-02-0212		12.90	0.23	0.6	0.038	0.53	7.3	60.5	4.42	902	0.47	1.33	3.1	93.3	340	5.5
2002-04-02-0213		12.70	0.22	0.6	0.033	0.56	8.6	57.6	3.96	818	0.67	1.18	4.0	82.7	590	6.5
2002-04-02-0214		13.90	0.22	0.6	0.036	0.69	6.5	78.5	4.25	805	1.14	1.56	2.4	86.4	280	7.2
2002-04-02-0215		15.85	0.20	0.7	0.039	0.74	9.1	70.9	3.90	853	1.23	1.06	4.9	94.4	350	6.2
2002-04-02-0216		16.05	0.21	1.0	0.036	1.10	10.2	90.1	3.39	672	1.16	1.40	3.9	81.2	370	14.8
2002-04-02-0217		17.30	0.22	1.0	0.035	1.30	9.5	80.9	3.18	773	0.63	1.31	4.3	76.8	670	17.2
2002-04-02-0218		16.20	0.21	1.4	0.031	1.61	11.8	90.0	2.47	601	0.98	1.23	4.8	64.4	480	19.7
2002-04-02-0219		15.65	0.24	1.2	0.035	1.24	12.3	80.8	3.33	638	0.79	1.13	4.5	90.6	330	14.2
2002-04-02-0220		20.4	0.22	2.2	0.031	2.33	20.0	110.0	1.60	385	1.48	1.46	5.5	58.0	530	30.0
2002-04-02-0221		14.80	0.23	1.2	0.036	1.27	14.2	70.9	3.76	868	0.79	1.27	3.6	113.0	370	17.2
2002-04-02-0222		20.4	0.25	2.4	0.030	2.15	23.5	90.1	1.73	563	1.91	1.34	5.3	61.5	580	28.4
2002-04-02-0223		12.80	0.24	1.1	0.035	1.20	13.0	89.8	3.62	768	0.72	1.39	6.8	80.8	290	8.3
2002-04-02-0224		12.70	0.24	1.2	0.035	1.13	15.6	78.4	3.09	706	1.10	1.46	7.9	71.6	420	8.6
2002-04-02-0225		13.10	0.24	1.2	0.034	1.21	15.7	80.5	2.76	1010	1.07	1.32	7.6	69.0	670	9.9
2002-04-02-0226		10.85	0.23	0.5	0.038	0.38	5.9	50.1	5.50	1225	0.75	1.37	2.3	148.0	360	3.9
2002-04-02-0227		14.35	0.23	1.7	0.036	1.65	23.5	180.0	1.86	824	1.25	1.58	10.1	59.8	570	13.2
2002-04-02-0228		13.90	0.25	1.5	0.036	1.57	20.0	150.0	2.41	970	1.11	1.58	9.1	68.2	630	11.1
2002-04-02-0229		11.25	0.25	0.4	0.037	0.28	4.7	52.0	5.98	1160	0.40	1.28	2.1	173.0	160	3.0
2002-04-02-0230		10.30	0.23	0.2	0.040	0.09	0.6	39.1	7.41	1155	0.85	1.09	0.6	204	60	1.1
2002-04-02-0231		11.55	0.21	0.2	0.038	0.16	1.5	26.9	7.00	1190	0.21	1.24	1.0	192.0	240	1.9
2002-04-02-0232		10.45	0.22	0.4	0.041	0.31	5.3	45.5	6.22	1090	0.57	1.31	2.3	187.0	110	2.9
2002-04-02-0233		12.05	0.26	0.4	0.045	0.35	5.0	41.3	6.97	1300	0.27	1.06	2.4	184.0	180	3.6
2002-04-02-0234		12.20	0.21	0.8	0.035	0.93	8.8	80.5	4.09	832	1.43	1.24	5.0	93.3	300	6.5
2002-04-02-0235		12.30	0.22	0.7	0.034	0.70	7.0	58.9	4.07	943	4.28	1.12	3.4	98.6	680	7.2
2002-04-02-0236		11.55	0.22	0.6	0.034	0.56	7.1	60.7	4.08	1000	0.92	1.07	3.5	96.0	560	4.8
2002-04-02-0237		11.85	0.19	0.6	0.039	0.72	6.1	90.1	4.44	806	0.58	0.98	3.5	123.0	290	5.0
2002-04-02-0238		11.15	0.20	0.6	0.036	0.60	7.7	59.6	3.61	839	0.93	0.94	3.6	86.2	860	7.0
2002-04-02-0239		11.00	0.22	0.5	0.037	0.54	5.4	68.7	4.65	907	0.46	1.23	2.8	108.0	400	4.6
2002-04-02-0240		11.50	0.22	0.8	0.034	0.73	8.7	68.9	3.68	1425	1.38	0.89	4.0	103.0	710	6.5
2002-04-02-0241		11.65	0.22	0.5	0.042	0.44	5.7	68.2	4.97	937	0.45	1.31	2.9	102.0	320	4.1

Comments: REE's may not be totally soluble in MS61 method.

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
Aurora Laboratory Services Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: TRUE NORTH GEMS
701 KENWOOD RD.
WEST VANCOUVER BC V7S 1S7

Date : 1-Oct-2002
Account: THR

Project : Regal Ridge

CERTIFICATE OF ANALYSIS VA02003452

Sample Description	Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
2002-04-02-0242		11.75	0.22	0.6	0.039	0.50	7.0	50.2	4.60	1085	0.71	1.08	3.7	110.0	530	5.5
2002-04-02-0243		11.20	0.21	0.6	0.034	0.54	6.1	56.9	4.58	1130	0.59	1.13	3.0	124.0	510	5.2
2002-04-02-0244		12.75	0.21	1.0	0.032	0.88	7.2	59.1	3.79	983	1.73	1.42	3.2	97.9	490	7.5
2002-04-02-0245		13.20	0.20	1.0	0.030	1.04	7.8	61.1	3.33	796	3.00	1.33	3.5	94.2	520	10.4
2002-04-02-0246		13.85	0.20	1.1	0.032	1.08	11.3	60.4	3.70	634	0.69	0.95	5.3	114.0	350	12.2
2002-04-02-0247		21.3	0.21	3.2	0.023	2.66	25.0	89.5	0.56	575	1.51	1.95	4.6	15.1	490	29.8
2002-04-02-0248		18.00	0.22	1.8	0.032	1.90	17.0	89.7	2.55	531	0.52	1.44	3.3	73.2	310	16.8
2002-04-02-0249		21.0	0.20	2.7	0.024	2.73	25.0	110.0	1.03	585	1.29	1.50	4.3	36.4	470	33.9
2002-04-02-0250		22.8	0.23	2.9	0.021	2.85	22.0	110.0	0.40	205	1.08	1.64	5.3	11.4	210	34.8
2002-04-02-0251		23.0	0.22	2.8	0.024	3.04	23.5	120.0	0.40	211	1.55	1.56	5.3	14.4	170	40.4
2002-04-02-0252		24.4	0.22	3.0	0.028	3.09	24.5	130.0	0.54	464	1.22	1.60	5.7	22.0	610	37.4
2002-04-02-0253		25.0	0.24	2.8	0.030	2.83	23.3	170.0	0.64	637	5.53	1.86	7.3	34.2	540	39.2
2002-04-02-0254		13.50	0.28	1.2	0.040	0.92	18.3	69.7	3.55	683	0.93	1.13	7.3	98.3	370	16.9
2002-04-02-0255		13.90	0.26	0.7	0.038	0.57	8.7	58.3	3.79	659	2.84	0.95	4.0	100.0	390	6.5
2002-04-02-0256		14.20	0.25	0.8	0.035	0.58	9.2	58.3	3.83	664	2.33	0.99	4.2	95.9	420	6.7
2002-04-02-0257		13.60	0.25	1.1	0.039	0.75	9.9	51.1	3.89	955	1.26	1.28	4.6	91.5	690	6.4
2002-04-02-0258		11.20	0.22	0.5	0.036	0.45	6.8	50.2	4.49	1135	0.55	1.08	3.1	106.0	690	4.9
2002-04-02-0259		13.25	0.22	0.8	0.034	0.58	9.4	41.5	3.94	749	1.87	1.09	4.7	91.4	540	5.4
2002-04-02-0260		12.25	0.23	0.7	0.036	0.57	10.4	60.6	4.56	817	1.21	1.22	4.4	117.0	230	6.2
2002-04-02-0261		12.95	0.23	0.3	0.046	0.78	2.7	130.0	4.67	995	0.50	1.09	1.8	138.0	180	4.8
2002-04-02-0262		9.54	0.23	0.3	0.031	0.20	2.0	41.9	5.32	939	0.29	1.28	1.0	144.0	240	2.7
2002-04-02-0263		10.45	0.20	0.4	0.034	0.23	3.8	47.3	5.89	1035	0.51	1.29	1.6	167.0	180	2.4
2002-04-02-0264		11.10	0.23	0.6	0.037	0.44	8.0	38.9	5.23	911	0.60	1.09	3.3	162.0	300	4.4
2002-04-02-0265		11.55	0.22	1.1	0.031	0.68	12.1	39.7	2.58	1090	1.69	0.85	4.6	78.0	1360	6.9
2002-04-02-0266		14.30	0.27	0.7	0.035	0.69	8.7	89.8	4.28	753	2.33	0.81	3.3	124.0	240	6.4
2002-04-02-0267		15.85	0.21	1.8	0.029	1.28	15.1	70.3	2.03	864	2.15	1.26	4.5	57.4	760	13.6
2002-04-02-0268		17.75	0.23	1.6	0.032	1.46	12.6	100.0	2.42	523	1.83	0.83	5.3	59.8	550	15.7
2002-04-02-0269		15.55	0.23	1.4	0.036	1.29	15.3	100.0	2.90	583	3.32	1.09	4.8	87.1	370	15.4
2002-04-02-0270		17.30	0.23	1.3	0.036	1.33	11.6	79.4	2.91	894	2.25	1.00	5.5	77.0	420	17.1
2002-04-02-0271		13.40	0.23	1.3	0.030	1.03	16.0	51.2	2.93	584	1.68	1.01	4.0	88.9	760	13.2
2002-04-02-0272		16.40	0.25	2.0	0.027	1.59	19.0	60.9	1.70	398	0.84	1.23	4.2	50.4	720	20.0
2002-04-02-0273		18.65	0.24	2.0	0.026	2.28	18.8	89.4	1.36	304	0.55	1.58	3.5	39.9	340	27.0
2002-04-02-0274		20.3	0.27	2.4	0.029	2.27	21.4	110.0	1.33	552	0.47	1.56	4.3	41.7	540	34.0
2002-04-02-0275		22.4	0.27	2.9	0.023	2.84	22.6	110.0	0.88	297	0.61	1.67	3.8	30.3	270	34.3
2002-04-02-0276		22.5	0.26	2.9	0.025	2.87	28.6	110.0	0.90	299	0.36	1.68	3.9	28.5	260	34.9
2002-04-02-0277		20.7	0.26	2.6	0.026	2.58	22.6	110.0	1.45	349	0.51	1.76	4.0	55.8	430	33.8
2002-04-02-0278		21.0	0.25	2.9	0.020	2.64	28.6	90.0	0.55	163	0.87	1.43	4.8	17.8	370	27.9
2002-04-02-0279		25.3	0.73	3.4	<0.005	1.83	132.5	230	0.89	1785	6.33	0.97	5.7	51.3	1330	45.5
2002-04-02-0280		12.95	0.32	0.8	0.038	0.73	10.9	68.1	4.14	961	2.76	1.22	4.7	109.0	460	5.5
2002-04-02-0281		12.30	0.29	0.5	0.058	0.42	4.9	46.9	4.44	1440	1.63	0.75	2.3	104.0	300	3.3

Comments: REE's may not be totally soluble in MS61 method.

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
Aurora Laboratory Services Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: TRUE NORTH GEMS
701 KENWOOD RD.
WEST VANCOUVER BC V7S 1S7

Date : 1-Oct-2002
Account: THR

Project : Regal Ridge

CERTIFICATE OF ANALYSIS VA02003452

Sample Description	Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
2002-04-02-0282		13.30	0.25	0.5	0.050	0.44	5.6	46.9	4.22	1140	0.96	0.84	3.1	90.6	250	3.2
2002-04-02-0283		12.20	0.28	0.4	0.058	0.37	4.9	36.2	4.49	1460	0.89	0.71	2.5	101.0	270	3.2
2002-04-02-0284		12.30	0.25	0.5	0.047	0.40	5.1	35.9	4.44	1125	0.43	0.92	2.5	87.1	530	3.5
2002-04-02-0285		10.25	0.23	0.7	0.028	0.66	5.9	37.0	6.20	913	0.65	0.86	3.3	234	270	3.7
2002-04-02-0286		15.10	0.18	2.8	0.019	1.48	16.1	16.2	0.77	762	1.25	1.96	4.6	20.1	600	8.2
2002-04-02-0287		10.90	0.24	0.7	0.034	0.77	7.1	35.2	6.77	879	0.46	0.76	3.4	247	180	6.7
2002-04-02-0288		12.65	0.21	1.9	0.021	1.22	11.1	18.9	4.60	629	0.93	1.58	3.5	151.0	370	7.0
2002-04-02-0289		12.70	0.23	0.9	0.029	0.89	9.7	45.5	5.61	765	0.60	0.88	3.7	191.0	290	10.3
2002-04-02-0290		11.80	0.23	0.9	0.030	0.82	8.3	61.4	3.25	678	0.64	1.25	3.4	78.2	320	7.4
2002-04-02-0291		13.65	0.22	1.2	0.036	1.17	11.2	80.0	3.55	684	0.52	1.38	2.9	97.7	230	12.0
2002-04-02-0292		20.00	0.23	2.4	0.028	2.27	20.0	100.0	1.66	334	0.48	1.58	3.6	56.5	330	26.3
2002-04-02-0293		18.15	0.24	1.7	0.035	1.53	17.2	100.0	3.21	729	0.85	1.69	2.6	68.1	470	17.6
2002-04-02-0294		23.7	0.31	2.7	0.034	1.51	41.6	210	1.06	906	5.14	1.18	4.9	64.7	1130	19.8
2002-04-02-0295		17.60	0.28	0.7	0.060	0.83	21.8	18.5	1.37	714	0.41	2.35	7.5	20.7	430	12.4
2002-04-02-0296		16.25	0.29	0.3	0.060	0.52	15.0	21.1	3.83	984	0.40	2.56	6.3	89.7	1040	5.7
2002-04-02-0297		18.30	0.28	0.8	0.056	1.24	18.0	58.8	2.49	648	1.72	1.34	8.8	48.0	570	26.9
2002-04-02-0298		14.35	0.25	1.4	0.047	1.42	19.4	17.5	1.33	502	12.90	0.59	6.9	33.7	630	18.2
2002-04-02-0299		19.20	0.31	0.9	0.052	1.43	18.9	59.1	1.62	420	1.28	1.40	13.8	33.1	490	19.6
2002-04-02-0300		16.50	0.27	1.0	0.046	1.54	19.0	46.3	1.61	515	1.32	1.45	8.9	38.6	420	18.8
2002-04-02-0301		15.80	0.27	1.1	0.044	2.01	23.0	31.0	1.20	356	0.93	1.16	9.6	27.4	320	20.5
2002-04-02-0302		17.05	0.30	1.0	0.043	0.93	19.6	14.3	2.45	754	0.55	1.97	4.2	40.6	480	12.6
2002-04-02-0303		15.20	0.26	0.5	0.037	1.44	16.7	16.9	1.13	367	0.41	1.30	6.6	9.1	280	10.9
2002-04-02-0304		15.85	0.21	1.5	0.032	1.99	18.8	12.3	0.48	282	1.72	1.18	8.5	8.2	400	11.5
2002-04-02-0305		15.85	0.29	1.4	0.048	1.34	10.0	37.3	1.65	535	9.75	0.99	10.9	71.9	1150	15.9
2002-04-02-0306		14.70	0.28	0.7	0.041	0.60	13.8	19.8	3.16	858	1.46	1.74	6.1	73.4	510	9.7
2002-04-02-0307		13.00	0.26	0.6	0.043	0.99	10.2	66.9	3.41	1120	2.02	1.42	4.2	98.3	290	7.3
2002-04-02-0308		10.75	0.26	0.3	0.049	0.42	4.0	47.7	5.16	1025	1.72	1.69	2.3	205	80	4.5
2002-04-02-0309		11.05	0.24	0.3	0.040	0.40	1.7	39.8	6.43	1135	0.26	1.20	1.2	232	100	2.1
2002-04-02-0310		10.70	0.26	0.4	0.037	0.37	4.2	66.6	5.91	1140	0.51	1.14	2.3	251	160	4.0
2002-04-02-0311		10.30	0.27	0.2	0.045	0.13	1.9	57.5	7.16	1140	0.55	0.50	1.3	239	80	3.5
2002-04-02-0312		10.55	0.22	0.3	0.044	0.30	4.1	65.7	5.73	1105	0.20	1.61	1.9	154.0	140	4.5
2002-04-02-0313		11.55	0.24	0.2	0.051	0.40	1.0	69.8	2.80	1570	0.25	0.84	0.6	194.0	80	3.7
2002-04-02-0314		10.60	0.20	0.4	0.043	0.34	4.2	20.2	5.48	1045	0.28	1.61	1.8	135.0	200	3.0
2002-04-02-0315		12.55	0.24	0.6	0.046	0.52	8.7	40.4	4.67	762	1.12	0.87	3.6	142.0	410	8.2
2002-04-02-0316		11.35	0.25	0.6	0.047	0.51	10.1	35.9	5.32	953	3.33	0.95	4.0	200.0	280	9.5
2002-04-02-0317		9.59	0.21	0.4	0.038	0.41	4.5	16.4	5.33	1035	0.38	1.43	2.1	172.0	290	3.4
2002-04-02-0318		13.00	0.27	0.5	0.045	0.41	7.0	23.5	4.86	1165	0.59	1.25	2.9	171.0	180	3.9
2002-04-02-0319		8.91	0.23	0.1	0.036	0.17	0.6	18.5	7.03	1120	0.19	1.55	0.5	237	60	2.1
2002-04-02-0320		10.30	0.23	0.3	0.036	0.53	2.3	30.3	7.07	1245	0.07	1.23	1.4	281	80	3.1
2002-04-02-0321		11.75	0.22	0.8	0.041	0.65	13.2	26.4	5.97	921	0.97	1.00	5.1	260	160	6.6

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CERTIFICATE OF ANALYSIS VA02003452

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
2002-04-02-0322		10.85	0.24	0.4	0.045	0.29	4.9	18.1	5.62	955	0.45	1.35	2.2	145.0	250	3.2
2002-04-02-0323		12.30	0.22	0.6	0.041	0.40	9.4	19.8	4.83	995	0.32	1.56	3.6	126.0	170	4.4
2002-04-02-0324		11.55	0.22	0.6	0.041	0.48	9.4	16.2	4.41	1195	0.62	1.15	3.8	116.0	330	4.4
2002-04-02-0325		11.90	0.24	0.8	0.044	0.54	7.1	13.5	3.87	985	1.02	1.07	2.7	102.0	260	3.6
2002-04-02-0326		13.80	0.22	0.6	0.045	0.57	9.2	19.9	3.63	792	1.26	0.79	4.0	113.0	570	5.8
2002-04-02-0327		15.10	0.23	0.9	0.050	0.81	11.8	23.5	3.41	925	1.29	1.31	6.2	100.0	400	9.1
2002-04-02-0328		14.65	0.20	1.0	0.050	0.76	9.6	23.2	3.97	937	1.28	1.37	5.1	119.0	360	7.7
2002-04-02-0329		17.55	0.25	1.4	0.054	1.08	16.2	33.5	4.30	807	1.42	0.92	8.3	180.0	610	12.6
2002-04-02-0330		27.1	0.22	2.4	0.080	1.79	27.0	41.2	1.13	534	2.07	1.04	16.1	37.9	710	21.3
2002-04-02-0331		20.5	0.25	2.3	0.071	1.33	42.8	60.6	0.18	867	6.28	0.34	11.8	55.8	510	17.7
2002-04-02-0332		28.5	0.27	2.4	0.076	1.81	27.3	50.6	1.12	655	4.62	0.98	13.6	48.6	710	21.8
2002-04-02-0333		28.6	0.25	2.6	0.075	1.73	18.2	43.0	1.08	793	2.23	0.80	15.8	34.2	780	19.0
2002-04-02-0334		10.35	0.21	0.7	0.029	0.66	8.9	24.0	6.30	929	1.04	0.76	3.4	197.0	380	3.1
2002-04-02-0335		12.85	0.22	1.0	0.033	0.84	14.5	38.4	5.11	783	0.55	0.96	5.3	182.0	350	5.2
2002-04-02-0336		10.95	0.20	0.7	0.035	0.72	9.7	29.8	5.64	867	0.52	1.06	3.8	178.0	240	4.1
2002-04-02-0337		12.20	0.21	0.4	0.042	0.35	4.8	51.1	6.96	1285	0.35	1.66	2.2	192.0	150	2.9
2002-04-02-0338		11.85	0.20	0.4	0.033	0.35	5.6	51.2	6.91	1245	0.29	1.30	2.2	177.0	160	3.0
2002-04-02-0339		11.15	0.20	0.2	0.036	0.21	1.5	41.6	6.95	1285	<0.05	1.51	0.7	159.0	120	1.6
2002-04-02-0340		11.10	0.22	0.2	0.034	0.17	1.3	42.8	6.96	1250	0.15	1.40	0.6	166.0	90	1.3
2002-04-02-0341		14.85	0.23	0.2	0.036	0.27	1.4	38.9	7.46	1150	0.27	1.33	0.7	220	180	1.2
2002-04-02-0342		13.30	0.23	0.4	0.038	0.30	3.6	120.0	6.41	1150	0.66	0.45	1.4	217	180	3.0
2002-04-02-0343		12.70	0.25	0.2	0.037	0.14	1.0	51.7	7.23	1065	0.19	0.81	0.7	193.0	80	1.0
2002-04-02-0344		12.85	0.26	0.2	0.045	0.16	1.8	79.5	7.46	1125	0.88	0.35	1.0	194.0	120	1.2
2002-04-02-0345		12.20	0.23	0.3	0.042	0.36	2.6	80.0	6.93	1275	0.72	1.01	1.3	172.0	180	2.4
2002-04-02-0346		14.40	0.27	0.4	0.049	0.35	8.8	88.5	8.42	1325	1.02	0.66	2.2	232	270	5.0
2002-04-02-0347		12.45	0.22	0.6	0.045	0.75	5.2	78.5	6.19	1240	0.87	1.29	2.9	162.0	190	3.8
2002-04-02-0348		12.55	0.23	0.2	0.039	0.39	2.3	89.2	7.83	1230	0.43	1.06	1.2	250	120	2.7
2002-04-02-0349		12.90	0.23	0.4	0.043	0.35	3.3	69.3	7.38	1310	0.35	0.81	2.1	239	220	2.6
2002-04-02-0350		13.30	0.21	0.7	0.036	0.49	6.4	58.3	5.91	1015	0.56	0.95	2.6	204	450	3.7
2002-04-02-0351		12.15	0.20	0.6	0.033	0.49	6.0	55.6	5.68	966	0.38	0.94	2.4	193.0	450	3.4
2002-04-02-0352		11.95	0.23	0.3	0.043	0.32	3.0	27.3	6.00	1045	0.96	0.75	1.2	145.0	130	1.9
2002-04-02-0353		11.65	0.21	0.3	0.043	0.37	3.1	39.5	6.85	1180	0.16	1.07	1.6	206	180	2.4
2002-04-02-0354		10.75	0.19	0.7	0.036	0.66	11.1	44.2	5.86	875	0.97	0.92	4.1	188.0	260	5.6
2002-04-02-0355		10.30	0.16	0.6	0.038	0.64	8.0	37.8	6.28	1160	0.48	0.97	3.1	195.0	350	3.6
2002-04-02-0356		11.40	0.19	0.9	0.028	0.85	9.1	28.9	6.62	1115	0.51	0.82	4.7	229	140	4.1
2002-04-02-0357		11.80	0.17	1.5	0.024	1.19	9.9	30.1	5.76	772	0.54	1.45	4.6	231	420	5.5
2002-04-02-0358		10.75	0.18	1.1	0.026	1.11	9.4	40.5	6.41	727	0.42	1.17	5.5	264	330	5.7
2002-04-02-0359		10.40	0.18	1.0	0.028	0.92	9.2	27.1	5.53	1635	0.65	1.06	4.6	201	600	6.4
2002-04-02-0360		9.91	0.17	0.9	0.025	0.96	8.2	40.9	7.46	926	0.36	1.12	4.3	334	300	5.1
2002-04-02-0361		11.00	0.19	0.8	0.030	0.71	6.3	34.0	6.53	1050	0.42	1.07	3.0	245	230	4.1

Comments: REE's may not be totally soluble in MS61 method.

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EXCELLENCE IN ANALYTICAL CHEMISTRY
Aurora Laboratory Services Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: TRUE NORTH GEMS
701 KENWOOD RD.
WEST VANCOUVER BC V7S 1S7

Date : 1-Oct-2002
Account: THR

Project : Regal Ridge

CERTIFICATE OF ANALYSIS VA02003452

Sample Description	Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
2002-04-02-0362		11.20	0.18	0.8	0.029	0.73	9.4	25.5	7.07	1035	0.55	0.75	5.2	245	160	4.9
2002-04-02-0363		9.00	0.15	0.8	0.022	0.60	8.6	18.7	6.35	964	1.05	0.76	2.9	290	320	3.4
2002-04-02-0364		11.25	0.21	0.6	0.026	0.73	5.5	30.1	7.52	876	0.40	1.03	3.8	277	150	3.6
2002-04-02-0365		13.75	0.19	1.8	0.017	1.08	10.5	20.3	3.99	883	1.57	1.57	3.7	160.0	670	7.0
2002-04-02-0366		10.15	0.17	0.5	0.023	0.51	4.7	34.5	8.56	903	0.86	0.80	2.3	352	130	2.6
2002-04-02-0367		15.45	0.20	2.2	0.010	1.39	13.3	18.3	2.60	593	1.63	2.07	4.3	119.0	600	8.7
2002-04-02-0368		16.60	0.21	2.2	0.016	1.38	12.2	24.3	3.53	612	1.51	2.02	5.0	137.0	240	7.1
2002-04-02-0369		9.88	0.21	0.5	0.021	0.52	4.9	35.9	7.76	893	0.48	0.93	2.6	314	180	2.8
2002-04-02-0370		11.20	0.20	0.5	0.025	0.58	5.1	38.2	7.36	1255	1.00	0.88	3.2	294	200	3.4
2002-04-02-0371		16.30	0.18	2.5	0.010	1.50	14.5	19.1	2.32	531	1.77	2.09	5.1	89.7	400	7.7
2002-04-02-0372		9.63	0.20	0.4	0.022	0.50	4.0	34.3	7.97	915	0.39	0.89	2.4	329	180	2.6
2002-04-02-0373		9.79	0.17	0.5	0.022	0.56	4.8	31.6	7.73	881	0.43	0.96	2.7	295	170	2.7
2002-04-02-0374		13.60	0.17	1.4	0.019	1.01	11.6	26.8	5.46	681	0.88	1.42	4.7	250	380	6.2
2002-04-02-0375		9.66	0.18	0.4	0.023	0.54	4.7	31.0	7.36	962	0.40	0.98	2.7	296	290	3.2
2002-04-02-0376		11.10	0.19	0.7	0.018	0.80	8.7	38.2	8.27	811	0.36	0.92	2.8	307	140	7.9
2002-04-02-0377		15.85	0.19	2.5	0.008	1.68	14.8	16.9	2.70	683	1.31	2.38	4.8	133.0	650	8.2
2002-04-02-0378		10.30	0.20	0.8	0.017	0.59	8.3	19.1	8.80	1005	0.56	0.79	4.1	366	290	4.8
2002-04-03-0001		26.1	0.23	2.7	0.030	2.58	25.8	170.0	1.51	798	1.09	1.66	5.2	76.4	480	42.0

Comments: REE's may not be totally soluble in MS61 method.

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
Aurora Laboratory Services Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: TRUE NORTH GEMS
701 KENWOOD RD.
WEST VANCOUVER BC V7S 1S7

Date : 1-Oct-2002
Account: THR

CERTIFICATE VA02003379

Project : Regal Ridge

P.O. No:

This report is for 87 ROCK samples submitted to our lab in North Vancouver, BC, Canada on 12-Sep-2002.

The following have access to data associated with this certificate:

ANDY SMITH
DAVID GABOURY

SAMPLE PREPARATION

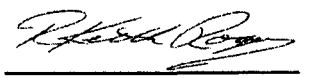
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	47 element four acid ICP-MS	
ME-ICP61i	ICP-AES elements for ME-MS61	ICP-AES
ME-MS61i	ICP-MS elements for ME-MS61	ICP-MS

To: **TRUE NORTH GEMS**
ATTN: ANDY SMITH
701 KENWOOD RD.
WEST VANCOUVER BC V7S 1S7

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 

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Project : Regal Ridge

CERTIFICATE OF ANALYSIS VA02003379

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 0.5	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
2002-04-02-0089		0.18	0.04	4.79	0.8	110.0	0.41	0.23	6.16	0.10	6.48	46.6	578	15.85	26.7	5.29
2002-04-02-0379		0.58	0.08	6.53	1.0	200.0	11.50	0.86	3.40	0.21	7.53	39.6	345	127.0	161.0	5.71
2002-04-02-0380		0.56	0.04	6.52	0.9	170.0	5.77	0.82	3.75	0.16	8.09	38.3	330	50.7	85.1	5.55
2002-04-02-0381		0.56	0.04	6.40	0.8	170.0	4.99	0.73	3.51	0.14	6.95	36.7	300	53.5	89.6	5.48
2002-04-02-0382		0.82	0.05	6.26	0.9	170.0	13.40	0.62	3.31	0.20	6.95	45.3	416	88.7	120.0	6.04
2002-04-02-0383		0.58	0.10	7.13	0.7	180.0	6.47	0.76	1.77	0.18	5.16	55.5	395	129.5	182.0	7.41
2002-04-02-0384		0.74	0.08	6.80	1.5	160.0	6.50	0.52	2.25	0.11	2.53	42.3	328	137.5	122.0	6.07
2002-04-02-0385		0.52	0.07	6.91	1.4	180.0	7.36	0.67	2.81	0.19	7.49	44.4	345	75.4	109.0	6.12
2002-04-02-0386		0.40	0.10	6.21	1.9	180.0	14.65	2.03	2.51	0.24	7.92	45.8	380	130.5	219	6.65
2002-04-02-0387		0.60	0.08	6.24	1.2	170.0	14.15	1.64	2.13	0.24	5.25	40.3	396	151.0	134.0	6.05
2002-04-02-0388		0.64	0.06	6.52	2.5	750	9.98	1.19	3.01	0.20	7.73	40.0	324	74.2	129.0	6.01
2002-04-02-0389		0.56	0.05	6.41	1.5	200.0	8.65	1.13	3.23	0.19	10.30	33.0	278	59.1	71.5	5.24
2002-04-02-0390		0.64	0.02	4.65	2.8	310	0.89	0.07	3.51	0.12	30.0	51.5	728	3.13	24.7	5.16
2002-04-02-0391		0.28	0.06	6.95	1.4	740	1.18	0.10	1.68	0.16	31.1	10.2	57	2.87	15.4	1.91
2002-04-02-0392		0.74	0.02	4.60	3.0	390	1.01	0.06	3.09	0.11	28.3	55.1	796	3.63	13.8	5.40
2002-04-02-0393		0.36	0.06	6.15	1.6	230	4.04	2.71	3.38	0.23	13.80	30.8	288	19.30	38.8	5.01
2002-04-02-0394		0.44	0.04	6.33	1.1	260	4.74	0.96	3.12	0.16	11.30	29.8	288	33.4	43.8	4.73
2002-04-02-0395		0.58	0.03	6.63	1.5	170.0	4.70	0.48	3.72	0.13	9.53	34.3	285	40.8	76.4	5.21
2002-04-02-0396		0.60	0.06	6.14	0.3	180.0	12.65	1.37	3.04	0.26	4.45	37.9	301	137.5	109.0	5.53
2002-04-02-0397		0.54	0.08	6.43	0.8	220	21.5	1.80	2.62	0.21	5.49	43.2	349	216	154.0	6.16
2002-04-02-0398		0.36	0.08	6.76	0.5	180.0	6.70	0.66	2.96	0.21	6.11	41.5	345	156.5	106.0	6.39
2002-04-02-0399		0.32	0.05	6.25	0.4	180.0	7.98	1.24	3.94	0.17	5.80	43.1	408	46.9	103.0	6.29
2002-04-02-0400		0.36	0.03	6.88	<0.2	140.0	0.59	0.11	5.14	0.08	1.33	48.6	408	13.15	53.1	6.76
2002-04-02-0401		0.38	0.04	6.91	<0.2	390	0.66	0.10	5.44	0.06	1.32	48.9	459	13.80	59.7	6.79
2002-04-02-0402		0.80	0.04	5.17	4.3	530	1.41	0.09	3.05	0.18	46.1	56.4	630	7.01	24.0	4.93
2002-04-02-0403		0.62	0.02	4.14	4.7	450	1.01	0.09	1.34	0.25	34.5	52.8	838	3.95	9.5	5.19
2002-04-02-0404		0.78	0.03	4.24	4.9	490	2.01	0.17	1.88	0.15	45.7	53.2	670	6.27	21.3	4.77
2002-04-02-0405		0.48	0.03	3.95	4.8	490	8.32	0.63	1.95	0.26	33.2	53.9	971	13.15	17.4	4.65
2002-04-02-0406		0.54	0.02	3.74	3.1	350	5.29	0.77	2.81	0.17	26.0	51.2	975	10.50	16.7	4.92
2002-04-02-0407		0.74	0.02	3.36	1.4	140.0	17.30	0.92	5.15	0.14	13.95	65.2	1135	62.9	35.8	5.55
2002-04-02-0408		0.58	0.02	4.52	4.1	290	22.9	2.76	2.56	0.17	25.7	61.4	835	46.2	23.3	5.38
2002-04-02-0409		0.56	0.03	4.62	3.3	510	14.30	1.21	1.86	0.16	39.9	47.1	595	24.2	17.5	3.85
2002-04-02-0410		0.42	0.02	5.29	2.5	450	4.65	0.62	2.19	0.12	36.0	45.6	753	18.50	20.3	4.38
2002-04-02-0411		0.56	0.03	4.27	2.8	340	2.81	0.27	3.25	0.14	30.3	46.6	828	7.35	14.7	4.88
2002-04-02-0412		0.34	0.02	3.90	1.7	300	1.94	0.22	3.62	0.13	27.4	41.7	773	6.07	12.7	4.76
2002-04-02-0413		0.32	0.03	4.57	5.0	470	1.10	0.13	3.15	0.19	40.9	26.2	446	5.80	12.0	4.41
2002-04-02-0414		0.36	0.03	4.01	5.0	510	1.47	0.20	2.74	0.33	39.1	34.2	805	3.95	11.6	4.40
2002-04-02-0415		0.40	<0.02	3.16	4.8	320	0.97	0.06	0.98	0.18	32.9	64.7	1370	3.05	8.7	5.61
2002-04-02-0416		0.54	<0.02	3.87	4.9	390	1.18	0.14	1.65	0.18	34.1	62.3	1135	3.81	16.7	5.48
2002-04-02-0417		0.44	0.02	4.18	5.3	440	3.02	0.41	2.10	0.17	37.6	47.6	869	8.32	20.9	4.99

Comments: REE's may not be totally soluble in MS61 method.

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CERTIFICATE OF ANALYSIS VA02003379

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 0.5	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
2002-04-02-0418		0.48	0.02	3.84	6.2	400	47.9	2.46	1.85	0.23	30.7	52.2	1340	19.70	29.8	5.02
2002-04-02-0419		0.78	0.02	4.15	5.9	460	6.69	0.47	2.29	0.17	35.4	47.9	964	11.60	24.3	4.71
2002-04-02-0420		0.62	<0.02	4.34	3.9	330	11.95	2.05	2.93	0.11	29.7	57.0	1065	29.6	26.9	4.93
2002-04-02-0421		0.34	0.05	3.90	4.8	530	6.81	1.22	2.03	0.25	33.1	129.0	678	38.3	15.4	4.65
2002-04-02-0422		0.74	0.02	4.55	4.3	550	16.65	0.73	2.17	0.21	44.2	52.7	643	9.51	18.0	4.25
2002-04-02-0423		0.70	0.02	4.66	5.1	550	4.09	0.29	2.30	0.15	41.2	54.4	641	9.52	18.8	4.55
2002-04-02-0424		0.30	0.03	4.89	3.5	290	1.05	0.09	2.62	0.19	28.7	61.2	989	4.81	17.1	6.44
2002-04-02-0425		0.46	<0.02	4.27	2.9	290	0.91	0.04	4.26	0.11	27.7	50.6	688	3.44	14.0	5.25
2002-04-02-0426		0.48	0.02	3.67	2.3	190.0	1.00	0.08	4.46	0.14	15.55	56.1	964	2.28	10.3	5.74
2002-04-02-0427		0.34	0.02	3.68	4.2	410	1.51	0.24	1.38	0.10	27.4	60.1	1250	7.71	16.7	5.08
2002-04-02-0428		0.58	0.02	4.28	5.0	320	4.49	0.47	2.59	0.08	25.6	59.5	1095	10.05	13.9	5.33
2002-04-02-0429		0.20	0.02	6.19	7.3	590	4.26	1.11	2.14	0.09	29.4	36.6	448	17.70	19.0	4.38
2002-04-02-0430		0.26	0.03	5.32	7.9	510	5.00	0.73	2.07	0.17	31.9	47.0	673	20.4	24.1	4.50
2002-04-02-0431		0.58	0.02	6.05	9.6	580	9.90	0.75	2.15	0.09	34.7	39.2	540	29.6	24.7	4.53
2002-04-02-0432		0.70	0.02	5.83	13.0	640	8.09	0.94	2.26	0.10	40.2	40.4	651	23.6	22.9	4.46
2002-04-02-0433		0.94	0.02	5.38	6.4	540	6.32	0.61	2.40	0.12	37.8	39.8	704	13.30	19.0	4.24
2002-04-02-0434		0.54	<0.02	4.52	5.9	480	6.15	0.58	2.76	0.13	30.3	46.0	821	16.50	16.6	4.63
2002-04-02-0435		0.50	0.02	4.95	4.9	510	3.58	0.35	2.06	0.20	37.7	38.1	771	9.69	14.7	4.44
2002-04-02-0436		0.60	0.03	4.70	3.6	410	11.90	0.43	2.18	0.18	35.4	55.7	916	10.00	16.4	4.63
2002-04-02-0437		0.44	0.05	5.96	5.0	540	3.38	0.34	2.04	0.14	34.2	44.6	430	22.2	32.7	4.32
2002-04-02-0438		0.58	0.05	3.40	3.3	320	1.34	0.29	2.14	0.27	19.65	61.9	1245	12.20	17.2	5.34
2002-04-02-0439		0.30	0.05	7.25	1.7	740	1.37	0.08	1.92	0.16	32.0	8.3	59	3.02	16.4	1.94
2002-04-02-0440		0.56	0.02	4.41	4.8	470	2.50	2.12	2.14	0.11	28.3	51.2	844	13.10	13.1	4.64
2002-04-02-0441		0.58	0.02	6.15	4.5	840	4.36	0.37	1.69	0.09	40.9	25.4	416	19.70	10.4	3.77
2002-04-02-0442		0.64	0.02	5.06	5.4	450	4.11	0.37	2.99	0.09	26.0	38.7	591	15.10	20.5	4.63
2002-04-02-0443		0.58	<0.02	4.70	3.5	560	4.21	0.35	2.65	0.10	22.2	34.5	713	12.95	11.6	4.71
2002-04-02-0444		0.36	0.06	6.12	2.9	530	2.08	0.21	1.97	0.20	24.0	41.8	410	19.35	47.9	4.71
2002-04-02-0445		0.60	0.03	6.40	5.9	590	1.87	0.13	2.68	0.21	40.3	27.8	278	10.55	32.5	4.12
2002-04-02-0446		0.56	0.03	5.71	5.7	530	3.88	0.34	2.67	0.12	35.0	32.4	459	13.70	16.5	4.39
2002-04-02-0447		0.64	<0.02	6.23	4.9	500	4.07	0.37	3.53	0.12	30.2	42.0	552	10.65	21.6	4.89
2002-04-02-0448		0.72	0.02	5.77	5.5	640	9.60	0.43	2.99	0.10	30.3	50.9	770	16.20	28.9	5.30
2002-04-02-0449		0.48	0.02	3.62	3.4	180.0	8.41	0.65	4.00	0.13	13.35	51.3	1145	9.04	13.1	5.28
2002-04-02-0450		0.36	0.15	6.22	10.1	640	1.08	0.15	1.82	0.20	29.6	17.4	118	7.04	18.0	2.36
2002-04-02-0451		0.40	0.09	6.71	2.9	750	1.12	0.13	1.66	0.08	35.0	9.5	51	6.58	17.4	1.87
2002-04-02-0452		0.40	0.10	4.62	3.0	560	1.48	0.18	2.80	0.30	26.6	35.3	530	22.8	9.1	4.36
2002-04-02-0453		0.26	0.16	5.93	2.3	560	1.55	0.13	2.16	0.23	27.0	21.1	215	7.95	13.4	2.90
2002-04-02-0454		0.60	0.08	3.48	3.6	350	1.59	0.48	2.43	0.21	24.3	62.5	1040	15.25	16.7	4.43
2002-04-02-0455		0.26	0.10	3.82	2.3	640	2.95	0.45	1.69	0.18	24.6	42.3	621	24.4	9.3	4.10
2002-04-02-0456		0.42	0.08	5.53	3.6	410	1.64	0.11	4.75	0.09	8.64	42.1	455	20.2	56.2	4.94
2002-04-02-0457		0.60	0.07	7.21	3.0	1430	2.20	0.08	0.80	0.04	66.6	12.2	137	27.6	8.8	2.90

Comments: REE's may not be totally soluble in MS61 method.

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
Aurora Laboratory Services Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: TRUE NORTH GEMS
701 KENWOOD RD.
WEST VANCOUVER BC V7S 1S7

Date : 1-Oct-2002
Account: THR

Project : Regal Ridge

CERTIFICATE OF ANALYSIS VA02003379

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 0.5	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
2002-04-02-0458		0.44	0.06	4.82	3.6	330	2.60	0.22	3.54	0.08	18.75	41.9	589	11.30	31.0	4.69
2002-04-02-0459		0.60	0.06	5.30	2.4	330	2.52	0.17	3.53	0.06	18.10	43.6	481	14.60	21.7	4.61
2002-04-02-0460		0.90	0.07	5.32	3.5	300	3.11	0.21	3.95	0.08	22.7	51.9	609	20.00	24.9	5.50
2002-04-02-0461		0.64	0.06	5.40	3.3	360	2.04	0.23	3.40	0.09	25.6	45.7	529	16.95	28.3	5.04
2002-04-02-0462		0.54	0.11	5.90	4.6	520	1.43	1.05	2.53	0.13	35.1	34.3	291	12.45	30.0	3.82
2002-04-02-0463		0.40	0.13	6.72	4.6	650	1.64	0.22	1.65	0.08	43.0	30.9	219	26.9	64.8	3.66
2002-04-02-0464		0.76	0.07	4.81	5.5	500	4.80	0.40	2.86	0.07	27.2	47.0	679	13.30	20.3	4.85

Comments: REE's may not be totally soluble in MS61 method.

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

TRUE NORTH GEMS
608 - 602 W. HASTINGS ST.
VANCOUVER BC V6B 1P2

Date : 30-Dec-2002
Account: THR

CERTIFICATE VA02006377

Project :

P.O. No:

This report is for 7 ROCK samples submitted to our lab in North Vancouver, BC, Canada on 29-Nov-2002.

The following have access to data associated with this certificate:

BONNIE PEMBERTON

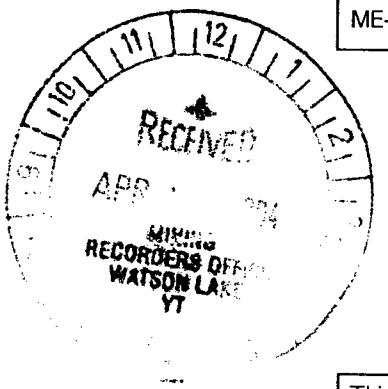
Samples 20020011 00 - 20020011 06

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	47 element four acid ICP-MS	
F-ELE81	Fluorine - Fusion/ Electrochem	
ME-ICP61i	ICP-AES elements for ME-MS61	ICP-AES
ME-MS61i	ICP-MS elements for ME-MS61	ICP-MS



To: **TRUE NORTH GEMS**
ATTN: BONNIE PEMBERTON
608 - 602 W. HASTINGS ST.
VANCOUVER BC V6B 1P2

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

J. TRUE NORTH GEMS
608 - 602 W. HASTINGS ST.
VANCOUVER BC V6B 1P2

Date : 30-Dec-2002
Account: THR

CERTIFICATE OF ANALYSIS VA02006377

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 0.5	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
2002-001-100		1.58	0.06	8.89	4.8	46.8	0.22	0.38	7.23	0.08	2.26	36.7	263	24.1	122.5	6.82
2002-001-101		1.44	0.03	6.78	1.8	90.9	2.56	0.25	7.81	0.13	1.61	43.4	248	24.9	7.2	5.80
2002-001-102		1.24	0.17	8.63	1.8	66.5	0.24	0.21	4.99	0.10	1.54	42.9	314	25.0	326	5.36
2002-001-103		2.02	0.07	7.55	0.8	81.2	2.24	0.21	5.88	0.11	1.91	39.5	324	12.00	91.6	5.85
2002-001-104		2.60	0.10	6.78	0.8	69.2	0.41	0.25	5.51	0.09	1.52	48.9	431	23.1	119.5	6.05
2002-001-105		1.20	0.08	7.44	1.7	64.9	0.22	0.13	6.08	0.13	2.00	49.7	410	4.01	129.0	6.93
2002-001-106		1.36	0.03	6.01	1.6	177.0	2.00	0.38	4.69	0.23	1.24	45.7	336	184.5	5.7	5.72

Comments:

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

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608 - 602 W. HASTINGS ST.
VANCOUVER BC V6B 1P2

Date : 30-Dec-2002
Account: THR

CERTIFICATE OF ANALYSIS VA02006377

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
2002-001-100		17.05	0.10	0.3	0.064	0.32	0.9	96.3	4.75	1160	0.37	1.88	0.4	79.9	180	2.8
2002-001-101		11.50	0.11	0.2	0.038	0.52	0.6	30.5	7.11	1265	0.24	1.62	0.3	125.5	110	2.8
2002-001-102		11.15	0.08	0.2	0.033	0.21	0.6	127.5	5.31	860	0.20	3.10	0.3	103.5	120	2.4
2002-001-103		12.90	0.09	0.2	0.041	0.18	1.1	76.2	6.21	1025	0.86	1.27	0.3	151.5	90	2.0
2002-001-104		11.50	0.09	0.2	0.037	0.18	0.7	65.0	6.93	1040	0.14	1.72	0.4	182.5	80	2.0
2002-001-105		14.05	0.09	0.2	0.047	0.10	0.9	91.3	7.38	1130	0.25	1.47	0.4	177.5	90	1.9
2002-001-106		7.88	0.15	0.1	0.035	1.13	0.5	121.5	7.78	1270	0.16	1.27	0.4	183.0	70	3.6

Comments:

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

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608 - 602 W. HASTINGS ST.
VANCOUVER BC V6B 1P2

Page # : 2 - C
Total # of pages : 2 (A - D)
Date : 30-Dec-2002
Account: THR

CERTIFICATE OF ANALYSIS VA02006377

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.01	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
2002-001-100		31.3	0.005	0.11	0.40	<1	0.2	138.5	<0.05	<0.05	0.2	0.24	0.24	0.2	319	1.5
2002-001-101		71.9	0.003	0.01	0.30	<1	3.6	103.0	<0.05	<0.05	<0.2	0.19	0.45	0.1	244	0.8
2002-001-102		24.2	<0.002	0.03	0.21	<1	<0.2	120.0	<0.05	<0.05	<0.2	0.20	0.18	0.1	177	0.7
2002-001-103		14.4	0.004	0.01	0.21	<1	4.0	95.5	<0.05	<0.05	0.2	0.14	0.12	0.2	224	1.0
2002-001-104		20.0	0.003	0.01	0.19	<1	0.2	90.4	<0.05	<0.05	0.2	0.12	0.17	0.1	220	0.5
2002-001-105		5.6	<0.002	0.01	0.21	<1	<0.2	78.8	<0.05	<0.05	0.2	0.14	0.05	0.2	280	0.5
2002-001-106		185.0	0.003	0.01	0.19	<1	8.5	39.7	<0.05	<0.05	0.2	0.12	1.62	0.1	207	0.4

Comments:

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

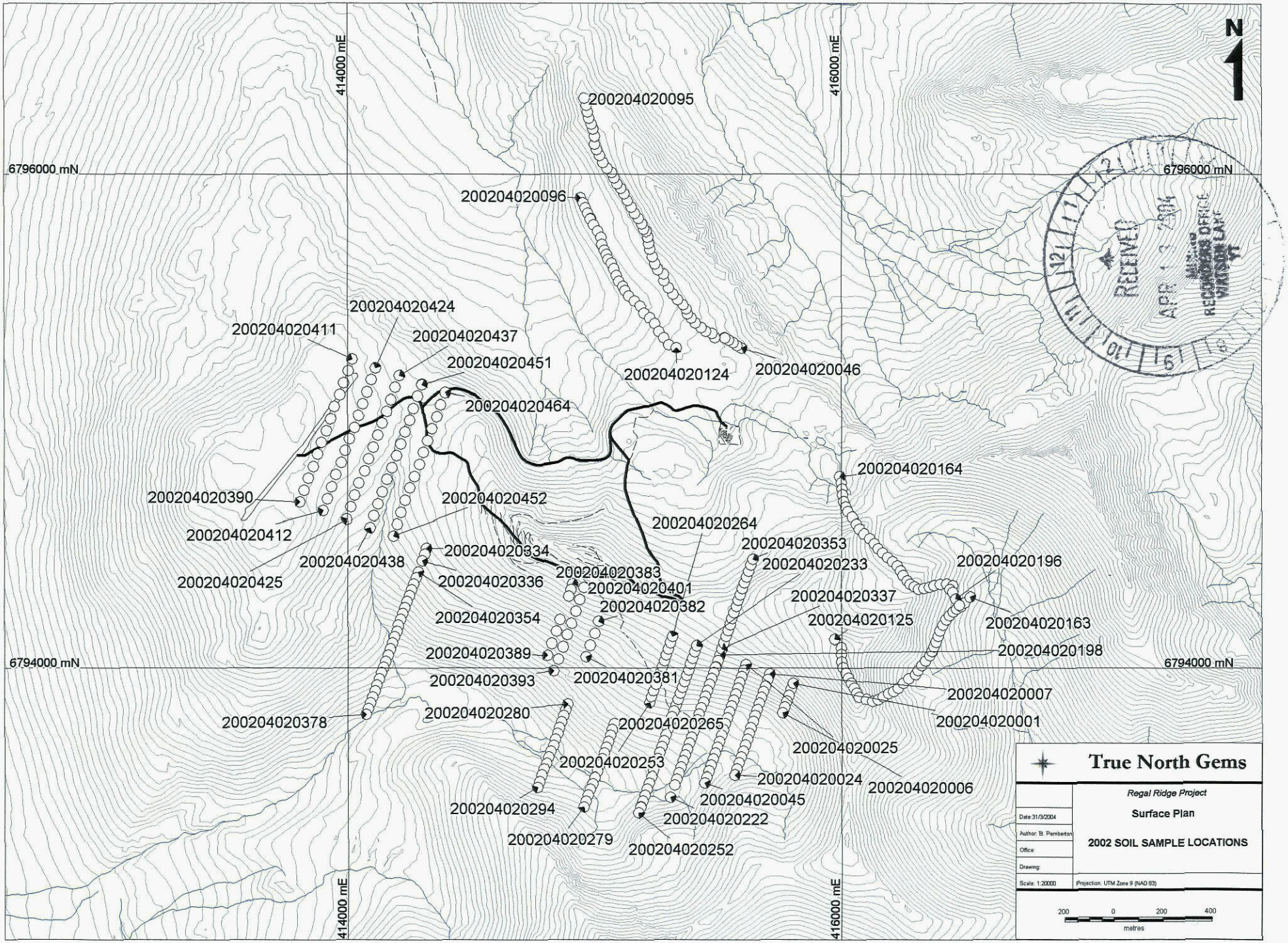
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VANCOUVER BC V6B 1P2

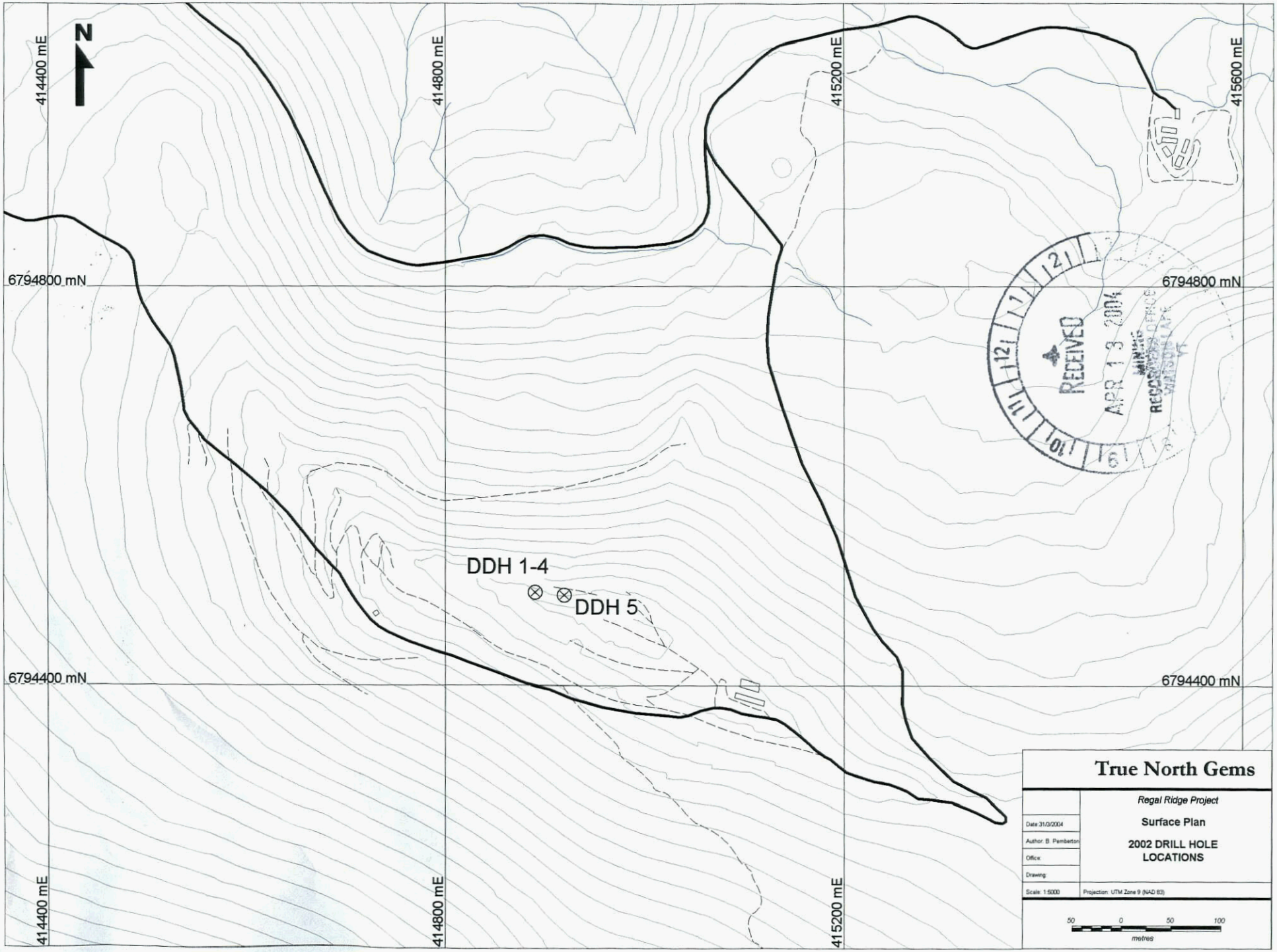
Date : 30-Dec-2002
Account: THR

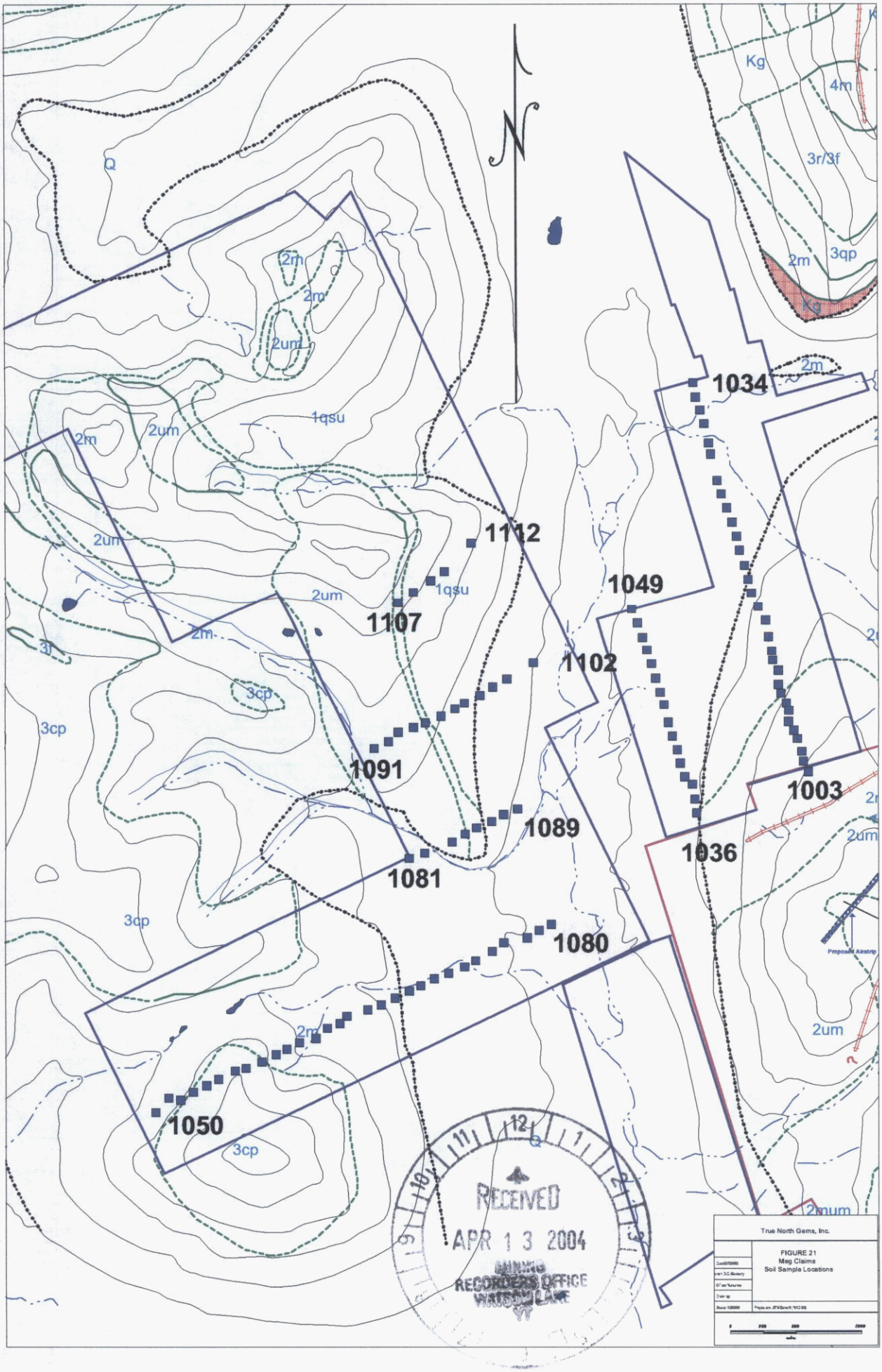
CERTIFICATE OF ANALYSIS VA02006377

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	F-ELE81 F ppm 20
2002-001-100		11.1	63	5.4	60
2002-001-101		6.8	73	3.4	320
2002-001-102		8.1	75	2.2	70
2002-001-103		7.0	69	3.5	140
2002-001-104		5.3	67	2.6	70
2002-001-105		7.9	77	3.8	60
2002-001-106		5.6	150	2.9	250

Comments:


N
414000 mE
416000 mE
6796000 mN
6794000 mN
200204020095
200204020096
200204020424
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200204020437
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RECEIVED
APR 1 7 2004
RECORDING OFFICE
MINERAL LAKE
True North Gems
Regal Ridge Project
Surface Plan
2002 SOIL SAMPLE LOCATIONS
Date: 31/3/2004
Author: B. Pemberton
Office:
Drawing:
Scale: 1:20000
Projection: UTM Zone 9 (NAD 83)
200 0 200 400
metres


N
414400 mE
414800 mE
415200 mE
415600 mE
6794800 mN
6794400 mN
DDH 1-4
DDH 5
RECEIVED
APR 13 2004
True North Gems
Regal Ridge Project
Surface Plan
2002 DRILL HOLE LOCATIONS
Date: 31/3/2004
Author: B. Pemberton
Office:
Drawing:
Scale: 1:5000
Projection: UTM Zone 9 (NAD 83)
50 0 50 100
metres


Kg
4m
3r/3f
Q
2m
3qp
2um
1qsu
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1107
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1003
1089
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1081
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1050
3cp
3f
Proposed Airstrip
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YT
True North Gems, Inc.
FIGURE 21
Meg Claims
Soil Sample Locations

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

TRUE NORTH GEMS
601 - 602 W. HASTINGS ST.
VANCOUVER BC V6B 1P2

Page #
Date : 6-May-2003
Account: THR

CERTIFICATE VA03012765

Project :

P.O. No:

This report is for 17 DRILL CORE samples submitted to our lab in North Vancouver, BC, Canada on 24-Apr-2003.

The following have access to data associated with this certificate:

BONNIE PEMBERTON

* Missing sample numbers were never analyzed

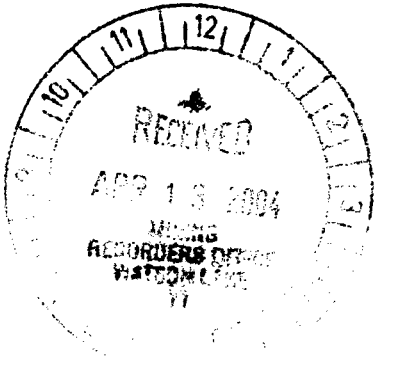
SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-31	Fine crushing - 70% <2mm
LOG-22	Sample login - Rcd w/o BarCode
PUL-31	Pulverize split to 85% <75 um
SPL-21	Split sample - riffle splitter

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
F-ELE81	Fluorine - Fusion/ Electrochem
ME-MS61	47 element four acid ICP-MS

To: TRUE NORTH GEMS
ATTN: BONNIE PEMBERTON
601 - 602 W. HASTINGS ST.
VANCOUVER BC V6B 1P2



This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

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North Vancouver BC V7J 2C1 Canada
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Total # of pages : 2 (A - D)
Date : 6-May-2003
Account: THR

CERTIFICATE OF ANALYSIS VA03012765

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.01	0.01	0.2	0.5	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
TS2003-001		0.28	0.13	5.83	<0.2	60.0	14.15	1.62	5.89	0.23	1.72	48.9	445	133.0	201	7.43
TS2003-002		0.50	<0.02	1.22	1.5	<10.0	2.50	0.09	0.68	<0.02	0.21	6.0	91	4.12	16.4	0.85
TS2003-003		0.48	0.11	6.49	<0.2	130.0	24.7	1.20	5.79	0.06	1.44	47.9	412	254	121.0	7.36
TS2003-004		0.42	0.09	4.09	<0.2	550	16.55	0.76	5.12	0.09	1.04	36.3	390	374	146.0	5.65
TS2003-005		1.30	0.02	1.20	0.9	10.0	1.61	1.44	1.50	0.02	0.27	4.1	138	1.36	23.8	0.65
TS2003-007		0.28	<0.02	4.07	0.7	10.0	0.91	0.07	1.46	<0.02	0.23	9.1	130	1.84	5.9	1.32
TS2003-008		0.84	0.19	4.22	<0.2	<10.0	7.76	0.73	2.03	0.14	0.72	30.3	224	5.09	547	3.94
TS2003-009		0.88	0.03	4.50	17.4	20.0	2.05	0.11	8.85	0.05	0.68	14.3	132	15.15	52.6	4.18
TS2003-010		0.42	0.02	5.27	0.3	30.0	2.49	0.34	4.13	0.07	0.98	46.8	525	186.0	3.7	5.93
TS2003-011		1.12	<0.02	2.75	0.4	10.0	12.35	1.00	1.18	<0.02	0.44	5.1	188	5.87	17.3	1.20
TS2003-012		0.60	0.06	5.60	<0.2	60.0	17.05	0.88	4.87	0.21	0.94	41.1	432	141.0	84.2	5.60
TS2003-013		0.54	0.03	7.81	<0.2	20.0	0.21	0.17	4.78	0.05	1.20	37.2	138	171.0	59.6	5.71
TS2003-014		0.36	0.02	4.79	0.9	10.0	0.60	0.01	2.37	0.03	0.48	9.8	82	67.9	29.3	1.32
TS2003-015		0.48	0.05	7.07	0.4	20.0	0.70	0.12	3.58	0.06	1.33	31.4	72	131.5	97.7	5.16
TS2003-016		1.10	0.03	6.61	0.4	30.0	45.4	0.27	1.82	0.03	2.46	7.2	56	48.7	44.5	1.36
TS2003-018		0.76	0.10	4.36	0.7	50.0	10.75	0.19	0.82	<0.02	0.66	28.8	227	18.70	217	3.26
TS2003-019		0.74	0.03	1.79	0.9	<10.0	1.90	0.09	0.54	0.02	0.39	43.0	201	0.63	51.5	3.21

Comments: REE's may not be totally soluble in MS61 method.

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North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

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Total # of pages : 2 (A - D)
Date : 6-May-2003
Account: THR

CERTIFICATE OF ANALYSIS VA03012765

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
TS2003-001		9.84	0.18	0.2	0.047	0.83	0.7	85.9	8.54	1820	0.36	0.47	0.8	245	40	1.8
TS2003-002		2.96	0.05	<0.1	0.006	0.02	<0.5	10.8	0.68	168	0.63	0.10	0.1	27.0	<10	0.6
TS2003-003		12.85	0.16	0.2	0.031	1.80	0.6	185.5	8.27	1760	0.39	0.65	0.9	232	30	2.3
TS2003-004		9.85	0.13	0.1	0.023	2.63	<0.5	337	7.21	1345	0.19	0.25	1.6	204	70	1.6
TS2003-005		4.51	0.05	<0.1	<0.005	0.05	<0.5	15.4	0.58	155	2.15	0.10	<0.1	14.6	10	1.1
TS2003-007		5.33	0.07	<0.1	0.005	0.01	<0.5	20.8	1.29	191	1.03	0.35	0.1	32.0	30	1.2
TS2003-008		8.43	0.12	0.1	0.014	0.02	<0.5	30.1	3.52	506	1.21	0.33	0.2	61.1	150	2.1
TS2003-009		7.46	0.10	0.1	0.016	0.25	<0.5	75.6	3.99	1115	0.37	0.02	0.3	38.3	30	0.9
TS2003-010		10.35	0.13	0.1	0.030	0.66	<0.5	262	7.63	1090	0.07	0.77	0.3	269	30	2.4
TS2003-011		12.95	0.08	<0.1	<0.005	0.08	<0.5	64.2	0.94	333	1.63	0.26	0.5	20.2	90	1.4
TS2003-012		10.35	0.15	0.1	0.045	0.98	<0.5	229	6.78	1260	0.18	1.02	0.3	192.5	60	2.3
TS2003-013		13.40	0.14	0.2	0.046	0.17	0.5	167.0	5.69	957	0.21	1.65	0.4	103.0	60	1.4
TS2003-014		4.93	0.07	<0.1	0.009	0.15	<0.5	43.7	1.33	397	0.31	0.92	0.1	18.0	10	1.3
TS2003-015		10.10	0.12	0.1	0.033	0.13	0.6	164.0	5.06	859	0.25	1.85	0.4	57.1	60	1.2
TS2003-016		23.2	0.07	1.5	0.010	0.64	1.1	101.0	1.14	408	5.61	3.02	3.2	16.8	30	12.4
TS2003-018		16.40	0.10	<0.1	0.015	0.20	<0.5	44.4	3.48	269	1.18	0.26	0.1	105.0	110	2.1
TS2003-019		4.17	0.09	<0.1	0.006	0.01	<0.5	5.5	1.42	241	1.33	0.09	0.4	36.2	50	0.9

Comments: REE's may not be totally soluble in MS61 method.

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CERTIFICATE OF ANALYSIS VA03012765

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.01	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
TS2003-001		177.5	0.004	0.04	0.13	1	55.6	14.5	<0.05	<0.05	<0.2	0.15	1.50	<0.1	251	5.9
TS2003-002		4.0	0.003	0.04	<0.05	1	6.0	13.8	<0.05	<0.05	<0.2	0.02	0.02	<0.1	27	15.9
TS2003-003		384	0.006	0.08	0.09	<1	98.0	20.9	<0.05	<0.05	<0.2	0.17	2.65	<0.1	275	8.3
TS2003-004		600	0.003	0.33	<0.05	<1	55.6	19.2	0.05	<0.05	<0.2	0.11	3.45	<0.1	176	8.4
TS2003-005		8.6	0.003	0.03	0.06	<1	5.9	8.5	<0.05	<0.05	<0.2	0.01	0.10	<0.1	19	195.0
TS2003-007		0.7	<0.002	0.01	<0.05	<1	3.9	35.1	<0.05	<0.05	<0.2	0.06	0.02	<0.1	67	11.0
TS2003-008		1.0	0.006	0.49	0.07	1	35.1	30.2	<0.05	<0.05	<0.2	0.09	0.13	0.1	127	82.7
TS2003-009		48.3	<0.002	0.02	0.11	<1	15.1	28.0	<0.05	<0.05	<0.2	0.08	0.28	0.1	150	22.6
TS2003-010		105.0	<0.002	<0.01	<0.05	<1	5.1	24.4	<0.05	<0.05	<0.2	0.13	0.78	0.1	260	2.4
TS2003-011		15.4	<0.002	<0.01	<0.05	<1	11.5	9.4	<0.05	<0.05	<0.2	0.02	0.10	<0.1	28	1.7
TS2003-012		193.0	0.002	0.01	<0.05	<1	42.2	34.2	<0.05	<0.05	<0.2	0.12	1.62	0.2	211	149.5
TS2003-013		16.1	<0.002	<0.01	0.06	<1	0.3	77.6	<0.05	<0.05	<0.2	0.15	0.16	0.2	256	6.1
TS2003-014		16.7	<0.002	<0.01	0.05	<1	1.7	40.0	<0.05	<0.05	<0.2	0.03	0.15	<0.1	49	33.4
TS2003-015		12.4	<0.002	0.01	0.08	<1	1.0	51.1	<0.05	<0.05	<0.2	0.15	0.11	0.1	222	5.4
TS2003-016		107.5	0.002	0.02	<0.05	<1	11.3	39.4	0.23	<0.05	3.1	0.03	0.72	12.4	61	4.5
TS2003-018		28.4	0.002	0.02	0.10	<1	27.0	32.3	<0.05	<0.05	<0.2	0.06	0.30	1.1	106	360
TS2003-019		0.9	0.009	0.44	<0.05	<1	6.8	33.2	<0.05	<0.05	<0.2	0.04	<0.02	0.4	60	4.8

Comments: REE's may not be totally soluble in MS61 method.

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CERTIFICATE OF ANALYSIS VA03012765

Sample Description	Method / Analyte / Units / LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	F-ELE81 F ppm 20
TS2003-001		8.2	115	2.7	1770
TS2003-002		0.6	17	0.6	1070
TS2003-003		7.8	124	3.1	3400
TS2003-004		4.7	149	1.2	5850
TS2003-005		3.2	26	<0.5	5730
TS2003-007		0.4	21	<0.5	600
TS2003-008		4.6	44	2.1	1230
TS2003-009		4.4	46	1.3	1020
TS2003-010		6.6	103	1.6	370
TS2003-011		0.8	75	<0.5	2240
TS2003-012		5.9	122	2.2	2580
TS2003-013		7.8	77	2.8	130
TS2003-014		2.4	19	0.6	120
TS2003-015		7.2	75	2.4	110
TS2003-016		10.2	28	20.0	1330
TS2003-018		4.9	53	0.5	2910
TS2003-019		1.4	15	0.7	760

Comments: REE's may not be totally soluble in MS61 method.

Dec. 13, 2002

TRUE NORTH GEOCHEMICAL STUDY

SUMMARY

- A total of 491 samples assayed for 47 elements were supplied by True North Gems Inc.
- Simple statistics consisting of mean, standard deviation, minimum, maximum and coefficient of variation were produced for each element (See Table 1).
- Based on large amounts of data with similar values three elements were removed from further study
  - Re for which 43% were at 0.0001 ppm
  - Se for which 89% were at 1.0 ppm
  - Te for which 74% were at 0.02 ppm
- Each of the remaining 44 elements were evaluated by producing histograms and if required lognormal histograms to allow for comparison in a correlation coefficient matrix (see Table 1 for results).
- A correlation coefficient matrix was produced and showed a suite of 7 elements with significant positive correlation to Be.
  - Bi - Be 0.742
  - Cs - Be 0.668
  - K - Be 0.595
  - Rb - Be 0.804
  - Sn - Be 0.821
  - Tl - Be 0.758
  - W - Be 0.654
- A graphical representation for correlation coefficients is a Dendrogram and one is shown as Figure 1. The suite of elements shown above all cluster in one group as do ultramafics (Co, Mg, Ni, Cr) and Cu-Zn mineralization (Cu, In, Zn).
- For each of the 8 elements considered important to Emerald exploration namely: Be, Bi, Cs, K, Rb, Sn, Tl and W cumulative frequency plots were produced and partitioned to identify different mineralized populations and determine values for thresholds that would effectively separate these populations. The results were then shown on a series of plots (scale 1:5000) for each element showing the individual populations both colour coded and with different sized symbols.

Respectfully submitted:
G.H. Giroux, P.Eng., MASc.



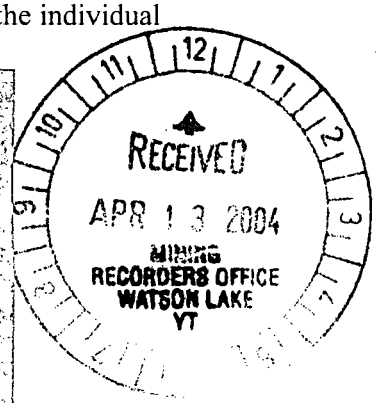


TABLE 1: STATISTICS FOR ELEMENTS							
Variable	Transform	Number	Mean	S.D.	Minimum	Maximum	C.V.
Ag	Log	491	0.64	0.055	0.01	0.58	0.85
Al	Arithmetic	491	5.99	0.99	3.16	10.25	0.16
As	Log	491	2.01	2.72	0.01	47.7	1.35
Ba	Log	491	410.5	313.1	41	3460	0.76
Be	Log	491	2.68	3.65	0.07	47.9	1.36
Bi	Log	491	0.401	0.64	0	6.85	1.59
Ca	Arithmetic	491	2.94	1.29	0.08	6.95	0.44
Cd	Log	491	0.14	0.09	0.01	1.3	0.67
Ce	Log	491	21.72	16.63	0.52	130	0.77
Co	Arithmetic	491	39.42	16.76	2.4	129	0.42
Cr	Log	491	419.7	254.1	15	1370	0.61
Cs	Log	491	16.57	22.61	1.04	216	1.36
Cu	Log	491	49.2	51.6	2.9	534	1.05
Fe	Arithmetic	491	4.92	1.37	0.96	12.1	0.28
Ga	Log	491	12.98	3.37	6.1	28.6	0.26
Ge	Arithmetic	491	0.19	0.05	0.05	0.73	0.28
Hf	Log	491	0.93	0.72	0.1	3.7	0.78
In	Arithmetic	491	0.33	0.01	0.002	0.08	0.29
K	Log	491	0.845	0.592	0.07	3.09	0.70
La	Log	491	11.18	9.5	0.2	132.5	0.85
Li	Log	491	56.89	46.14	8.6	440	0.81
Mg	Arithmetic	491	5.52	2.73	0.16	13.3	0.49
Mn	Arithmetic	491	885.1	283.9	150	3400	0.32
Mo	Log	491	0.95	1.07	0.02	12.9	1.13
Na	Log	491	1.09	0.43	0.18	2.73	0.39
Nb	Arithmetic	491	4.29	2.85	0.2	16.1	0.66
Ni	Log	491	225.3	173.7	3.5	1050	0.77
P	Log	491	386.8	304.9	30	2670	0.79
Pb	Log	491	8.2	8.19	0.8	98.5	0.99
Rb	Log	491	51.64	48.22	3.4	330	0.93
Re*	Log	491	0.002	0.001	0.0001	0.006	0.69
S	Log	491	0.15	0.021	0.005	0.21	1.42
Sb	Log	491	0.337	1.29	0	28.5	3.82
Se*	Log	491	0.995	0.297	0.5	4	0.30
Sn	Log	491	8.31	50.03	0.1	500	6.02
Sr	Log	491	99.6	82.6	9.2	531	0.83
Ta	Arithmetic	491	0.27	0.16	0.0025	1.05	0.60
Te*	Log	491	0.028	0.019	99,925	0.14	0.96
Th	Log	491	4.695	4.495	0.1	36.1	0.96
Ti	Arithmetic	491	0.171	0.063	0.06	0.79	0.37
Tl	Log	491	0.362	0.344	0.01	1.95	0.95
U	Log	491	1.93	9.46	0.1	150.5	4.91
V	Arithmetic	491	159.4	46.4	12	242	0.29
W	Log	491	9.16	27.62	0.1	250	3.02
Y	Arithmetic	491	6.62	2.74	2.8	37.6	0.41
Zn	Log	491	86.9	28.3	26	341	0.33
Zr	Log	491	29.93	24.58	2	135	0.82

Note: * Re, Se and Te removed from study since 43%, 89% and 74.9% respectively were the same value

FIGURE 1 - DENDOGRAM

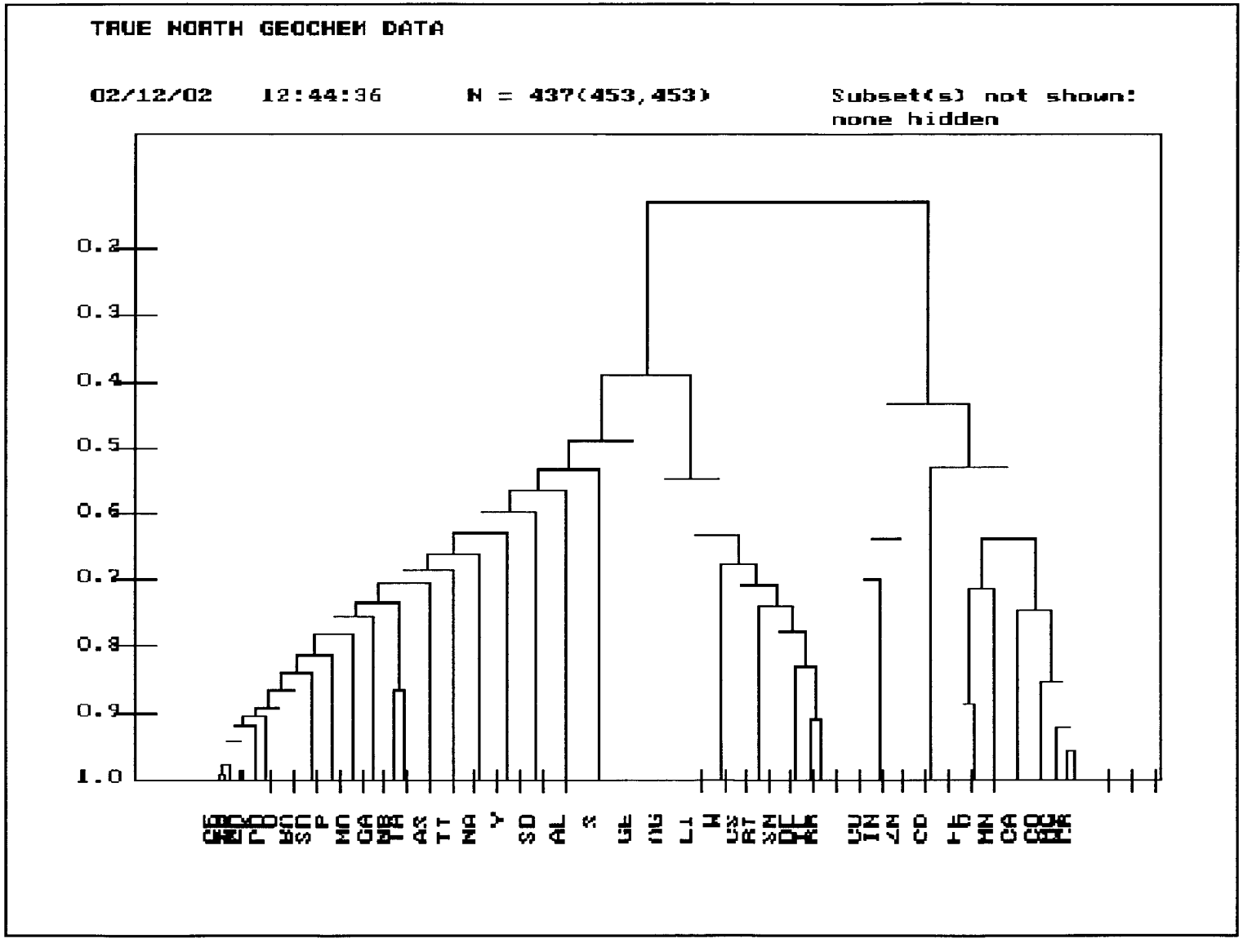


FIGURE 2 - Cumulative Frequency Plot for Be

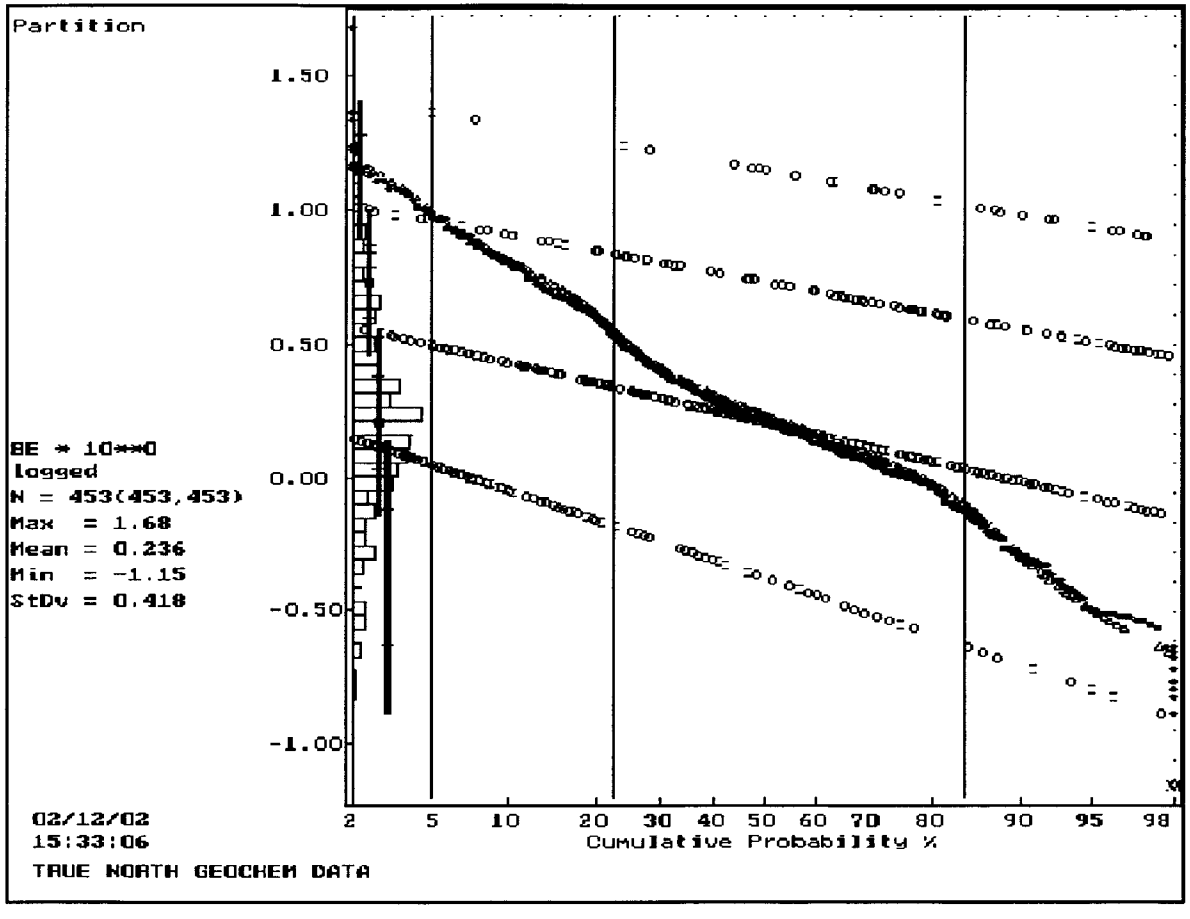


FIGURE 3 - Cumulative Frequency Plot for Bi

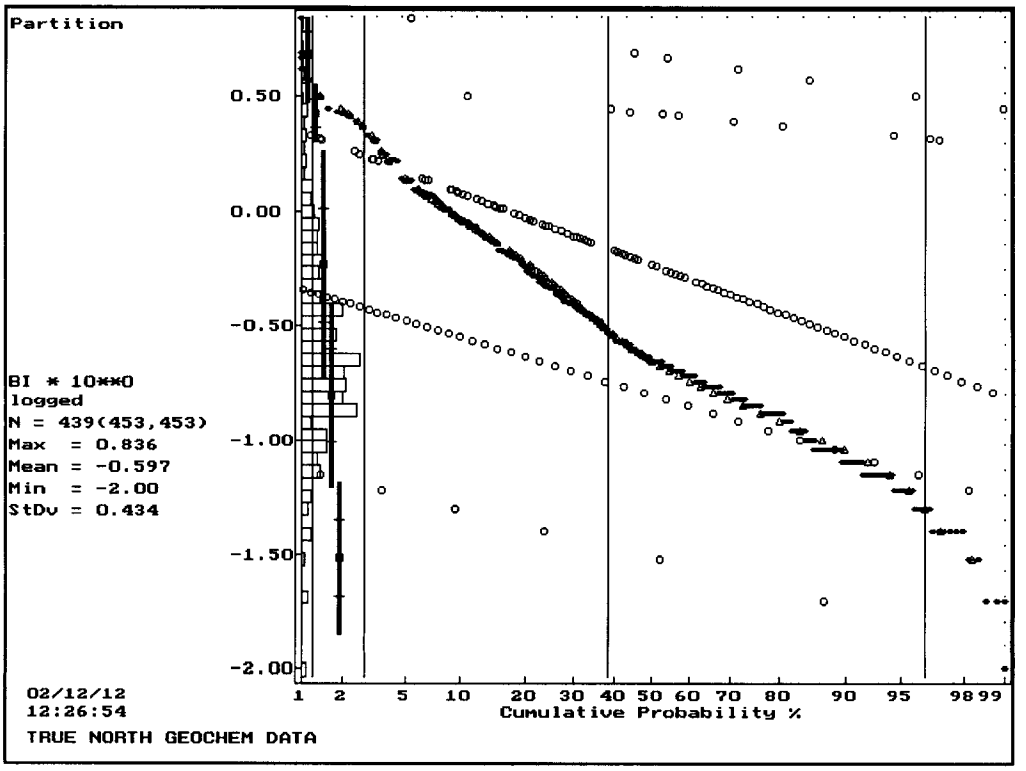


FIGURE 4 - Cumulative Frequency Plot for Cs

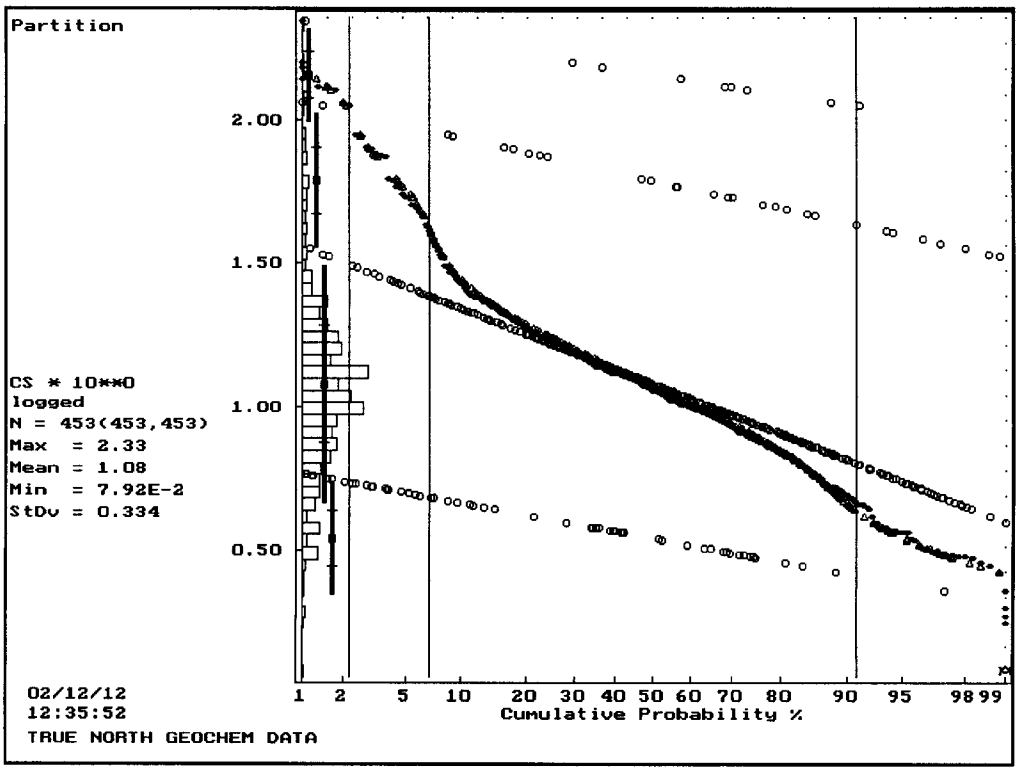


FIGURE 5 - Cumulative Frequency Plot for K

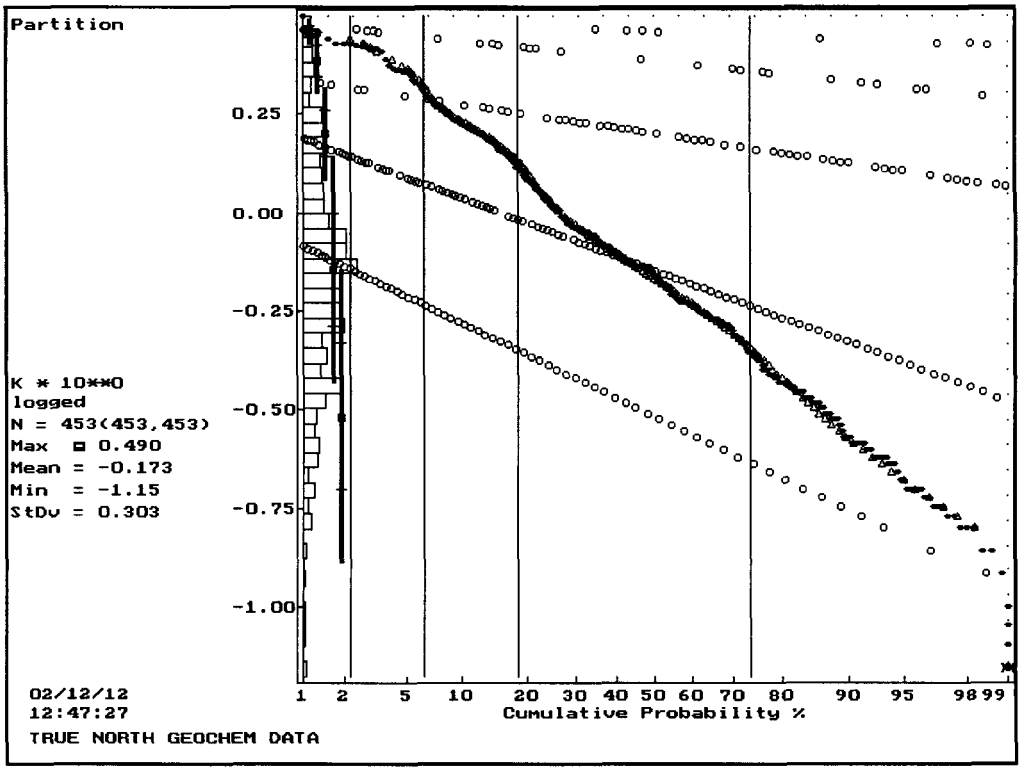


FIGURE 6 - Cumulative Frequency Plot for Rb

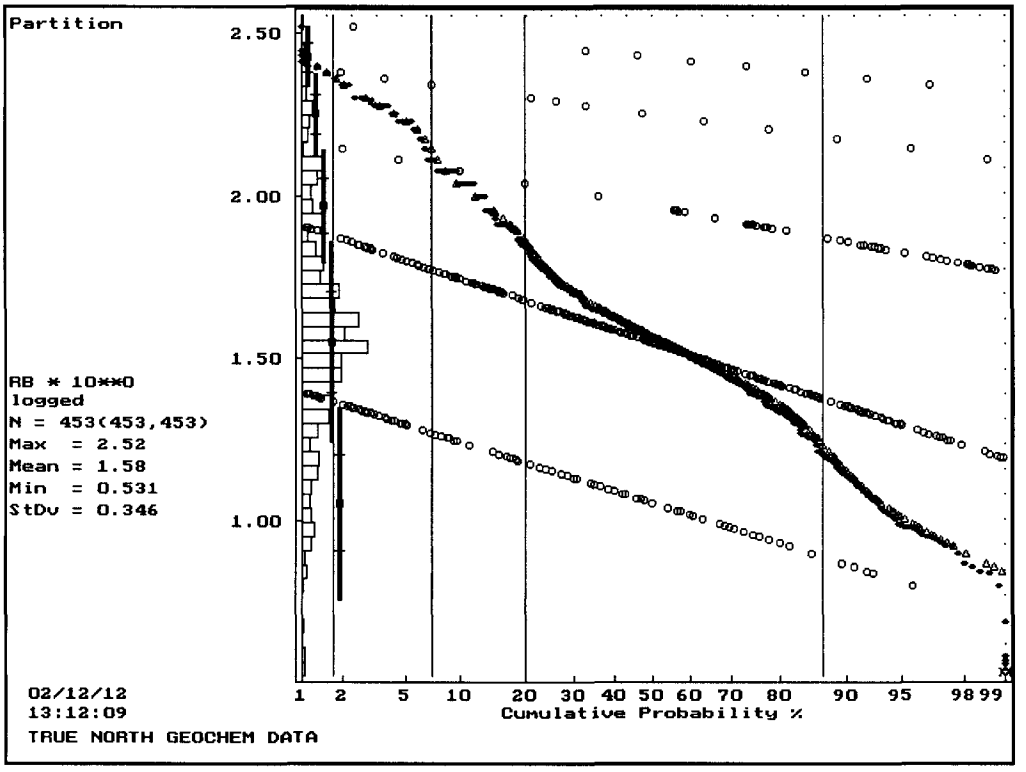


FIGURE 7 - Cumulative Frequency Plot for Sn

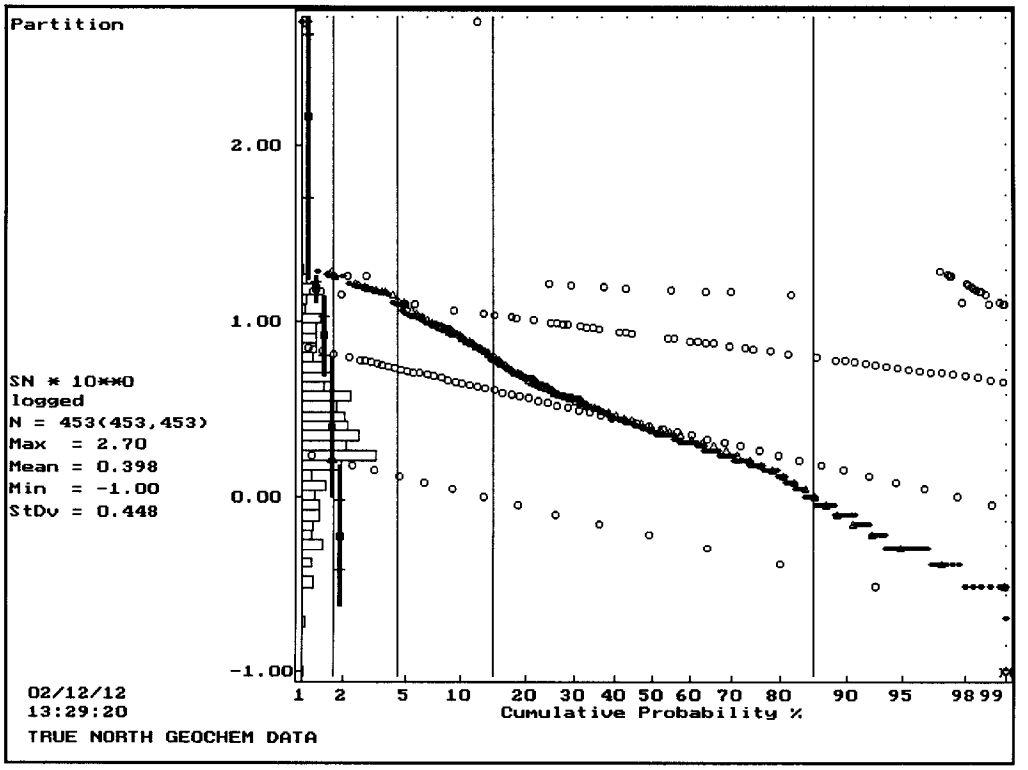


FIGURE 8 - Cumulative Frequency Plot for Tl

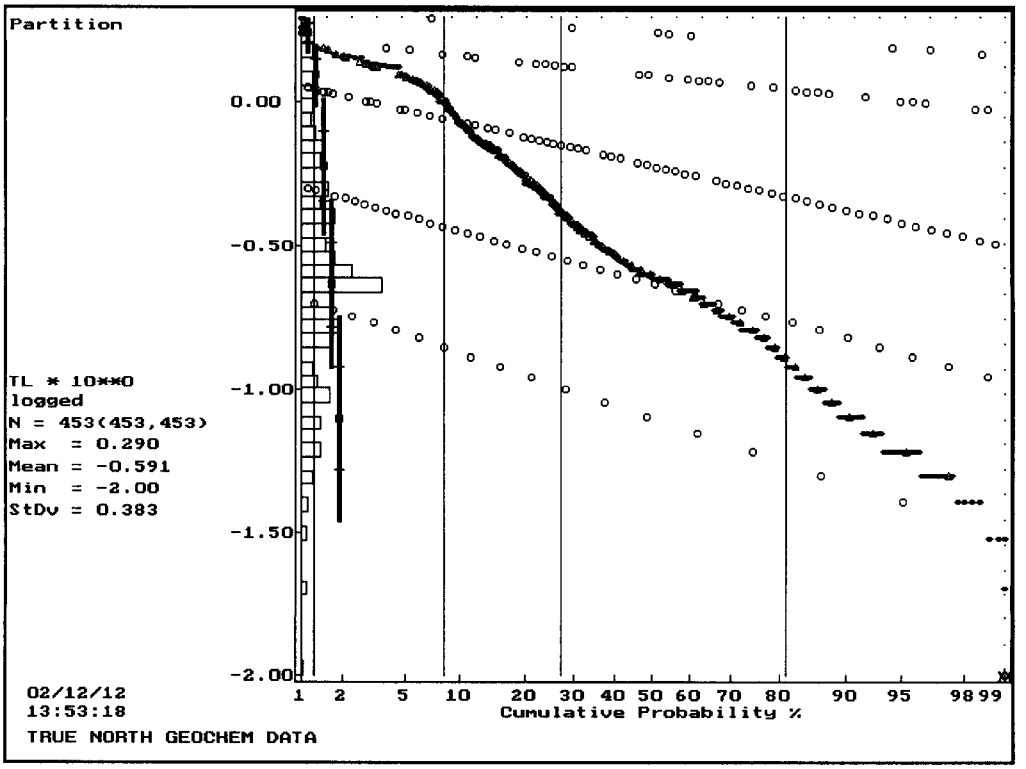
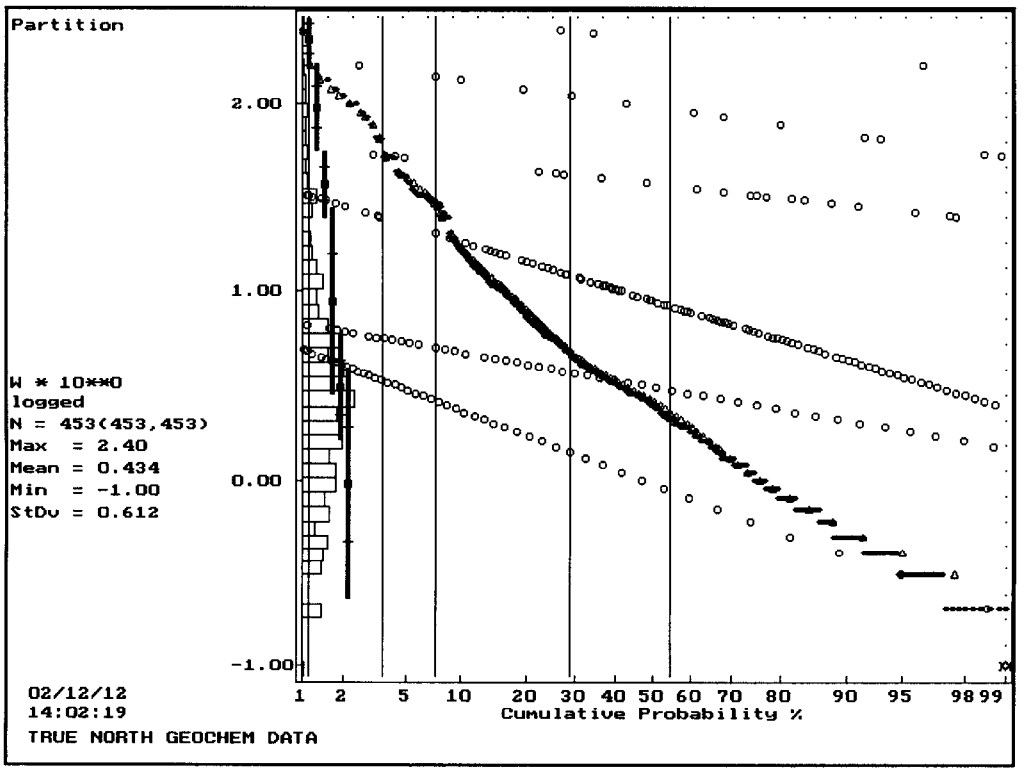
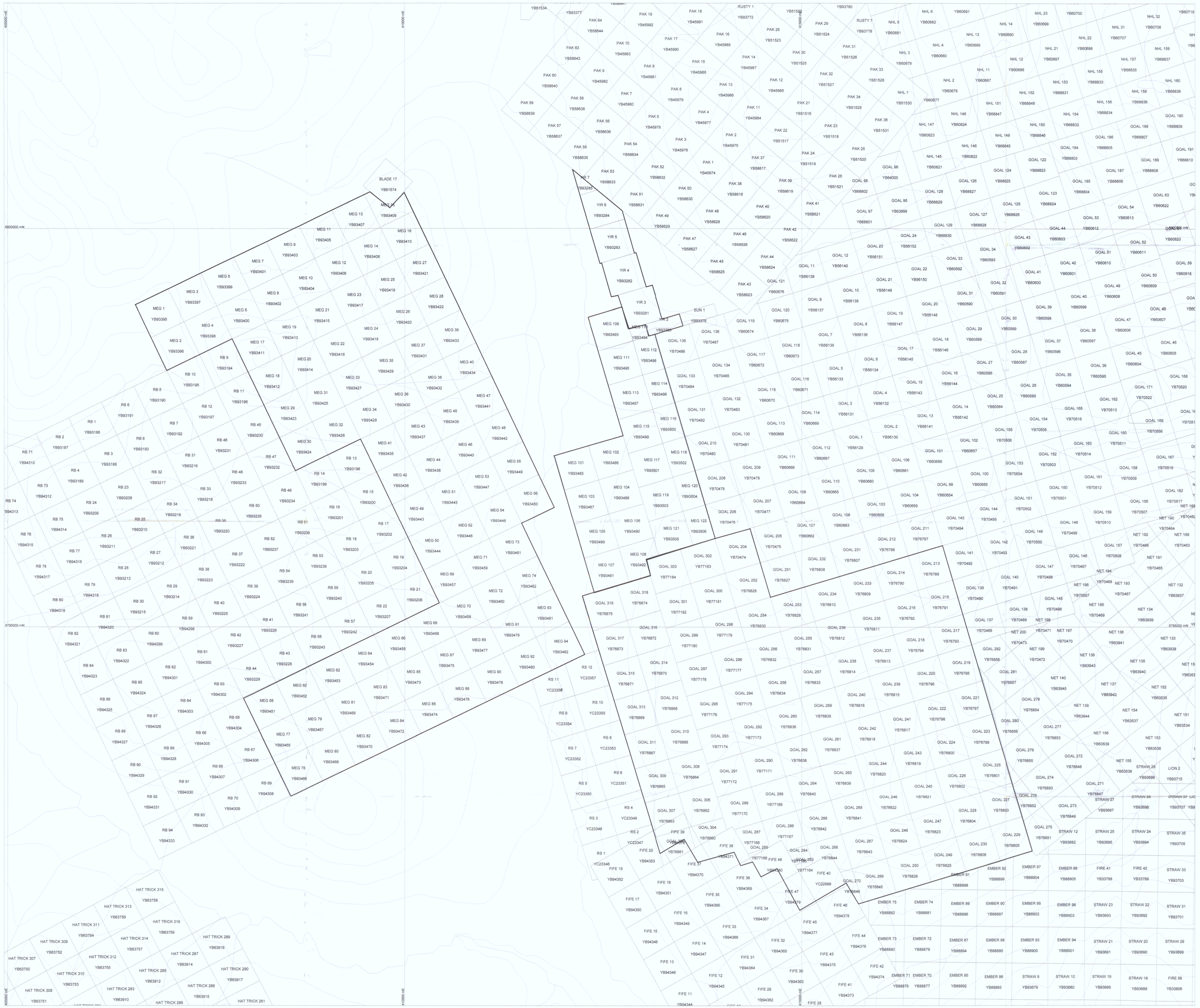


FIGURE 9 - Cumulative Frequency Plot for W




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6795000 mN
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MEG 25
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MEG 3
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MEG 33
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MEG 38
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RB 11
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MEG 36
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RECORDER
MINING LAND
YUKON TERRITORY
True North Gems
Regal Ridge Project
Surface Plan
GOAL, MEG, AND YIR
CLAIM LOCATIONS
Date:31/3/2004
Author: B. Pemberton
Office:
Drawing:
Scale: 1:15000
Projection: UTM Zone 9 (NAD 83)
250 0 250 500
metres

RECEIVED
July 7 2003
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WATSON LAKE
YT

McEvoy L.

Finlayson L.

WWN Claims

Sparkle Claims

Glitter Claims

Meg Claims

NORTH LAKE

Shine Claims

Regal Ridge

FIRE LA

Straw & Lion Claims

True North Gems, Inc.	
	FIGURE 2 Claim Location Map 2002
Date:24/6/2003	
Author: B.E. Geboury	
Office: Nanaimo	
Drawing:	
Scale: 1:200000	Projection: UTM Zone 8 (NAD 83)

0 2 4 8
kilometres