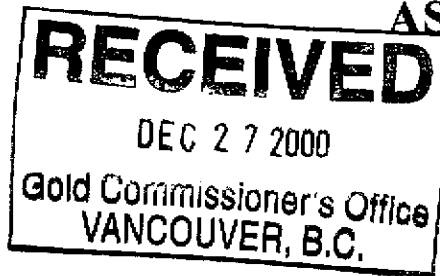


**GEOCHEMICAL & GEOLOGICAL
ASSESSMENT REPORT**



on the

GQ Property

Kamloops Mining Division, British Columbia

Field Work: September 24, 1999 to September 17, 2000

Claims: GQ 1-9, Anstey 1-7

Location:

- 45 Km Northwest of Revelstoke, B.C.
- NTS Map No. 082M/02W
- Latitude: 51° 08' North
- Longitude: 118° 47' West

Prepared By:

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W. Gruenwald, P. Geo.
GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT
December 19, 2000

26,423

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INTRODUCTION

General Statement:

In the fall of 1999, the GQ property was acquired while working under the B.C. Prospectors Assistance Program. Several new mineral occurrences with "intrusion related" gold geochemical signatures were found in an area recently opened up by logging activity. After the claim acquisition, a detailed program of prospecting and geochemical sampling was carried out until September 2000.

Location and Access:

The GQ property is centered approximately 45 kilometres west-northwest of Revelstoke and 16 kilometres southeast of the Community of Seymour Arm, B.C. (Figure 1) Geographic coordinates are 51°08' north latitude and 118° 47' west longitude on NTS Map No. 082M/02W.

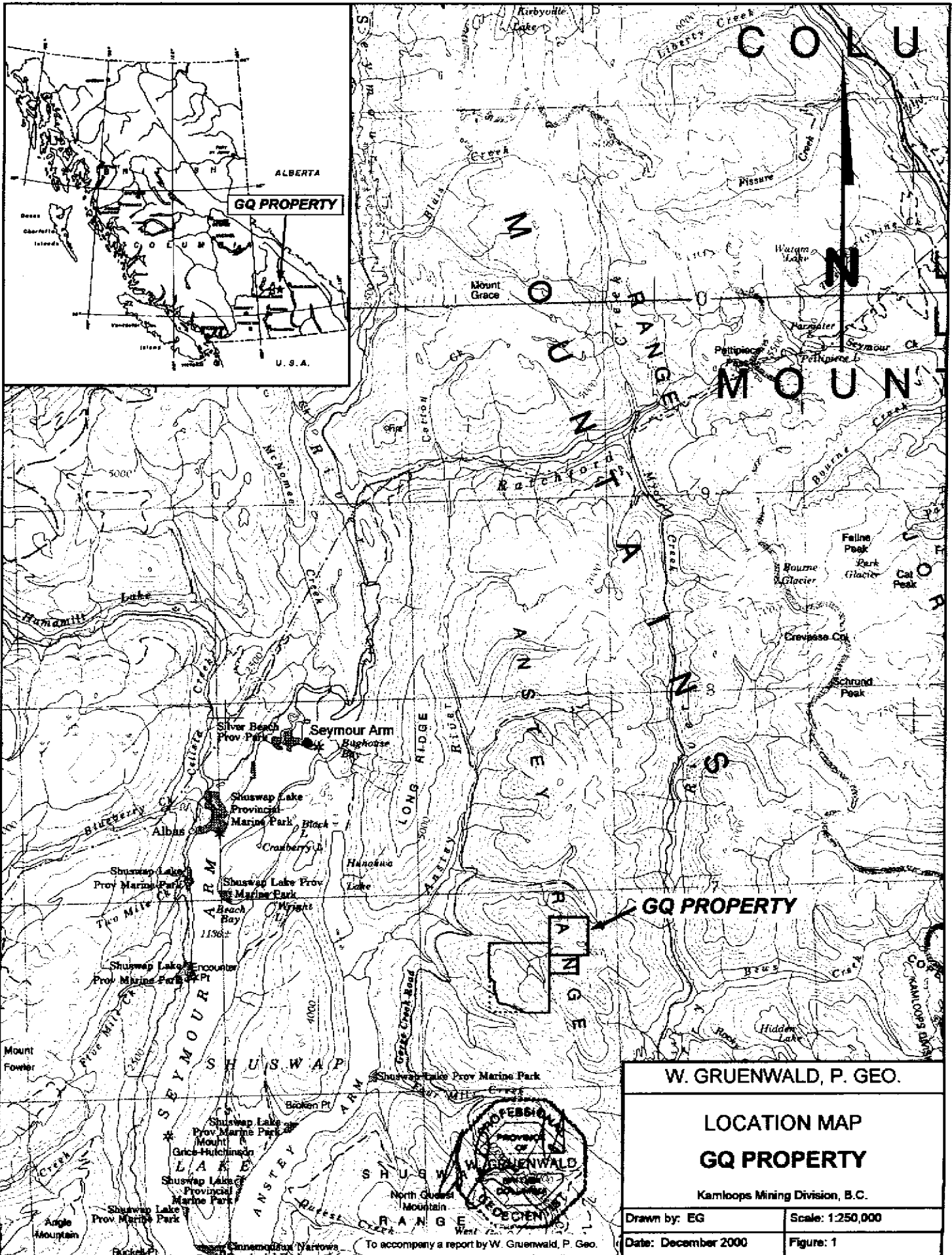
Access to the project area is via the Trans Canada Highway between Sicamous and Revelstoke near the Evans Forest Products mill. A major logging road along Craigallachie Creek and Anstey River (Gorge Creek road) provides access to the Anstey Range. The Second Creek logging road heads easterly from kilometre 36 and transects much of the property. Several spur roads constructed in 1998 provide additional access to the property (Figure 2). Logging roads along upper Third Creek provide access to the northeastern portion of the property.

Physiography:

The GQ property is situated in rugged terrain of the Anstey Range along the west flank of the Monashee Mountains. Glaciation has been extensive resulting in deeply incised drainages. Second Creek, the largest on the property, flows westerly into the Anstey River. Numerous smaller creeks feed into Second Creek and Third Creek in the northeast. The eastern portion of the property straddles the height of land between Second and Third Creeks. The majority of the property slopes moderately to steeply to the north or south. Topographic elevations range from 1400metres at the northwest corner of the property to 2395 metres near the eastern claim boundary. Two remnant snowfields are found on steep northerly slopes in the eastern portion of the property

Climate and Vegetation:

The Monashee Mountain Range is characterized by temperate climate and moderately high annual precipitation. Winter snow packs of 3 to 5 metres are not uncommon at the higher elevations. The ample water supply supports a wide variety of coniferous and deciduous vegetation. Commercial stands of cedar, hemlock, fir and pine are found, usually below elevations of 1500 metres (5000 ft). At higher elevations, spruce and balsam predominate. Alpine areas are typically found above 1800 metres.



W. GRUENWALD, P. GEO.	
LOCATION MAP GQ PROPERTY	
Kamloops Mining Division, B.C.	
Drawn by: EG	Scale: 1:250,000
Date: December 2000	Figure: 1

To accompany a report by W. Gruenwald, P. Geo.

Claims:

At the commencement of the program there were no mineral claims in good standing in the project area. Discoveries made during the summer prompted the staking of several claims near the headwaters of Second and Third Creeks. Details of the claims are as follows:

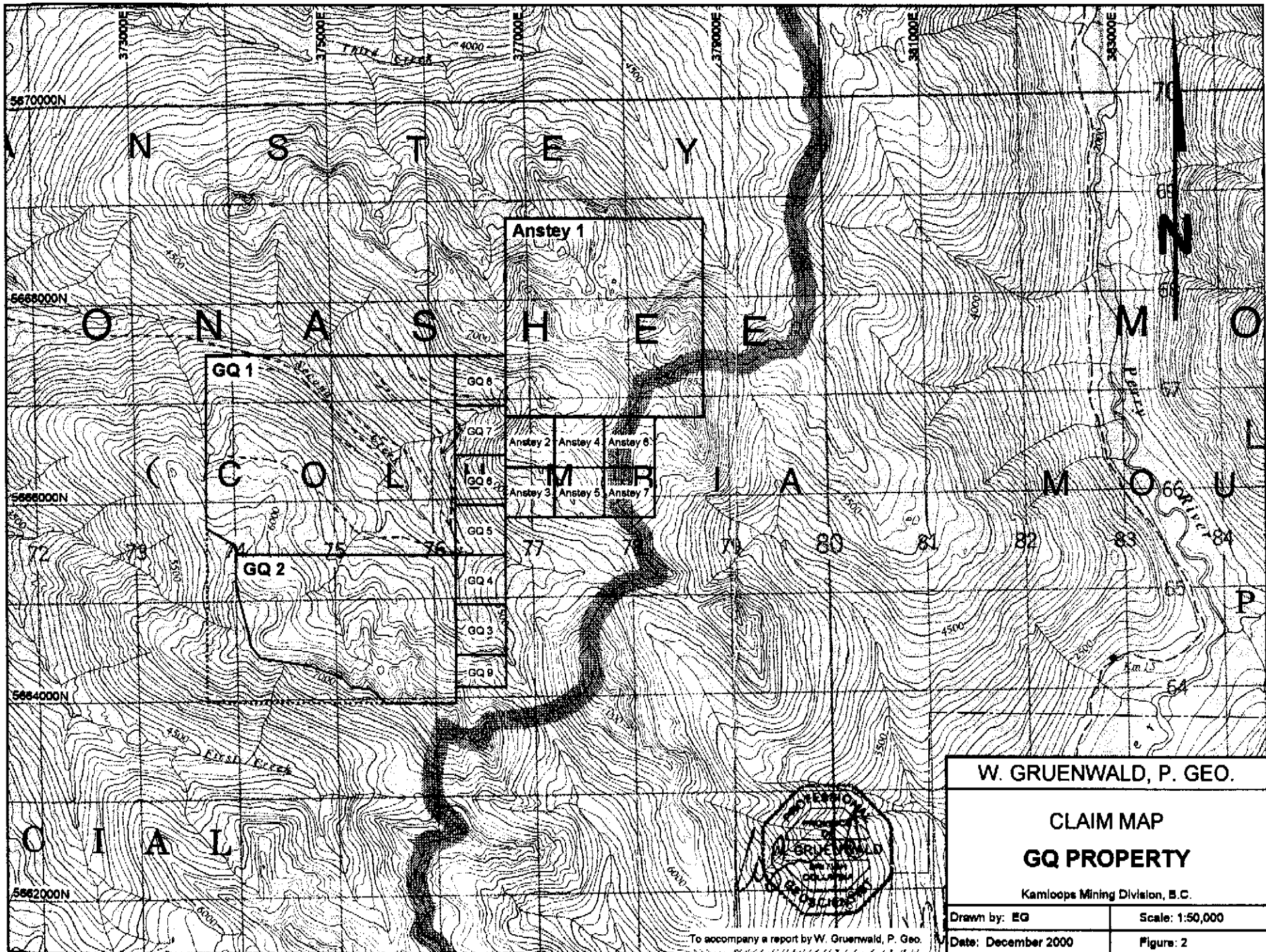
Claim Name	Tag No.	Record No.	No of Units	Expiry Date
GQ 1	215784	372096	20	Sep 23, 2002
GQ 2	215785	372097	15	Sep 22, 2002
GQ 3	684891	372098	1	Sep 21, 2002
GQ 4	689316	372099	1	Sep 21, 2002
GQ 5	689317	372100	1	Sep 22, 2002
GQ 6	684893	372101	1	Sep 23, 2002
GQ 7	684894	372102	1	Sep 23, 2002
GQ 8	684895	372103	1	Sep 23, 2002
GQ 9	684892	372143	1	Sep 21, 2002
Anstey 1	25883	372439	16	Oct 06, 2002
Anstey 2	689467	380094	1	Aug 23, 2002
Anstey 3	689468	380095	1	Aug 23, 2002
Anstey 4	689469	380096	1	Aug 23, 2002
Anstey 5	689420	380097	1	Aug 23, 2002
Anstey 6	689471	380098	1	Aug 23, 2002
Anstey 7	689472	380099	1	Aug 23, 2002

The claims are situated in the Kamloops Mining Division and are 100% owned by the writer. No private land is indicated within 14 km of the property. The irregular claim outlines in the southwestern corner of the property are a result of the claims having extended onto a temporary no staking reserve that was established around Hunakwa Lake

History:

Exploration work is documented primarily in the northern portion of the Anstey Range. Two carbonatite occurrences known as the Ren (Ce, La, Nb and Nd) were explored in 1983 by Duval Exploration and in 1989 by Teck Exploration. Teck Exploration conducted the most extensive work consisting of detailed soil, silt and rock sampling, as well as magnetic and radiometric surveys. A total of 745 metres of trenching were also completed. Although the mineralization was considered to be too low grade, there were recommendations to follow-up highly anomalous lanthanum values in a creek three kilometres to the southeast.

During August 1994, a Prospector's Assistance Grant was awarded to Mr. Terry Turner. The exploration target was stratabound lead-zinc mineralization similar to the Cottonbelt deposit on Mt. Grace north of Ratchford Creek. The work conducted by Mr. Turner straddled Ratchford Creek and covered the Ren carbonatite showing. A small lead-



**CLAIM MAP
GQ PROPERTY**

Kamloops Mining Division, B.C.

Drawn by: EG	Scale: 1:50,000
Date: December 2000	Figure: 2



To accompany a report by W. Gruenwald, P. Geo.

zinc mineralized zone was discovered along Ratchford Creek, but was not considered of economic interest. Mr. Turner recommended that "future exploration should be concentrated south of the project area".

In 1999, the writer was awarded a Prospectors Assistance Grant to explore a 300m² area northeast of Shuswap Lake. The Perry River project consisted of prospecting, stream and rock sampling in an area that had only recently become road accessible. The discovery of several new mineral occurrences prompted the acquisition of the GQ property.

REGIONAL GEOLOGY

The GQ property is situated within metamorphic, plutonic and sedimentary rocks of the Omineca Belt. The metamorphic, structural and intrusive history of these rocks is complex and spans a geologic time frame from Paleozoic to Eocene.

The Omineca Belt in southern British Columbia comprises metasedimentary rocks of the Windemere and Purcell Supergroups as well as Kootenay Terrane. Also present are metamorphic core complexes, the two most local being the Shuswap and Monashee complexes (Figure 3).

Two major structural features in the region are the Adams-North Thompson fault and the *Monashee Décollement*. The *Monashee Décollement* is described as a zone up to one km thick that represents a major west dipping contractional (thrust) structure. The footwall terrane known as the Monashee Complex is the deepest exposed structural level of the southern Omineca belt (Figure 4). The complex consists of an Early Proterozoic paragneiss core (Frenchman's Cap dome). These rocks were intruded by 2000 Ma granitoid plutons. Unconformably overlying the core rocks are stratified metamorphic rocks that include a basal quartzite conglomerate which in turn is covered by a thick succession of pelitic, psammitic and calc-silicate gneiss (2000 to 770 Ma). The metamorphism of the cover rocks is regarded to have occurred from Middle Jurassic to Paleocene.

The hangingwall of the *Monashee Décollement* are rocks of the Shuswap Metamorphic Complex (Selkirk Allochthon). This complex comprises a thick sequence of Late Proterozoic Windemere, Purcell and Kootenay terrane. It includes rocks of sedimentary, plutonic and volcanic origin predominantly within the sillimanite isograd. Lithologies include paragneiss, orthogneiss, quartz-mica schist and lesser amounts of marble, calc-silicate, and amphibolite. Abundant granitoid intrusions occur within the Shuswap Metamorphic Complex ranging from Devonian-Mississippian to Eocene in age (Figure 3). These rocks are thought to have formed during accretion and subduction of allochthonous oceanic terranes (Brandon and Smith, 1994). One such intrusion referred to as the Anstey pluton, forms a sheared metamorphosed elongate body situated along the western margins of the GQ property. Radiometric dating indicates a 92 to 94 Ma (mid Cretaceous) age.

LOCAL GEOLOGY

During the exploration on the GQ property, numerous outcroppings and float occurrences were examined and documented. Logging roads, clearcuts and ridge tops often provided excellent bedrock exposures. Overburden thickness beyond the valley bottoms is quite thin.

The lithologies observed are quite diverse with several metamorphic and intrusive rock types present. Mapping by various authors indicates that the *Monashee Décollement* trends northerly through the western portion of the project area (Figure 3). The lithologies observed on the property and surrounding area are summarized as follows:

Metamorphic Rocks:

Schist

- grey to red-brown, quartz-biotite ± muscovite ± garnet schist.
- well foliated and platy, to locally very contorted, folded, crumbly and weathered.

Gneiss

- white to grey, medium to coarse-grained, mottled biotite ± garnet gneiss.
- granitic gneiss not uncommon
- local boudinage structures, quartz ± feldspar "sweats".

Quartzite

- grey-green to purplish, fine-grained, often micaceous and platy impure quartzite.
- more commonly observed in Perry River drainage and height of land.

Marble

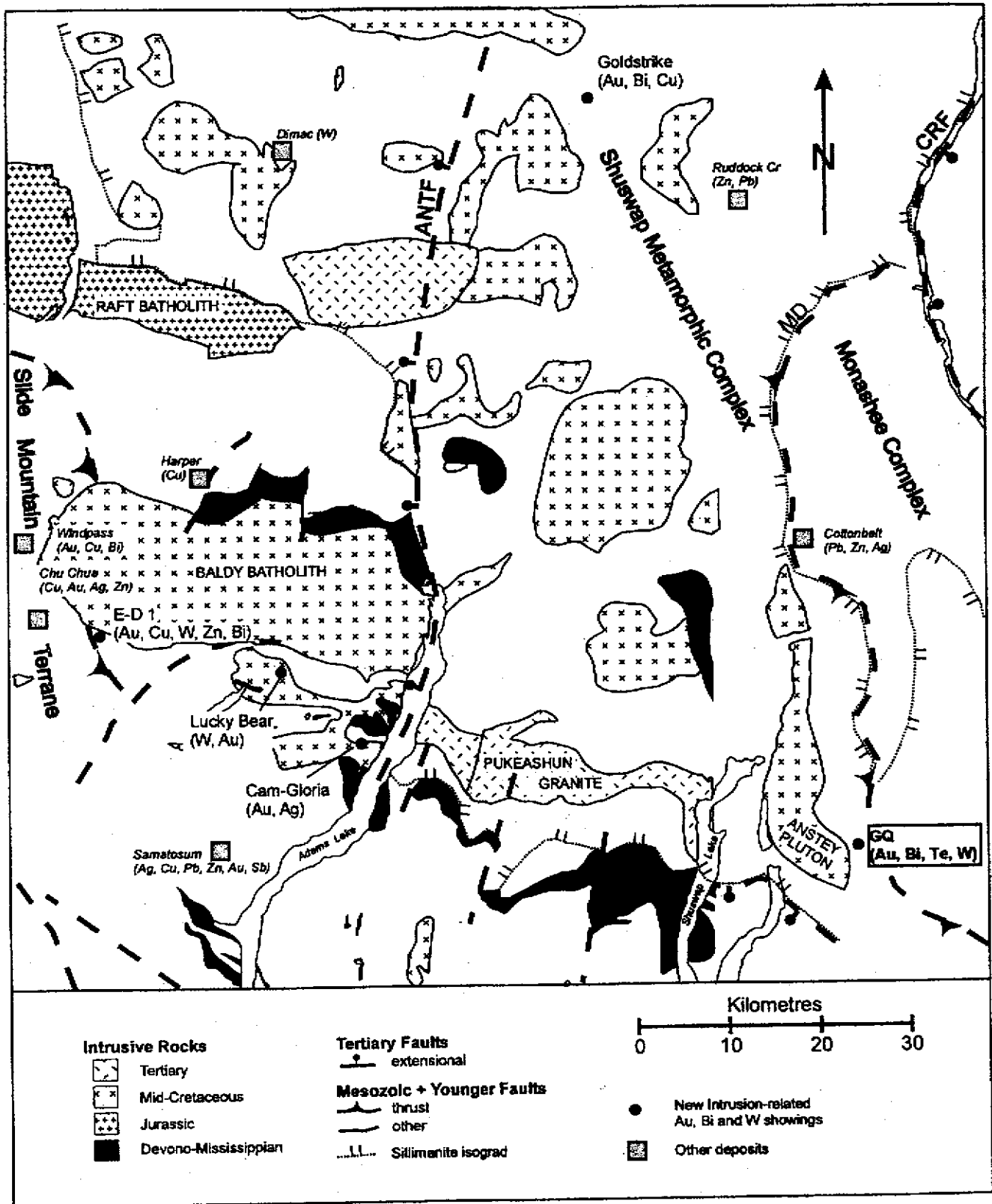
- white to grey-green, medium to coarse-grained bands <0.5 to 3.0 metres thick.
- intercalated with schist and gneiss.
- scattered throughout project area.
- locally contains flakes of graphite.

Calc-Silicate

- varicoloured, fine to medium-grained bands usually within schist and gneiss.
- may represent distinct units or thermally altered marbles or calcareous quartzites.

Amphibolite

- dark green to black, medium to coarse-grained bands up to several metres thick within schist or gneiss.
- locally garnetiferous.
- probably represents metamorphosed mafic rich beds in original sedimentary sequence.



Generalized geology of the Shuswap metamorphic complex and adjacent areas (modified after Wheeler and McFeely, 1991) showing locations of new intrusion-related gold prospects and granitoid intrusions. Adams-North Thompson fault (ANTF), Monashee decollement and Columbia River fault are after Parrish *et al.* (1986) and Johnson (1994). Sillimanite isograd is after Read *et al.* (1991)

Intrusive Rocks:

Granitoid Rocks (Anstey Pluton)

- white to grey, medium to coarse-grained intrusives usually with biotite as chief mafic mineral.
- quartz usually >10%, occasionally garnetiferous.
- most commonly observed in southwest region of GQ property.

Pegmatite

- white to pale grey, coarse-grained rock comprised of white Kspar, quartz and minor but coarse flakes of biotite and occasional muscovite/sericite.
- range from one cm to several tens of metres wide.
- occur as dykes and sills throughout the project area.
- tourmaline observed in Second Creek area along Spur "A" and "C"
- origin likely both metamorphic (anatectic) and as late stage emanations from granitoid bodies.

Mafic Dykes

- dark green, grey to brown, fine-grained, basaltic(?) rocks that cut all lithologies.
- range from <1 metre to 1.5 m+ metres wide and occasionally occur in clusters.
- most often strike north to north-northeast and dip steeply, occasionally intruded along faults.
- found in Second and Third Creeks area however extent is wider as evidenced by float in many creeks

Structure:

Numerous attitudes were measured, primarily focussing on schistosity, intrusive contacts and mineralized zones.

Although quite variable, the metamorphic fabric of the schists and gneisses generally strikes from 160° to 195° and dips from 40° to 60° westerly. Locally strong variations in schistosity noted. There is no evidence of any large scale fold structures.

Faulting and shearing were occasionally observed. Fault orientations range from 165° to 215° and dips are generally steep (65°+) to the west or east. Faults cut all lithologies and some show distinct dip-slip displacement. Along the south side of Second Creek clay gouge zones were observed in decomposing granite. The mafic dykes appear to have been emplaced along near vertical, and north trending faults.

Alteration:

By far the most common form of alteration observed was limonite staining. Weathering of the ubiquitous and finely disseminated pyrrhotite in schist and gneiss often discolours many of these rocks. Pegmatitic rocks were occasionally limonitic whereas the granitoid bodies seldom display any significant limonite staining. On occasion, sericitic alteration was observed in some pegmatites and granitic dykes.

Mineralization:

According to Minfile records, there are four mineral occurrences indicated in the Perry River project area (Figure 5). Situated just south of Ratchford Creek are two mineral occurrences known collectively as the *Ren* (Minfile #082M199). Rare earth (Ce, La, Nb, Nd) and base metal mineralization (Cu, Zn, Mo) is associated with north-northwest trending, concordant carbonatite sills and tuffs. Mapping by Journey (1983) indicates that the *Ren* carbonatite layer extends to the southeast, suggesting a potential source for the high lanthanum values in a creek.

Situated approximately 1.5 km and 5.5 km south-southeast of the *Ren* are two kyanite occurrences referred to as *Ratchford Creek* and *Chilly Lake*. The fourth mineral occurrence known as *Rip* (Minfile 082M027) is situated 8 km south of the Chilly Lake occurrence. Molybdenite is described as disseminations in nepheline and pegmatite dykes that intrude biotite gneiss and schist. There are no records of any mineral occurrences in the southern portion of the project area.

In 1999 while working on a Prospectors Assistance program, five new mineral occurrences were discovered along the new logging roads. These have been designated the "SW", "SE" and "NE" showings the latter being comprised of three proximal showings. The "SW", "SE" and one of the "NE" showings have a significant gold content. Mineralization occurs in sulphide rich zones in calc-silicate rock near or adjacent to pegmatitic bodies. Sulphides consist of disseminations to semi-massive pyrrhotite with minor chalcopyrite and locally significant scheelite. All showings display a peculiar "granular" appearance.

EXPLORATION WORK – 1999, 2000

The fieldwork on the GQ property took place between September 23, 1999 and September 17, 2000. Work consisted of stream sampling, prospecting and soil and rock sampling. Samples were marked with flagging and aluminum tags. Sample analytical data are found in Appendix C and plotted on a series of geochemical and geological maps.

Stream Sampling:

A major component of the GQ property exploration was stream sampling. Although the Anstey Range was sampled in 1975 by a Regional Geochemical survey, the sample density was low and in some areas substantial drainages such as Second Creek were never tested. Given the often subtle geochemical expression exhibited by intrusion related gold deposits, it was believed that small and quickly collected samples on a large drainage would not effectively detect upstream mineralization. The objective of the sampling program on the GQ property was to increase the sample density, test smaller drainages and collect a large silt sample and panned concentrate.

Stream sediments were collected from the active portions of drainages and sieved to $-3/8"$ to remove the coarse float. The coarse float was logged in the field to determine the lithologic components. The $-3/8"$ material was screened to -10 mesh and then to -40 mesh in order to provide approximately 500 grams of "fines" for the lab. Two full gold pans (12 to 15 kg) of $-3/8"$ material was reduced to produce a concentrate weighing 15 to 25 grams. This sample was saved in plastic film vials for examination and testing. Moss mat samples were derived from the washing of moss taken from the active portions of streams. A total of 53 stream silt, 46 panned concentrate and 3 moss mat samples

were collected from the property. All but 12 of the silt samples were collected after the property was staked however for completeness and interpretive purposes all sample data is presented in this report.

Prospecting:

Numerous logging roads provided bedrock exposures in the Second Creek valley. Heavily limonitic, sulphide rich or otherwise suspicious bedrock and float was examined and when necessary sampled for analysis. Representative hand specimens were often collected. These were cut and tested with a UV lamp. In specific areas "B" horizon soil was sampled along road cuts. A total of 46 rock and 30 soil samples were collected and submitted to ALS-Chemex Labs in North Vancouver for analysis. Locations for the rock and soil samples are shown on Figure 4. Detailed rock descriptions are contained in Appendix C.

Sample Analysis:

The stream sediment samples were analyzed for gold using Fire Assay and "Extended Atomic Absorption" allowing a lower detection limit of 1 ppb gold. In addition, a 41 element ICP and ICP-Mass Spectrometer analysis was conducted. A tri-acid leach was used to ensure near total digestion of critical elements such as antimony, beryllium, lanthanum and tungsten as well as providing indicators such as niobium, tantalum and tellurium. Appendix A contains geochemical data for all stream silt samples. The analysis for rock samples and was the same as for stream sediments. Analysis of the soils was for gold only or gold and ICP-Mass spectrometer. Rock and soil data is also contained in Appendix A.

After microscopic examination of the panned concentrates and a review of the 1999 field season analytical data, 16 concentrate samples from the GQ property were analyzed by Instrumental Neutron Activation Analysis (INAA). This method was chosen to determine the gold content without sub-sampling or sample destruction. Determined simultaneously were other elements such as silver, lanthanum, molybdenum, selenium, tantalum and tungsten. In 2000, another 6 selected panned concentrates were submitted to TSL Assayers in Vancouver for gold analysis.

Petrography:

In June 2000, Vancouver Petrographics conducted an analysis of two rock specimens collected in 1999. Samples SCS 10+25R and WP 032R both contained highly anomalous gold as well as bismuth, tellurium and tungsten and are approximately 1.4 kilometres apart. The complete report is contained in Appendix D.

RESULTS

The Perry River project work resulted in the discovery of several new mineral occurrences and stream anomalies. These discoveries prompted the staking of the GQ and Anstey claims near the headwaters of Second and Third Creeks.

Stream Sampling:

The 1999 and 2000 Perry River project yielded 15 samples containing ≥ 10 ppb gold. Nine of these anomalous samples occur on the GQ property (Figures 5 - 8). One anomalous area is in the northern part of the GQ 1 claim where the highest gold content was found in sample PRSL-61 (280 ppb Au). This sample is located uphill of a gold anomalous stream sample (PRSL-49). A follow-up sample (PR-94) collected a short distance upstream where the creek emanates from several springs contained only low gold.

South of Second Creek, stream sample PR-78 contained 44 ppb gold, 4.41 ppm bismuth and 1.25 ppm tellurium, the highest for this area. A sample upstream (PR-97) did not contain anomalous gold. A possible explanation is that the PR-78 anomaly is caused by mineralization situated downstream of PR-97. Evidence supporting this is highly gold, bismuth and tellurium mineralized float (SCD 10+99R) found along the road downstream of sample PR-78. In addition, the "SE" showing is situated uphill and 800 metres to the south-southeast. In this case the glacial transport of "SE" showing mineralization, an extension, or another zone entirely may be the mineralizing source. The three anomalous silt sites in this area of the property occur in a near north-south alignment and may reflect the lithologic trend.

In the eastern portion of the GQ 2 claim, stream sample PR-22 contained moderately anomalous gold (28 ppb). Sampling upstream identified a weakly gold anomalous stream (PR-46) with elevated bismuth and tungsten. Limonitic float (PR-46R) found nearby contained anomalous amounts of gold, bismuth, tellurium and very high amounts of tungsten. The source of this float is unknown but thought to emanate from steep terrain to the southwest.

The most anomalous stream samples on the property occur in the northeast corner of the Anstey 1 claim. Sample PR-41 contained among the highest content of gold, bismuth and tellurium encountered on the entire Perry River project. Detailed follow-up sampling on this and adjacent creeks revealed several anomalous upstream sites. Stream samples PR-85 and 88, both over one kilometre upstream of the PR-41 anomaly, did not contain any anomalous gold or indicator elements, suggesting a potential bedrock source between these two areas.

Panned Concentrates:

Analysis of panned concentrates yielded variable results. In some cases the gold content of a concentrate was greater than the corresponding silt. Examples included PR-41, 49, 50 and 102. On the other hand, some panned concentrates contained less gold than their silt counterpart such as PR-51, 61, and 78. Those concentrates analyzed by INAA displayed marked increases in elements such as chromium, nickel, rare earths and tungsten over their silt counterpart. This is mainly due to the high specific gravity of minerals such as monazite and scheelite.

Prospecting:

In the Second Creek valley, five new mineral occurrences were discovered along recently constructed logging roads (Figure 4). A common observation is that the mineralization occurs adjacent to or near pegmatite bodies some of which are in contact with marble, calc-silicate or schist. Mineralization consists of elongate lenses comprised of quartz, calc-silicates and fine-grained sulphides. The showings display an unusual "granular" texture with infillings of pyrrhotite and lesser amounts of chalcopyrite and scheelite. Sulphide content ranges from 10% to 30%.

These occurrences contain varying, but anomalous, amounts of gold, copper, bismuth, tellurium and tungsten. Spatially, the showings are found over an area in excess of 1.5 x 1.5 kilometres that straddles the upper reaches of Second Creek (Figure 5). One of the occurrences referred to as the "SW" showing is a 20 cm zone (WP 023) that contains 1580 ppb Au, 225 ppm Bi, 11.2 ppm Te and 33.6 ppm W. Approximately 1.5 km east-southeast, a 25 cm float boulder was found along the same road. Sample SCS 10+25R contains 2980 ppb Au, 156 ppm Bi, 502 ppm Cu, 16.45 ppm Te and 26.8 ppm W. This float is situated approximately 200 metres westerly of a bedrock occurrence referred to as the "SE" Showing (WP 025).

Northeast and across Second Creek valley are three showings one of which contains 1250 ppb gold across 0.3 metres (WP 032). Sampling in 2000 tested an area at least three metres into the footwall rocks of the WP 032. A 0.6 metre (true thickness) of rusty green calc-silicate with 5 to 10 % pyrrhotite contained 1980 ppb Au and anomalous Bi, Te and W. The northerly extension of this showing could not be observed as it dips beneath the adjacent gneiss and overburden. Based on lithologic trends it is speculated that this "NE" showing and the "SE" showing are related (Figure 4). This would suggest a strike length potential of at least 1.3 kilometres. The two other "NE" showings located 300 metres northeasterly contain little gold but high amounts of tungsten (8660 and 429 ppm). None of the above mentioned showings contain any appreciable amounts of arsenic or antimony.

During the 2000 program highly mineralized float was found in the western part of the property along Spur "A" and "B". Eight samples were found to contain anomalous amounts of gold, bismuth, tellurium and tungsten. Two of these contained over 3000 ppb gold. In many cases the float has a strong resemblance to the known showings. What is significant is that the float occurrences are several hundred metres "up-ice" of the nearest showing (i.e. WP 032). This would seem to indicate the presence of one or more undiscovered mineralized zones east and uphill of the roads. Another area of mineralized float is along Spur "D". Sample SCD 10+99 is a 0.60 m angular, and sulphide-rich calc-silicate boulder that contains 2600 ppb Au and anomalous bismuth, copper, tellurium and tungsten. This float is thought to emanate from a zone to the south and that is responsible for the PR 78 stream anomaly.

While working from a helicopter-supported camp in the eastern portion of the property, mineralization was found in bedrock and float. At sample site WP 241 a sulphide rich zone contains weakly anomalous gold and the usual indicator elements found in zones further west. Similar looking float (WP 243) found further north (uphill) indicates the presence of other similar zones along strike. Another float occurrence (PR 91R) found near the base camp was weakly anomalous for gold, bismuth and tellurium and contained a very anomalous 1100 ppm tungsten. This angular float consists of a greenish calc-silicate with 5%+ disseminated pyrrhotite.

Near the west boundary of the property a mineralized float boulder (WP 096) was discovered along the south flank of Second Creek near the NW corner of the GQ claims. The rock is very siliceous and contains a band of semi-massive pyrrhotite, 0.1% copper and 25 ppb gold. This rock does not resemble the road occurrences 1.5 km+ to the southeast.

The most unusual rock geochemistry on the property is associated with float that was found at 4+54 on Spur "D". This 15 cm piece of angular rusty, dark green crystalline float contains highly anomalous cerium, lanthanum, niobium, yttrium and phosphorus. Such a "rare earth" geochemical signature is very unusual for the area.

Soil Sampling:

Soil sampling was quite limited in scope, but did reveal some anomalous sites. The highest value for gold (SCS 8+00 - 130 ppb Au) is associated with very limonitic soil rubble. Sample WP 025S located 30 metres westerly contained 39 ppb Au and more anomalous bismuth and tellurium. Both samples likely reflect mineralization associated with the "SE" showing. Anomalous bismuth and tungsten occur westerly and sporadically from the SE showing for approximately 250 metres. On spur "A" at station 2+50, a soil collected from rusty till contained 105 ppb gold. Samples 25 metres either side of this sample did not contain any appreciable gold. Soil samples collected further along Spur "A" and "B" near the float occurrences were negative.

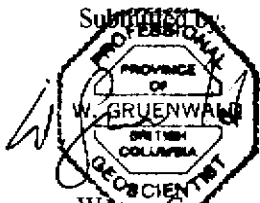
CONCLUSIONS AND RECOMMENDATIONS

The exploration of the GQ property resulted in the discovery of new mineral showings and anomalous drainages in an under-explored area of southern British Columbia. Five new showings and abundant mineralized float were discovered along recently constructed logging roads in Second Creek. Anomalous amounts of gold, bismuth, copper, tellurium and tungsten are associated with these occurrences – a geochemical suite similar to that observed with some intrusion related gold deposits.

All of the showings occur in metamorphic rocks that are proximal to intrusive rocks. The evidence of mineralized float “up-ice” of some of the bedrock showings, suggest as yet undiscovered mineralized zones. It is thought that some of these showings occur along specific stratigraphic horizons (i.e. calc-silicate) and extend for lengths in excess of 1.3 kilometres. The thickness of the mineralized zones range from 10 cm to several metres.

Follow-up sampling of an anomalous stream in Third Creek yielded other stream sites with elevated gold, bismuth, tellurium and tungsten. The source of these anomalies has not yet been determined.

Although this was a very limited exploration program, the discoveries made thus far and the geologic setting demonstrate the potential for intrusion related gold deposits. Further exploration of the Second and Third Creek valleys is warranted and should include detailed geochemical sampling, prospecting and mapping. Geophysical surveys (i.e. magnetic) could be employed to test known mineralized zones.



Walter Gruenwald, P. Geo.

December 19, 2000

APPENDIX A

ANALYTICAL DATA



ALS Chemex

Aurora Laboratory Services Ltd.
 Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOQUEST CONSULTING LTD.

8055 ASPEN RD.
 VERNON, BC
 V1B 3M9

Project: PROJECT # 79
 Comments: ATTN: WARNER GRUENWALD

Page Number : 1-A
 Total Pages : 1
 Certificate Date: 03-NOV-2000
 Invoice No. : 10032319
 P.O. Number :
 Account : CYO

CERTIFICATE OF ANALYSIS A0032319

SAMPLE	PREP CODE	Al % (ICP)	Sb ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Cd ppm (ICP)	Ca % (ICP)	Ce ppm (ICP)	Cs ppm (ICP)	Cr ppm (ICP)	Co ppm (ICP)	Cu ppm (ICP)	Ga ppm (ICP)	Ge ppm (ICP)
PRSL-99 -150	244 --	5.58	0.3	510	2.80	0.99	0.14	4.04	>500	3.60	59	16.2	33	21.5	2.2
PRSL-100 -150	244 --	6.70	0.1	560	3.05	0.78	0.14	3.11	389	4.75	88	18.4	42	20.9	2.0
PRSL-101 -150	244 --	6.38	0.3	550	3.10	1.34	0.14	4.17	>500	3.10	70	15.8	31	20.9	2.3
PRSL-102 -150	244 --	6.90	0.3	600	2.95	1.05	0.16	4.01	492	4.35	86	19.2	51	21.2	2.0
PRSL-103 -150	244 --	6.63	0.3	530	2.55	0.74	0.18	3.68	452	3.80	88	19.8	50	20.6	2.0



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Aurora Laboratory Services Ltd.
 Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOQUEST CONSULTING LTD.

8055 ASPEN RD.
 VERNON, BC
 V1B 3M9

Project : PROJECT # 79
 Comments: ATTN: WARNER GRUENWALD

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 Invoice No. : I0032319
 P.O. Number :
 Account : CYO

CERTIFICATE OF ANALYSIS A0032319

SAMPLE	PREP CODE	Fe % (ICP)	La ppm (ICP)	Pb ppm (ICP)	Li ppm (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Ni ppm (ICP)	Nb ppm (ICP)	P ppm (ICP)	K % (ICP)	Rb ppm (ICP)	Ag ppm (ICP)	Na % (ICP)
PRSL-99 -150	244 --	3.74	339	23.5	29.0	1.82	795	1.6	28.4	18.8	1220	1.78	82.8	0.35	1.20
PRSL-100 -150	244 --	4.25	193.5	24.5	38.2	2.00	865	1.6	38.0	25.2	1190	1.94	99.6	0.55	1.42
PRSL-101 -150	244 --	4.21	399	24.5	25.6	2.11	995	1.6	27.2	37.8	1820	1.67	75.2	0.70	1.59
PRSL-102 -150	244 --	4.46	245	25.0	34.2	2.24	880	2.0	33.8	34.4	1530	2.03	95.4	0.65	1.72
PRSL-103 -150	244 --	4.42	225	21.0	28.2	2.12	925	2.2	36.6	24.6	1500	1.87	94.2	0.45	1.64



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8055 ASPEN RD.
 VERNON, BC
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Project: PROJECT # 79
 Comments: ATTN: WARNER GRUENWALD

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CERTIFICATE OF ANALYSIS A0032319

SAMPLE	PREP CODE	Sr ppm (ICP)	Ta ppm (ICP)	Te ppm (ICP)	Tl ppm (ICP)	Th ppm (ICP)	Ti % (ICP)	W ppm (ICP)	U ppm (ICP)	V ppm (ICP)	Y ppm (ICP)	Zn ppm (ICP)			
PRSL-99 -150	244 --	213	1.20	0.15	0.46	105.5	0.65	5.2	27.8	81	60.8	58			
PRSL-100 -150	244 --	213	1.70	0.15	0.58	55.6	0.58	15.8	14.4	105	39.9	84			
PRSL-101 -150	244 --	247	2.80	0.25	0.42	133.0	0.73	17.0	25.8	107	79.4	74			
PRSL-102 -150	244 --	246	1.85	0.10	0.56	84.6	0.65	6.0	19.6	114	52.3	80			
PRSL-103 -150	244 --	222	1.15	0.15	0.44	77.6	0.64	8.8	17.8	113	51.7	78			



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Project: PROJECT # 79
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 Certificate Date: 13-OCT-2000
 Invoice No. : 10030465
 P.O. Number :
 Account : CYO

CERTIFICATE OF ANALYSIS

A0030465

SAMPLE	PREP CODE	Au ppb EXT-AA	Al % (ICP)	Sb ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Cd ppm (ICP)	Ca % (ICP)	Ce ppm (ICP)	Cs ppm (ICP)	Cr ppm (ICP)	Co ppm (ICP)	Cu ppm (ICP)	Ga ppm (ICP)
PR-97R	205 226	3	5.88	0.2	170	2.10	1.19	0.12	5.63	78.2	2.65	158	18.2	92	16.2
PR-99R	205 226	7	8.53	0.1	130	5.70	4.80	0.16	10.45	102.0	4.00	96	46.6	301	23.8
WP-267R	205 226	< 2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SCA 9+40R	205 226	76	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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Project: PROJECT # 79
 Comments: ATTN: WARNER GRUENWALD

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 Certificate Date: 13-OCT-2000
 Invoice No. : I0030465
 P.O. Number :
 Account : CYO

CERTIFICATE OF ANALYSIS A0030465

SAMPLE	PREP CODE	Ge ppm (ICP)	Fe % (ICP)	La ppm (ICP)	Pb ppm (ICP)	Li ppm (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Ni ppm (ICP)	Nb ppm (ICP)	P ppm (ICP)	K % (ICP)	Rb ppm (ICP)	Ag ppm (ICP)
PR-97R	205 226	1.8	4.42	40.5	7.5	16.4	1.52	740	3.2	32.8	11.8	540	1.17	57.2	0.35
PR-99R	205 226	2.3	6.83	55.5	9.0	14.4	1.67	980	5.0	63.2	25.4	1350	0.47	25.4	0.95
WP-267R	205 226	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SCA 9+40R	205 226	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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Project : PROJECT # 79
 Comments: ATTN: WARNER GRUENWALD

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 Certificate Date: 13-OCT-2000
 Invoice No. : 10030465
 P.O. Number :
 Account : CYO

CERTIFICATE OF ANALYSIS A0030465

SAMPLE	PREP CODE		Na % (ICP)	Sr ppm (ICP)	Ta ppm (ICP)	Te ppm (ICP)	Tl ppm (ICP)	Th ppm (ICP)	Ti % (ICP)	W ppm (ICP)	U ppm (ICP)	V ppm (ICP)	Y ppm (ICP)	Zn ppm (ICP)		
PR-97R	205	226	0.98	362	0.65	0.15	0.24	6.8	0.45	2.1	3.0	104	30.5	62		
PR-99R	205	226	1.40	529	1.35	0.40	0.10	14.8	0.34	2.8	5.4	70	28.3	68		
WP-267R	205	226	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
SCA 9+40R	205	226	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		

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To: GEOQUEST CONSULTING LTD.

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Project: PROJECT # 79
 Comments: ATTN: WARNER GRUENWALD

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 Total Pages : 1
 Certificate Date: 12-OCT-2000
 Invoice No. : 10030463
 P.O. Number :
 Account : CYO

CERTIFICATE OF ANALYSIS	A0030463
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SAMPLE	PREP CODE	Au ppb EXT-AA									
PRSL-94 -80+150	201 --	-----									
PRSL-94 -150	216 --	3									
PRSL-95 -80+150	201 --	-----									
PRSL-95 -150	216 --	< 2									
PRSL-96 -80+150	201 --	-----									
PRSL-96 -150	216 --	< 2									
PRSL-97 -80+150	201 --	-----									
PRSL-97 -50	216 --	< 2									
PRSL-99 -80+150	201 --	-----									
PRSL-99 -50	216 --	18									
PRSL-100 -80+150	201 --	-----									
PRSL-100 -150	216 --	< 2									
PRSL-101 -80+150	201 --	-----									
PRSL-101 -150	216 --	190									
PRSL-102 -80+150	201 --	-----									
PRSL-102 -150	216 --	28									
PRSL-103 -80+150	201 --	-----									
PRSL-103 -150	216 --	2									

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Project: PROJECT # 79
 Comments: ATTN: WARNER GRUENWALD

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 Total Pages : 1
 Certificate Date: 18-SEP-2000
 Invoice No. : I0027715
 P.O. Number :
 Account : CYO

CERTIFICATE OF ANALYSIS A0027715

SAMPLE	PREP CODE	Au ppb EXT-AA	Al % (ICP)	Sb ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Cd ppm (ICP)	Ca % (ICP)	Ce ppm (ICP)	Cs ppm (ICP)	Cr ppm (ICP)	Co ppm (ICP)	Cu ppm (ICP)	Ga ppm (ICP)
PRSL-84 -80+150M	201 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PRSL-84 -150M	216 --	6	9.11	0.3	580	2.65	0.40	0.36	1.85	273	7.35	118	23.8	44	23.9
PRSL-85 -80+150M	201 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PRSL-85 -150M	216 --	< 1	6.75	< 0.1	560	2.25	0.18	0.14	2.04	>500	3.70	125	21.8	31	18.1
PRSL-86 -80+150M	201 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PRSL-86 -150M	216 --	15	7.88	0.4	470	2.65	1.25	0.54	2.33	223	6.95	64	23.4	65	21.5
PRSL-87 -80+150M	201 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PRSL-87 -150M	216 --	< 1	7.22	0.2	430	2.15	0.31	0.16	2.31	394	4.90	519	27.2	44	18.4
PRSL-88 -80+150M	201 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PRSL-88 -150M	216 --	1	7.22	0.5	510	2.50	0.66	0.08	5.30	288	4.85	60	13.4	85	19.7
PRSL-89 -80+150M	201 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PRSL-89 -150M	216 --	< 1	7.07	0.1	430	3.00	0.36	0.10	3.77	287	4.85	68	15.0	40	17.5
PRSL-90 -80+150M	201 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PRSL-90 -150M	216 --	8	7.48	0.1	490	2.00	0.15	0.14	3.48	327	6.55	236	19.6	21	19.5
PRSL-91 -80+150M	201 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PRSL-91 -150M	216 --	< 1	7.34	0.1	390	1.55	0.21	0.12	4.27	495	5.20	101	17.4	14	19.3
PRSL-92 -80+150M	201 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PRSL-92 -150M	216 --	< 1	7.28	0.1	570	1.80	0.17	0.10	3.12	443	6.50	88	17.0	13	20.6
PRSL-93 -80+150M	201 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PRSL-93 -150M	216 --	< 1	7.82	0.1	610	2.80	0.21	0.10	1.79	>500	6.85	124	15.6	24	23.2

CERTIFICATION: *John [Signature]*



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 Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
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 PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOQUEST CONSULTING LTD.

8055 ASPEN RD.
 VERNON, BC
 V1B 3M9

Project: PROJECT # 79
 Comments: ATTN: WARNER GRUENWALD

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 P.O. Number :
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CERTIFICATE OF ANALYSIS A0027715

SAMPLE	PREP CODE	Ge ppm (ICP)	Fe % (ICP)	La ppm (ICP)	Pb ppm (ICP)	Li ppm (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Ni ppm (ICP)	Nb ppm (ICP)	P ppm (ICP)	K % (ICP)	Rb ppm (ICP)	Ag ppm (ICP)
PRSL-84 -80+150M	201 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PRSL-84 -150M	216 --	1.4	4.88	135.0	48.5	46.8	1.53	1345	3.2	55.1	25.4	1580	1.84	113.0	0.55
PRSL-85 -80+150M	201 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PRSL-85 -150M	216 --	1.5	3.56	213	29.5	28.2	1.56	925	1.6	43.6	24.0	890	1.95	97.6	0.20
PRSL-86 -80+150M	201 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PRSL-86 -150M	216 --	1.3	3.96	97.0	42.5	37.0	1.32	810	1.8	45.2	22.8	1780	1.66	80.0	0.45
PRSL-87 -80+150M	201 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PRSL-87 -150M	216 --	1.4	4.64	173.5	32.5	21.2	3.61	970	1.6	142.0	23.2	1350	1.64	73.2	0.30
PRSL-88 -80+150M	201 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PRSL-88 -150M	216 --	1.6	5.35	127.0	37.0	29.6	2.54	765	3.0	24.0	38.4	1650	1.94	83.8	0.45
PRSL-89 -80+150M	201 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PRSL-89 -150M	216 --	1.7	4.35	127.5	17.5	21.8	1.59	615	2.0	33.0	27.6	1170	1.87	79.8	0.20
PRSL-90 -80+150M	201 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PRSL-90 -150M	216 --	1.2	5.16	137.0	21.0	42.8	3.10	1180	2.4	58.9	22.4	1110	1.32	68.6	0.25
PRSL-91 -80+150M	201 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PRSL-91 -150M	216 --	1.6	5.21	227	23.0	35.8	2.34	1270	2.2	25.8	25.4	1010	1.23	49.6	0.20
PRSL-92 -80+150M	201 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PRSL-92 -150M	216 --	1.4	4.65	203	17.5	56.2	1.95	1050	2.6	27.0	22.2	1240	1.44	62.0	0.30
PRSL-93 -80+150M	201 --	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PRSL-93 -150M	216 --	1.5	4.48	>500	24.5	35.6	1.51	750	5.0	29.4	24.0	1750	1.79	79.6	0.25

CERTIFICATION: *[Signature]*



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To: GEOQUEST CONSULTING LTD.

8055 ASPEN RD.
 VERNON, BC
 V1B 3M9

Project: PROJECT # 79
 Comments: ATTN: WARNER GRUENWALD

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CERTIFICATE OF ANALYSIS A0027713

SAMPLE	PREP CODE	Au ppb EXT-AA	Al % (ICP)	Sb ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Cd ppm (ICP)	Ca % (ICP)	Ce ppm (ICP)	Cs ppm (ICP)	Cr ppm (ICP)	Co ppm (ICP)	Cu ppm (ICP)	Ga ppm (ICP)
SCA 9+32R	205 226	7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SCB 7+84R	205 226	19	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SCB 7+94R	205 226	78	8.73	0.1	130	2.90	2.34	< 0.02	7.64	193.0	0.85	128	21.6	236	27.6
SCD 4+54R	205 226	2	3.03	0.2	60	7.20	0.78	0.10	10.05	>500	1.45	401	59.2	155	13.9
SCD 10+88R	205 226	8	6.31	< 0.1	310	1.75	2.01	0.04	5.11	143.0	3.45	136	15.6	61	18.2
SCS 11+50R	205 226	4	7.02	0.1	580	1.40	0.20	< 0.02	3.85	57.9	4.40	195	17.4	65	14.6
PR-84R	205 226	3	7.49	0.1	240	2.80	1.28	< 0.02	6.94	81.9	1.80	156	10.4	76	20.1
PR-91R	205 226	15	7.54	0.1	170	23.8	1.77	0.10	10.20	59.8	1.60	150	42.6	221	29.2
WP 231R	205 226	39	6.38	0.2	60	2.20	1.10	0.14	7.18	40.8	1.85	87	26.8	646	17.9
WP 235R	205 226	13	5.21	0.3	140	1.85	1.23	0.14	10.15	68.6	2.25	52	38.6	235	20.6
WP 237AR	205 226	5	5.93	0.1	50	2.60	0.23	< 0.02	11.60	71.1	5.05	52	8.4	319	24.0
WP 240R	205 226	< 1	10.20	< 0.1	460	7.45	2.44	< 0.02	4.31	57.2	1.10	193	36.4	55	16.1
WP 241R	205 226	30	5.43	< 0.1	90	7.40	2.51	0.06	8.75	61.1	1.05	72	49.6	475	16.5
WP 243R	205 226	5	6.22	0.1	60	8.15	1.49	0.02	9.48	156.0	1.25	79	67.2	895	17.1

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CERTIFICATE OF ANALYSIS A0027713

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SCA 9+32R	205 226	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SCB 7+84R	205 226	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SCB 7+94R	205 226	1.4	3.48	90.5	4.5	10.4	0.80	475	1.8	10.8	24.8	560	0.25	10.2	0.35
SCD 4+54R	205 226	3.0	9.12	386	2.5	7.8	2.61	2050	3.2	74.2	148.5	4010	0.33	20.4	0.25
SCD 10+88R	205 226	1.7	3.67	66.5	11.0	23.0	1.51	465	1.8	20.2	40.8	410	2.63	101.0	0.20
SCS 11+50R	205 226	1.8	3.29	24.5	7.5	30.2	2.96	445	1.0	22.6	11.8	770	3.68	123.5	0.10
PR-84R	205 226	1.5	3.52	38.0	9.0	14.0	0.99	570	2.4	20.8	17.2	650	1.46	56.4	0.35
PR-91R	205 226	2.3	6.45	28.0	6.5	18.2	1.59	2420	6.8	43.8	32.6	550	0.83	22.0	1.10
WP 231R	205 226	1.5	12.75	16.0	4.5	14.6	1.41	805	3.0	21.2	20.4	2260	0.31	39.4	0.70
WP 235R	205 226	1.8	11.60	26.0	4.5	38.0	4.58	2280	4.2	37.2	26.2	2100	0.75	23.4	0.65
WP 237AR	205 226	1.4	9.29	38.0	20.5	20.4	3.76	1920	1.8	19.0	12.8	2480	0.57	108.0	0.20
WP 240R	205 226	2.4	3.28	27.5	6.5	18.4	1.47	235	1.8	17.4	32.8	350	2.18	15.2	0.85
WP 241R	205 226	2.4	12.80	31.0	7.0	17.6	1.66	1255	2.2	19.2	35.4	560	0.48	16.4	1.30
WP 243R	205 226	1.7	13.35	81.5	5.5	24.6	2.71	995	3.0	41.2	21.6	550	0.38	19.6	1.35

CERTIFICATION:



ALS Chemex

Aurora Laboratory Services Ltd.
 Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOQUEST CONSULTING LTD.

8055 ASPEN RD.
 VERNON, BC
 V1B 3M9

Project: PROJECT # 79
 Comments: ATTN: WARNER GRUENWALD

Page Number : 1-C
 Total Pages : 1
 Certificate Date: 18-SEP-2000
 Invoice No. : I0027713
 P.O. Number :
 Account : CYO

CERTIFICATE OF ANALYSIS A0027713

SAMPLE	PREP CODE	Na % (ICP)	Sr ppm (ICP)	Ta ppm (ICP)	Te ppm (ICP)	Tl ppm (ICP)	Th ppm (ICP)	Ti % (ICP)	W ppm (ICP)	U ppm (ICP)	V ppm (ICP)	Y ppm (ICP)	Zn ppm (ICP)		
SCA 9+32R	205 226	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
SCB 7+84R	205 226	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		
SCB 7+94R	205 226	0.83	555	1.45	0.45	0.02	40.0	0.23	1.8	7.0	30	23.9	44		
SCD 4+54R	205 226	0.32	127.0	1.40	0.20	0.12	159.0	0.61	4.0	11.2	144	101.0	126		
SCD 10+88R	205 226	1.07	433	1.65	0.25	0.40	31.4	0.52	1.8	2.8	83	27.2	74		
SCS 11+50R	205 226	1.51	164.0	0.60	0.05	0.50	7.2	0.53	3.9	1.4	103	24.7	50		
PR-84R	205 226	1.05	508	1.25	0.30	0.16	16.6	0.28	1.7	6.0	51	21.3	58		
PR-91R	205 226	1.07	408	2.40	0.65	0.14	9.2	0.35	1100	6.2	70	23.6	82		
WP 231R	205 226	0.63	381	1.30	0.35	0.16	3.2	0.29	16.4	2.6	82	31.2	64		
WP 235R	205 226	0.47	459	1.50	0.25	0.14	6.4	1.68	6.9	4.0	284	40.5	86		
WP 237AR	205 226	0.78	370	0.80	0.20	0.54	13.0	1.79	2.9	2.8	270	11.4	106		
WP 240R	205 226	1.61	424	2.75	0.85	0.06	12.2	0.28	131.0	4.4	69	16.8	62		
WP 241R	205 226	0.96	280	3.10	0.90	0.08	15.0	0.21	141.0	4.6	48	19.4	66		
WP 243R	205 226	0.92	440	0.80	0.90	0.06	14.0	0.28	3.8	6.8	74	21.6	54		

CERTIFICATION: *[Signature]*



ALS Chemex

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 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOQUEST CONSULTING LTD.

8055 ASPEN RD.
 VERNON, BC
 V1B 3M9

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 Total Pages : 1
 Certificate Date: 25-AUG-2000
 Invoice No. : I0026236
 P.O. Number :
 Account : CYO

Project : PROJECT # 79
 Comments: ATTN: WARNER GRUENWALD

CERTIFICATE OF ANALYSIS A0026236

SAMPLE	PREP CODE	Au ppb EXT-AA	Al % (ICP)	Sb ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Cd ppm (ICP)	Ca % (ICP)	Ce ppm (ICP)	Cs ppm (ICP)	Cr ppm (ICP)	Co ppm (ICP)	Cu ppm (ICP)	Ga ppm (ICP)	
PRM-62 -80+150	201	--	---	---	---	---	---	---	---	---	---	---	---	---	---	
PRM-62 -150M	216	--	< 2	6.36	0.3	650	2.30	0.22	0.16	2.22	>500	3.60	60	9.8	14	18.0
PRM-69 -80+150	201	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRM-69 -150M	216	--	5	7.76	0.2	570	3.90	0.97	0.38	2.72	224	4.55	42	11.0	26	19.8
PRSL-63 -80+150	201	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-63 -150M	216	--	3	7.77	0.1	560	3.20	0.31	0.18	2.44	>500	5.00	84	17.8	19	21.3
PRSL-64 -80+150	201	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-64 -150M	216	--	< 2	7.38	0.2	740	4.40	0.65	0.50	1.30	435	7.10	54	7.0	15	22.2
PRSL-64A -80+150	201	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-64A -150M	216	--	< 6	7.56	0.1	830	2.75	0.35	0.24	1.44	>500	3.90	50	7.2	4	23.5
PRSL-65 -80+150	201	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-65 -150M	216	--	< 2	7.71	0.1	680	2.80	0.22	0.14	1.69	>500	3.55	80	11.8	21	22.4
PRSL-66 -80+150	201	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-66 -150M	216	--	2	11.35	0.1	1310	2.35	0.27	0.10	2.07	>500	3.70	89	11.6	31	22.0
PRSL-67 -80+150	201	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-67 -150M	216	--	2	7.59	0.1	670	2.80	0.44	0.40	1.91	386	4.10	195	18.6	17	18.8
PRSL-68 -80+150	201	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-68 -150M	216	--	3	8.17	0.2	700	4.05	1.27	0.42	1.98	232	6.45	44	11.4	21	18.7
PRSL-70 -80+150	201	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-70 -150M	216	--	4	7.31	0.1	630	3.50	0.94	0.40	2.93	353	5.85	50	12.2	31	18.5
PRSL-71 -80+150	201	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-71 -150M	216	--	< 1	7.08	0.2	580	2.35	0.26	0.24	2.29	>500	3.90	38	11.4	7	20.3
PRSL-75 -80+150	201	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-75 -150M	216	--	3	9.66	0.1	690	2.05	0.31	0.12	1.21	427	5.30	172	20.8	20	27.0
PRSL-76 -80+150	201	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-76 -150M	216	--	< 1	7.80	0.1	750	2.75	0.77	0.10	1.69	74.5	3.75	81	11.8	20	20.8
PRSL-77 -80+150	201	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-77 -150M	216	--	5	6.83	0.1	830	2.65	0.61	0.14	1.84	>500	4.10	43	10.6	18	18.3
PRSL-78 -80+150	201	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-78 -150M	216	--	44	6.80	0.1	710	2.25	4.41	0.20	2.89	>500	3.15	158	15.0	18	18.6
PRSL-79 -80+150	201	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-79 -150M	216	--	3	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-80 -80+150	201	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-80 -150M	216	--	4	7.59	0.1	830	2.40	0.42	0.12	1.82	>500	5.65	91	15.0	21	22.7

CERTIFICATION:



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 212 Brooksbank Ave., North Vancouver
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To: GEOQUEST CONSULTING LTD.

8055 ASPEN RD.
 VERNON, BC
 V1B 3M9

Project: PROJECT # 79
 Comments: ATTN: WARNER GRUENWALD

Page Number : 1-B
 Total Pages : 1
 Certificate Date: 25-AUG-2000
 Invoice No. : I0026236
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 Account : CYO

CERTIFICATE OF ANALYSIS A0026236

SAMPLE	PREP CODE	Ge ppm (ICP)	Fe % (ICP)	La ppm (ICP)	Pb ppm (ICP)	Li ppm (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Ni ppm (ICP)	Nb ppm (ICP)	P ppm (ICP)	K % (ICP)	Rb ppm (ICP)	Ag ppm (ICP)
PRM-62 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRM-62 -150M	216	2.2	3.15	326	27.5	43.0	1.06	965	2.4	21.4	18.4	690	1.86	83.0	0.35
PRM-69 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRM-69 -150M	216	1.5	3.56	127.5	26.5	51.0	0.89	875	6.2	21.4	13.2	1150	2.13	77.4	0.35
PRSL-63 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-63 -150M	216	1.9	4.16	257	23.5	77.8	1.65	1075	2.4	29.4	21.4	860	1.71	90.6	0.40
PRSL-64 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-64 -150M	216	1.5	2.50	267	43.0	52.4	0.64	575	2.4	26.0	18.8	730	2.69	116.0	0.40
PRSL-64A -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-64A -150M	216	1.8	2.00	>500	41.0	36.4	0.73	750	1.2	16.4	23.0	1060	2.77	111.5	0.35
PRSL-65 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-65 -150M	216	1.8	3.24	425	22.5	40.0	1.06	805	1.2	38.8	27.6	1140	1.85	91.0	0.45
PRSL-66 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-66 -150M	216	1.8	4.95	364	29.5	58.4	1.35	1130	1.6	24.8	28.6	1150	3.51	119.0	0.40
PRSL-67 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-67 -150M	216	1.3	3.04	195.0	32.5	36.8	1.58	1120	3.6	50.7	19.4	940	1.96	73.4	0.40
PRSL-68 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-68 -150M	216	1.2	3.13	129.0	30.0	59.0	0.81	1045	3.6	30.2	14.8	1250	1.85	77.8	0.40
PRSL-70 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-70 -150M	216	1.6	3.47	191.0	28.0	63.2	1.66	830	2.0	39.2	20.6	1540	1.89	85.0	0.60
PRSL-71 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-71 -150M	216	1.7	3.00	314	25.0	48.8	1.62	1090	1.8	16.0	21.6	900	1.76	77.4	0.30
PRSL-75 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-75 -150M	216	1.5	4.22	222	21.0	45.4	1.87	795	2.0	65.0	18.2	870	2.54	134.5	0.25
PRSL-76 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-76 -150M	216	1.5	3.03	36.0	28.0	52.8	1.17	690	4.6	29.2	17.6	960	2.52	90.4	0.25
PRSL-77 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-77 -150M	216	1.5	2.74	275	35.0	50.2	1.40	565	1.8	23.0	18.6	1010	2.52	112.0	0.25
PRSL-78 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-78 -150M	216	1.8	3.36	387	25.5	45.4	2.50	915	1.6	48.0	22.4	1000	2.09	75.6	0.30
PRSL-79 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-79 -150M	216	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-80 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRSL-80 -150M	216	1.8	4.05	308	29.0	43.6	1.39	830	2.4	30.2	27.4	700	2.33	119.0	0.35

CERTIFICATION:



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 212 Brooksbank Ave., North Vancouver
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To: GEOQUEST CONSULTING LTD.

8055 ASPEN RD.
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 V1B 3M9

Project: PROJECT # 79
 Comments: ATTN: WARNER GRUENWALD

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CERTIFICATE OF ANALYSIS A0026236

SAMPLE	PREP CODE	Na % (ICP)	Sr ppm (ICP)	Ta ppm (ICP)	Te ppm (ICP)	Tl ppm (ICP)	Th ppm (ICP)	Ti % (ICP)	W ppm (ICP)	U ppm (ICP)	V ppm (ICP)	Y ppm (ICP)	Zn ppm (ICP)		
PRM-62 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---		
PRM-62 -150M	216	1.68	250	1.10	< 0.05	0.38	121.0	0.54	1.5	22.0	77	62.7	58		
PRM-69 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---		
PRM-69 -150M	216	1.39	373	0.90	< 0.05	0.48	47.8	0.39	2.2	24.8	73	36.0	124		
PRSL-63 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---		
PRSL-63 -150M	216	1.59	225	1.35	0.15	0.50	107.0	0.48	3.3	12.2	116	49.9	88		
PRSL-64 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---		
PRSL-64 -150M	216	1.91	262	1.25	< 0.05	0.60	93.6	0.36	1.9	16.8	51	42.9	84		
PRSL-64A -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---		
PRSL-64A -150M	216	2.28	333	1.50	0.10	0.54	307	0.43	9.2	17.0	46	62.5	68		
PRSL-65 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---		
PRSL-65 -150M	216	1.63	301	2.35	< 0.05	0.48	169.0	0.45	7.4	18.4	78	62.8	78		
PRSL-66 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---		
PRSL-66 -150M	216	2.74	231	1.50	0.15	0.52	152.0	0.63	2.4	15.8	107	55.1	110		
PRSL-67 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---		
PRSL-67 -150M	216	1.72	301	1.10	0.05	0.42	79.0	0.50	1.7	9.4	75	31.1	100		
PRSL-68 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---		
PRSL-68 -150M	216	1.52	353	1.10	0.05	0.48	46.8	0.45	2.8	28.2	69	31.5	150		
PRSL-70 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---		
PRSL-70 -150M	216	1.41	278	1.25	0.15	0.48	74.4	0.52	5.5	15.0	80	48.9	182		
PRSL-71 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---		
PRSL-71 -150M	216	1.94	314	1.85	0.05	0.44	121.0	0.59	20.6	16.4	74	52.1	114		
PRSL-75 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---		
PRSL-75 -150M	216	1.14	268	1.05	0.10	0.64	83.6	0.42	7.8	9.0	96	35.7	108		
PRSL-76 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---		
PRSL-76 -150M	216	2.09	256	1.10	0.15	0.50	14.6	0.33	11.5	16.8	62	17.8	78		
PRSL-77 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---		
PRSL-77 -150M	216	1.43	260	1.15	0.10	0.52	101.0	0.33	7.3	10.2	58	39.4	110		
PRSL-78 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---		
PRSL-78 -150M	216	1.49	290	1.05	1.25	0.44	150.0	0.43	6.7	12.4	71	55.0	122		
PRSL-79 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---		
PRSL-79 -150M	216	---	---	---	---	---	---	---	---	---	---	---	---		
PRSL-80 -80+150	201	---	---	---	---	---	---	---	---	---	---	---	---		
PRSL-80 -150M	216	1.72	275	1.45	0.05	0.54	141.0	0.53	4.6	11.8	101	45.3	90		

CERTIFICATION:



ALS Chemex

Aurora Laboratory Services Ltd.

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 VERNON, BC
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Project: PROJECT # 79
 Comments: ATTN: WARNER GRUENWALD

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 Account : CYO

CERTIFICATE OF ANALYSIS A0026072

SAMPLE	PREP CODE	Au ppb EXT-AA	Au ppb FA+AA	Al % (ICP)	Sb ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Cd ppm (ICP)	Ca % (ICP)	Ce ppm (ICP)	Cs ppm (ICP)	Cr ppm (ICP)	Co ppm (ICP)	Cu ppm (ICP)
SCA 2+84R	205 226	5	-----	8.04	0.2	1750	1.15	0.70	0.06	0.70	289	2.35	176	8.4	35
SCA 8+31R	205 226	>1000	3090	5.68	< 0.1	100	3.85	159.0	0.06	5.38	74.9	2.30	97	51.7	386
SCA 9+35R	205 226	3	-----	8.21	0.1	570	10.60	1.80	0.04	4.12	57.2	4.30	136	15.0	127
SCA 13+57R	205 226	6	-----	9.37	< 0.1	60	1.95	0.63	< 0.02	0.10	6.31	0.15	62	0.8	4
SCA 14+37R	205 226	< 1	-----	6.47	0.3	300	3.60	0.23	0.02	2.00	33.1	4.05	123	15.6	72
SCA 16+40R	205 226	< 1	-----	4.35	0.2	180	5.70	0.10	0.10	8.21	38.3	2.45	28	8.6	< 1
SCA 18+90R	205 226	< 1	-----	6.68	< 0.1	410	11.15	0.59	< 0.02	0.35	47.2	6.30	103	1.8	4
SCB 13+53R	205 226	>1000	1980	6.58	0.3	90	17.70	66.2	0.12	9.82	86.1	1.30	74	28.0	314
SCB 13+77R	205 226	3	-----	7.24	< 0.1	750	5.05	0.60	< 0.02	0.40	45.5	8.60	103	0.8	2
SCB 14+89R	205 226	4	-----	6.62	0.2	280	2.60	0.46	0.08	7.51	97.6	1.85	127	17.0	37
SCC 20+03R	205 226	< 1	-----	6.29	< 0.1	1460	1.25	0.17	< 0.02	1.09	113.5	3.75	146	3.2	21
SCD 6+70R	205 226	< 1	-----	5.24	0.4	470	1.70	0.25	0.06	4.08	80.6	2.45	164	12.4	32
SCD 7+05R	205 226	< 1	-----	1.61	< 0.1	60	0.75	0.04	< 0.02	0.66	13.00	1.95	192	3.6	19
SCD 7+10R	205 226	2	-----	5.96	0.6	40	3.00	1.13	0.06	3.11	100.0	6.70	113	96.8	348
SCD 10+82R	205 226	< 1	-----	5.11	0.1	220	1.75	0.31	0.02	3.66	84.2	2.30	153	20.2	50
SCD 10+99R	205 226	>1000	2600	4.37	< 0.1	60	2.35	43.9	0.08	7.61	67.8	2.40	54	81.2	734
SCD 11+12R	205 226	35	-----	6.53	< 0.1	130	2.40	1.81	0.08	3.53	116.0	3.05	143	46.0	228
SCD 13+88R	205 226	5	-----	3.84	< 0.1	1030	0.55	0.53	0.02	0.19	93.0	1.25	176	1.8	13
SCS 3+66R	205 226	< 1	-----	4.50	0.3	280	1.00	0.49	0.08	1.98	59.9	3.05	171	16.0	162
SCS 10+35R	205 226	3	-----	5.41	0.4	190	2.10	7.47	0.06	7.18	63.8	1.70	141	14.8	54
SCS 24+06R	205 226	< 1	-----	4.61	< 0.1	330	1.40	0.15	< 0.02	0.34	28.0	1.55	169	2.2	3
PR-64AR	205 226	< 1	-----	6.77	< 0.1	830	2.20	0.10	0.04	0.24	65.3	2.35	126	4.6	13

CERTIFICATION: *[Signature]*



ALS Chemex

Aurora Laboratory Services Ltd.
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 212 Brooksbank Ave., North Vancouver
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 PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOQUEST CONSULTING LTD.

8055 ASPEN RD.
 VERNON, BC
 V1B 3M9

Page Number : 1-B
 Total Pages : 1
 Certificate Date: 28-AUG-2000
 Invoice No. : 10026072
 P.O. Number :
 Account : CYO

Project : PROJECT # 79
 Comments: ATTN: WARNER GRUENWALD

CERTIFICATE OF ANALYSIS A0026072

SAMPLE	PREP CODE	Ga ppm (ICP)	Ge ppm (ICP)	Fe % (ICP)	La ppm (ICP)	Pb ppm (ICP)	Li ppm (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Ni ppm (ICP)	Nb ppm (ICP)	P ppm (ICP)	K % (ICP)	Rb ppm (ICP)
SCA 2+84R	205 226	18.2	1.0	1.64	129.0	32.0	19.8	0.31	200	4.2	9.8	15.2	180	3.01	91.2
SCA 8+31R	205 226	16.0	1.6	10.25	37.0	9.5	15.4	0.97	580	2.6	26.2	13.2	550	0.91	43.0
SCA 9+35R	205 226	28.8	2.1	2.86	27.5	13.0	25.4	0.66	285	3.2	18.4	20.6	1330	2.14	86.0
SCA 13+57R	205 226	26.7	0.3	0.34	2.0	16.0	3.0	0.03	45	0.2	1.4	6.8	< 10	0.21	8.0
SCA 14+37R	205 226	16.1	0.8	2.62	15.5	26.5	63.8	1.35	440	0.4	27.6	13.2	190	1.96	111.0
SCA 16+40R	205 226	16.4	3.5	3.30	17.0	2.5	16.2	6.56	1160	< 0.2	12.2	10.8	350	0.65	39.0
SCA 18+90R	205 226	21.3	1.5	0.40	21.5	38.0	17.4	0.09	115	0.2	3.2	48.0	80	3.38	176.5
SCB 13+53R	205 226	23.5	3.1	8.29	41.0	6.5	24.0	1.70	1210	1.2	35.4	38.4	850	0.38	20.2
SCB 13+77R	205 226	23.3	1.6	0.53	21.5	55.0	31.6	0.10	345	0.2	2.0	45.8	80	4.02	221
SCB 14+89R	205 226	18.8	2.0	3.20	45.5	8.5	10.6	1.56	835	1.2	30.6	28.4	720	1.44	64.4
SCC 20+03R	205 226	12.3	1.1	0.89	60.0	22.5	12.0	0.39	100	0.6	5.4	5.6	170	4.23	130.0
SCD 6+70R	205 226	14.6	1.8	2.70	39.0	11.0	18.8	1.38	515	2.6	21.2	16.4	430	2.11	77.4
SCD 7+05R	205 226	4.0	0.9	0.86	6.0	1.5	12.2	0.44	90	1.2	7.2	4.2	130	0.36	24.6
SCD 7+10R	205 226	23.5	1.3	9.62	45.5	4.5	57.6	1.62	880	11.8	136.5	25.0	1600	1.33	107.5
SCD 10+82R	205 226	14.7	1.7	3.34	39.0	8.0	23.0	1.88	970	1.2	31.2	14.4	520	1.70	68.0
SCD 10+99R	205 226	14.3	2.8	18.75	33.5	4.5	13.4	1.73	1255	2.4	16.8	12.4	1020	0.28	13.2
SCD 11+12R	205 226	20.1	1.6	5.79	58.5	21.5	22.0	1.12	455	10.6	109.5	21.6	360	2.51	116.5
SCD 13+88R	205 226	9.1	0.9	1.11	43.5	21.5	20.8	0.22	50	1.0	7.2	4.0	140	2.84	78.8
SCS 3+66R	205 226	11.3	0.9	3.15	27.0	13.0	35.4	2.18	220	4.4	30.0	5.6	240	2.67	92.6
SCS 10+35R	205 226	15.0	1.4	4.01	31.5	7.0	12.2	0.80	605	4.2	28.0	12.4	540	0.75	24.8
SCS 24+06R	205 226	9.3	0.8	0.71	13.5	25.5	15.4	0.06	140	0.6	5.0	8.4	40	2.09	75.0
PR-64AR	205 226	16.5	0.6	1.46	30.0	38.5	18.2	0.10	145	1.0	9.4	11.4	140	1.88	69.0

CERTIFICATION: _____



ALS Chemex

Aurora Laboratory Services Ltd.
 Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
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 PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOQUEST CONSULTING LTD.

8055 ASPEN RD.
 VERNON, BC
 V1B 3M9

Project: PROJECT # 79
 Comments: ATTN: WARNER GRUENWALD

Page Number : 1-C
 Total Pages : 1
 Certificate Date: 28-AUG-2000
 Invoice No. : I0026072
 P.O. Number :
 Account : CYO

CERTIFICATE OF ANALYSIS A0026072

SAMPLE	PREP CODE	Ag ppm (ICP)	Na % (ICP)	Sr ppm (ICP)	Ta ppm (ICP)	Te ppm (ICP)	Tl ppm (ICP)	Th ppm (ICP)	Ti % (ICP)	W ppm (ICP)	U ppm (ICP)	V ppm (ICP)	Y ppm (ICP)	Zn ppm (ICP)
SCA 2+84R	205 226	0.30	2.70	338	0.70	< 0.05	0.94	83.0	0.16	0.9	3.6	24	12.5	26
SCA 8+31R	205 226	1.35	0.79	427	0.80	16.80	0.22	17.0	0.20	14.8	4.8	62	15.9	50
SCA 9+35R	205 226	0.35	1.70	750	1.00	< 0.05	0.50	9.8	0.16	1.7	4.8	35	21.2	52
SCA 13+57R	205 226	0.05	8.62	135.0	0.60	< 0.05	0.04	< 0.2	0.02	0.2	3.8	4	2.7	2
SCA 14+37R	205 226	0.20	2.49	145.5	0.90	< 0.05	0.54	6.0	0.16	0.5	3.2	70	13.1	36
SCA 16+40R	205 226	0.15	2.05	132.0	0.55	< 0.05	0.18	6.4	0.11	0.3	2.0	31	20.6	120
SCA 18+90R	205 226	0.55	2.66	114.0	3.60	< 0.05	0.66	17.8	0.03	5.0	3.2	3	8.0	8
SCB 13+53R	205 226	1.35	0.96	745	1.55	5.05	0.08	14.0	0.28	58.6	6.2	73	27.9	128
SCB 13+77R	205 226	0.50	2.56	149.0	1.20	< 0.05	1.16	16.8	0.05	3.0	3.2	5	10.8	18
SCB 14+89R	205 226	0.45	0.58	573	1.50	< 0.05	0.28	13.8	0.43	2.5	3.4	81	34.1	74
SCC 20+03R	205 226	< 0.05	1.41	295	0.30	< 0.05	0.52	35.0	0.10	0.5	1.4	12	10.4	12
SCD 6+70R	205 226	0.25	0.73	316	0.85	< 0.05	0.32	14.0	0.37	1.1	2.2	68	20.3	64
SCD 7+05R	205 226	< 0.05	0.38	65.7	0.15	< 0.05	0.12	< 0.2	0.11	0.5	0.4	26	6.3	14
SCD 7+10R	205 226	0.50	1.27	167.0	1.50	0.40	0.60	13.0	1.39	1.5	6.4	277	33.3	84
SCD 10+82R	205 226	0.25	0.79	110.5	0.80	< 0.05	0.34	9.6	0.36	1.0	2.0	71	32.5	58
SCD 10+99R	205 226	1.45	0.46	269	0.70	6.45	0.06	10.2	0.22	39.4	3.8	79	15.0	76
SCD 11+12R	205 226	0.70	1.36	318	1.15	0.20	0.54	25.0	0.37	1.3	5.2	80	20.4	76
SCD 13+88R	205 226	0.10	0.90	150.5	0.15	< 0.05	0.38	25.8	0.11	0.4	1.6	12	6.1	22
SCS 3+66R	205 226	0.30	0.57	96.2	0.35	< 0.05	0.50	8.8	0.25	1.1	2.2	76	12.1	34
SCS 10+35R	205 226	0.45	0.72	618	0.75	0.15	0.10	13.2	0.21	2.2	3.4	46	14.3	86
SCS 24+06R	205 226	0.05	2.59	103.5	0.75	< 0.05	0.42	7.4	0.05	0.2	4.0	9	8.5	12
FR-64AR	205 226	0.15	2.46	198.5	0.75	< 0.05	0.70	15.4	0.15	0.5	3.2	27	8.6	38

CERTIFICATION: _____



ALS Chemex

Aurora Laboratory Services Ltd.
 Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
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To: GEOQUEST CONSULTING LTD.

8055 ASPEN RD.
 VERNON, BC
 V1B 3M9

Project: PROJECT # 79
 Comments: ATTN: WARNER GRUENWALD

Page Number : 1
 Total Pages : 1
 Certificate Date: 25-AUG-2000
 Invoice No. : 10026071
 P.O. Number :
 Account : CYO

CERTIFICATE OF ANALYSIS	A0026071
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SAMPLE	PREP CODE	Au ppb EXT-AA								
SCA 2+00	201 --	< 1								
SCA 2+75	201 --	< 1								
SCA 9+25	201 --	< 1								
SCA 9+50	201 --	4								
SCA 9+75	201 --	1								
SCB 8+00	201 --	4								
SCB 8+25	201 --	< 1								
SCD 3+00	201 --	< 1								
SCD 4+25	201 --	< 1								

CERTIFICATION:



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To: GEOQUEST CONSULTING LTD.

8055 ASPEN RD.
 VERNON, BC
 V1B 3M9

Project :
 Comments: ATTN: WARNER GRUENWALD

Page Number : 1-A
 Total Pages : 1
 Certificate Date : 28-JUL-2000
 Invoice No. : I0023798
 P.O. Number :
 Account : CYO

CERTIFICATE OF ANALYSIS A0023798

SAMPLE	PREP CODE	Au ppb EXT-AA	Al % (ICP)	Sb ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Cd ppm (ICP)	Ca % (ICP)	Ce ppm (ICP)	Cs ppm (ICP)	Cr ppm (ICP)	Co ppm (ICP)	Cu ppm (ICP)	Ga ppm (ICP)
PRSL-60	201 202	< 1	7.06	0.1	670	2.85	0.55	0.20	1.40	>500	5.45	84	13.4	22	22.3
PRSL-61	201 202	280	6.38	0.1	670	2.00	0.23	0.08	2.57	>500	2.95	47	12.8	16	19.2

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To: GEOQUEST CONSULTING LTD.

8055 ASPEN RD.
 VERNON, BC
 V1B 3M9

Project :
 Comments: ATTN: WARNER GRUENWALD

Page Number : 1-B
 Total Pages : 1
 Certificate Date: 28-JUL-2000
 Invoice No. : I0023798
 P.O. Number :
 Account : CYO

CERTIFICATE OF ANALYSIS A0023798

SAMPLE	PREP CODE	Ge ppm (ICP)	Fe % (ICP)	La ppm (ICP)	Pb ppm (ICP)	Li ppm (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Ni ppm (ICP)	Nb ppm (ICP)	P ppm (ICP)	K % (ICP)	Rb ppm (ICP)	Ag ppm (ICP)
PRSL-60	201 202	2.2	4.30	304	28.0	53.2	1.15	1220	2.0	29.4	18.6	620	2.21	102.0	0.40
PRSL-61	201 202	2.1	5.49	323	19.5	40.8	1.44	1370	1.0	16.6	14.2	1730	1.86	73.8	0.25

CERTIFICATION: _____



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8055 ASPEN RD.
 VERNON, BC
 V1B 3M9

Project :
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Page Number : 1-C
 Total Pages : 1
 Certificate Date: 28-JUL-2000
 Invoice No. : I0023798
 P.O. Number :
 Account : CYO

CERTIFICATE OF ANALYSIS A0023798

SAMPLE	PREP CODE	Na % (ICP)	Sr ppm (ICP)	Ta ppm (ICP)	Te ppm (ICP)	Tl ppm (ICP)	Th ppm (ICP)	Ti % (ICP)	W ppm (ICP)	U ppm (ICP)	V ppm (ICP)	Y ppm (ICP)	Zn ppm (ICP)		
PRSL-60	201 202	1.55	187.0	1.45	0.05	0.60	120.0	0.46	3.1	12.6	88	52.0	74		
PRSL-61	201 202	1.41	199.0	0.80	< 0.05	0.40	126.0	1.11	1.5	7.8	98	55.6	76		

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8055 ASPEN RD.
 VERNON, BC
 V1B 3M9

Project :
 Comments: ATTN: WARNER GRUENWALD

Page Number : 1-A
 Total Pages : 1
 Certificate Date : 28-JUL-2000
 Invoice No. : 10023795
 P.O. Number :
 Account : CYO

CERTIFICATE OF ANALYSIS A0023795

SAMPLE	PREP CODE	Au ppb EXT-AA	Al % (ICP)	Sb ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Cd ppm (ICP)	Ca % (ICP)	Ce ppm (ICP)	Cs ppm (ICP)	Cr ppm (ICP)	Co ppm (ICP)	Cu ppm (ICP)	Ga ppm (ICP)
SCA 2+50	201 202	105	7.81	0.6	670	2.75	0.58	0.12	0.89	161.0	5.85	58	13.4	30	23.6
SCA 3+00	201 202	3	7.67	0.1	760	2.20	0.69	0.04	1.22	165.5	3.60	44	6.4	22	17.4

CERTIFICATION: _____



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8055 ASPEN RD.
 VERNON, BC
 V1B 3M9

Project :
 Comments: ATTN: WARNER GRUENWALD

Page Number : 1-B
 Total Pages : 1
 Certificate Date : 28-JUL-2000
 Invoice No. : 10023795
 P.O. Number :
 Account : CYO

CERTIFICATE OF ANALYSIS A0023795

SAMPLE	PREP CODE	Ge ppm (ICP)	Fe % (ICP)	La ppm (ICP)	Pb ppm (ICP)	Li ppm (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Ni ppm (ICP)	Nb ppm (ICP)	P ppm (ICP)	K % (ICP)	Rb ppm (ICP)	Ag ppm (ICP)
SCA 2+50	201 202	1.3	4.03	58.0	32.0	52.2	0.90	455	6.6	22.8	18.6	740	2.38	116.5	0.45
SCA 3+00	201 202	1.4	2.79	59.5	28.5	27.8	0.74	210	6.8	12.6	11.0	550	2.96	106.5	0.35

CERTIFICATION: _____



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To: GEOQUEST CONSULTING LTD.

8055 ASPEN RD.
 VERNON, BC
 V1B 3M9

Project:
 Comments: ATTN: WARNER GRUENWALD

Page Number : 1-C
 Total Pages : 1
 Certificate Date: 28-JUL-2000
 Invoice No. : 10023795
 P.O. Number :
 Account : CYO

CERTIFICATE OF ANALYSIS A0023795

SAMPLE	PREP CODE	Na % (ICP)	Sr ppm (ICP)	Ta ppm (ICP)	Te ppm (ICP)	Tl ppm (ICP)	Tb ppm (ICP)	Ti % (ICP)	W ppm (ICP)	U ppm (ICP)	V ppm (ICP)	Y ppm (ICP)	Zn ppm (ICP)		
SCA 2+50	201 202	1.78	202	1.05	0.05	0.66	24.8	0.32	2.1	5.6	79	18.0	92		
SCA 3+00	201 202	1.77	216	0.70	0.05	0.64	27.2	0.21	1.6	5.4	47	17.2	48		

CERTIFICATION: _____



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To: GEOQUEST CONSULTING LTD.

8055 ASPEN RD.
 VERNON, BC
 V1B 3M9

Project :
 Comments: ATTN: WARNER GRUENWALD

Page Number : 1-A
 Total Pages : 1
 Certificate Date : 01-AUG-2000
 Invoice No. : 10023794
 P.O. Number :
 Account : CYO

CERTIFICATE OF ANALYSIS A0023794

SAMPLE	PREP CODE	Au ppb EXT-AA	Au ppb FA+AA	Al % (ICP)	Sb ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Cd ppm (ICP)	Ca % (ICP)	Ce ppm (ICP)	Cs ppm (ICP)	Cr ppm (ICP)	Co ppm (ICP)	Cu ppm (ICP)
SCA 6+12R	205 226	1	-----	7.90	< 0.1	350	3.50	0.05	0.04	1.71	26.8	1.30	220	1.6	3
SCB 8+12R	205 226	>1000	3490	6.80	0.1	150	2.80	80.1	0.12	7.89	68.6	0.40	201	22.0	366
SCB 8+59R	205 226	18	-----	5.71	0.1	50	6.00	2.68	0.10	7.86	68.9	1.15	334	21.6	134
SCB 9+04R	205 226	14	-----	9.94	0.1	50	8.80	3.75	0.08	8.58	224	1.05	92	62.2	601
SCB 9+63R	205 226	28	-----	10.75	0.1	80	27.6	0.71	0.14	12.35	262	5.20	105	29.8	314
SCB 11+90R	205 226	6	-----	7.81	0.3	530	4.25	0.84	0.08	10.25	76.5	4.05	184	13.2	41
SCB 14+89R	-- --	NotRed	-----	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
WP 196	205 226	< 1	-----	7.13	0.3	270	1.20	0.45	0.08	8.78	47.8	3.85	121	41.4	270

CERTIFICATION: 



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Page Number : 1-B
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 Certificate Date : 01-AUG-2000
 Invoice No. : I0023794
 P.O. Number :
 Account : CYO

Project :
 Comments: ATTN: WARNER GRUENWALD

CERTIFICATE OF ANALYSIS A0023794

SAMPLE	PREP CODE	Ga ppm (ICP)	Ge ppm (ICP)	Fe % (ICP)	La ppm (ICP)	Pb ppm (ICP)	Li ppm (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Ni ppm (ICP)	Nb ppm (ICP)	P ppm (ICP)	K % (ICP)	Rb ppm (ICP)
SCA 6+12R	205 226	18.3	0.9	0.49	16.5	28.0	15.0	0.06	85	1.8	4.4	2.0	90	1.55	42.4
SCB 8+12R	205 226	30.3	2.2	12.55	38.0	6.5	8.8	1.14	625	2.2	34.0	19.0	510	0.10	5.0
SCB 8+59R	205 226	17.3	2.3	4.24	37.0	4.0	9.0	1.47	1205	50.9	32.2	15.8	1300	0.25	17.8
SCB 9+04R	205 226	43.4	1.6	13.50	128.5	5.5	12.4	0.74	510	4.0	21.8	37.2	430	0.17	8.8
SCB 9+63R	205 226	36.5	2.2	6.73	157.0	12.0	33.4	0.90	1115	3.0	53.9	25.8	600	0.28	12.4
SCB 11+90R	205 226	21.8	2.2	4.07	44.0	11.0	18.4	1.51	1040	1.6	26.4	19.8	360	1.89	76.0
SCB 14+89R	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
WP 196	205 226	17.3	2.1	6.73	23.5	12.0	23.6	2.63	950	1.6	23.8	18.8	930	2.22	85.0

CERTIFICATION: 



ALS Chemex

Aurora Laboratory Services Ltd.
 Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOQUEST CONSULTING LTD.

8055 ASPEN RD.
 VERNON, BC
 V1B 3M9

Page Number : 1-C
 Total Pages : 1
 Certificate Date: 01-AUG-2000
 Invoice No. : 10023794
 P.O. Number :
 Account : CYO

Project :
 Comments: ATTN: WARNER GRUENWALD

CERTIFICATE OF ANALYSIS A0023794

SAMPLE	PREP CODE	Ag ppm (ICP)	Na % (ICP)	Sr ppm (ICP)	Ta ppm (ICP)	Te ppm (ICP)	Tl ppm (ICP)	Th ppm (ICP)	Ti % (ICP)	W ppm (ICP)	U ppm (ICP)	V ppm (ICP)	Y ppm (ICP)	Zn ppm (ICP)
SCA 6+12R	205 226	0.15	3.57	302	0.20	0.05	0.22	2.8	0.03	0.4	0.8	5	3.1	10
SCB 8+12R	205 226	1.70	0.47	515	1.30	10.80	0.06	10.6	0.29	23.4	5.0	65	18.5	52
SCB 8+59R	205 226	0.50	0.33	289	0.85	0.35	0.10	10.0	0.33	1340	4.6	97	52.6	42
SCB 9+04R	205 226	1.35	0.97	516	2.20	0.65	0.06	30.2	0.20	21.2	6.0	26	24.8	44
SCB 9+63R	205 226	0.85	1.70	668	0.80	0.20	0.08	35.4	0.17	11.0	6.8	40	16.1	188
SCB 11+90R	205 226	0.45	1.18	813	1.25	0.10	0.34	13.8	0.30	38.4	4.2	79	22.7	122
SCB 14+89R	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
WP 196	205 226	0.50	1.61	789	1.05	0.05	0.44	5.0	1.09	4.7	1.8	274	45.3	86

CERTIFICATION:



ALS Chemex

Aurora Laboratory Services Ltd.
 Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
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To: GEOQUEST CONSULTING LTD.

8055 ASPEN RD.
 VERNON, BC
 V1B 3M9

Project :
 Comments: ATTN: WARNER GRUENWALD

Page Number : 1-A
 Total Pages : 1
 Certificate Date: 26-JUN-2000
 Invoice No. : 10021240
 P.O. Number :
 Account : CYO

CERTIFICATE OF ANALYSIS A0021240

SAMPLE	PREP CODE	Al % (ICP)	Sb ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Cd ppm (ICP)	Ca % (ICP)	Ce ppm (ICP)	Cs ppm (ICP)	Cr ppm (ICP)	Co ppm (ICP)	Cu ppm (ICP)	Ga ppm (ICP)	Ge ppm (ICP)
SCS 7+50	244 --	7.23	0.1	940	3.00	1.06	0.26	1.21	167.0	4.80	45	16.0	25	20.0	1.2
SCS 7+75	244 --	8.95	< 0.1	420	5.40	0.90	0.36	2.76	125.5	5.70	62	43.8	96	20.8	1.2
SCS 8+00	244 --	8.37	0.2	480	3.00	1.92	0.52	3.09	165.0	6.15	51	34.0	65	22.8	1.3
SCS 8+50	244 --	9.43	< 0.1	430	4.60	1.96	0.24	2.05	146.5	6.55	69	42.6	78	22.0	1.2
SCS 8+75	244 --	7.98	0.1	1540	3.00	0.63	0.16	3.21	190.0	7.70	47	16.2	41	21.7	1.0
SCS 9+00	244 --	10.10	< 0.1	150	5.30	0.82	0.44	5.16	105.5	1.25	40	33.8	35	19.4	0.9
SCS 9+25	244 --	8.39	0.4	340	1.95	0.32	0.30	0.76	41.4	2.95	19	4.6	13	19.7	0.8
SCS 9+50	244 --	7.78	0.7	390	1.05	0.30	0.28	0.69	53.3	6.65	58	7.8	41	20.3	0.8
SCS 9+75	244 --	8.26	0.1	610	1.55	0.74	0.14	0.68	94.6	6.20	62	9.0	23	20.6	1.0
SCS 10+00	244 --	7.74	0.1	530	2.20	1.08	0.22	0.67	91.0	5.95	70	8.2	36	21.3	0.7
SCS 10+25	244 --	8.01	0.2	660	2.70	0.81	0.16	1.06	97.9	6.50	46	12.8	22	25.4	0.9
SCS 10+50	244 --	8.05	0.1	680	2.85	0.88	0.34	1.77	171.0	4.50	79	15.8	23	16.3	0.9
SCS 10+60	244 --	7.58	0.3	570	3.20	3.44	0.30	0.55	85.7	3.50	41	4.4	14	18.8	0.9
SCS 26+75	244 --	7.75	0.1	610	1.75	0.54	0.32	0.81	113.0	4.50	69	7.2	14	22.7	1.0
SCS 27+00	244 --	8.43	0.1	520	2.75	0.61	0.46	0.82	138.0	6.45	65	11.8	17	27.4	1.2
SCS 27+20	244 --	8.40	0.2	660	2.80	0.82	0.24	1.11	109.0	6.50	45	5.6	16	22.6	1.0
SCS 27+50	244 --	7.42	0.3	590	2.05	0.67	0.48	1.23	108.5	5.85	28	9.2	14	22.6	1.2
SCS 27+75	244 --	8.34	0.3	490	1.85	0.85	0.16	1.10	84.4	4.95	30	8.2	16	20.5	1.0
SCS 27+91	244 --	8.56	< 0.1	490	3.35	1.93	0.60	0.43	155.0	10.55	71	10.6	32	26.5	0.9

CERTIFICATION: _____



ALS Chemex

Aurora Laboratory Services Ltd.
 Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOQUEST CONSULTING LTD.

8055 ASPEN RD.
 VERNON, BC
 V1B 3M9

Page Number :1-B
 Total Pages :1
 Certificate Date: 26-JUN-2000
 Invoice No. :I0021240
 P.O. Number :
 Account :CYO

Project :
 Comments: ATTN: WARNER GRUENWALD

CERTIFICATE OF ANALYSIS A0021240

SAMPLE	PREP CODE	Fe % (ICP)	La ppm (ICP)	Pb ppm (ICP)	Li ppm (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Ni ppm (ICP)	Nb ppm (ICP)	P ppm (ICP)	K % (ICP)	Rb ppm (ICP)	Ag ppm (ICP)	Na % (ICP)
SCS 7+50	244 --	3.49	78.5	30.0	40.8	1.08	470	2.0	27.8	17.2	950	1.78	80.0	0.35	1.20
SCS 7+75	244 --	5.52	56.5	23.5	34.6	1.12	890	2.4	82.7	23.2	1250	1.21	59.6	0.45	0.96
SCS 8+00	244 --	5.64	76.0	29.5	27.6	0.86	1400	2.6	53.7	27.8	1130	1.28	61.2	0.55	1.02
SCS 8+50	244 --	6.66	78.0	20.5	46.6	1.20	660	8.0	92.0	13.6	1370	1.66	80.4	0.60	0.72
SCS 8+75	244 --	3.76	113.0	31.5	36.8	1.04	405	3.2	38.4	13.4	970	1.85	75.2	0.35	0.87
SCS 9+00	244 --	5.71	77.5	19.0	13.8	0.49	950	3.4	53.9	13.6	2650	0.57	22.6	0.80	0.62
SCS 9+25	244 --	2.72	20.5	15.0	18.6	0.25	275	2.0	7.2	7.0	750	0.94	30.0	0.30	1.53
SCS 9+50	244 --	4.62	28.0	19.0	23.0	0.45	440	5.8	8.6	11.8	1040	1.27	67.4	0.35	1.38
SCS 9+75	244 --	3.77	49.5	19.5	36.6	0.69	320	3.4	17.8	14.8	700	1.79	87.2	0.30	1.39
SCS 10+00	244 --	5.09	48.5	25.0	30.8	0.79	310	4.4	20.6	15.0	1050	1.65	84.4	0.25	0.83
SCS 10+25	244 --	3.72	50.5	27.0	40.6	0.68	495	6.4	20.0	13.6	730	1.80	79.4	0.25	1.74
SCS 10+50	244 --	3.55	74.5	28.5	54.8	0.96	605	4.6	42.6	12.2	1460	1.91	84.4	0.80	1.23
SCS 10+60	244 --	3.02	44.0	28.5	23.8	0.58	220	2.2	11.0	17.8	550	1.60	80.6	0.40	0.94
SCS 26+75	244 --	3.61	61.0	23.0	20.2	0.64	380	2.2	15.2	17.0	840	1.74	86.6	0.25	1.48
SCS 27+00	244 --	4.47	77.0	28.0	83.8	1.27	520	3.2	22.6	21.2	820	1.46	69.2	0.45	1.33
SCB 27+20	244 --	3.04	83.5	31.0	55.2	0.56	325	2.8	14.8	16.0	900	1.92	73.8	0.60	1.89
SCB 27+50	244 --	2.73	55.5	25.5	27.6	0.52	1610	5.6	10.0	13.6	930	1.77	69.6	0.45	2.18
SCB 27+75	244 --	2.64	45.0	22.5	28.8	0.52	730	3.0	9.6	11.4	870	1.50	62.2	0.40	1.98
SCB 27+91	244 --	5.39	71.5	29.5	65.2	0.90	255	5.2	39.8	19.6	610	1.90	94.2	0.25	1.03

CERTIFICATION: 



ALS Chemex

Aurora Laboratory Services Ltd.
 Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOQUEST CONSULTING LTD.

8055 ASPEN RD.
 VERNON, BC
 V1B 3M9

Page Number : 1-C
 Total Pages : 1
 Certificate Date: 26-JUN-2000
 Invoice No. : I0021240
 P.O. Number :
 Account : CYO

Project :
 Comments: ATTN: WARNER GRUENWALD

CERTIFICATE OF ANALYSIS A0021240

SAMPLE	PREP CODE	Sr ppm (ICP)	Ta ppm (ICP)	Te ppm (ICP)	Tl ppm (ICP)	Th ppm (ICP)	Ti % (ICP)	W ppm (ICP)	U ppm (ICP)	V ppm (ICP)	Y ppm (ICP)	Zn ppm (ICP)			
SCS 7+50	244 --	192.5	0.75	0.05	0.44	29.6	0.34	1.6	6.6	63	24.1	100			
SCS 7+75	244 --	284	1.35	0.15	0.40	21.4	0.48	6.6	5.8	83	30.1	86			
SCS 8+00	244 --	312	1.40	0.25	0.40	23.2	0.49	2.6	4.6	72	61.3	82			
SCS 8+50	244 --	278	0.65	0.15	0.46	24.4	0.34	3.2	18.8	78	54.1	92			
SCS 8+75	244 --	390	0.80	< 0.05	0.48	32.4	0.30	1.7	7.0	60	39.9	64			
SCS 9+00	244 --	798	0.80	0.05	0.18	16.6	0.35	2.3	20.0	62	53.4	74			
SCS 9+25	244 --	166.5	0.40	< 0.05	0.20	6.2	0.27	0.8	2.2	37	13.9	34			
SCS 9+50	244 --	153.5	0.55	< 0.05	0.40	9.2	0.38	1.1	4.0	69	11.1	46			
SCS 9+75	244 --	174.5	0.75	< 0.05	0.48	17.8	0.34	1.2	6.8	65	14.2	64			
SCS 10+00	244 --	141.5	0.75	0.05	0.44	20.8	0.33	1.4	5.8	70	12.7	68			
SCS 10+25	244 --	231	0.75	0.05	0.40	17.6	0.37	2.7	5.6	59	18.4	64			
SCS 10+50	244 --	289	0.60	< 0.05	0.46	25.0	0.24	1.9	24.6	57	22.7	88			
SCS 10+60	244 --	143.5	1.30	0.10	0.42	18.0	0.20	1.3	4.4	42	14.3	38			
SCS 26+75	244 --	213	0.75	0.05	0.40	21.0	0.45	1.1	2.6	91	13.1	58			
SCS 27+00	244 --	160.0	1.05	< 0.05	0.42	24.0	0.41	1.5	4.6	70	19.1	126			
SCS 27+20	244 --	250	0.80	< 0.05	0.44	21.8	0.38	1.7	8.2	57	21.3	86			
SCS 27+50	244 --	275	0.75	< 0.05	0.46	18.8	0.37	2.0	4.8	50	16.3	54			
SCS 27+75	244 --	233	0.55	< 0.05	0.34	16.0	0.34	1.2	4.0	52	14.3	58			
SCS 27+91	244 --	131.0	1.00	0.10	0.54	27.8	0.33	2.4	4.4	77	12.7	98			

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOQUEST CONSULTING LTD.

8055 ASPEN RD.
VERNON, BC
V1B 3M9

Project: 80
Comments: ATTN: WARNER GRUENWALD

Page Number :1-A
Total Pages :1
Certificate Date: 07-JAN-2000
Invoice No. :I9936520
P.O. Number :
Account :CYO

CERTIFICATE OF ANALYSIS A9936520

SAMPLE	PREP CODE	Au ppb EXT-AA	Al % (ICP)	Sb ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Cd ppm (ICP)	Ca % (ICP)	Ce ppm (ICP)	Cs ppm (ICP)	Cr ppm (ICP)	Co ppm (ICP)	Cu ppm (ICP)	Ga ppm (ICP)
SCS-2+90R	205 226	3	6.60	< 0.1	770	2.15	1.16	< 0.02	0.78	33.7	3.65	136	1.0	< 1	19.6
SCS-5+36R	205 226	< 1	6.40	< 0.1	410	6.25	0.41	0.16	7.19	94.2	2.35	117	23.2	84	17.7
SCS-27+00R	205 226	150	2.90	< 0.1	80	1.65	72.2	0.08	2.98	35.2	3.70	130	41.8	403	12.7

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOQUEST CONSULTING LTD.

8055 ASPEN RD.
 VERNON, BC
 V1B 3M9

Project: 80
 Comments: ATTN: WARNER GRUENWALD

Page Number : 1-B
 Total Pages : 1
 Certificate Date: 07-JAN-2000
 Invoice No. : 19936520
 P.O. Number :
 Account : CYO

CERTIFICATE OF ANALYSIS

A9936520

SAMPLE	PREP CODE	Ge ppm (ICP)	Fe % (ICP)	La ppm (ICP)	Pb ppm (ICP)	Li ppm (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Ni ppm (ICP)	Nb ppm (ICP)	P ppm (ICP)	K % (ICP)	Rb ppm (ICP)	Ag ppm (ICP)
SCS-2+90R	205 226	1.1	0.51	17.5	46.0	12.2	0.14	120	1.6	3.0	20.2	250	3.84	185.0	0.05
SCS-5+36R	205 226	1.5	3.64	47.0	10.5	7.6	1.46	725	6.0	46.8	16.8	510	1.24	60.0	0.35
SCS-27+00R	205 226	1.7	16.40	17.5	8.5	12.2	1.03	360	2.2	35.4	6.6	500	0.34	17.8	0.40

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOQUEST CONSULTING LTD.

8055 ASPEN RD.
 VERNON, BC
 V1B 3M9

Project: 80
 Comments: ATTN: WARNER GRUENWALD

Page Number : 1-C
 Total Pages : 1
 Certificate Date: 07-JAN-2000
 Invoice No. : 19936520
 P.O. Number :
 Account : CYO

CERTIFICATE OF ANALYSIS A9936520

SAMPLE	PREP CODE	Na % (ICP)	Sr ppm (ICP)	Ta ppm (ICP)	Te ppm (ICP)	Tl ppm (ICP)	Th ppm (ICP)	Ti % (ICP)	W ppm (ICP)	U ppm (ICP)	V ppm (ICP)	Y ppm (ICP)	Zn ppm (ICP)		
SCS-2+90R	205 226	1.79	186.5	1.55	< 0.05	0.88	8.8	0.05	6.3	22.2	5	7.7	10		
SCS-5+36R	205 226	0.67	531	1.70	0.05	0.22	20.8	0.26	2.4	5.6	57	20.5	80		
SCS-27+00R	205 226	0.46	177.0	0.35	3.05	0.16	7.2	0.17	1.2	2.2	30	8.6	32		

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOQUEST CONSULTING LTD.

8055 ASPEN RD.
VERNON, BC
V1B 3M9

Project: B0
Comments: ATTN: WARNER GRUENWALD

Page Number : 1
Total Pages : 1
Certificate Date: 05-JAN-2000
Invoice No. : 19936516
P.O. Number :
Account : CYO

CERTIFICATE OF ANALYSIS

A9936516

SAMPLE	PREP CODE	Au ppb EXT-AA																		
PR-SL-58	201 --	2																		
PR-SL-59	216 --	3																		

CERTIFICATION: _____

Sample description	AU PPB	AG PPM	AS PPM	BA PPM	BR PPM	CA %	CO PPM	CR PPM	CS PPM	FE %	HF PPM	HG PPM	IR PPB	MO PPM	NA %	NI PPM	RB PPM	SB PPM	SC PPM	SE PPM	SR %	TA PPM	TH PPM	U PPM
PR-PC 19	<5	<5	21	<200	<5	<2	18	71	<2	12.3	78	<5	<50	<20	1.08	710	<50	<0.2	79.7	<20	<0.2	<1	720	55.0
PR-PC 20	<5	<5	<2	1800	<5	<2	12	61	3	4.31	59	<5	<50	<20	1.46	<200	66	<0.2	21.9	<20	<0.2	9	347	24.9
PR-PC 21	<5	<5	9	1700	<5	<2	16	225	<2	8.72	40	<5	<50	<20	1.13	<200	80	<0.2	60.1	<20	<0.2	<1	342	28.1
PR-PC 22	26	<5	<2	<200	<5	<2	<5	78	<2	8.40	56	<5	<50	<20	0.97	<200	<50	<0.2	49.2	<20	<0.2	<1	590	30.7
PR-PC 40	<5	<5	2	770	<5	<2	17	112	<2	10.5	19	<5	<50	<20	0.68	<200	<50	0.5	18.3	<20	<0.2	7	48.0	9.2
PR-PC 41	300	<5	13	<200	<5	<2	16	75	<2	13.3	60	<5	<50	<20	0.45	<200	<50	<0.2	61.5	<20	<0.2	12	638	61.0
PR-PC 44	<5	<5	<2	980	<5	<2	20	340	<2	4.83	94	<5	<50	<20	1.35	<200	<50	<0.2	33.2	<20	<0.2	17	980	56.4
PR-PC 45	<5	<5	<2	810	<5	<2	27	613	<2	8.34	38	<5	<50	<20	0.97	<200	<50	<0.2	41.5	<20	<0.2	7	302	18.2
PR-PC 46	<27	<5	<2	<200	<5	<2	<5	25	<2	11.0	66	<5	<50	<20	0.86	<200	<50	<0.2	71.5	<20	<0.2	<1	1320	55.5
PR-PC 47	<23	<5	<2	<200	<5	<2	<5	93	<2	11.5	104	<5	<50	<20	0.48	<200	<50	<0.2	61.5	<20	<0.2	<1	916	64.4
PR-PC 48	<5	<5	<2	<200	<5	<2	27	255	<2	14.7	40	<5	<50	<20	0.92	<200	<50	<0.2	81.9	<20	<0.2	<1	540	20.4
PR-PC 49	<33	<5	<2	<200	15	<2	37	86	<2	13.6	106	<5	<50	<20	0.41	<200	<50	<0.2	63.1	<20	<0.2	<1	1510	93.5
PR-PC 50	18	<5	<2	1200	<5	9	27	143	<2	11.2	40	<5	<50	<20	0.77	<200	<50	<0.2	61.1	<20	<0.2	<1	473	45.3
PR-PC 51	<5	<5	9	<200	<5	<2	28	154	<2	12.4	49	<5	<50	<20	0.67	770	<50	<0.2	56.6	<20	<0.2	<1	507	68.9
PR-PC 58	<5	<5	<2	1400	<5	<2	8	<10	<2	5.06	32	<5	<50	<20	1.34	534	86	0.5	31.6	<20	<0.2	<1	290	17.3
PR-PC 59	<5	<5	<2	1200	<5	<1	8	48	<2	4.31	23	<5	<50	<20	1.46	<200	70	<0.2	21.9	<20	<0.2	<1	186	10.8

Sample description	W PPM	ZN PPM	LA PPM	CE PPM	ND PPM	SM PPM	EU PPM	TB PPM	YB PPM	LU PPM	Mass g
PR-PC 19	99	<200	2060	2980	1140	212	6.9	19	48.7	7.25	17.40
PR-PC 20	42	<200	953	1390	534	91.5	4.9	9	15.2	2.59	14.93
PR-PC 21	18	320	810	1210	405	88.2	3.6	11	39.3	6.01	21.14
PR-PC 22	<4	<200	1680	2620	1050	175	8.6	17	24.1	3.35	18.46
PR-PC 40	12	<200	302	457	152	25.8	4.0	3	10.1	1.60	22.74
PR-PC 41	70	<200	1850	2590	1010	162	8.6	18	28.4	4.42	22.33
PR-PC 44	82	<200	2490	3550	1310	235	7.5	20	22.1	3.15	15.49
PR-PC 45	29	<200	804	1180	437	85.0	4.1	7	17.6	2.62	16.90
PR-PC 46	69	<200	3360	4350	1530	267	13.0	24	33.3	4.98	22.26
PR-PC 47	176	<200	2550	3420	1200	208	10.7	27	32.3	5.08	23.31
PR-PC 48	<4	<200	1570	2200	864	137	8.0	13	25.0	4.28	20.54
PR-PC 49	216	620	3920	5010	1750	346	12.0	35	52.4	8.37	20.60
PR-PC 50	99	<200	1360	1920	697	121	6.3	13	25.6	4.00	22.67
PR-PC 51	121	426	1330	1900	685	113	5.6	12	26.2	4.16	12.56
PR-PC 58	18	<200	756	1140	444	77.0	4.0	6	13.5	2.09	20.18
PR-PC 59	5	<200	510	836	328	57.2	3.1	6	10.5	1.68	16.34



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8055 ASPEN RD.
VERNON, BC
V1B 3M9

Project:

Comments: ATTN: WARNER GRUENWALD

Page Number : 1-A
Total Pages : 1
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P.O. Number :
Account : CYO

CERTIFICATE OF ANALYSIS

A9932738

SAMPLE	PREP CODE	Al % (ICP)	Sb ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Cd ppm (ICP)	Ca % (ICP)	Ce ppm (ICP)	Cs ppm (ICP)	Cr ppm (ICP)	Co ppm (ICP)	Cu ppm (ICP)	Ga ppm (ICP)	Ge ppm (ICP)
SCS 8+81R	244 --	2.51	0.1	40	3.00	3.27	0.10	5.25	41.2	14.55	194	67.6	477	6.7	2.0
SCS 9+40R	244 --	6.05	0.1	320	1.75	6.94	0.04	6.55	69.6	5.60	255	12.4	57	15.2	1.8
SCS 10+25R	244 --	3.70	< 0.1	80	2.20	156.0	0.12	5.76	76.1	1.95	126	62.6	502	10.9	2.0
SCS 10+50R	244 --	6.42	0.1	30	3.30	2.07	0.06	7.75	86.8	2.75	152	31.2	160	18.1	2.2
SCS 16+38R	244 --	7.33	0.1	1070	2.15	0.36	0.04	0.17	97.7	3.95	155	7.6	11	18.5	1.0
SCS 25+15R	244 --	8.26	< 0.1	670	1.35	0.16	< 0.02	0.39	151.0	6.25	235	14.0	30	22.7	1.3

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CERTIFICATE OF ANALYSIS

A9932738

SAMPLE	PREP CODE	Fe % (ICP)	La ppm (ICP)	Pb ppm (ICP)	Li ppm (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Ni ppm (ICP)	Nb ppm (ICP)	P ppm (ICP)	K % (ICP)	Rb ppm (ICP)	Ag ppm (ICP)	Na % (ICP)
SCS 8+81R	244 --	13.40	21.0	0.5	9.8	1.39	895	5.2	40.4	6.0	760	0.15	8.2	0.80	0.36
SCS 9+40R	244 --	4.14	34.0	4.5	9.8	1.07	635	5.2	28.0	11.6	410	1.91	87.4	0.40	0.57
SCS 10+25R	244 --	17.35	41.0	1.5	10.0	1.27	960	9.2	73.6	10.2	460	0.27	11.8	1.85	0.52
SCS 10+50R	244 --	6.05	45.5	< 0.5	7.4	1.65	1065	10.6	49.6	16.0	470	0.15	8.0	0.40	0.63
SCS 16+38R	244 --	2.07	49.0	27.5	25.0	0.58	215	2.8	13.8	11.8	240	3.21	134.0	0.05	2.09
SCS 25+15R	244 --	4.17	67.0	12.0	108.0	1.13	290	6.0	29.4	12.2	230	2.81	155.5	< 0.05	1.67

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Page Number : 1-C
 Total Pages : 1
 Certificate Date: 08-NOV-1999
 Invoice No. : 19932738
 P.O. Number :
 Account : CYO

CERTIFICATE OF ANALYSIS A9932738

SAMPLE	PREP CODE	Sr ppm (ICP)	Ta ppm (ICP)	Te ppm (ICP)	Tl ppm (ICP)	Th ppm (ICP)	Ti % (ICP)	W ppm (ICP)	U ppm (ICP)	V ppm (ICP)	Y ppm (ICP)	Zn ppm (ICP)			
SCS 8+81R	244 --	363	0.40	0.75	0.06	6.2	0.14	22.8	2.4	30	9.6	58			
SCS 9+40R	244 --	857	0.90	0.70	0.38	12.8	0.30	2.1	3.0	60	23.7	54			
SCS 10+25R	244 --	441	0.95	16.45	0.08	26.4	0.18	26.8	3.4	52	15.4	70			
SCS 10+50R	244 --	758	1.10	0.35	0.04	15.4	0.31	2.2	5.0	82	22.2	68			
SCS 16+38R	244 --	212	0.80	< 0.05	0.68	24.0	0.18	0.7	1.6	42	6.5	38			
SCS 25+15R	244 --	170.5	0.45	< 0.05	0.78	30.0	0.38	0.6	3.2	95	14.8	58			

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Project:
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Page Number : 1-A
 Total Pages : 1
 Certificate Date: 28-OCT-1998
 Invoice No. : 19931103
 P.O. Number :
 Account : CYO

CERTIFICATE OF ANALYSIS A9931103

SAMPLE	PREP CODE	Au ppb EXT-AA	Au ppb FA+AA	Al % (ICP)	Sb ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Cd ppm (ICP)	Ca % (ICP)	Ce ppm (ICP)	Cs ppm (ICP)	Cr ppm (ICP)	Co ppm (ICP)	Cu ppm (ICP)
PR-50R2	205 226	3	-----	6.70	0.2	490	2.15	0.28	0.08	3.33	98.8	3.80	161	18.8	82
SCS 8+81R	205 226	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SCS 9+40R	205 226	76	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SCS 10+25R	205 226	>1000	2980	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SCS 10+50R	205 226	5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SCS 16+38R	205 226	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SCS 25+15R	205 226	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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 Invoice No. : 19931103
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CERTIFICATE OF ANALYSIS A9931103

SAMPLE	PREP CODE	Ga ppm (ICP)	Ge ppm (ICP)	Fe % (ICP)	La ppm (ICP)	Pb ppm (ICP)	Li ppm (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Ni ppm (ICP)	Nb ppm (ICP)	P ppm (ICP)	K % (ICP)	Rb ppm (ICP)
PR-50R2	205 226	19.5	1.7	5.12	48.5	20.0	31.2	1.64	830	4.2	24.2	17.8	520	2.03	104.0
SCS 8+81R	205 226	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SCS 9+40R	205 226	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SCS 10+25R	205 226	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SCS 10+50R	205 226	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SCS 16+38R	205 226	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SCS 25+15R	205 226	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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Warner Gruenwald



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CERTIFICATE OF ANALYSIS A9931103

SAMPLE	PREP CODE	Ag ppm (ICP)	Na % (ICP)	Sr ppm (ICP)	Ta ppm (ICP)	Te ppm (ICP)	Tl ppm (ICP)	Th ppm (ICP)	Ti % (ICP)	W ppm (ICP)	U ppm (ICP)	V ppm (ICP)	Y ppm (ICP)	Zn ppm (ICP)
PR-50R2	205 226	0.25	1.75	199.5	0.90	< 0.05	0.44	15.8	0.65	1.0	2.4	185	23.1	62
SCS 8+81R	205 226	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SCS 9+40R	205 226	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SCS 10+25R	205 226	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SCS 10+50R	205 226	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SCS 16+38R	205 226	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SCS 25+15R	205 226	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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Total Pages : 1
Certificate Date: 26-OCT-1999
Invoice No. : 19931102
P.O. Number :
Account : CYO

CERTIFICATE OF ANALYSIS

A9931102

SAMPLE	PREP CODE	Au ppb EXT-AA										
SCS 7+50	201 --	2										
SCS 7+75	201 --	2										
SCS 8+00	201 --	39										
SCS 8+50	201 --	6										
SCS 8+75	201 --	< 1										
SCS 9+00	201 --	2										
SCS 9+25	201 --	< 1										
SCS 9+50	201 --	< 1										
SCS 9+75	201 --	< 1										
SCS 10+00	201 --	< 1										
SCS 10+25	201 --	< 1										
SCS 10+50	201 --	< 2										
SCS 10+60	201 --	< 2										
SCS 26+75	201 --	< 1										
SCS 27+00	201 --	< 1										
SCS 27+20	201 --	< 1										
SCS 27+50	201 --	< 1										
SCS 27+75	201 --	< 1										
SCS 27+91	201 --	< 2										

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Total Pages : 1
Certificate Date: 08-OCT-1999
Invoice No. : 19929975
P.O. Number :
Account : CYO

CERTIFICATE OF ANALYSIS

A9929975

SAMPLE	PREP CODE	Au ppb EXT-AA	Al % (ICP)	Sb ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Cd ppm (ICP)	Ca % (ICP)	Ce ppm (ICP)	Ca ppm (ICP)	Cr ppm (ICP)	Co ppm (ICP)	Cu ppm (ICP)	Ga ppm (ICP)
PR-46(R)	205 226	47	7.60	< 0.1	70	64.3	11.80	0.30	8.65	61.7	2.05	93	13.4	233	22.9

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Invoice No. : 19929975
P.O. Number :
Account : CYO

CERTIFICATE OF ANALYSIS

A9929975

SAMPLE	PREP CODE	Ge ppm (ICP)	Fe % (ICP)	La ppm (ICP)	Pb ppm (ICP)	Li ppm (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Ni ppm (ICP)	Nb ppm (ICP)	P ppm (ICP)	K % (ICP)	Rb ppm (ICP)	Ag ppm (ICP)
PR-46(R)	205 226	1.8	7.48	36.5	15.0	16.0	1.00	1320	2.0	6.8	13.4	580	0.30	14.2	0.90

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CERTIFICATE OF ANALYSIS A9929975

SAMPLE	PREP CODE	Na % (ICP)	Sr ppm (ICP)	Ta ppm (ICP)	Te ppm (ICP)	Tl ppm (ICP)	Th ppm (ICP)	Ti % (ICP)	W ppm (ICP)	U ppm (ICP)	V ppm (ICP)	Y ppm (ICP)	Zn ppm (ICP)		
PR-46(R)	205 226	0.95	401	0.55	0.65	0.08	15.0	0.17	2120	4.6	34	9.7	122		

CERTIFICATION: *[Signature]*

APPENDIX B

ANALYTICAL METHODOLOGY

Geochemical Procedure - T124 - Total Metals Package

The T124 package is a combination of two analytical techniques, namely ICP-AES and ICP-MS. After a triple acid digestion, samples are prescreened on the ICP-AES unit to ensure low base metal concentrations prior to analysis by ICP-MS

Sample Decomposition: Triple Acid Digestion

Analytical Methods: Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP - AES)
Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)

A prepared sample (0.500 gram) is digested with perchloric, nitric and hydrofluoric acids to dryness. The residue is taken up in a volume of 25 ml of 10% hydrochloric acid and the resulting solution is analyzed by inductively coupled plasma-atomic emission spectrometry. Following this analysis, the results are reviewed to ensure that base metal concentrations are less than 1%, with the exception of Silver, Bismuth, and Tungsten which have upper analytical limits of 100, 500, and 1000 ppm. Samples that meet this criteria are then diluted and analysed by ICPMS. Results are corrected for spectral interelement interferences.

<u>Chemex Code</u>	<u>Element</u>	<u>Symbol</u>	<u>Detection Limit</u>	<u>Upper Limit</u>	<u>Analytical Technique</u>
285	ICP-HF Digestion	n/a	n/a	n/a	n/a
9301	Aluminum	Al	0.01%	25 %	AES
9302	Barium	Ba	10 ppm	1 %	AES
9303	Beryllium	Be	0.05 ppm	1000 ppm	AES+MS
9304	Bismuth	Bi	0.01 ppm	1 %	AES+MS
9305	Cadmium	Cd	0.02 ppm	500 ppm	AES+MS
9306	Calcium	Ca	0.01%	25 %	AES
9307	Cerium	Ce	0.01 ppm	500 ppm	MS
9308	Cesium	Cs	0.05 ppm	500 ppm	MS
9309	Chromium	Cr	1 ppm	1 %	AES
9310	Cobalt	Co	0.2 ppm	1 %	AES+MS
9311	Copper	Cu	1 ppm	1 %	AES
9312	Gallium	Ga	0.1 ppm	500 ppm	MS
9313	Germanium	Ge	0.1 ppm	500 ppm	MS
9314	Indium	In	0.01 ppm	100 ppm	MS
9315	Iron	Fe	0.01%	25 %	AES
9316	Lanthanum	La	0.5 ppm	500 ppm	MS

Geochemical Procedure - T124 - Total Metals Package (con't)

<u>Chemex Code</u>	<u>Element</u>	<u>Symbol</u>	<u>Detection Limit</u>	<u>Upper Limit</u>	<u>Analytical Technique</u>
9317	Lead	Pb	0.5 ppm	1 %	AES+MS
9318	Lithium	Li	0.2 ppm	500 ppm	MS
9319	Magnesium	Mg	0.01 %	15 %	AES
9320	Manganese	Mn	5 ppm	1 %	AES
9321	Molybdenum	Mo	0.2 ppm	1 %	AES
9322	Nickel	Ni	0.2 ppm	1 %	AES+MS
9323	Niobium	Nb	0.2 ppm	500 ppm	MS
9324	Phosphorus	P	10 ppm	1 %	AES
9325	Potassium	K	0.01 %	10 %	AES
9326	Rubidium	Rb	0.2 ppm	500 ppm	MS
9327	Silver	Ag	0.05 ppm	100 ppm	AES+MS
9328	Sodium	Na	0.01 %	10 %	AES
9329	Strontium	Sr	0.2 ppm	1 %	AES+MS
9330	Tantalum	Ta	0.05 ppm	100 ppm	MS
9331	Tellurium	Te	0.05 ppm	500 ppm	MS
9332	Thallium	Tl	0.02 ppm	500 ppm	MS
9333	Thorium	Th	0.2 ppm	500 ppm	MS
9334	Titanium	Ti	0.01 %	10 %	AES+MS
9335	Tungsten	W	0.1 ppm	1 %	AES+MS
9336	Uranium	U	0.2 ppm	500 ppm	MS
9337	Vanadium	V	1 ppm	1 %	AES
9338	Yttrium	Y	0.1 ppm	500 ppm	MS
9339	Zinc	Zn	2 ppm	1 %	AES

MS - Results are from the ICP-MS scan

AES - Results are from the ICP-AES scan

AES+MS - Results are a combination of ICP-AES and ICP-MS scans

Samples which fail to meet the Upper Concentration limits as outlined above, will be treated as regular T24 digestions and all detection limits will apply as per that method.

Fire Assay Procedure - Trace Gold

Sample Decomposition: Fire Assay Fusion
Analytical Method: Atomic Absorption Spectroscopy (AAS)

A prepared sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents as required inquarted with 6 mg of gold-free silver and then cupelled to yield a precious metal bead.

The bead is digested for 1/2 hour in dilute nitric acid. Hydrochloric acid is then added and the solution is digested for an additional hour. The digested solution is cooled, diluted to 10 ml with demineralized water and homogenized. The resultant solution is extracted with TIOA/MIBK and then analyzed by atomic absorption spectrometry, with background correction.

<u>Chemex Code</u>	<u>Element</u>	<u>Sample Weight (grams)</u>	<u>Symbol</u>	<u>Detection Limit</u>	<u>Upper Limit</u>
3991	Gold	30	Au	0.001 ppm	1 ppm
3993	Gold	30	Au	1 ppb	1,000 ppb

Instrumental neutron activation in geoanalysis

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(Received 30 April 1990; accepted after revision 15 August 1991)

ABSTRACT

Hoffman, E.L., 1992. Instrumental neutron activation in geoanalysis. In: G.E.M. Hall (Editor), *Geoanalysis. J. Geochem. Explor.*, 44: 297-319.

Theoretical aspects of instrumental neutron activation analysis (INAA) are discussed. Various applications of INAA to exploration geochemistry are described demonstrating its capabilities and its limitations.

Cost, turnaround time, high sensitivity for certain elements, the non-destructive nature of analysis and its precision and accuracy have combined to make INAA an indispensable method for multielement determination on virtually all geological matrices. Humus, vegetation, heavy minerals, lake bottom sediments as well as rocks and soils comprise the major sample types analyzed by INAA. As many as 50 elements can be determined routinely and easily by INAA.

INTRODUCTION

Instrumental neutron activation analysis (INAA) is an analytical technique which is dependent on measuring primarily gamma radiation induced in the sample by irradiation with neutrons. The primary source of neutrons for irradiation is usually a nuclear reactor. Each element which is activated emits a "fingerprint" of gamma radiation which can be measured and quantified. Multielement analysis of practically any material from the smallest sample which can be weighed accurately to very large samples of up to 1 kg have been analyzed routinely by INAA. The method is highly selective and extremely sensitive for a wide range of elements.

INSTRUMENTATION

The process of activating samples is inherently simple. The samples are encapsulated and placed into or near the core of a neutron source. The pri-

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mary neutron source is usually a nuclear reactor and we will limit further discussion to reactor-induced NAA. The neutrons interact with the target nucleus, thereby converting the latter into a radioactive nucleus. Figure 1 illustrates a typical neutron capture reaction and the subsequent radiation which is emitted. The capture gamma-rays emitted (Fig. 1) usually have extremely short half lives on the order of ms and can be measured during irradiation utilizing a technique called prompt gamma activation analysis (PGAA). PGAA is described in detail by Chrien (1984) and by Lindstrom and Anderson (1985). For geological samples the main application of PGAA is in the determination of B and Gd. As the radioactive nucleus decays back to a stable state, decay gamma-rays are emitted. It is these decay gamma-rays which are measured and quantified by INAA. Each radioactive nuclide which is formed during irradiation decays with a specific half-life emitting gamma rays of characteristic energy. Measurements of the gamma radiation can be used to both identify and accurately quantify the nuclides present in the sample.

Subsequent to irradiation, the samples can be measured instrumentally simply by placing the sample on a high resolution *germanium detector*, or for better sensitivities, chemical separations, can be performed for reducing interferences, with subsequent measurement. The latter type of analysis termed radiochemical neutron activation analysis (RNAA) is discussed elsewhere in this volume (Parry, 1992).

Prior to the 1960's, sodium iodide (NaI) detectors were commonly used for measurement of gamma-rays; however the resolution of these detectors was and still is at least an order of magnitude poorer than the Ge(Li) detectors which followed in the 1960's. As a result, radiochemical separations were

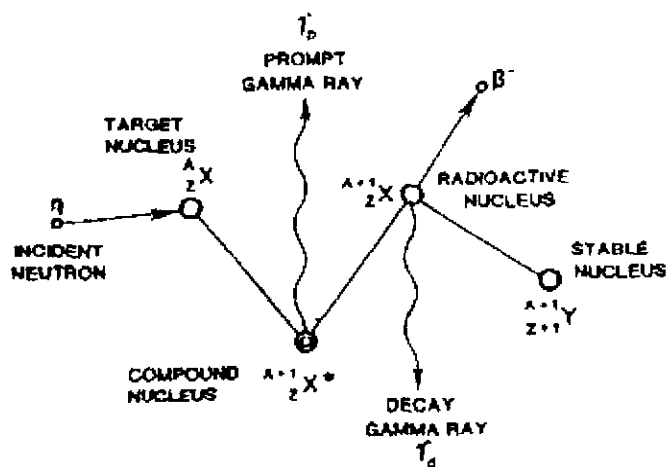


Fig. 1. Neutron interaction with target nucleus and subsequent radiation emitted (from Bode et al., 1990).

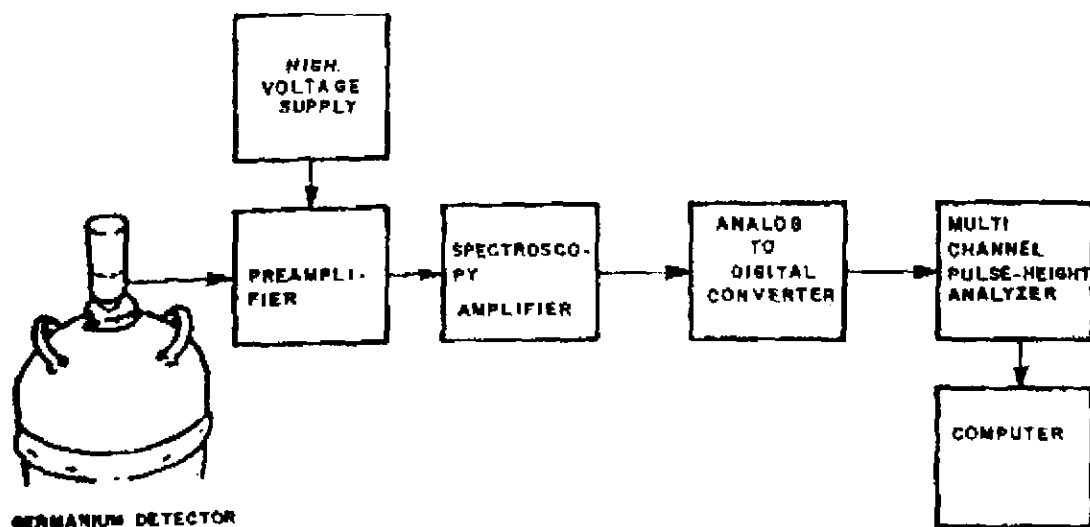


Fig. 2. Diagrammatic scheme for a germanium detector counting system (Bode et al., 1990).

quite popular and necessary in the 1950's and 1960's. The advent of high resolution solid state Ge(Li) detectors allowed INAA to develop and flourish. Over the last decade significant advances in the manufacture of high purity Ge detectors with very good resolution and also able to process high incident count rates have provided the necessary detection equipment for high quality, high volume INAA. Micro and minicomputers developed during the same period allowed for rapid on-line analysis of gamma spectra from the activated samples. A diagrammatic scheme of a typical Ge detector and associated electronics is shown in Fig. 2. Further details on the technical operation of activation equipment is available in Bode et al. (1990).

PRINCIPLES

The relatively high neutron flux, derived from the fissioning process of the U-235 contained in the reactor core, has associated neutron energies ranging up to 15 MeV with an average energy of 2MeV. As the neutrons move out from the core, elastic collisions with the reactor moderator (water or heavy water) thermalize the neutrons creating a broad energy distribution with three principal components: thermal, epithermal and fast neutrons.

For INAA, the thermal neutrons are the most important, and are defined as those neutrons having energies below 0.5 keV. This is the upper energy limit established by which neutrons will pass through a cadmium foil 1 mm thick ("cadmium threshold"). A typical 2 MW research reactor will have a thermal neutron flux of $2 \times 10^{13} \text{ n cm}^{-2} \text{ s}^{-1}$. Epithermal neutrons are those which have been only partially moderated and their energies range from the

APPENDIX C

ROCK SAMPLE DESCRIPTIONS

**GQ PROPERTY
ROCK SAMPLE DESCRIPTIONS**

Sample Number	Description	Au ppb	Bi ppm	Cu ppm	Te ppm	W ppm	Other ppm
PR 046R	Field: Float near PR-46 stream sample Hand Specimen: Green and pinkish, limonitic weathered, siliceous rock comprised of quartz and pale green mafics (pyroxenes). Disseminations and stringers of very fine-grained sooty sulphides (pyrite?) + pyrrhotite. Trace chalcopyrite. Noted gypsum on fractures/cavities. Weak carbonate. Very weakly magnetic.	47	11.8	233	0.65	2120	Be=64.3
PR 64AR	Field: Creek float near SCS 25+00 Hand Specimen: Limonitic, fine-grained, quartz-feldspar rich metamorphic rock.	<1	0.10	13	<0.05	0.5	
PR 64AR(2)	Field: Creek float near SCS 25+00. Hand Specimen: Limonite stained, medium to coarse-grained, feldspar-quartz rich intrusive (pegmatitic granite). No mafics or sulphides.						
PR 68R	Field: Float from silt sample site. Hand Specimen: White, medium-grained, quartz rich granitic gneiss. Quartz 75%, white feldspar 20%, biotite 5%. No carbonate, No sulphides.						
PR 68R(1)	Field: Float from creek near SCS 10+05. Hand Specimen: Pale tan, fine-grained calc-silicate (quartzite?) with gneissic texture. Quartz dominant mineral and lesser possible diopside. Disseminated, fine-grained pyrrhotite 3%, trace chalcopyrite. Very weakly magnetic. No carbonate.						
PR 91R	Field: Float. Near helicopter camp and at PR 91 stream site. Hand Specimen: Weakly banded, green-grey, fine-grained siliceous rock (calc-silicate) with disseminated pyrrhotite 3-4%. Local bands of greater sulphide content. Moderate magnetic.	15	1.77	221	0.65	1100	
PR 97R	Field: Float. Upstream of PR 78 stream anomaly Hand Specimen: Rusty float (composite) of calc-silicate and amphibolite gneiss. Disseminated pyrrhotite.	3	1.19	92	0.15	2.1	
PRM 69R	Field: Float from sample site. Hand Specimen: Grey, medium-grained, possible calc-silicate gneiss(?). Appears to be comprised of feldspar, quartz and pale green silicate (?). Distinctive features of rock are horizons of flaky graphite and disseminated/fracture pyrrhotite and pyrite. Sulphides average 3-4% locally >5%. Non-magnetic. No carbonate.						
SCA 08+31R	Field: Subrounded 15 cm float cobble at 3 m level in till on Spur "A". Hand Specimen: Rusty, weathered, green, medium-grained, classic looking "granular textured" calc-silicate adjacent to a more massive siliceous calc-silicate. The latter is predominantly comprised of grey-green scapolite (?) with disseminated pyrrhotite 1-2%. Weakly magnetic, no carbonate. The "granular" layer is comprised of dark green crystals of amphibole (25%), spheroidal grains (1-1.5cm) of white and yellowish scapolite (40%), patches and grains of quartz (15%). Remainder comprised of pyrite (after pyrrhotite) 15%.	3090	159.00	386	16.80	14.8	Ag= 1.35

Note: PR=Rock sample at stream site SCA=Spur "A" SCB=Spur "B" SCC=Spur "C" SCD=Spur "D" SCS=Second Creek South Road

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Sample Number	Description	Au ppb	Bi ppm	Cu ppm	Te ppm	W ppm	Other ppm
	This section of rock is non-magnetic and has no carbonate. Note: This sample is very similar to WP 032 showing 500 m to the west along Spur B.						
SCA 09+12R	Field: Subrounded float cobble (15 cm) in till at 2.5 – 3m deep. Hand Specimen: Dark green, medium-grained, mafic rock. Comprised largely of green pyroxene and lesser amounts of scapolite. Disseminated pyrite 2-3% and traces of chalcopyrite. Non-magnetic, no carbonate.						
SCA 09+21R	Field: Subrounded float cobble (15 cm) at 2.5-3.0 metres in till. Hand Specimen: Rusty, weathered, greenish, medium-grained calc-silicate comprised predominantly of pale green-grey scapolite. Lesser quartz. 3%+. Disseminated pyrrhotite, minor chalcopyrite. Cut by 0.5 cm quartz vein. Weakly magnetic. No carbonate.						
SCA 09+31R	Field: Subangular to sub-rounded 10 cm cobble. Float occurrence in till. Hand Specimen: Dark green, medium-grained, well-mineralized calc-silicate comprised primarily of greenish diopside and white, pale grey scapolite. Abundant disseminated sulphides (5%+), pyrrhotite (pyrite) and moderate amounts of chalcopyrite ($\leq 0.5\%$). Very weakly magnetic, no carbonate.						
SCA 09+32R	Field: 15 cm cobble in till (~20 cm deep) Hand Specimen: Pale green and white calc-silicate cut by irregular quartz vein. Primary minerals are scapolite, quartz, possible diopside. Disseminated pyrrhotite 0.5-1%. Non-magnetic.	7					
SCA 09+35R	Field: Angular boulder (35 cm) at 1 m in till sheet. Hand Specimen: Rusty, weathered, white to grey, biotitic gneiss cut by milky quartz feldspar vein. Irregular, fine-grained blebs of pyrite in gneiss (1-1.5%). Minor pyrite in vein. No carbonate, non-magnetic.	3	1.80	127	<0.05	1.7	
SCA 09+44R(1)	Field: Float in ditch along Spur "A" Hand Specimen: Dark green, medium-grained rock with carbonate-like weathered surface of resistant brown-green minerals with relief. This is a carbonate rich layer adjacent to dark green, medium-grained calc-silicate.						
SCA 09+44R(2)	Field: Float in ditch line. Hand Specimen: Green, medium-grained. Comprised of dark green pyroxene (diopside), amphibole and lesser scapolite and quartz. 1-1.5% disseminated pyrrhotite and trace chalcopyrite. Granular texture similar to mineralized zones (i.e. WP 032). Rock has 1 cm bed of marble attached which shows on weathered surface crystals of amber coloured scapolite and dark green amphibole. Weakly magnetic, no carbonate except in marble layer.						
SCA 13+57R	Field: Road cut outcrop of rusty, feldspar rich dyke with occasional quartz veinlets. Hand Specimen: Weakly limonitic, buff coloured, fine-grained, feldspar rich intrusive (aplitic) 85%+ white feldspar. Remainder are quartz grains and one thin quartz veinlet.	6	0.63	4	<0.05	0.2	

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Sample Number	Description	Au ppb	Bi ppm	Cu ppm	Te ppm	W ppm	Other ppm
	Several open spaces (miarolitic cavities). Trace oxide coated pyrite. No carbonate.						
SCA 13+66R	Field: Outcrop of quartz-biotite gneiss cut by sills and dykes, one of which is quartz rich. Hand Specimen: White, medium to coarse-grained, quartz-feldspar dyke with very minor mafics (biotite). Rock is ~50:50 orthoclase and quartz. No carbonate.						
SCA 16+40R	Field: Road cut exposure of greenish gneiss(?) adjacent to pegmatite with local aphanitic sections. Fault (slickensides) Attitude = 165°/65°W. Hand Specimen: Mottled white and green rock comprised of 70% milky white mineral (hardness less than knife). No good crystal cleavage noted. Remainder is pale green crystalline material that resembles an amphibole in crystal form (hardness less than knife). 2-3% amber mineral (stubby crystals) (hardness greater than knife) possibly sphene. Trace dark brown adamantine elongate crystals. Also hardness greater than knife.	<1	0.10	<1	<0.05	0.3	Be=11.15 Ta=3.60
SCA 18+90R	Field: Road cut outcrop of coarse pegmatite with local concentrations of <i>tourmaline</i> . Random grab over 7 metres Hand Specimen: White, coarse-grained pegmatite comprised predominantly of white feldspar (80%) with remainder being quartz and ~5-8% black tourmaline. No carbonate.	<1	0.59	4	<0.05	5.0	
SCA 20+04R	Field: Road outcrop of calc-silicate gneiss cut by rusty pegmatite and minor quartz veining. Hand Specimen: Pale green-grey, fine to medium-grained calc-silicate gneiss comprised primarily of feldspar, quartz and possible tremolite. Trace sulphides.						
SCA 20+94R	Field: Road outcrop of rusty intrusive near coarse pegmatite. Hand Specimen: Rusty, weathered, buff coloured, fine to medium-grained, felsic intrusive (granodiorite). No mafic minerals. Scattered grains of sericite. No carbonate.						
SCB 11+90R	Field: Cobbles/boulders of angular, weathered carbonate rock. Composite sample over 1.5 m. Hand Specimen: Weakly limonitic, pale green, medium-grained "granular" marble. Disseminated pyrrhotite (1.5%), trace chalcopyrite. Green, rounded grains disseminated throughout (hardness less than knife).	6	0.84	41	0.10	38.4	
SCB 12+54R	Field: Road subcrop of very rusty amphibolite gneiss. Grab sample. Hand Specimen: Dark grey-black, fine-grained, amphibolite gneiss with pale green diopsidic layers. Disseminated pyrrhotite ≤1%. Moderately magnetic, no carbonate.						
SCB 13+53R	Field: Outcrop of siliceous horizon 5 metres east of WP 032. Both WP 032 and this rock truncated by 2 metre aplitic dyke and 1.5 metre pegmatite. This sample was taken as 0.6 m chip and is at stratigraphic base of WP 032 horizon. Hand Specimen: Moderately limonite stained, medium-grained, pale green-brown calc-silicate gneiss comprised of quartz and pale green pyroxene (diopside). Disseminated pyrrhotite ~1-1.5%. Non-magnetic, weak (local) carbonate.	1980	66.20	314	5.05	58.6	Ag=1.35 Be=17.70
SCB 13+77R	Field: Outcrop of pegmatite immediately above fine-grained granitic dykes.	3	0.60	2	<0.05	3.0	

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	Hand Specimen: White, coarse-grained, feldspar rich pegmatite. Milky orthoclase grains to 1 cm ±. Irregular scattered clots of biotite and minor muscovite. No sulphides or carbonate.						
SCB 14+89R	Field: Creek bed and road cut exposure of layered calc-silicate. Hand Specimen: Pale green-grey, fine to medium-grained, strongly siliceous calc-silicate. Layered appearance. Some fracture planes show abundant flakes of graphite. Disseminations of pyrrhotite weakly oriented along laminae (~2%). Weakly magnetic, no carbonate.	4	0.46	37	<0.05	2.5	
SCC 20+46R	Field: Outcrop of well laminated quartz rich gneiss. Attitude=152°/30°W. Hand Specimen: Grey, laminated, medium-grained, quartz-feldspar-biotite gneiss. Non-magnetic, no carbonate.						
SCC 21+43R	Field: Road cut outcrop of rusty mafic gneiss. Hand Specimen: Rusty, weathered, dark green-grey, fine-grained, amphibolite gneiss. Comprised of feldspar, quartz, amphibole, and biotite. Minor pyrite (1%), trace magnetite and unidentified lustrous black mineral. Mon magnetic. No carbonate.						
SCS 02+90R	Field: Outcrop Hand Specimen: White to pale green, coarse-grained muscovite granite. 80% white Kspar quartz, 5% muscovite. Trace garnet and green waxy material on fracture/shearface. Very minor pyrite/pyrrhotite noted. Non-magnetic. No carbonate.	3	1.16	<1	<0.05	6.3	
SCS 03+66R	Field: Outcrop along road. Hand Specimen: Limonite stained, fine to medium-grained, biotite gneiss. Predominate minerals are orthoclase with 20% ± quartz. Red-brown biotite. Rock cut by conformable quartz veinlet (≤1 cm). Disseminated, fine-grained pyrite (marcasite), locally platy. Sulphides ~3-4%. Trace chalcopyrite and lustrous black metallic unknown mineral. No carbonate. Non-magnetic.	<1	0.49	162	<0.05	1.1	
SCS 05+36R	Field: Float along road Hand Specimen: Subangular to subrounded boulder on road bank. Rusty, weathering, pale green-white siliceous rock with disseminations and irregular patches of pyrrhotite. Trace chalcopyrite. Sulphides ~2-3%. Some sulphides decomposed to sooty material. Several grains of silvery, very fine-grained metallic (molybdenite?) Weakly magnetic. No carbonate.	<1	0.40	84	0.05	2.0	Mo=6
SCS 07+78R	Field: Float boulder (30 cm) of very rusty sulphide rich calc-silicate. Hand Specimen: Brown (rusty), medium to coarse-grained calc-silicate containing abundant brownish and green hexagonal crystals. Amber crystals of mineral with near 90° cleavage (scapolite). "Platy" sulphides possibly pyrite (marcasite) 15%+. Non-magnetic.						
SCS 08+81R	Field: Outcrop. Sample across 10 cm. Hand Specimen: Sulphide band adjacent to marble and calc-silicate band. Green-grey, fine to medium grained quartz-feldspar-pyrrhotite zone. Disseminated to crude lenses of pyrrhotite and trace chalcopyrite. Total sulphides 5-7%. Moderately magnetic. No carbonate.	2	3.30	477	0.75	23.0	

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SCS 09+40R	Field: Outcrop. Sample across 10 cm. Hand Specimen: Sulphide band adjacent to marble and calc-silicate band. Green-grey, fine to medium grained quartz-feldspar-pyrrhotite zone. Disseminated to crude lenses of pyrrhotite and trace chalcopyrite. Total sulphides 5-7%. Very weakly magnetic. No carbonate.	2	3.30	477	0.75	23.0	
SCS 10+18R	Field: Outcrop Hand Specimen: Pale-green, medium-grained, silicified, bleached rock containing disseminated pyrrhotite (~2-3%) and very minor chalcopyrite. Very weakly magnetic.						
SCS 10+25R	Field: Float fragment ~25 cm. Hand Specimen: Limonite stained, subangular, pyrrhotite rich float fragments in a pale grey-brown, fine-grained silicified rock. Disseminated pyrrhotite 3-5%. Also present are flakes of dark grey graphite. Very weakly magnetic. No carbonate.	2980	156.00	502	16.45	27.0	Ag=1.85 Mo=9.2
SCS 10+35R(1)	Field: Outcrop Hand Specimen: Rusty, weathered pale green-grey, medium-grained calc-silicate largely comprised of pale green diopside, lesser quartz, possible scapolite. 3-4% disseminated pyrrhotite, trace chalcopyrite. Weakly magnetic, no carbonate.	3	7.47	54	0.15	2.2	
SCS 10+35R(2)	Field: Outcrop Hand Specimen: White, pale green, medium-grained marble with green, rounded grains of mineral with no cleavage and hardness less than knife.						
SCS 10+35R(3)	Field: Outcrop Hand Specimen: Limonite stained, somewhat granular quartz vein. No sulphides noted.						
SCS 10+50R	Field: Float Hand Specimen: Rusty weathering, angular, pale green-grey, fine-grained siliceous rock (quartz>feldspar). Disseminations and irregular clots of fine-grained pyrrhotite, trace chalcopyrite. Total sulphides ~5-6%. Weakly magnetic. No carbonate.	5	2.10	160	0.35	2.0	Mo=10.6
SCS 11+47R	Field: Road cut outcrop. Hand Specimen: Pale green, massive (moderately high S.G.), amphibolite rich rock. Suspect this is tremolite rich skarn layer in gneiss. No carbonate or sulphides.						
SCS 11+50R	Field: Road outcrop of biotite gneiss. Sample across 0.5 metres of pyrrhotite bearing gneiss. Trace green calc-silicate. Hand Specimen: Purplish-grey, fine to medium-grained, quartz-feldspar-biotite gneiss. Trace pyrrhotite ≤1%. Weakly magnetic, no carbonate.	4	0.20	65	0.05	3.9	
SCS 11+82R	Field: Road cut outcrop of rusty gneiss. Hand Specimen: Rusty, weathered, platy, quartz-sillimanite-garnet biotite gneiss. Sillimanite as white needle-like crystals in biotitic layers.						

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SCS 16+38R	Field: Outcrop sample across 2 metres of soft weathered material. Hand Specimen: Bright orange-brown decomposed zone in road cut. Local green-grey clayey gouge zones with rotting granite fragments. Non-magnetic. No carbonate.	<1	2.20	11	<0.05	1.0	
SCS 17+35R	Field: Outcrop Hand Specimen: White to pale grey, medium to coarse grained granite with minor biotite. Limonite halos around disseminated unidentified fine-grained mineral. Sulphides <1%. Non-magnetic. No carbonate.						
SCS 17+50R	Field: Outcrop Hand Specimen: Pinkish, coarse-grained granite pegmatite with 20% quartz, 50% K-spar, 25% pink feldspar. Rest is chloritic mica. No sulphides. Non-magnetic. No carbonate.						
SCS 24+00R	Field: Borrow pit along south side of road. Grab across 1.5 metres of outcrop. Hand Specimen: Rusty, weathered and fractured, fine-grained, felsic intrusive rock. Trace pyrite (0.5%). No carbonate.						
SCS 25+15R	Field: Outcrop Hand Specimen: Sample across one metre of decomposed biotite schist cut by granitic dykes/sills. Weakly magnetic. No carbonate.	<1	0.20	30	<0.05	1.0	
SCS 27+00R	Field: Float Hand Specimen: Limonite stained subangular calc-silicate boulder (55 cm). Green, crudely banded, fine-grained siliceous rock comprised of pale green feldspar (?), quartz and mafic minerals. Disseminated throughout are pyrrhotite and pyrite 5%+. Also contained within this boulder are semi-massive sulphides (pyrrhotite 40%) in an actinolite rich zone. Trace chalcopyrite. Moderately magnetic. No carbonate.	150	72.20	403	3.05	1.0	
WP 196	Field: Outcrop along Gorge Creek road at km 64.	<1	0.45	270	0.05	4.7	V=274
WP 231R	Field: Steep talus slope east of Spur A. Composite of rusty float fragments. Hand Specimen: Green, medium-grained calc-silicate with granular texture and disseminated pyrrhotite. Pieces of marble attached. Some pieces to 50 cm across.	39	1.10	646	0.35	16.4	
WP 235R	Field: Float boulder (0.60m) on Anstey 1 claim. Hand Specimen: Intensely rusty amphibolite-garnet-gneiss (calc-silicate?) with disseminated pyrrhotite and pyrite (10-15%).	13	1.23	235	0.25	6.9	
WP 237AR	Field: Float Hand Specimen: Rusty amphibolite and calc-silicate with disseminated pyrrhotite, minor chalcopyrite.	5	0.23	319	0.20	2.9	
WP 240	Field: Outcrop at top of pass due east of helicopter camp. Hand Specimen: Very rusty feldspar-quartz-biotite gneiss with graphite on fracture faces.	<1	2.44	55	0.85	131.0	Ta=2.75
WP 241	Field: Outcrop of very rusty sulphide zone between pegmatite and marble.	30	2.51	475	0.90	141.0	Ag=1.3

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Sample Number	Description	Au ppb	Bi ppm	Cu ppm	Te ppm	W ppm	Other ppm
	Hand Specimen: Very limonitic pyrrhotite rich calc-silicate with minor chalcopyrite. Looks much like zones further west.						Ta=3.1
WP 243	Field: Float in talus slope Hand Specimen: Very limonitic calc-silicate with disseminated pyrrhotite.	5	1.49	895	0.90	3.8	Ag=1.35
WP 267	Field: Float cobbles (10-12 cm) on talus slope in NE corner of Anstey 1 claim. Hand Specimen: Semi-massive pyrrhotite with minor chalcopyrite.	<2					

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APPENDIX D

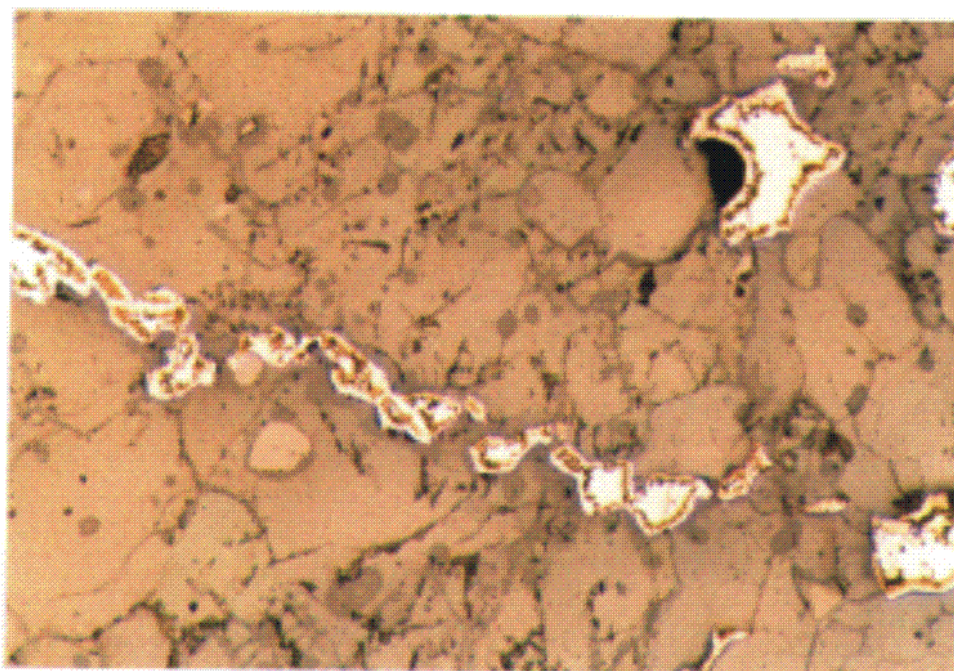
PETROGRAPHIC REPORT

Geoquest Consulting Ltd.

2 samples

**Prepared by K.E. Northcote & Associates
for Vancouver Petrographics
June 30, 2000**

[1] SCS-10+25R
Calc Silicate Gneiss



Photomicrograph 00R XV 0 Reflected light

Scale 0.1 mm ____

Pictured: pyrrhotite vein

Summary Description

Granular, partly interlocking calc-silicate rock with weak gneissic compositional banding. Textures visible in the outcrop suggest tight, isoclinal folds. Principal minerals are clinopyroxene, quartz, scapolite, plagioclase, sphene, and pyrrhotite. Much of the pyrrhotite appears as interstitial grains among the silicates, but a discontinuous vein-like structure (vein segment) is also noted cutting across the dominant fabric of the rock. Chalcopyrite is associated with the pyrrhotite. Pyrrhotite is partly altered to fine pyrite+marcasite.

Microscopic Description

Transmitted Light

Quartz; 30-35%, anhedral (0.1 to ~3 mm). Granular, interlocking, mostly with strained extinction.

Clinopyroxene; 25-30%, anhedral (0.1 to ~4 mm). Granular, interlocking texture with quartz, plagioclase, and scapolite. Optical properties consistent with a calcic clinopyroxene -- probably diopsidic (electron microprobe analysis could determine composition if necessary).

Scapolite; 25-30%, anhedral to subhedral (0.1 to ~4 mm). Interlocking, with quartz, plagioclase, pyroxene, in some cases surrounding pyroxene. Optical properties (parallel extinction, uniaxial (-) interference figure, moderate relief, and second order birefringence) are consistent with scapolite with a calcic composition (*i.e.* meionite).

Plagioclase; $\leq 10\%$, anhedral (0.1 to ~3 mm). Interlocking with quartz, albite twinned. Maximum extinction angles of twins normal to (010) is $\sim 30-35^\circ$ indicating compositions as calcic as bytownite.

Sphene; 2-4%, subhedral to euhedral (0.01 to 0.5 mm). Scattered, mainly in and around pyroxene.

K-feldspar; $\leq 1\%$, anhedral (0.1 to 0.5 mm). Granular, partly interlocking as for the quartz and other feldspars. Localized in a narrow segregation.

Epidote; $\leq 1\%$, anhedral (0.01 to 0.3 mm). Fairly sparsely scattered in small aggregates with scapolite and typically with sphene. In one case intergrown with graphite.

Reflected Light

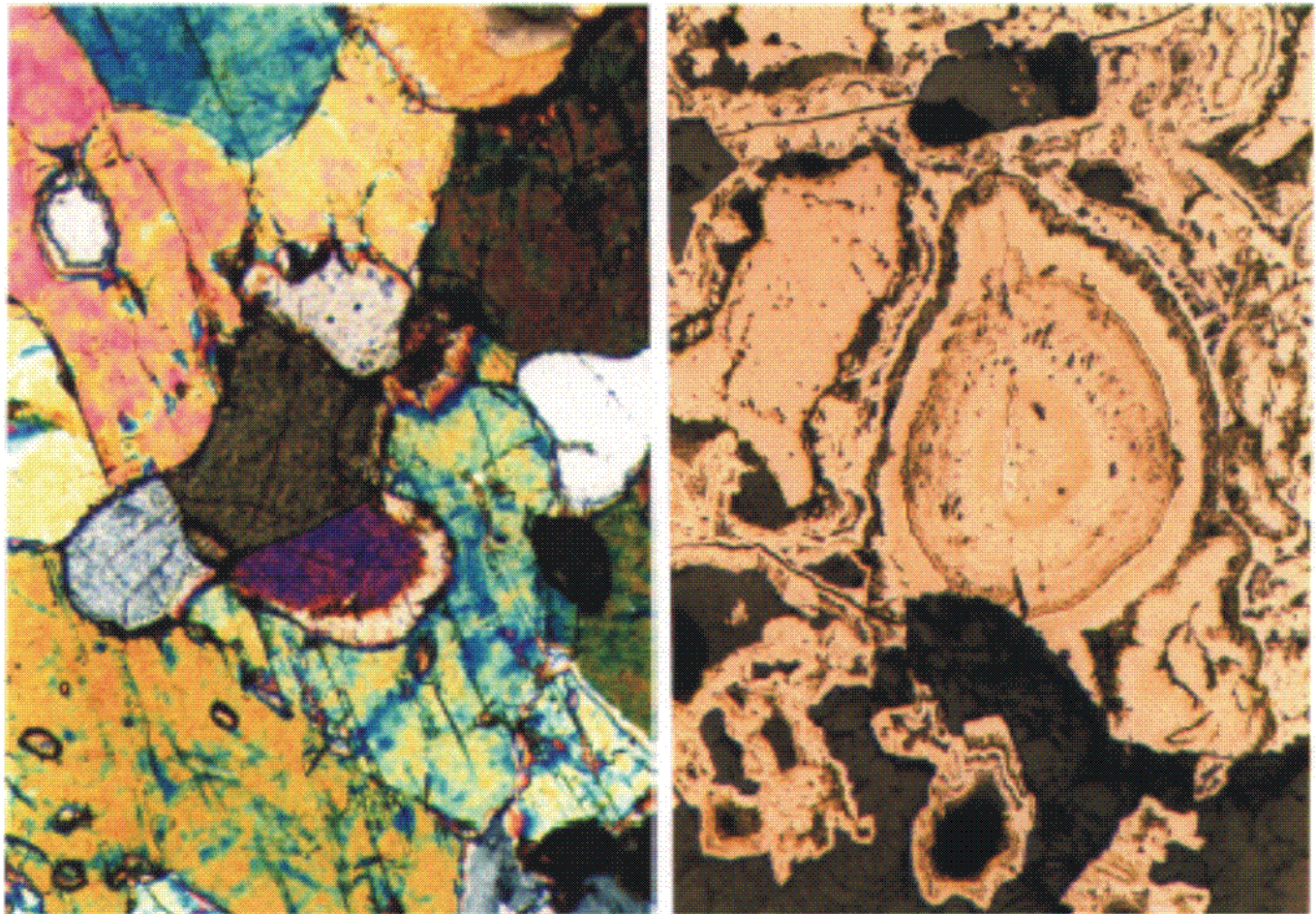
Pyrrhotite; 3-5%, anhedral (0.01 to ~3 mm). Scattered blebs enclosed by quartz or interstitial, particularly among pyroxene. A linear string of pyrrhotite grains is suggestive of a recrystallized or disrupted vein.

Pyrite-marcasite; 1-2%, anhedral (microcrystalline). Fine-grained alteration rims surrounding pyrrhotite.

Chalcopyrite; traces+, anhedral (<0.01 to 0.2 mm). Found with pyrrhotite.

Graphite; traces, subhedral (0.01 to 0.1 mm). Found with epidote.

[2] WR-032R
Calc Silicate Gneiss



Photomicrographs 00R XV 6 and 9 Cross polarized and Reflected light
Scale 0.1 mm _____

Pictured (6): pyroxene surrounded by scapolite

Pictured (9): pyrite+marcasite after pyrrhotite; some pyrrhotite cores remain

Summary Description

Calc-silicate rock with some gneissic compositional banding. Consists mainly of clinopyroxene, scapolite, plagioclase, and pyrrhotite (or pyrite+marcasite after pyrrhotite), which is interstitial to the pyroxene or in roughly layer-parallel patches enclosing euhedral to subhedral pyroxene and scapolite. Chalcopyrite is associated with the pyrrhotite. Quartz is sparse to absent in this section

Microscopic Description

Transmitted Light

Clinopyroxene; 45-50%, anhedral to subhedral (0.1 to ~2 mm). Granular, partly interlocking with pyroxene, scapolite, plagioclase. Scapolite and plagioclase commonly enclose, or partly enclose the pyroxene.

Scapolite; 25-30%, anhedral to subhedral (0.1 to ~3 mm). Partly interlocking with pyroxene and in some cases partly surrounding granular pyroxene. Optical properties suggest a calcic composition.

Plagioclase; <7%, anhedral (0.05 to 0.5 mm). Partly interlocking, but mainly interstitial to pyroxene. Albite twinned, with labradorite compositions estimated optically by maximum extinction angles of twins normal to (010).

Sphene; 2-4%, subhedral to euhedral (0.01 to ~ 3 mm). Scattered, mainly in and around pyroxene.

Epidote; $\leq 1\%$, anhedral (0.01 to 0.5 mm). Small irregular aggregates among the pyroxene and scapolite, in some cases partly surrounding pyroxene.

Amphibole; <1%, subhedral (0.1 to ~1 mm). Enclosed by pyrite-marcasite after pyrrhotite.

Apatite; traces, subhedral (0.1 to 0.3 mm). a few grains enclosed by pyrrhotite or pyrite-marcasite after pyrrhotite.

Reflected Light

Pyrite-marcasite; 7-10% (microcrystalline). Fine pyritic mixture with bird's eye textures replacing pyrrhotite. Forms bands parallel to the rough gneissic banding in the rock. Encloses euhedral or subhedral grains of pyroxene, sphene, scapolite, and minor amphibole.

Pyrrhotite; 3-5%, anhedral (0.091 to 0.3 mm). Some pyrrhotite remnants are found as cores in the fine-grained pyrite-marcasite.

Chalcopyrite; <2%, anhedral (<0.01 to 0.2 mm). Found with pyrrhotite, or more commonly, pyrite-marcasite after pyrrhotite.

Rutile; traces, anhedral (<0.1 mm). Small blebs in sphene.

APPENDIX E PERSONNEL

FIELD DAYS:

W. Gruenwald, P. Geo.

October 4, 1999 18 days

July 10, 11, 27-31, 2000

Aug 1, 5-7, 23-26, 2000

Sep 25-27, 2000

E. Gruenwald, Prospecting Assistant 18 days

October 4, 1999

July 10, 11, 27-31, 2000

August 1, 5-7, 23-26, 2000

September 25-27, 2000

OFFICE DAYS:

W. Gruenwald, P. Geo.

December 15-19, 2000 3½ days

E. Gruenwald, Prospecting Assistant 5 days

August 9-12, 2000

December 14-19, 2000

APPENDIX F
STATEMENT OF EXPENDITURES

LABOUR:

W. Gruenwald, P. Geo.
21½ days @ \$375/day

\$8,062.50

E. Gruenwald, Prospecting Assistant
23 days @ \$200/day

4,600.00

\$12,662.50

GEOCHEMICAL/ASSAY:

ALS Chemex Labs:

\$3,678.26

Activation Labs:

308.16

Vancouver Petrographics:

332.20

4,318.62

VEHICLE COSTS:

18 days @\$40/day

\$720.00

1,310 km @ \$.30/km

393.00

1,113.00

ACCOMODATION/MEALS:

36 man days @ \$60/man/day

2,160.00

HELICOPTER:

Aug 23-25, 2000

1,066.35

SUPPLIES:

Flagging, thread, sample bags, aluminum tags

195.42

REPORT COMPILATION AND MISCELLANEOUS:

Photocopies, map printing, report binding, telephone, freight

191.00

9,044.39

TOTAL:

\$21,706.89

APPENDIX G

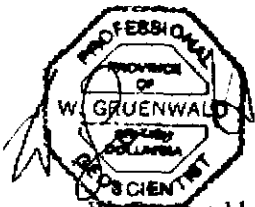
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- Cathro, M.S. and Lefebure, D.V. (2000) Several New Plutonic related Gold, Bismuth and Tungsten Occurrences in Southern British Columbia; Geological Field Work, 1999; Paper 2000-1
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APPENDIX H CERTIFICATE

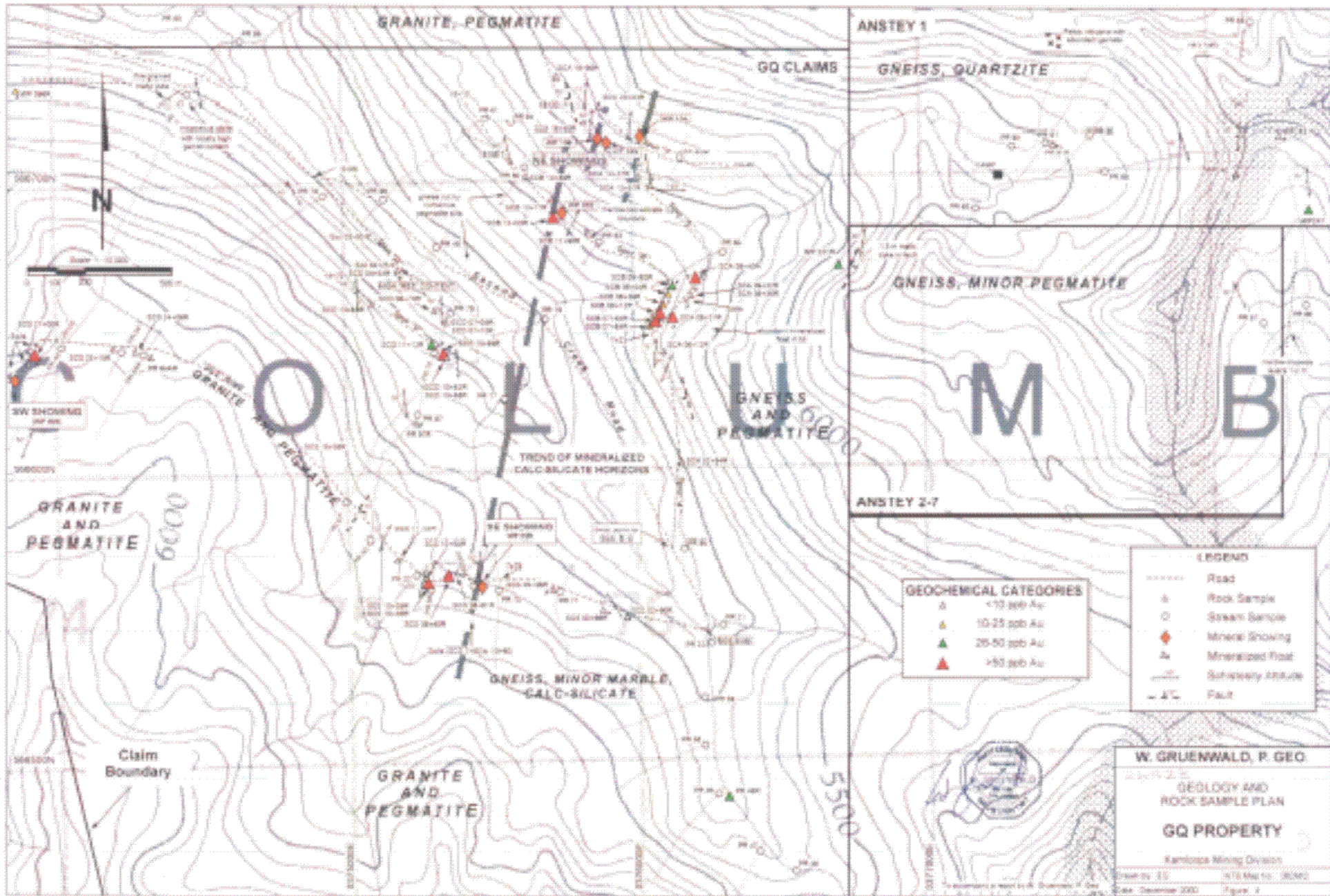
I, WARNER GRUENWALD OF THE CITY OF VERNON, BRITISH COLUMBIA HEREBY CERTIFY THAT:

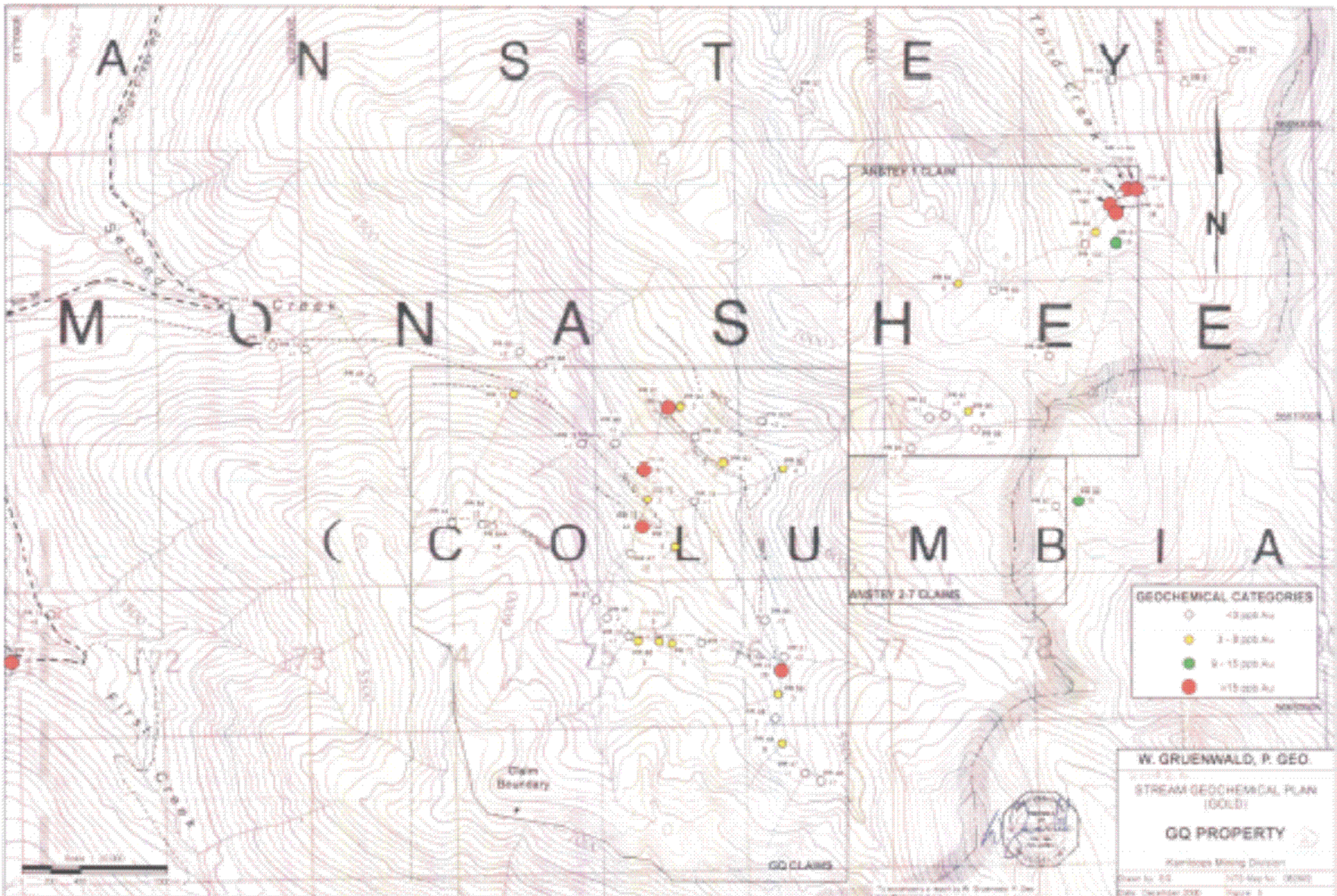
1. I am a graduate of the University of British Columbia with a B. Sc. degree in Geology (1972).
2. I am a registered member of the Professional Engineers and Geoscientists of British Columbia (#23202).
3. I am a fellow of the Geological Association of Canada (F2958)
4. I am employed as consulting geologist and president of Geoquest Consulting Ltd., Vernon, and B.C.
5. I have practiced continuously as a Geologist for the past 28 years in western Canada and the US.
6. I was actively involved in the 2000 exploration program on the GQ property.

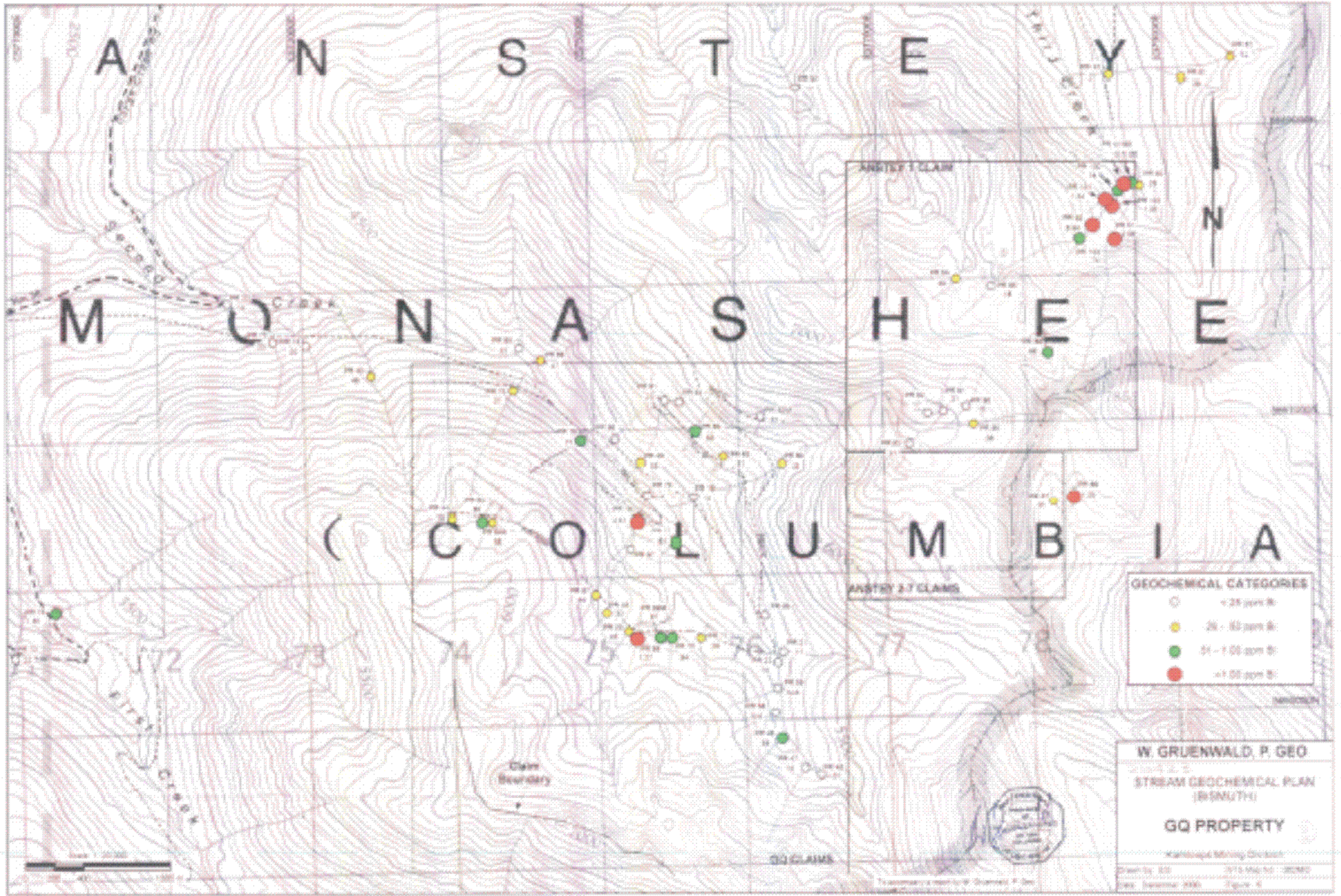


W. Gruenwald, P. Geo., FGAC

Dated: December 19, 2000





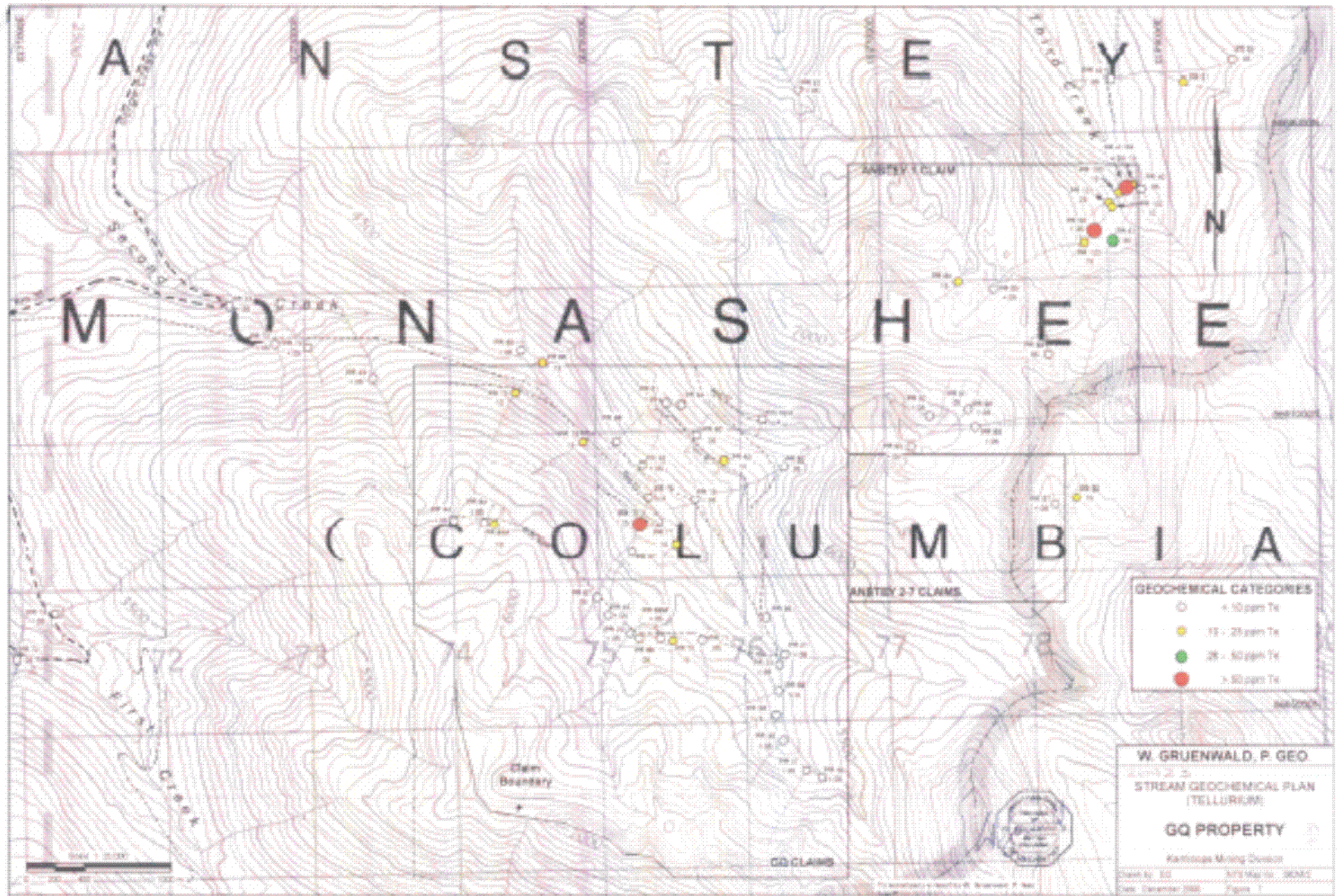


GEOCHEMICAL CATEGORIES

○	<math>< 25 \text{ ppm Si}</math>
●	$26 - 50 \text{ ppm Si}$
●	$51 - 100 \text{ ppm Si}$
●	$> 100 \text{ ppm Si}$

W. GRUENWALD, P. GEO
 STREAM GEOCHEMICAL PLAN
 (BISMUTH)
 GQ PROPERTY
 Kanawha Mining District

Scale: 1" = 20,000'
 Date: 10/15/00
 10/15/00
 10/15/00



GEOCHEMICAL CATEGORIES

○	< 10 ppm Te
●	11 - 25 ppm Te
●	26 - 50 ppm Te
●	> 50 ppm Te

W. GRUENWALD, P. GEO.

STANDARD MAPPING DIVISION

STREAM GEOCHEMICAL PLAN (TELLURIUM)

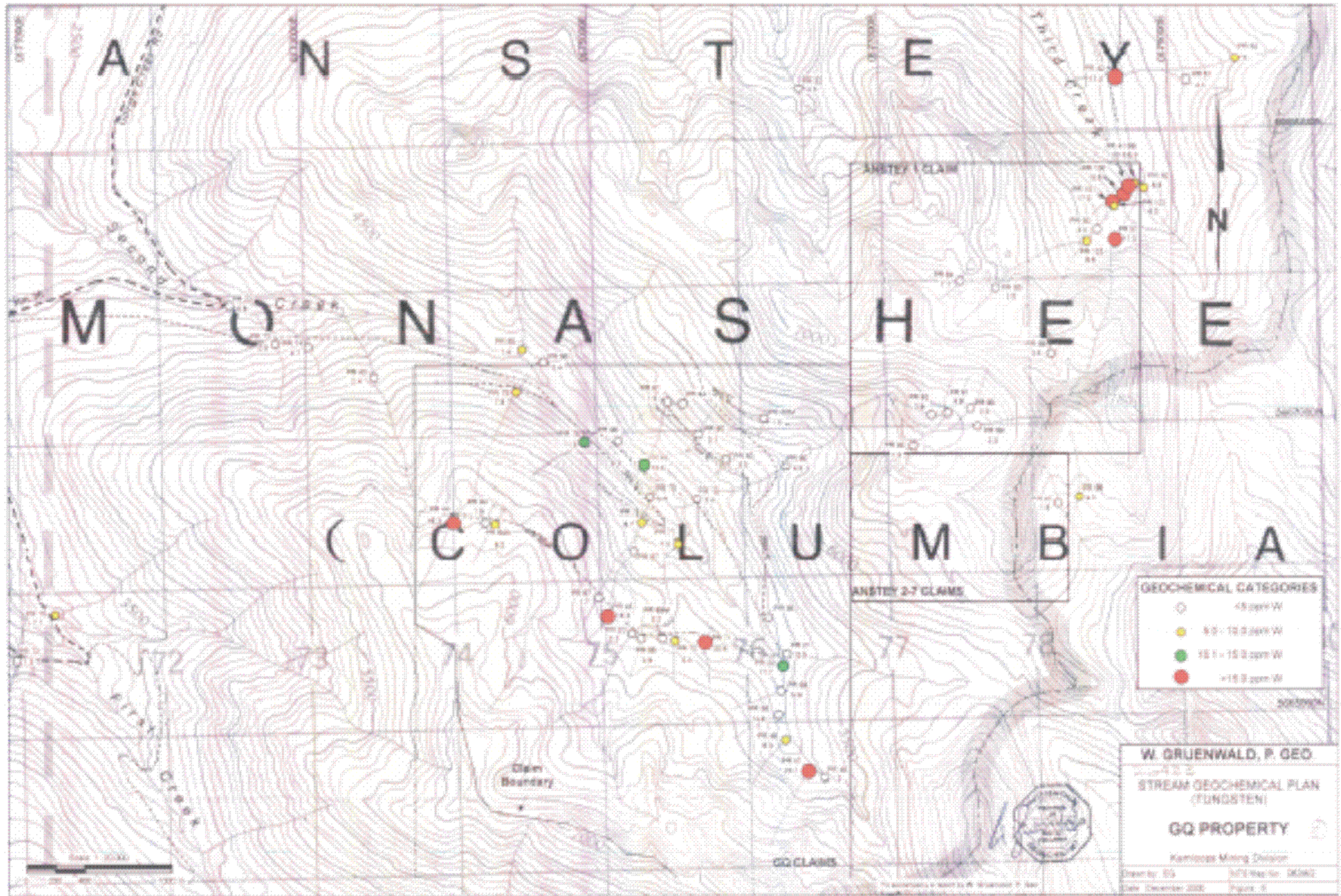
GQ PROPERTY

Standard Mapping Division

Scale: 1:25,000

DATE: December 1988

FIGURE 1



GEOCHEMICAL CATEGORIES

	<math>< 5 \text{ ppm W}</math>
	$5.0 - 10.0 \text{ ppm W}$
	$10.1 - 15.0 \text{ ppm W}$
	>15.0 ppm W

W. GRUENWALD, P. GEO.
 STREAM GEOCHEMICAL PLAN
 (FUNGSTEN)
GQ PROPERTY
 Kamloops Mining Division
 Drawn by: GG MFE Map No: M2062
 Date: December 2002 Page: 5



Scale 1:50,000