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ASSESSMENT REPORT

describing

REPORT ON GEOLOGY, MINERALIZATION AND GEOCHEMISTRY

at the

STRAW-LION PROPERTY
Straw 1-43 YB93671-YB93713
Lion 1-58 YB93714-YB93771

NTS 105G/1, 2, 7 and 8
Latitude 61°15'N and Longitude 130°30'W

in the

Watson Lake Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

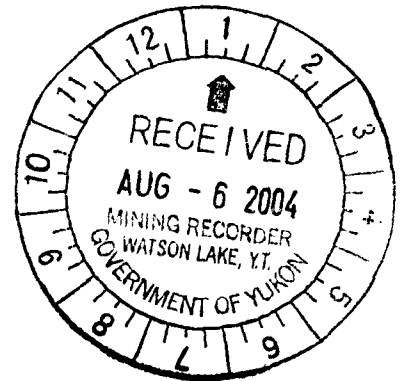
for

FIRESTONE VENTURES INC.

by

William A. Wengzynowski, P Eng.

January 2004



This report has been examined by
the Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory. It is noted as
being work in the amount

45,450

M. B. [Signature]

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

Costs associated with this report have been
approved in the amount of \$ 45,450.00
for assessment credit under Certificate of
Work No. 96 25698

[Signature]

Mining Recorder
Watson Lake Mining District

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SUMMARY AND RECOMMENDATIONS

The Straw-Lion property is being explored primarily for emerald but also has potential for volcanogenic massive sulphide (VMS) mineralization. It consists of 101 mineral claims located 45 km south of the Robert Campbell Highway in southeastern Yukon. The claims are staked under the Yukon Quartz Mining Act and cover about 2000 hectares. The property is owned by True North Gems Inc. and is under option to Firestone Ventures Inc., which can earn a 60% interest.

Emeralds are a gem variety of beryl with characteristic deep green colouration caused by chromium impurities. Exploration being conducted at the Straw-Lion property is based on a published exploration model that incorporates features known to occur at the Regal Ridge emerald prospect located 5 km to the northwest. This model for emerald formation involves hot, volatile rich fluids migrating upward and outward from a granite intrusion to produce veins in wallrocks of mafic and ultramafic composition. Alteration of chromium rich wallrocks by beryllium bearing fluids brings the two key components together, thus permitting crystallization of emeralds in open spaces along vein fissures.

The geological setting in the southwestern half of the property (Straw claims) closely resembles the setting at the Regal Ridge emerald prospect. Notably, three zones of tourmaline bearing, pegmatite dykes and quartz veins cut Devonian age chlorite schist and lesser golden muscovite schist near their contact with a Cretaceous age, two-mica granitic stock. Beryl crystals and beryllium soil geochemical anomalies are associated with the tourmaline bearing dykes and veins. Tourmaline crystals also occur as radiating aggregates along foliation planes within the schists. Soils derived from the chlorite schists are strongly enriched in chromium. No emeralds have been discovered on the Straw-Lion property but the mineralogical and geochemical features described above are characteristic of emerald bearing areas at Regal Ridge and are consistent with the exploration model. Future work should focus on emerald potential at the Trident, Neptune and Davey Jones Zones. Follow up prospecting at the Neptune Zone should also include an area of anomalous copper soil geochemical values and malachite stained talus that could be derived from a buried VMS source similar to the nearby Fyre Lake deposit.

Reconnaissance work in 2003 showed that the northeastern part of the Straw-Lion property (Lion claims) lacks key geological and geochemical features required by the emerald exploration model. The only additional work on the Lion claims should be done in the vicinity of a reconnaissance soil sample site that returned anomalous values for VMS pathfinder elements (silver, copper, lead and zinc). Rocks exposed on the Lion claims are capable of hosting that type of mineralization, and therefore minor follow up prospecting and soil sampling should be performed.

Follow up work is definitely warranted on the Straw property and should consist of saturation prospecting in the vicinity of the beryllium-chromium anomalies and the existing beryl occurrence.

INTRODUCTION

The Straw-Lion property is located in the Finlayson Lake district of southeastern Yukon Territory. It is owned by True North Gems Inc. and is under option to Firestone Ventures Inc. This report describes the results of the 2003 program conducted by Archer, Cathro & Associates (1981) Limited and compares them to results from other properties in southeastern Yukon that are also being explored for emeralds.

Work at the Straw-Lion property was conducted from 3 to 4 person fly camps on the property in two stages: July 20 to 27 and August 14 to 25. It consisted of geological mapping, prospecting, silt and soil sampling, pan sampling and claim surveys. All work was supervised by the author and his Statement of Qualifications appears in Appendix I.

PROPERTY LOCATION AND CLAIM DATA

The Straw-Lion property consists of 101 contiguous mineral claims located in southeastern Yukon at latitude 61°15'N and longitude 130°30'W on NTS 105G/1, 2, 7 and 8 (Figure 1). Claim data is shown below while locations of individual claims are shown as Figure 2. The claims are registered with the Watson Lake Mining Recorder in the name of True North.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Straw 1 - 43	YB93671 - YB93713	July 8, 2004
Lion 1 - 58	YB93714 - YB93771	July 8, 2004

*Expiry dates do not include assessment credit for work performed in 2003 but not yet filed.

ACCESS AND GEOMORPHOLOGY

The Straw-Lion property lies about 45 km south of the junction between the Robert Campbell Highway and the limited access Kudz ze Kayah Road. It is 165 km northwest of the community of Watson Lake, where the closest year round helicopter base is located. In summer 2003, most camp moves and supply runs were done with a helicopter from a temporary base at Finlayson Lake 46 km north of the property. Equipment, supplies and personnel were usually driven from Whitehorse to Finlayson Lake by truck, a distance of 545 km. The closest lake suitable for float-equipped fixed-wing aircraft is Fire Lake about 2 km southwest of the property. The nearest airstrip is 6 km to the northwest on the Regal Ridge property. The closest ground access is at Regal Ridge. That access route involves the Kudz ze Kayah Road, which extends 20 km south from the Robert Campbell Highway, and a 25 km bulldozer trail from the end of the road to Regal Ridge.

The Straw-Lion property lies within the Pelly Mountains in the headwaters of the Liard River. Elevations on the property range between 1280 and 1920 m. Topography is relatively rugged with predominantly northwest flowing streams draining valleys that often emanate from cirques. The main valleys are U-shaped with flat bottoms covered by glaciofluvial outwash, flanked by lateral moraine and moderate to steep hillsides, typically 20 to 50°. Outcrop is most abundant along the north sides of ridges and in actively eroding creek cuts. Ice sheets covered the entire Pelly Mountain

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FIGURE 1

LOCATION

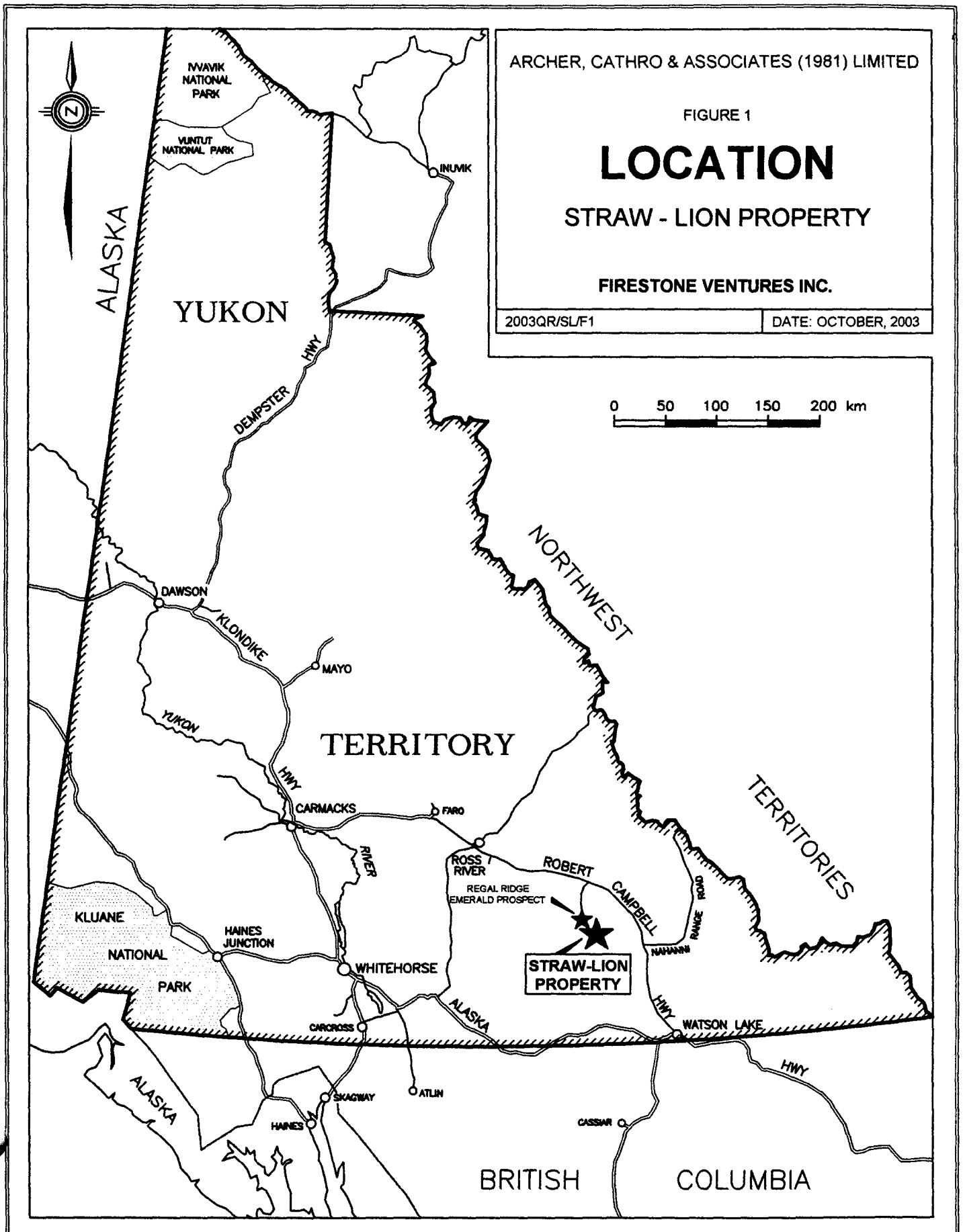
STRAW - LION PROPERTY

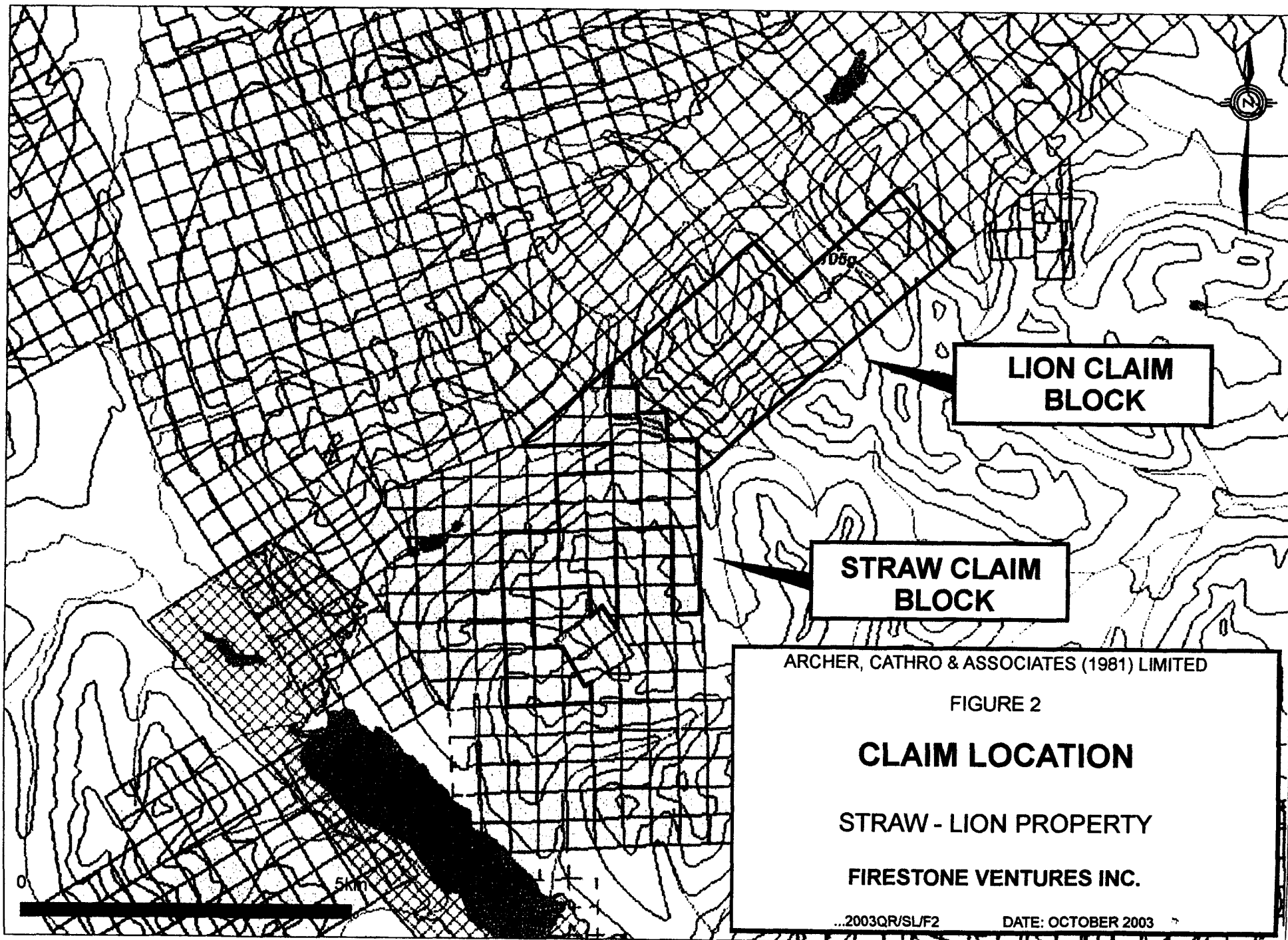
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0 50 100 150 200 km





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FIGURE 2

CLAIM LOCATION

STRAW - LION PROPERTY

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area during the Pleistocene and alpine glacial features such as cirques, tarn lakes and moraines are common.

Much of the property is above tree line. Vegetation ranges from scattered stunted spruce, balsam and willow at lower elevations, giving way to buckbrush and moss and ultimately to lichen covered rock at higher elevations.

Creeks draining the claims provide ample water for camp purposes and there are numerous good campsite locations.

The climate in the Pelly Mountains is characterized by very cold, long winters, truncated fall and spring seasons and short, cool and often wet summers. The normal operating season for mineral exploration is from late May through early October.

PROPERTY HISTORY

The Finlayson Lake District has seen sporadic exploration since the 1960's for a number of deposit types, notably volcanogenic massive sulphides (VMS), tungsten skarns and asbestos. Much of the work was reconnaissance in nature and was conducted as part of wide ranging regional scale programs. The most recent and intensive exploration began in 1994 following discovery of the Kudze Kayah VMS deposit. This discovery resulted in a staking rush that enveloped much of the district. Follow up exploration led to the discovery of additional VMS deposits (Wolverine, Ice, GP4F and Fyre Lake).

The emerald potential of the district was first recognized in August 1998 when the author discovered an occurrence at what is now the Regal Ridge prospect. The discovery was made on behalf of Expatriate Resources Ltd. while exploring for VMS type, base metal mineralization. The first emeralds were found by prospecting while following up anomalous copper, tungsten, gold and beryllium values obtained from contour controlled soil sampling. Expatriate performed focussed emerald exploration at Regal Ridge in 1999 and identified a number of emerald showings in outcrop and float over a 950 by 350 m area. In 2000 True North arranged to purchase the Regal Ridge property from Expatriate and has since continued to define the emerald prospect through geological mapping, prospecting, soil geochemistry, diamond drilling, trenching, bulk sampling and underground development.

There are no recorded mineral occurrences on the Straw-Lion property. However, because the property is located within a few kilometres of the Fyre Lake VMS deposit, parts of it have been staked at various times since 1961 by different groups (DeKlerk, 2002). Exploration has been largely reconnaissance scale and has included geological mapping, prospecting, soil and stream geochemistry and airborne magnetic and electromagnetic surveys. The most noteworthy results from this work in respect to emerald exploration are high tungsten and beryllium soil geochemical values associated with an area of quartz-tourmaline veining in chlorite schists within the western part of the Straw claims.

Based on a statistical analysis of soil geochemical results collected during the 2001 and 2002 field programs at Regal Ridge (Gaboury, 2002) thresholds for moderate and strong anomalous values were

determined to be 1.45 and 3.78 ppm beryllium and 5.3 and 29.0 ppm tungsten, respectively, for analyses using near total digestion. Peak values from pre-2003 sampling at the Straw claims were 5 ppm beryllium and 215 ppm tungsten (Stroshein, 1991).

GEOLOGICAL SETTING

Regional Geology

The Straw-Lion property lies within the Yukon-Tanana Terrane, 11 km northeast of the Tintina Fault (Figure 3). This regional scale, transcurrent fault extends across Yukon into Alaska and resulted in approximately 420 to 460 km of dextral offset in Early Tertiary times (Mortensen, et al, 2000). The Yukon-Tanana Terrane is composed of complexly deformed, greenschist to lower amphibolite facies metamorphic rocks of Paleozoic age (Tempelman-Kluit, 1977). The main components are Pre-Late Devonian metaclastic and carbonate rocks, and Late Devonian to Mississippian metavolcanic, metasedimentary and metaplutonic rocks. The latter package includes bimodal volcanic suites, serpentinized ultramafic bodies thought to be sills, and granite and quartz monzonite stocks of the Simpson Range Plutonic Suite. Figure 4 is a schematic stratigraphic column showing the relationships between the main Paleozoic units and their approximate ages.

Rocks of the Yukon-Tanana Terrane represent an island arc assemblage that was deformed and imbricated during accretion to the North America craton during the Late Paleozoic (Mortensen, 1992). A second stage of deformation occurred in the Early Cretaceous prior to emplacement of peraluminous granitic intrusions belonging to the approximately 112 Ma Anvil Plutonic Suite (Mortensen, 1999).

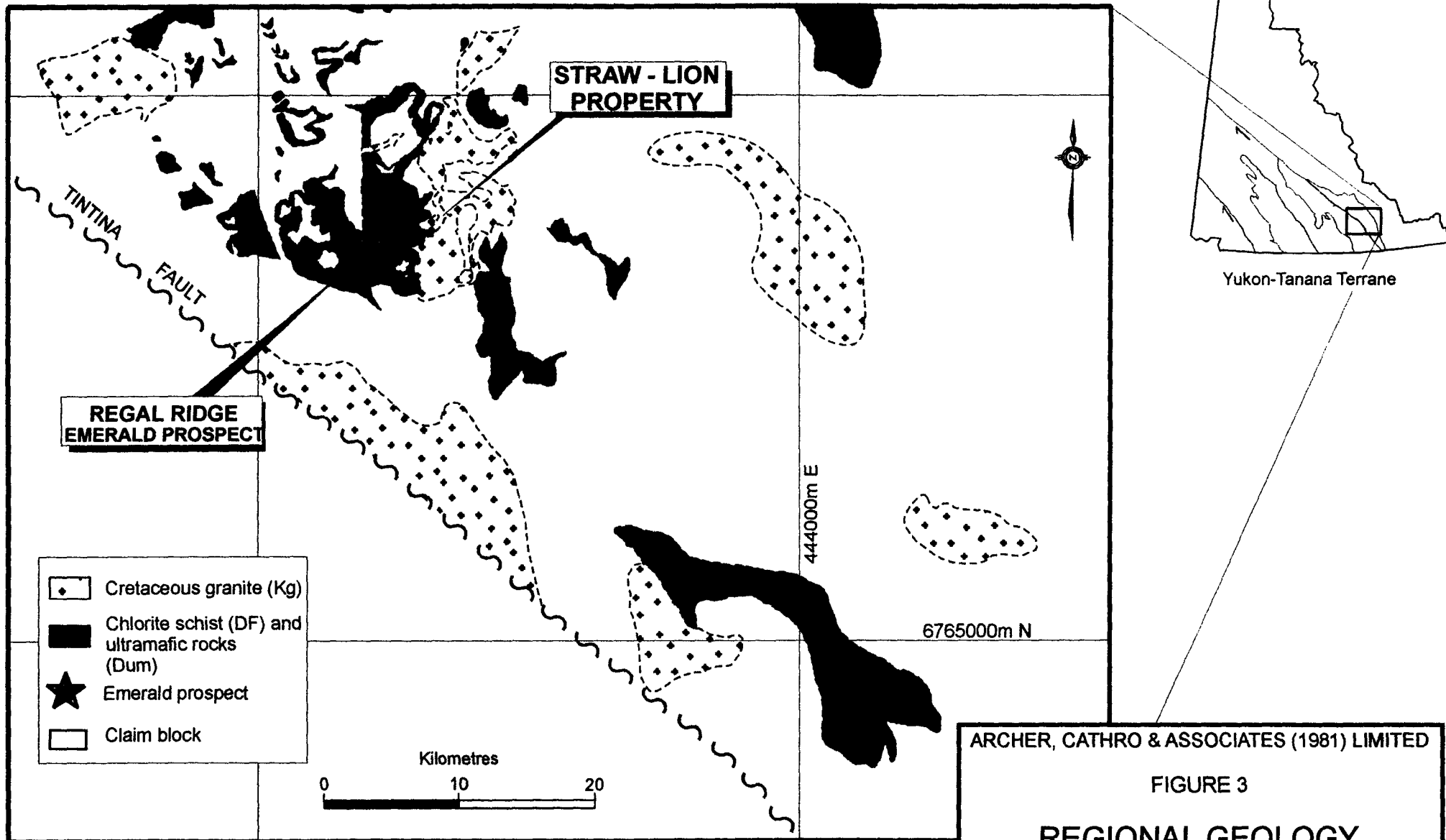
Property Geology

The Straw-Lion property is underlain by three Late Devonian stratified units (Dq, DF and DK), Late Devonian ultramafic sills (unit Dum), Mississippian basalt (unit Mb) and Mid-Cretaceous granitic intrusions (unit Kg), as shown on Figure 5. The Devonian stratified units have undergone burial metamorphism and exhibit foliation that approximately parallels compositional layering. Foliations generally dip shallowly and stratigraphic contacts are subhorizontal. The Mississippian basalt contains large olivine phenocrysts with little evidence of strain. This unit is part of the Money Klippe and is separated from the Devonian stratified rocks by a thrust fault. The following paragraphs contain brief descriptions of the various lithologies from oldest to youngest.

Unit Dq is Late Devonian or earlier in age and regionally includes a variety of lithologies. Where mapped on the Straw-Lion property it is predominantly light brown weathering, micaceous quartzite. The degree of foliation is proportional to muscovite content.

Unit DF is the Fire Lake mafic metavolcanics. These rocks are predominantly chlorite schist but grade locally to biotite schist and occasionally to golden muscovite schist. They range from weakly to strongly foliated and form most of the cliffs on the property.

Unit DK is correlated to the Kudzu Kayah felsic metavolcanics. Feldspar-muscovite-quartz schist which is characteristic of the unit regionally is not present on the Straw-Lion property. Most of the



After Murphy, et al, 2003

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FIGURE 3

REGIONAL GEOLOGY

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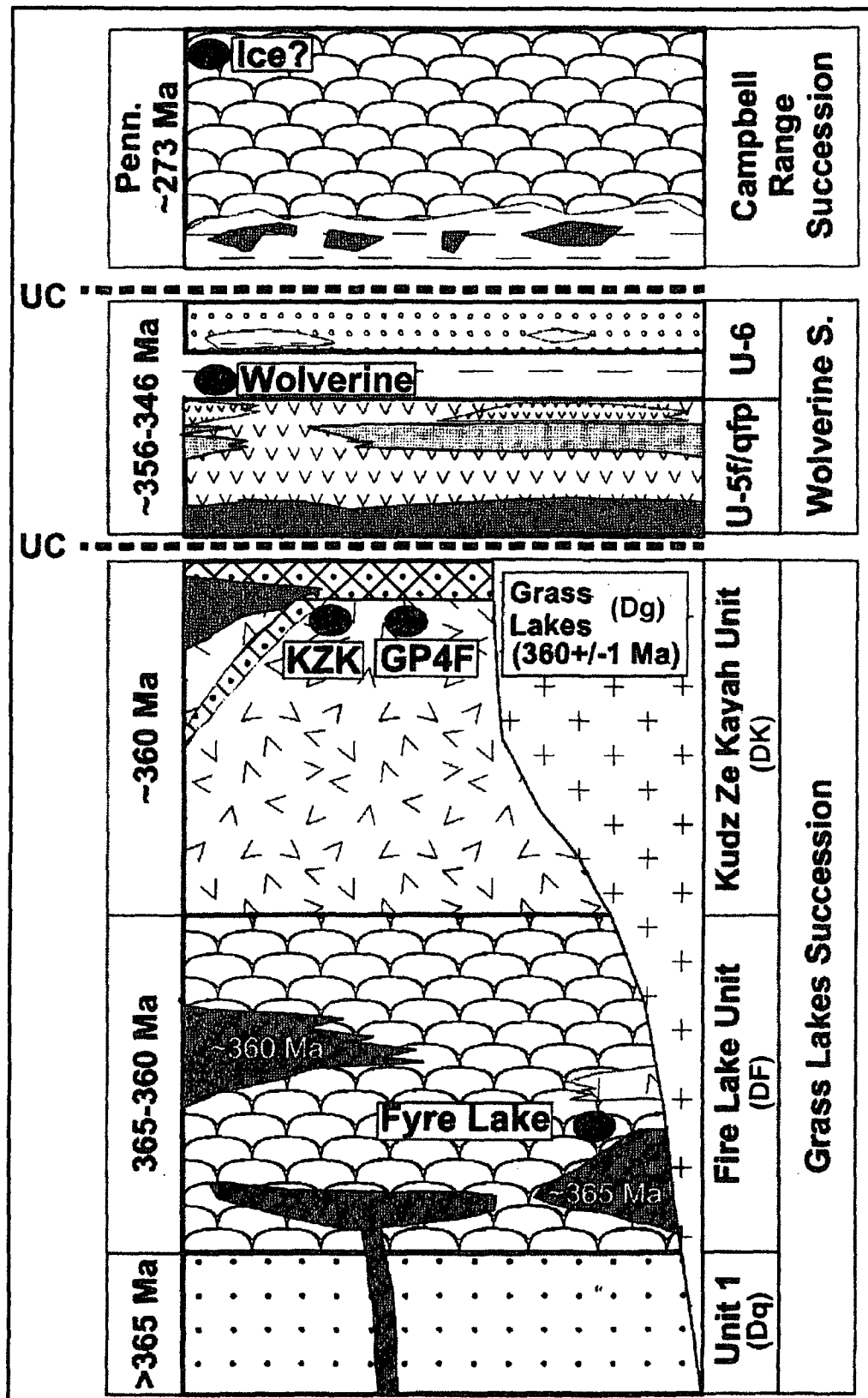


Fig 4. Schematic section of the Finlayson Lake district with the Paleozoic stratigraphy and location of VMS deposits. Dark intrusive rocks within the Fire Lake Unit are ultramafic unit Dum. Cretaceous granitic intrusions (Kg) are not shown. Modified after Murphy and Piercey, 1999 and 2000 and Piercey, et al, 2002

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FIGURE 4

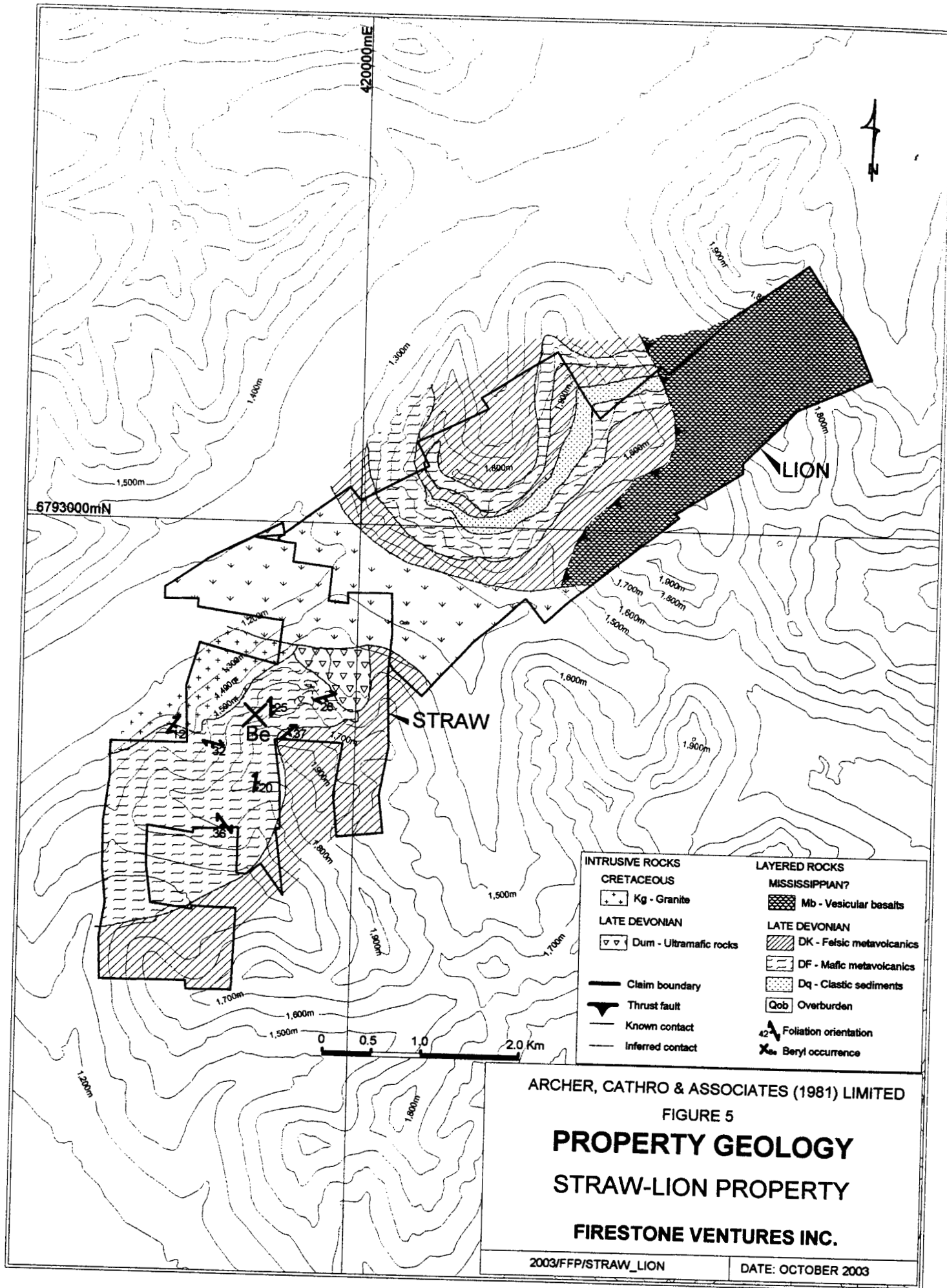
STRATIGRAPHY

STRAW - LION PROPERTY

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DATE: OCTOBER 2003



strata that have been assigned to this unit are carbonaceous phyllite. The phyllite is dark grey in colour and locally contains abundant calcite lenses up to 5 cm in length.

Unit Dum is ultramafic rock which is usually strongly serpentized. On the Straw-Lion property it is confined to a few small bodies within the upper portion of unit DF mafic metavolcanics. These rocks tend to weather rusty brown and commonly have mottled rounded surfaces.

Unit Mb may be an unmetamorphosed equivalent of unit DF mafic metavolcanics or part of the serpentized hartzburgite and ultramafic package at the base of the Wolverine succession. It consists of porphyritic basalt with minor disseminated sulphides. Olivine phenocrysts up to 1 cm in diameter are surrounded by a fine grained, dark green to brown matrix. No pillows were observed.

Unit Kg is grey weathering, biotite-muscovite granite. The rocks are unfoliated, coarse grained and equigranular. Pegmatite dykes noted in various parts of the property are likely associated with this unit.

On the Straw claims, in the southwestern part of the property, unit DF mafic metavolcanic rocks form the base of the exposed stratigraphic section and are overlain by unit DK carbonaceous phyllites. An approximately 800 m diameter unit Dum ultramafic sill has intruded the upper portion of the unit DF metavolcanics in the northern part of the Straw claims. The unit Kg granite exposed along the northwestern edge of the Straw claim block represents the southeastern corner of a 15 km long, up to 5 km wide stock. The Regal Ridge emerald prospect is adjacent to the same stock on its northwestern margin.

The central part of the Straw-Lion property lies in a broad valley that is completely blanketed by overburden. North of this valley on the Lion claims, there are no unit Dum rocks and the only granite rocks are in a 400 m diameter plug intruded into unit Mb basalt within the Money Klippe. The Devonian stratified rocks are mapped as complexly interlayered. Assuming the unit correlations are correct, this interlayering could be due to imbrication along the sole of the thrust fault. Alternatively, the apparent interlayering may be explained by inaccurate correlations. Regional mappers (Murphy and Piercey, 1999) have recognized thin sequences of units DF and DK underlain by a thick unit Dq succession. Unit Dq shows a relatively high degree of lithological variation compared to the other units and it is possible that the 2003 mappers have incorrectly assigned some Dq lithologies to unit DF or DK.

DEPOSIT TYPES

The geological setting in the southwestern part of the Straw-Lion property closely resembles that at the Regal Ridge emerald prospect located about 5 km to the northwest. At Regal Ridge chromium rich emerald crystals occur within quartz veins and in layers and pockets within altered selvages developed along the margins of the veins. At least 13 mineralized veins occur in a 2 sq km area on either side of a prominent ridge. The mineralized veins cut chloritic schist of the Fire Lake mafic metavolcanic unit (DF) near the contact with a granitic stock of the Anvil Plutonic Suite (Kg). The veins typically range between 0.2 and 1 m in width. The emerald crystals are up to 4 cm long and are typically surrounded by fine dark tourmaline with minor scheelite and chalcopyrite. Emerald is

developed adjacent to the veins where they cut mica rich layers within the schist, and occasionally in the veins themselves (Groat, et al, 2002).

During summer 2002, True North conducted bulk sampling at the prospect. On December 12, 2002, it reported favourable results from seven areas. The most promising values were from the Southwest Zone where a 6.36 tonne bulk sample yielded 11.59 kg of gem concentrate, of which 121.42 g were gem quality and 587.33 g near gem quality. A total of 284, +4.5 mm gemstones were extracted from the concentrate, at an average of 0.33 g (1.75 carats) per stone (Smith, 2002).

Emerald deposits are relatively rare, with current or past production from mines in Columbia, Pakistan, Afghanistan, Russia, Zambia, Egypt and Brazil. They are subdivided into two main types. Most emerald deposits belong to Type I (Schwarz and Giuliani, 2001) which are related to granitic intrusions. The Columbian occurrences are unique and comprise Type II. There, the emeralds are associated with hydrothermal activity in areas where fluid circulation is controlled by tectonic features such as thrust faults and shear zones. Regal Ridge is thought to be a Type I deposit based upon its geological setting.

Figure 6 illustrates the basic model for emerald formation at Regal Ridge. Fundamentally, emeralds are the gem variety of green beryl. The green colour is caused by chromium or less commonly, vanadium impurities. The source of the beryllium needed to form the beryl at Regal Ridge is thought to be a nearby unit Kg granitic stock. Fluids derived from that beryllium reservoir presumably migrated outward and upward through the adjoining unit Dum ultramafic rocks and unit DF mafic metavolcanic schist, which are chromium reservoirs. Interaction between the beryllium enriched vein fluids and chromium bearing wallrocks resulted in formation of emeralds along the margin of the veins (Murphy, et al, 2003).

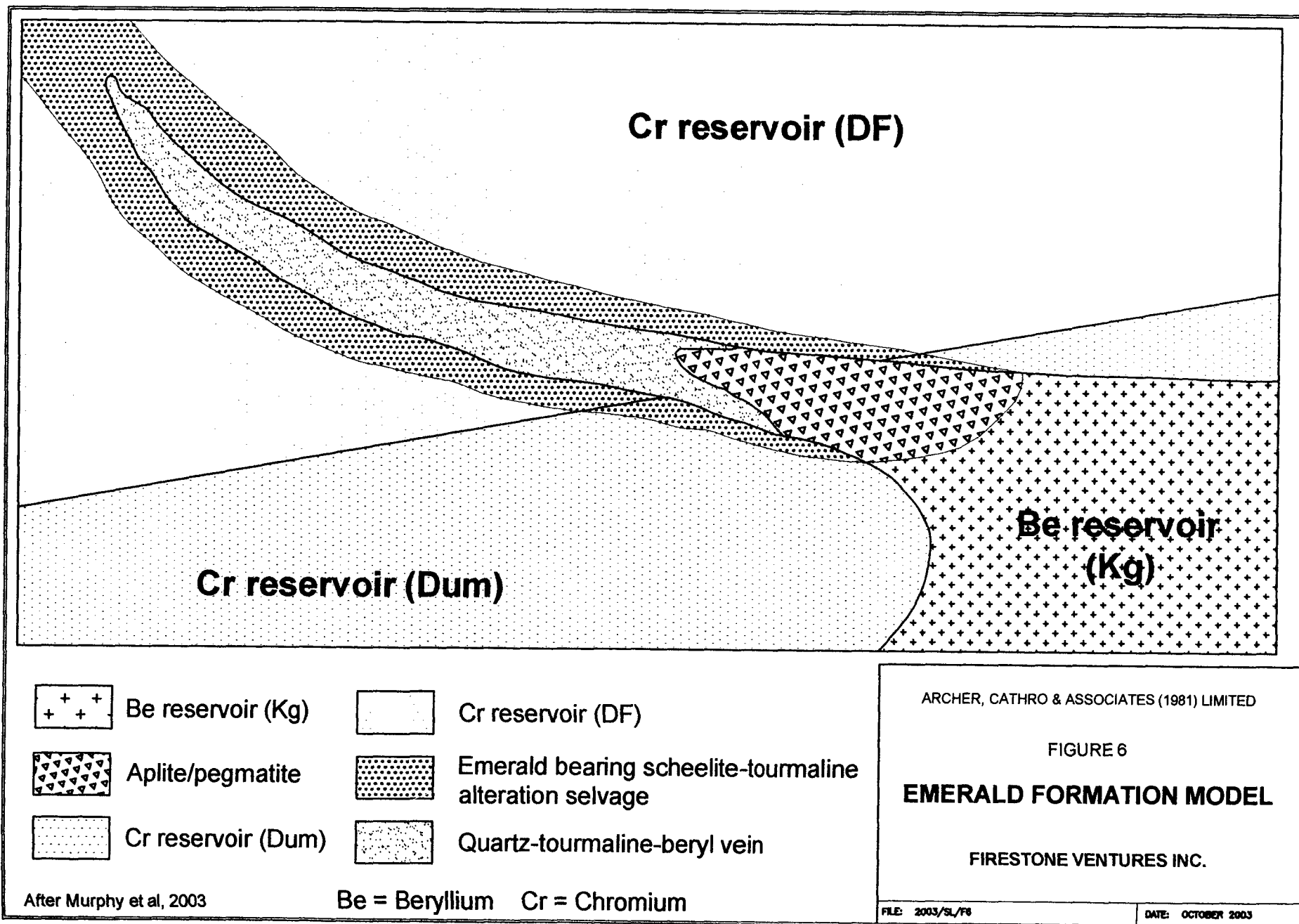
2003 EXPLORATION PROGRAM

The 2003 exploration program at the Straw-Lion property was done in two phases: July 20 to 27 and August 14 to 25. The program consisted of geological mapping, prospecting, soil and stream sediment sampling, pan sampling and claim surveys.

Mineralization

Three zones of alteration similar to those found at the Regal Ridge emerald prospect were outlined on the Straw-Lion property in 2003. Beryl has been discovered in one of the alteration zones (Trident Zone). That zone and another 1.4 km to the southwest (Neptune Zone) are marked by moderately to strongly anomalous beryllium soil geochemistry. The three alteration zones are described in the following paragraphs.

The **Trident Zone** is located on a steep north facing slope and is hosted by unit DF chlorite schist. Black tourmaline crystals occur in a few pegmatite dykes up to 5 m thick and abundant quartz veins up to 0.5 cm thick in an area approximately 100 m in diameter. White to pale green opaque beryl crystals were discovered within the zone in a 10 cm wide by 3 m long section of silica and muscovite altered schist adjacent to a pegmatite dyke. The largest beryl crystal is 4 cm long and 1.2 cm in diameter. Although the crystals are opaque, they are solid and do not exhibit a rotten core.



The **Neptune Zone** is located on a gentle northwest facing slope at the other end of the ridge from the Trident Zone. Radiating bird's foot tourmaline crystals occur along foliation planes in unit DF chlorite schist over a 400 m length and 150 m width. Within this zone are areas of recessive weathering tourmaline bearing, golden muscovite schist and numerous quartz-tourmaline veins. A series of linear recessive benches, 5 to 10 m deep, cuts across the zone and could represent weathered fault structures. Around the end of the ridge, on a steep north facing slope, malachite staining is common on chlorite schist talus. Mineralization is found within a 300 m diameter area. The source is not exposed.

The **Davey Jones Zone** lies about 100 m northeast of the Trident Zone. It is hosted by unit DF chlorite schist and contains tourmaline both as individual crystals and forming radiating bird's foot aggregates. In places the tourmaline forms massive pods up to 12 cm thick. Three areas of tourmaline have been identified, the largest of which is about 100 m long and 25 m wide. This zone did not produce a beryllium soil geochemistry anomaly.

Geochemistry

Four classes of samples were collected during the 2003 exploration program:

- 1) stream sediment samples;
- 2) soil samples;
- 3) specimen samples; and
- 4) pan samples.

A total of 16 stream sediment samples, 395 soil samples and 14 pan samples were taken from the property in 2003.

Soil samples were collected in two different fashions depending upon topography. On steep, predominantly north facing slopes they were taken along contour lines at 25 to 100 m intervals. Along ridge tops and on relatively gentle south facing slopes, the sampling was conducted using a baseline. The baseline was marked with pickets at 100 m intervals and orange flagging at 25 m intervals. The soil samples were taken at 50 m intervals along lines spaced 100 m apart and oriented perpendicular to the baseline. All sample sites were marked with 0.5 m wooden pickets bearing an aluminum tag inscribed with the sample number and grid co-ordinate. The samples were taken from B or C Horizon soil, usually at depths between 20 and 30 cm below surface.

All stream sediment and soil samples were shipped to ALS Chemex in North Vancouver, B.C. At ALS Chemex samples were dried, screened to -80 mesh and then processed using HF, HNO₃ and HClO₄ digestion followed by an HCl leach and a combination of ICP-Mass Spectrometry and ICP-Atomic Emission Spectroscopy analyses. This process is described as a near total digestion. The analyses were for a total of 47 elements. Certificates of Analysis are contained in Appendix II.

Only two specimen samples were taken in 2003. Both were sent to UBC for mineralogical confirmation and testing. One sample was a beryl crystal (PS-107) and the other a pink mineral identified as a member of the epidote group (NB-048). Sample descriptions are located in Appendix III.

Pan samples were collected from streams draining the property. At each site, the gravel was coarse screened (< 5 mm) to fill a large pan. It was then panned to produce a heavy mineral concentrate. The concentrates were dried before being examined under a binocular microscope and ultraviolet light. Pan sampling is a technique that searches for heavier than average, resistate indicator minerals. Two key indicators of emerald are tourmaline and scheelite, both of which are easily concentrated by panning. If significant quantities of these minerals are present somewhere within the drainage, they should be relatively abundant in the pan concentrate.

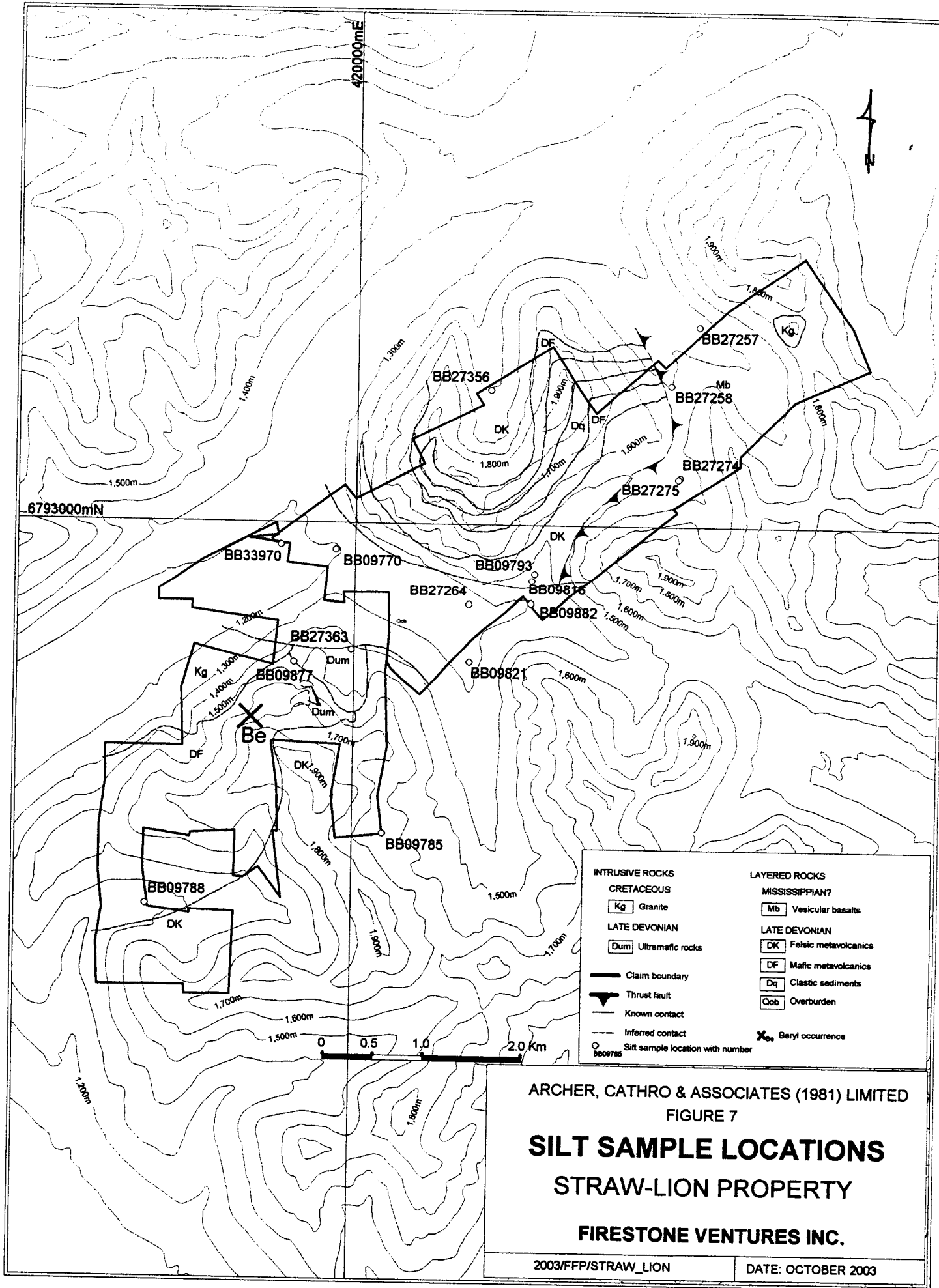
Sampling results are described in the following paragraphs. All of the analyses utilized a near total digestion procedure thus permitting direct comparison to published geochemical results from Regal Ridge.

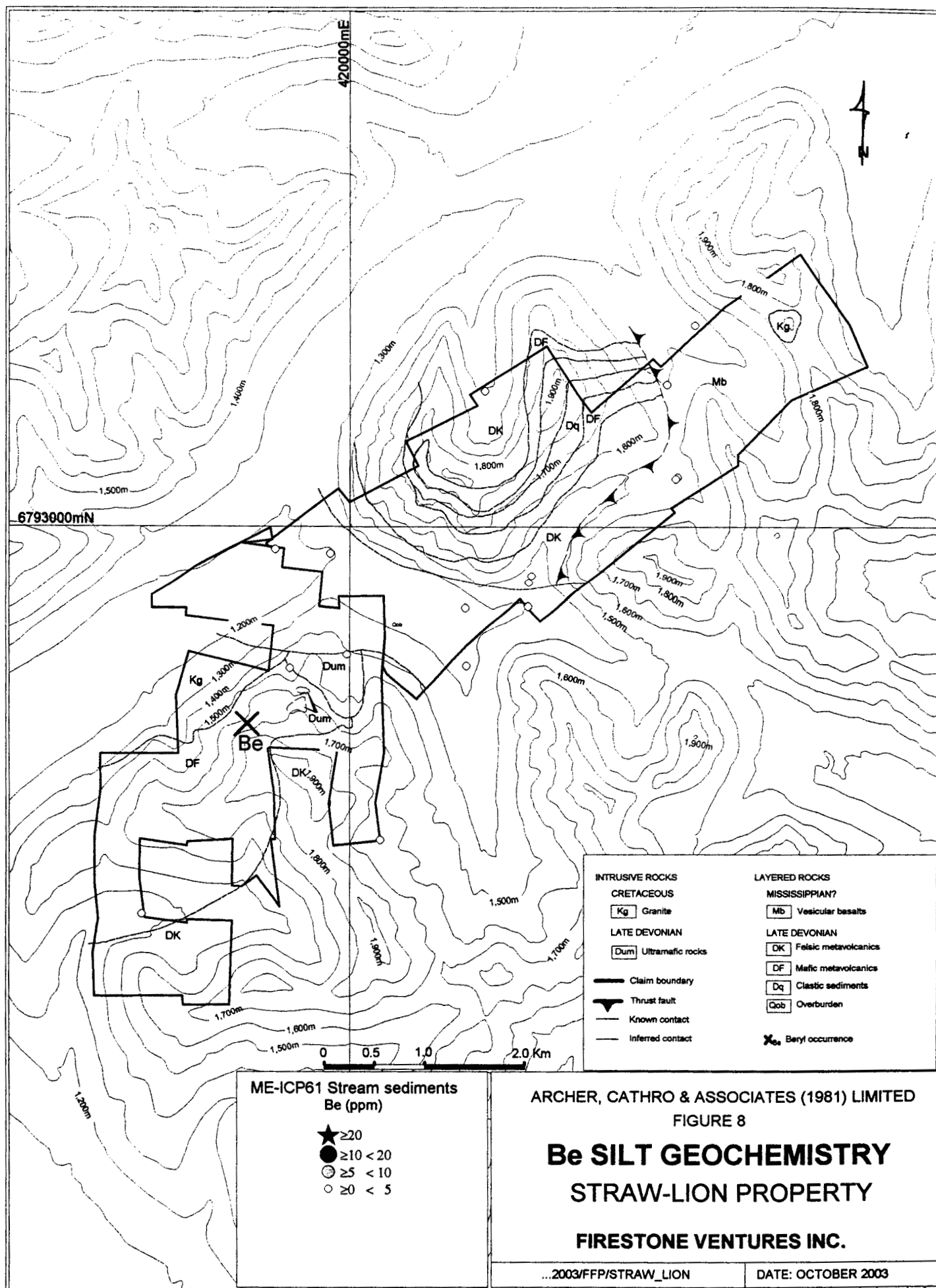
Silt sample locations are shown in Figure 7. Figures 8 and 9 illustrate beryllium and chromium results for silt fraction stream sediment samples taken from creeks draining the Straw-Lion property. The beryllium values in the silt samples were mostly background to weakly anomalous, with a peak value of 3.7 ppm. Chromium values from streams draining the Lion claims were low, but those from areas on the Straw claims that are underlain by unit DF mafic metavolcanics or unit Dum ultramafic rocks were moderately to strongly anomalous. The highest chromium value from a silt sample was 758 ppm.

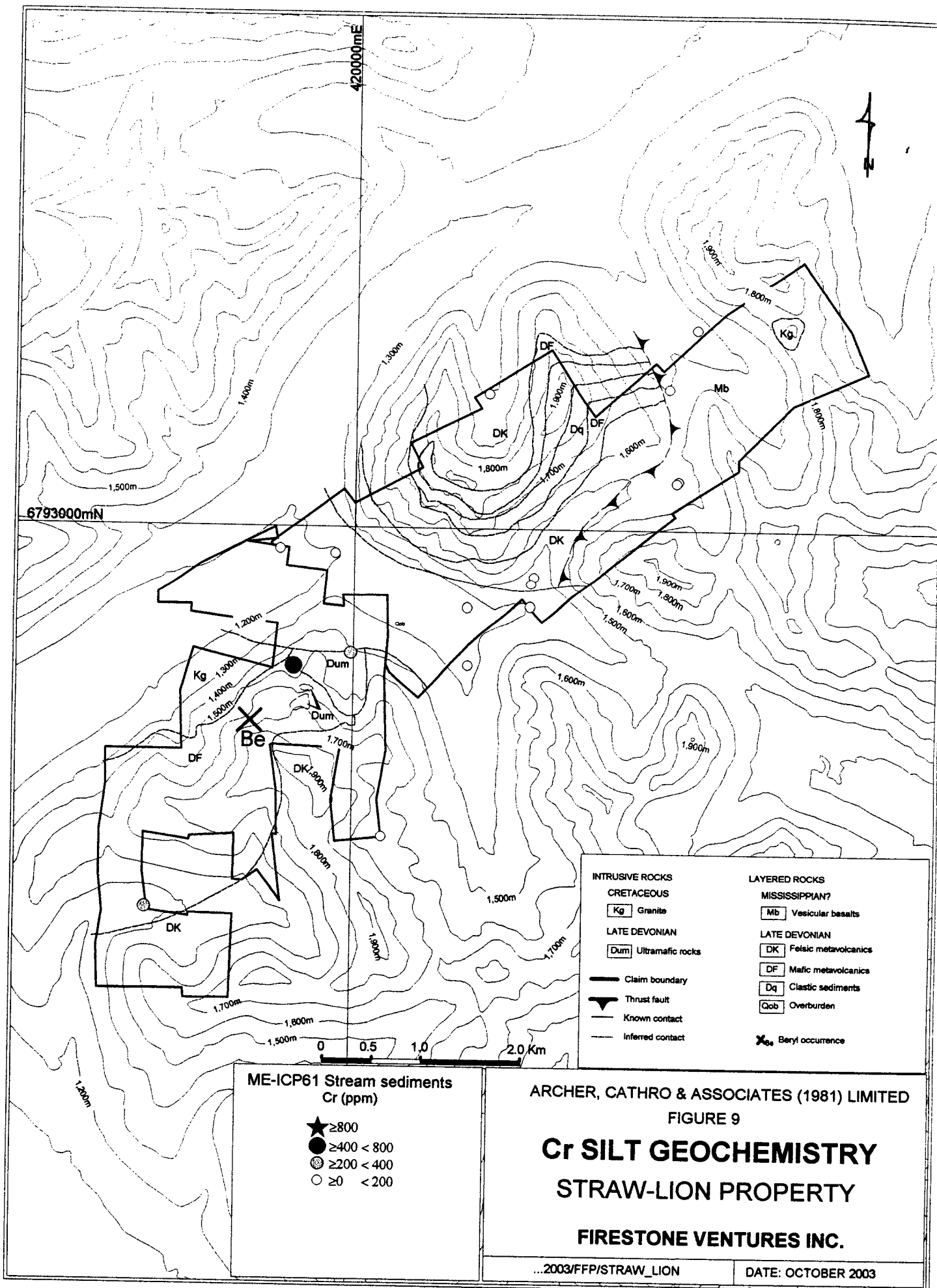
Soil sample locations for the Straw claims are shown on Figure 10 while detail grid soil sample locations are shown on Figure 11. Figures 12 and 13 illustrate beryllium and chromium values obtained from grid and reconnaissance soil samples collected on the Straw claims. Most of the samples again returned low values for beryllium but two clusters of moderately to strongly anomalous values were outlined. The largest and highest concentration (Trident Zone) is underlain by unit DF mafic metavolcanic rocks in the central part of the claim block about 100 to 400 m southeast of the granitic contact. The beryl occurrence described in the Mineralization Section lies at the south end of this cluster. The area of anomalous beryllium response is 500 by 125 m. The highest value (35.4 ppm beryllium) was taken about 100 m east of the beryl occurrence. The other cluster (Neptune Zone) is 1400 m to the southwest. Beryllium values within it are more erratic with isolated highs surrounded by lows. The peak value in this cluster is 22.9 ppm beryllium. Strong copper response was also noted from soils taken within the Neptune Zone. Twenty-three samples yielded greater than 500 ppm to a maximum of 1375 ppm copper. The area of anomalous response coincides with malachite stained unit DF talus.

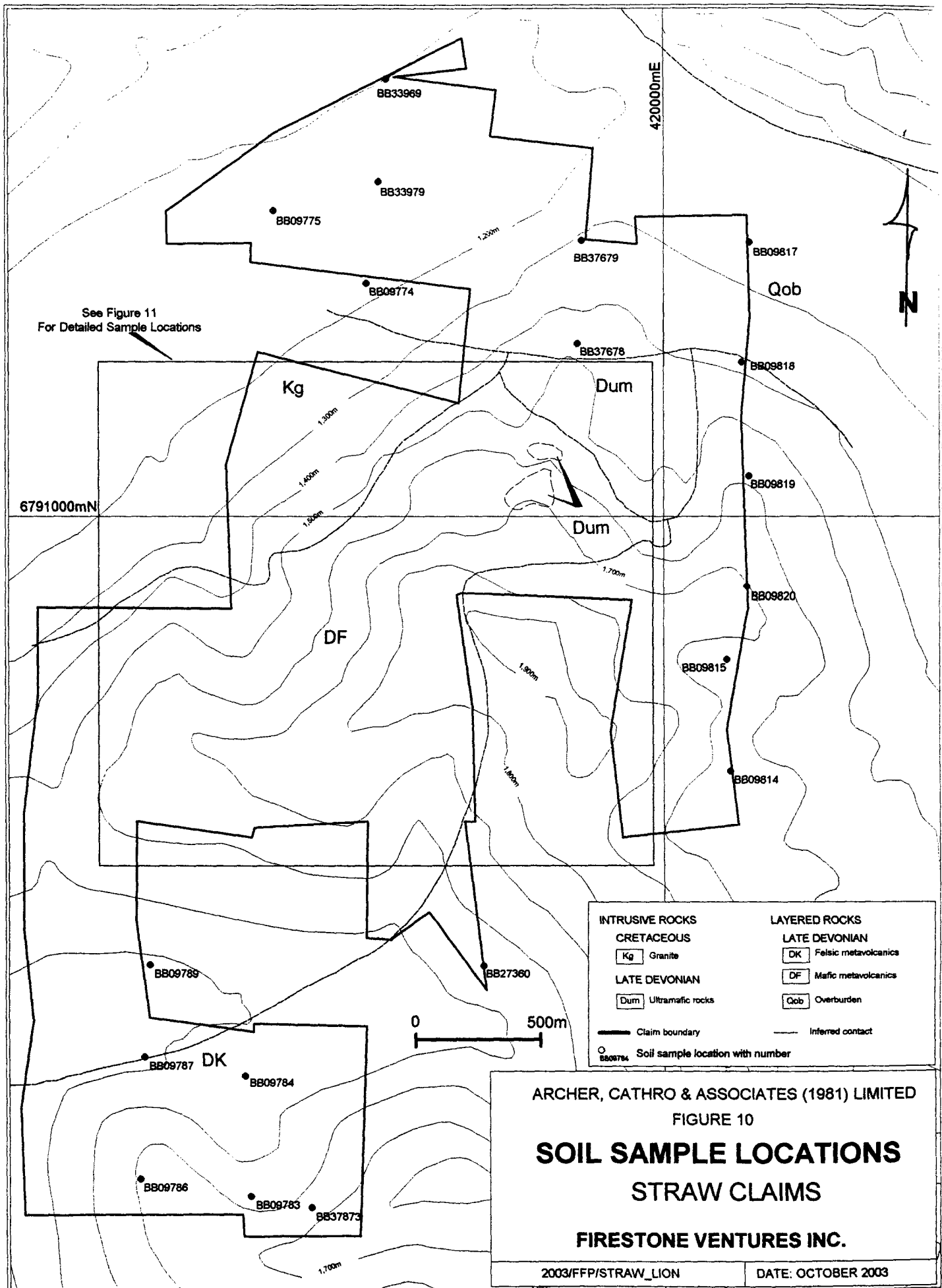
Chromium response from soil on the Straw claims was very favourable and the majority of the samples taken in areas of unit DF or Dum returned moderately to strongly anomalous values. The highest chromium value is 1120 ppm.

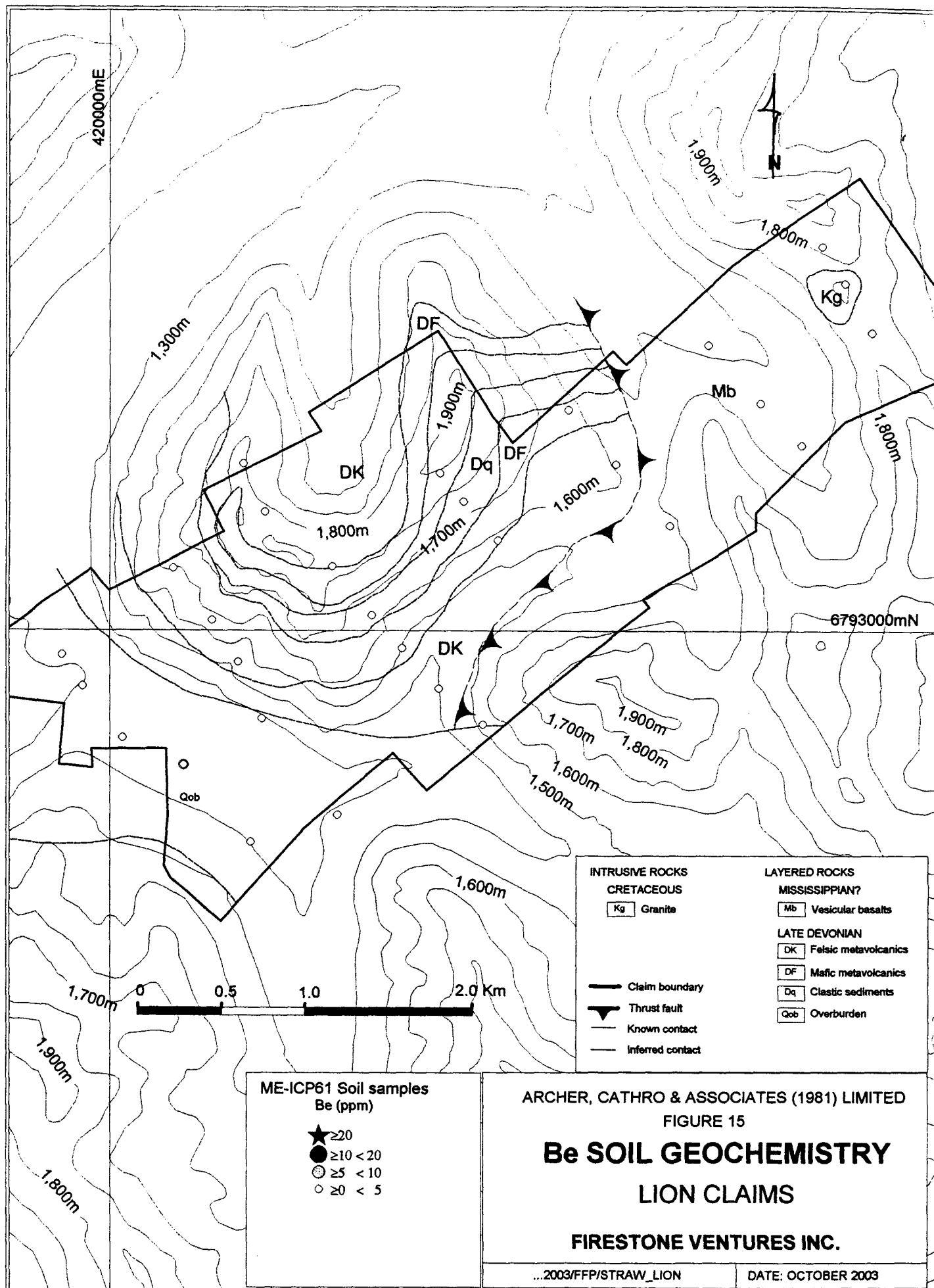
Soil sample locations for the Lion claims are shown on Figure 14. Figures 15 and 16 illustrate beryllium and chromium values for reconnaissance soil samples taken on the Lion claims. All

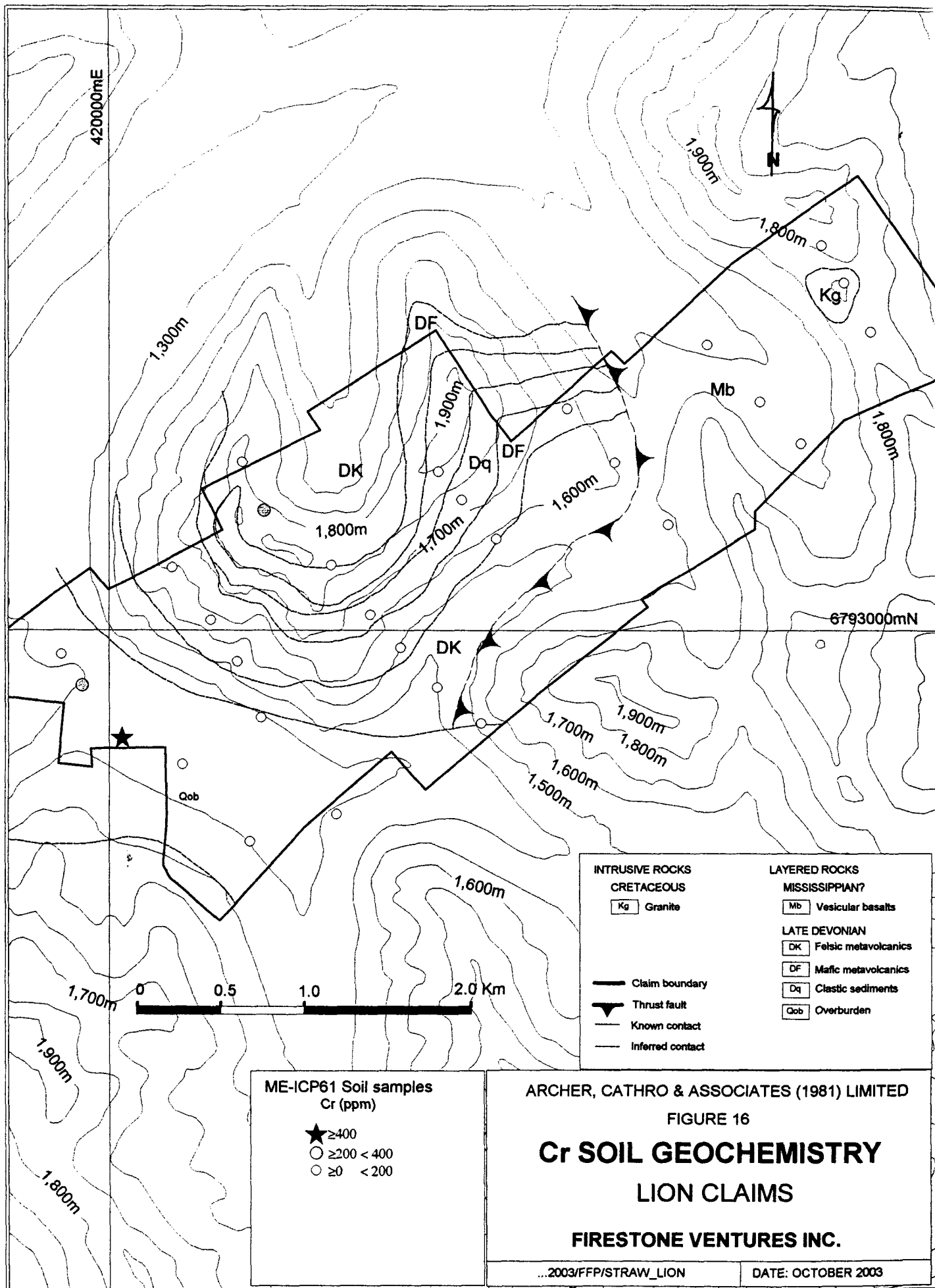












beryllium and most chromium values are low. The highest chromium values in this area came from a wide overburden covered valley. The source is uncertain. One of the soil samples (BB09777) yielded moderately to strongly anomalous values for VMS indicator elements silver (2.5 g/t), copper (144 ppm), lead (337 ppm) and zinc (848 ppm).

Pan sampling results mirror the geochemical results with the highest concentration of indicator minerals for emerald (tourmaline and scheelite) coming from creeks draining the Straw claims.

INTERPRETATION AND CONCLUSIONS

No emerald has yet been discovered on the Straw-Lion property. However, exploration to date has been largely reconnaissance in nature and has produced encouraging results that require detailed follow up.

Mapping and prospecting have outlined three zones containing tourmaline and golden muscovite schist within unit DF chlorite schist on the edge of a Cretaceous two-mica granite stock. The tourmaline occurs as radiating aggregates on foliation planes in the schist and as individual crystals within pegmatite dykes and quartz veins. These are the geological setting and alteration signature found at the Regal Ridge emerald prospect 5 km to the northwest.

Soil geochemistry has shown that two of the three alteration zones are enriched in beryllium and that the unit DF chlorite schist and unit Dum ultramafic rocks contain abundant chromium. These geochemical criteria are consistent with those required to form emerald according to the exploration model.

Preliminary prospecting discovered beryl crystals in one area within one of the three zones. Although the crystals lack the transparency and deep green colouration required for emerald, their presence demonstrates that the chemistry is favourable for beryl formation. Furthermore, the crystals' large size and relative lack of fracturing and intergrowths suggest potential for large stones if emerald is discovered.

The geological setting and geochemical signature in the northeastern part of the property (Lion claims) is unfavourable for emerald and most future work should concentrate in the southwestern part (Straw claims). A small amount of follow-up work should be done near one sample site on the Lion claims and in the Neptune Zone on Straw claims to evaluate potential for VMS mineralization which is indicated by anomalous soil geochemical results.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED


William A. Wengzynowski, P.Eng.

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APPENDIX I

AUTHOR'S STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, William A. Wengzynowski, geological engineer, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address in Garibaldi Highlands, British Columbia, do hereby certify that:

1. I am President of Archer, Cathro & Associates (1981) Limited.
2. I graduated from the University of British Columbia in 1993 with a B.A.Sc in Geological Engineering, Option 1, mineral and fuel exploration.
3. I registered as a Professional Engineer in the Province of British Columbia on December 12, 1998 (Licence Number 24119).
4. From 1983 to present, I have been actively engaged in mineral exploration in the Yukon Territory, Northwest Territories and northern British Columbia.
5. I have personally participated in and supervised the fieldwork reported herein.



William A. Wengzynowski, P. Eng.

APPENDIX II
CERTIFICATES OF ANALYSIS



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Page # : 1

27-Nov-2003

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CERTIFICATE VA03048946

Project : Straw

P.O. No:

This report is for 30 PULP samples submitted to our lab in Vancouver, BC, Canada on 20-Nov-2003.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHER

ROB CARNE
BILL WENGZYNOWSKI

DOUG EATON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

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Project : Straw

CERTIFICATE OF ANALYSIS VA03048946

Sample Description	Method Analyte Units LOR	Au-ICP21 Au ppm 0.001	Au-ICP21 WT. SAMP g 0.01
BB37847		0.040	15.19
BB37850		0.096	15.48
BB37873		0.001	27.06
BB37874		0.003	15.18
BB37884		0.009	30.39



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CERTIFICATE VA03048945

Project : Straw

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BILL WENGZYNOWSKI

DOUG EATON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

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Project : Straw

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VA03048945

Sample Description	Method Analyte Units LOR	Au-ICP21 Au ppm 0.001	Au-ICP21 WT. SAMP g 0.01
BB37886		0.008	27.17
BB37892		0.004	29.83
BB37893		0.005	28.63
BB37901		0.003	15.21
BB37902		0.006	31.31
BB37906		0.006	28.65
BB37907		0.010	15.20
BB37911		0.013	28.66
BB37918		0.003	15.09
BB37919		0.007	30.03
BB37920		0.002	28.06
BB37933		0.006	27.81
BB37934		0.013	28.81
BB37973		0.015	15.04
BB37979		0.017	28.08
BB37985		0.007	27.20



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CERTIFICATE VA03048944

Project : Straw

P.O. No:

This report is for 141 PULP samples submitted to our lab in Vancouver, BC, Canada on 20-Nov-2003.

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BILL WENGZYNOWSKI

DOUG EATON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

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Project : Straw

CERTIFICATE OF ANALYSIS VA03048944

Sample Description	Method Analyte Units LOR	Au-ICP21 Au ppm 0.001	Au-ICP21 WT. SAMP g 0.01
BB33972		0.005	27.08
BB33974		0.009	27.22
BB37501		0.027	29.01
BB37663		0.017	27.95
BB37671		0.010	28.10
BB37672		0.017	27.51
BB37673		0.019	27.48
BB37674		0.015	27.95
BB37686		0.221	27.19
BB37688		0.006	28.79
BB37691		0.021	28.56
BB37692		0.009	28.16
BB37693		0.029	15.30
BB37694		0.023	27.80
BB37695		0.013	28.79
BB37696		0.049	15.14
BB37767		0.015	27.81
BB37768		0.039	10.07
BB37769		0.023	10.08
BB37770		NSS	NSS
BB37771		0.028	5.03
BB37772		NSS	NSS
BB37773		0.045	10.09
BB37779		0.011	27.23
BB37780		0.030	27.22
BB37781		0.021	27.66
BB37782		0.054	10.03
BB37783		0.018	15.26
BB37784		0.073	15.06
BB37786		0.047	15.35
BB37787		0.032	15.11
BB37788		0.035	10.04
BB37792		0.017	28.06
BB37807		0.012	28.38
BB37832		0.014	27.16
BB37836		0.030	15.15
BB37838		0.029	15.35
BB37841		0.017	28.15

Comments: NSS is non-sufficient sample.



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This report is for 16 PULP samples submitted to our lab in Vancouver, BC, Canada on 20-Nov-2003.

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DOUG EATON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

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CERTIFICATE OF ANALYSIS

VA03048943

Sample Description	Method	Au-ICP21	Au-ICP21
	Analyte	Au	WT. SAMP
	Units LOR	ppm 0.001	g 0.01
BB09907		0.013	15.23



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DOUG EATON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

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Sample Description	Method	Au-ICP21	Au-ICP21
	Analyte	Au	WT. SAMP
	Units LOR	ppm 0.001	g 0.01
BB09814		0.002	27.92
BB09857		0.030	27.39
BB09861		0.001	28.43
BB33949		0.001	27.33



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Page #: 1
Date: 8-Sep-2003
Account: FFP

CERTIFICATE VA03033023

Project : Straw

P.O. No:

This report is for 30 SOIL samples submitted to our lab in North Vancouver, BC, Canada on 30-Aug-2003.

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ROB CARNE
BILL WENGZYNOWSKI

DOUG EATON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	47 element four acid ICP-MS

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Page #: 2 - A

Date : 8-Sep-2003

Account: FFP

Project : Straw

CERTIFICATE OF ANALYSIS VA03033023

Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
Sample Description															
BB33975	0.28	0.23	6.81	3.6	130	15.10	8.88	5.17	0.30	7.13	51.5	385	96.8	100.5	5.06
BB33976	0.36	0.13	10.50	6.4	90	35.4	2.44	2.67	0.08	20.3	33.3	197	61.6	59.7	3.59
BB33977	0.34	0.07	8.50	5.2	320	2.49	0.28	3.47	0.09	15.95	45.1	249	37.6	112.0	6.41
BB37845	0.26	0.11	7.01	2.7	140	10.65	0.65	4.86	0.13	3.75	71.1	603	77.0	162.5	6.51
BB37846	0.24	0.10	7.37	10.6	140	6.66	0.86	3.19	0.14	5.01	64.3	490	51.2	123.0	6.75
BB37847	0.26	0.08	6.70	47.6	120	4.25	0.44	3.45	0.15	4.28	66.2	639	49.8	98.1	6.35
BB37848	0.22	0.10	7.14	6.9	140	4.64	0.44	3.38	0.14	4.02	58.0	574	46.6	94.7	6.39
BB37849	0.24	0.06	6.78	10.0	110	3.73	0.09	3.41	0.08	3.34	54.4	467	40.8	87.2	6.19
BB37850	0.28	0.25	6.49	1.6	80	1.86	0.43	4.04	0.12	2.85	76.1	770	20.2	421	6.44
BB37851	0.26	0.07	7.23	8.2	70	3.07	0.21	2.37	0.06	1.83	71.9	608	34.4	67.4	6.63
BB37852	0.26	0.09	7.96	2.6	70	2.94	0.18	2.80	0.04	1.63	68.0	566	48.1	72.9	5.69
BB37853	0.26	0.11	6.97	0.4	110	2.82	0.22	3.29	0.07	2.02	72.1	747	37.1	132.5	7.30
BB37854	0.24	0.07	8.55	7.5	430	3.33	0.25	3.18	0.11	24.8	48.6	381	34.0	77.5	6.69
BB37855	0.24	0.13	6.69	0.5	150	3.11	0.36	2.99	0.09	3.24	77.1	691	33.6	248	7.07
BB37856	0.38	0.11	4.43	13.4	100	0.34	0.10	2.84	0.12	4.17	127.0	1105	4.50	60.8	5.45
BB37863	0.48	0.10	6.47	<0.2	390	5.61	0.72	3.12	0.20	1.58	58.2	606	19.60	169.5	8.78
BB37864	0.32	0.10	7.15	<0.2	130	0.49	0.35	2.77	0.10	2.09	57.6	645	17.60	134.5	7.86
BB37873	0.22	0.61	8.34	21.3	1470	1.98	0.47	1.99	1.58	82.1	37.8	138	9.10	87.2	6.02
BB37874	0.18	0.12	6.69	2.8	350	3.26	1.40	1.58	0.19	17.25	56.5	430	38.7	368	10.15
BB37875	0.24	0.16	6.05	1.5	280	3.34	0.59	2.66	0.22	11.05	45.2	405	16.15	100.5	6.64
BB37876	0.26	0.14	4.95	1.0	260	12.50	1.24	2.57	0.25	7.84	44.4	385	36.8	310	7.82
BB37877	0.22	0.08	6.82	3.3	390	1.25	0.20	3.06	0.22	26.8	37.2	276	18.00	143.0	5.47
BB37878	0.18	0.10	6.52	5.0	580	1.68	0.27	2.32	0.26	39.4	25.8	178	13.80	129.5	4.31
BB37879	0.16	0.08	6.36	1.9	290	1.03	0.59	2.34	0.22	16.10	44.3	479	16.20	222	6.17
BB37880	0.24	0.07	7.46	2.8	380	1.40	0.28	2.60	0.18	19.30	51.8	463	10.35	202	7.31
BB37881	0.18	0.08	6.68	3.2	350	1.33	0.18	2.13	0.19	22.0	51.3	424	9.11	183.0	5.98
BB37882	0.16	0.15	7.19	2.7	540	2.30	0.31	2.27	0.26	28.9	33.5	219	10.65	194.5	5.50
BB37883	0.18	0.24	7.00	1.6	490	2.14	0.43	2.06	0.40	25.3	30.5	251	18.40	314	6.12
BB37884	0.20	0.17	7.64	1.9	480	2.21	0.46	2.19	0.26	20.7	33.3	338	18.15	350	7.58
BB37885	0.18	0.14	7.16	4.5	610	1.20	0.22	2.39	0.30	44.2	30.3	211	13.90	157.5	4.85

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



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Phone: 604 984 0221 Fax: 604 984 0218



FFP

C/O ARCHER CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page #: 2 - B
Pages : 2 (A - D)
Date : 8-Sep-2003
Account: FFP

Project : Straw

CERTIFICATE OF ANALYSIS VA03033023

Sample Description	Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
BB33975		21.3	0.10	0.8	0.042	1.36	3.3	358	4.79	1325	5.07	0.51	9.3	251	190	30.7
BB33976		31.6	0.11	1.8	0.022	2.49	9.8	1060	4.39	1115	0.70	0.45	8.2	181.5	230	56.0
BB33977		18.30	0.09	1.0	0.049	0.66	8.0	138.0	3.28	1170	0.77	1.30	3.5	143.0	260	8.2
BB37845		16.00	0.09	0.6	0.034	0.91	1.7	450	6.83	1520	0.83	0.51	3.2	330	100	8.1
BB37846		15.20	0.10	0.5	0.037	0.69	2.3	373	5.95	1515	0.47	0.70	1.7	317	170	4.9
BB37847		13.45	0.10	0.3	0.033	0.58	2.0	460	5.80	1385	0.84	0.41	1.2	370	230	3.5
BB37848		13.25	0.10	0.3	0.033	0.58	2.0	640	6.70	1475	0.45	0.48	1.2	310	370	2.9
BB37849		11.85	0.09	0.3	0.030	0.53	1.5	393	5.60	1210	0.29	0.60	0.6	303	100	1.9
BB37850		12.20	0.09	0.2	0.036	0.26	1.4	272	10.10	1240	0.37	0.46	1.2	445	180	2.6
BB37851		12.40	0.10	0.3	0.036	0.34	0.8	277	11.20	1255	0.25	0.23	0.8	460	90	2.1
BB37852		13.95	0.08	0.1	0.025	0.54	0.7	750	9.08	875	0.24	0.31	1.0	413	90	1.9
BB37853		12.00	0.09	0.3	0.041	0.22	0.9	244	10.20	1520	0.66	0.29	0.6	442	80	1.7
BB37854		16.95	0.11	1.2	0.045	0.93	13.0	202	4.65	1340	0.89	1.31	4.7	236	370	11.1
BB37855		13.15	0.10	0.3	0.037	0.33	1.5	209	9.96	1140	0.84	0.44	1.6	502	90	3.1
BB37856		8.44	0.10	0.3	0.017	0.16	2.1	47.8	12.95	991	0.29	0.28	0.8	1540	90	22.8
BB37863		13.10	0.11	0.3	0.054	0.26	0.7	95.1	10.15	1500	1.54	0.31	0.7	292	30	1.3
BB37864		13.30	0.09	0.3	0.042	0.12	1.0	130.5	11.00	1495	1.10	0.54	0.3	291	10	1.1
BB37873		21.5	0.17	1.2	0.076	1.46	40.6	48.7	3.65	1355	7.37	1.10	6.0	141.0	1180	25.0
BB37874		16.95	0.13	0.8	0.059	0.61	8.8	70.4	5.99	920	4.60	0.57	3.3	189.5	430	5.7
BB37875		13.50	0.12	0.9	0.045	0.53	5.7	57.8	6.73	1245	1.80	0.77	2.5	186.5	520	4.9
BB37876		12.30	0.12	0.5	0.048	0.59	3.9	70.9	6.36	1140	5.96	0.45	1.8	156.5	180	3.8
BB37877		13.85	0.12	1.0	0.045	0.69	13.5	79.7	5.55	1115	1.00	1.22	4.7	166.0	380	8.5
BB37878		13.60	0.11	1.8	0.043	0.97	20.3	51.1	3.51	790	0.99	1.37	6.5	108.5	580	10.3
BB37879		13.75	0.10	1.0	0.043	0.49	8.3	87.9	6.73	1120	1.55	0.86	3.3	208	370	5.3
BB37880		14.40	0.13	0.9	0.052	0.60	9.9	79.5	7.50	1195	0.88	0.89	4.0	224	230	6.3
BB37881		14.05	0.10	1.2	0.046	0.64	11.2	62.3	6.25	927	0.79	0.86	4.4	253	230	6.1
BB37882		14.65	0.17	1.0	0.052	0.93	14.5	42.3	4.50	902	0.92	1.21	6.4	132.0	480	8.2
BB37883		14.35	0.12	0.8	0.050	0.75	13.1	53.2	4.65	917	1.16	1.01	5.7	139.0	350	7.2
BB37884		14.10	0.14	0.6	0.066	0.69	10.3	61.0	5.54	1165	1.16	0.93	4.7	133.0	230	6.3
BB37885		14.40	0.14	1.1	0.054	1.02	22.0	41.5	3.70	778	0.98	1.30	8.6	133.5	360	10.6

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

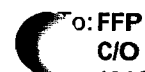


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Page #: 2 - C
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Date: 8-Sep-2003
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Project: Straw

CERTIFICATE OF ANALYSIS VA03033023

Sample Description	Method Analyte Units LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.01	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
BB33975		172.0	<0.002	0.02	2.11	<1	23.0	51.7	1.66	0.15	3.5	0.09	0.96	3.1	180	1.1
BB33976		343	<0.002	0.02	0.51	<1	13.9	57.8	4.00	<0.05	12.5	0.08	2.00	21.5	121	1.2
BB33977		46.5	<0.002	0.02	0.28	<1	1.8	112.5	0.24	<0.05	3.5	0.19	0.36	0.7	287	1.2
BB37845		139.5	<0.002	0.01	3.18	<1	11.1	55.7	0.67	0.05	1.4	0.12	0.88	1.6	237	0.5
BB37846		95.9	<0.002	0.02	5.93	<1	6.0	52.5	0.23	<0.05	1.0	0.14	0.58	1.1	262	0.7
BB37847		84.1	<0.002	0.03	4.85	<1	3.3	60.8	0.12	<0.05	0.7	0.11	0.52	1.4	231	0.8
BB37848		75.3	<0.002	0.04	5.68	<1	4.4	39.0	0.13	<0.05	0.6	0.12	0.47	0.5	232	1.0
BB37849		58.8	<0.002	0.01	10.60	<1	2.3	32.1	0.05	<0.05	0.6	0.12	0.36	0.3	239	1.9
BB37850		29.1	<0.002	0.03	0.86	<1	2.7	17.6	0.17	0.11	0.4	0.11	0.22	0.3	205	0.2
BB37851		51.9	<0.002	0.01	9.31	<1	3.3	25.3	0.13	<0.05	0.3	0.09	0.40	0.2	227	0.3
BB37852		85.2	<0.002	0.02	4.87	<1	2.7	37.3	0.17	<0.05	0.2	0.09	0.60	0.3	201	0.3
BB37853		41.7	<0.002	0.02	0.17	<1	5.6	21.8	0.06	<0.05	0.2	0.11	0.23	0.3	234	0.1
BB37854		54.6	<0.002	0.03	0.89	<1	2.2	135.0	0.37	<0.05	5.0	0.21	0.45	1.0	238	1.3
BB37855		42.1	<0.002	0.03	0.25	<1	7.6	40.4	0.17	<0.05	0.6	0.11	0.28	0.3	223	0.4
BB37856		7.1	<0.002	0.01	0.23	<1	0.4	40.6	0.05	<0.05	0.7	0.07	0.20	0.2	133	0.2
BB37863		35.3	<0.002	0.03	0.05	3	13.8	7.8	0.12	0.13	0.2	0.14	0.29	0.2	236	0.1
BB37864		12.6	<0.002	0.02	0.07	2	0.6	10.7	<0.05	0.15	0.2	0.09	0.09	0.1	257	0.1
BB37873		76.2	<0.002	0.15	0.11	4	2.1	202	0.20	0.10	13.2	0.55	0.90	3.7	223	1.3
BB37874		62.0	0.002	0.05	0.32	2	5.7	54.6	0.23	0.16	3.6	0.21	0.63	0.9	207	1.9
BB37875		38.1	<0.002	0.03	0.23	1	8.5	80.0	0.16	0.08	2.2	0.17	0.33	0.7	208	2.4
BB37876		82.9	<0.002	0.03	0.10	2	22.4	41.7	0.09	0.08	1.5	0.14	0.73	0.4	180	0.6
BB37877		33.3	<0.002	0.02	0.38	1	2.0	94.8	0.25	<0.05	5.2	0.23	0.25	1.1	197	1.2
BB37878		43.9	<0.002	0.03	0.72	1	2.1	138.0	0.35	0.06	7.9	0.27	0.31	1.5	160	1.8
BB37879		24.0	<0.002	0.03	3.16	2	1.1	71.5	0.22	0.22	3.4	0.17	0.20	0.9	209	1.2
BB37880		29.2	<0.002	0.02	0.99	1	1.4	75.0	0.26	0.09	3.9	0.21	0.29	0.9	225	0.7
BB37881		29.1	<0.002	0.01	0.38	1	1.7	88.6	0.29	0.05	4.8	0.21	0.24	1.0	199	0.7
BB37882		43.7	<0.002	0.03	0.44	1	4.7	138.5	0.18	<0.05	4.5	0.26	0.32	1.2	173	1.8
BB37883		41.8	<0.002	0.03	0.32	2	5.9	99.5	0.14	0.11	4.2	0.23	0.35	1.1	180	1.6
BB37884		45.5	<0.002	0.02	0.31	2	4.4	81.2	0.27	0.15	3.3	0.22	0.43	0.9	207	0.9
BB37885		44.8	<0.002	0.02	0.60	2	2.0	148.0	0.18	0.07	7.0	0.30	0.35	1.7	171	3.3

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



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Page #: 2 - D
es : 2 (A - D)
Date : 8-Sep-2003
Account: FFP

Project : Straw

CERTIFICATE OF ANALYSIS VA03033023

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61
		Y	Zn	Zr
		ppm 0.1	ppm 2	ppm 0.5
BB33975		8.1	73	14.3
BB33976		7.5	54	33.0
BB33977		12.3	49	19.3
BB37845		7.6	69	8.8
BB37846		9.4	71	7.7
BB37847		7.7	73	5.8
BB37848		8.2	65	5.4
BB37849		6.4	54	3.9
BB37850		5.1	73	4.1
BB37851		4.1	63	5.7
BB37852		3.1	57	2.2
BB37853		6.2	88	4.5
BB37854		12.6	57	27.6
BB37855		5.4	74	5.8
BB37856		3.7	56	6.2
BB37863		7.2	138	4.5
BB37864		6.6	148	5.6
BB37873		28.7	233	31.3
BB37874		7.2	120	18.2
BB37875		7.0	116	18.2
BB37876		7.2	118	8.5
BB37877		9.7	120	21.8
BB37878		10.0	96	41.6
BB37879		7.3	163	25.2
BB37880		8.4	142	18.2
BB37881		8.3	114	29.1
BB37882		8.9	120	32.3
BB37883		8.3	132	24.4
BB37884		8.4	180	19.2
BB37885		11.4	116	35.1

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



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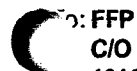
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1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8



Page # : 1

: 8-Sep-2003

Account: FFP

CERTIFICATE VA03032309

Project : Straw

P.O. No:

This report is for 115 SOIL samples submitted to our lab in North Vancouver, BC, Canada on 28-Aug-2003.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHER

ROB CARNE
BILL WENGZYNOWSKI

DOUG EATON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	47 element four acid ICP-MS

To: FFP
C/O ARCHER CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

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

Signature:



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1016-510 W HASTINGS ST

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Page #: 2 - A

Date : 8-Sep-2003

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CERTIFICATE OF ANALYSIS

VA03032309

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
BB37886		0.30	0.17	7.96	2.0	430	1.04	0.54	2.10	0.23	14.15	56.1	601	16.60	379	10.15
BB37887		0.20	0.13	6.67	1.8	340	1.49	0.37	3.68	0.28	19.45	33.9	329	7.57	102.5	5.28
BB37888		0.26	0.14	6.82	4.3	550	1.02	0.19	2.88	0.31	38.1	26.2	203	8.09	123.0	4.27
BB37889		0.22	0.24	6.54	1.8	260	0.91	0.23	2.93	0.29	15.05	20.7	194	7.60	184.5	4.46
BB37890		0.16	0.25	6.30	3.1	360	0.67	0.32	2.41	0.43	24.3	15.6	136	8.45	139.5	4.54
BB37891		0.22	0.26	6.78	2.8	320	0.78	0.21	3.24	0.20	21.7	31.6	320	12.40	61.9	5.73
BB37892		0.24	0.11	7.39	3.6	450	1.27	0.14	3.24	0.29	28.7	34.8	361	12.50	365	4.99
BB37893		0.20	0.19	7.13	6.8	670	1.38	0.34	1.72	0.45	53.2	22.7	114	8.15	411	5.52
BB37894		0.24	0.14	6.53	3.4	420	0.74	0.26	2.90	0.39	25.1	19.7	196	6.84	171.0	4.95
BB37895		0.22	0.25	7.39	1.2	180	0.58	0.35	3.41	0.26	9.06	30.9	470	5.67	254	7.03
BB37896		0.24	0.19	7.77	1.1	180	0.56	0.27	3.44	0.25	5.63	34.1	525	8.16	252	7.63
BB37897		0.22	0.10	7.03	4.0	540	1.36	0.20	3.22	0.28	33.5	29.1	227	9.20	173.0	4.71
BB37898		0.20	0.12	7.25	1.2	300	1.68	0.56	3.55	0.46	14.50	41.6	471	13.75	262	6.61
BB37899		0.18	0.34	7.17	1.2	350	1.70	0.84	2.85	0.30	15.25	37.1	452	16.60	270	6.67
BB37900		0.28	0.22	8.00	0.2	350	2.57	0.79	2.16	0.29	6.12	48.5	633	16.30	341	9.51
BB37901		0.18	0.46	6.97	2.0	440	1.41	0.31	2.67	0.38	21.1	26.5	219	12.10	418	4.49
BB37902		0.32	0.10	6.82	2.3	440	0.77	0.16	4.28	0.25	27.2	45.7	378	6.43	432	5.30
BB37903		0.20	0.17	7.34	1.5	380	0.89	0.26	3.74	0.28	15.95	39.3	389	13.10	267	5.45
BB37904		0.26	0.07	6.44	1.9	320	0.52	0.13	4.49	0.21	18.75	41.8	446	6.18	236	5.55
BB37905		0.22	0.10	7.34	1.4	270	0.53	0.21	4.25	0.19	16.35	41.3	395	10.80	78.8	5.99
BB37906		0.24	0.30	7.72	1.4	280	0.87	0.36	3.91	0.26	13.15	34.1	368	15.85	359	6.19
BB37907		0.24	0.28	7.73	1.6	260	0.78	0.75	2.97	0.28	13.40	34.1	378	12.30	621	8.53
BB37908		0.18	0.10	7.32	1.4	300	0.56	0.14	3.20	0.14	15.70	45.4	559	10.05	135.0	5.83
BB37909		0.22	0.11	7.16	1.0	240	0.53	0.17	3.87	0.17	15.05	48.0	545	6.95	193.5	6.23
BB37910		0.18	0.18	6.76	0.9	240	0.39	0.15	4.53	0.26	14.35	46.6	525	8.23	147.5	5.93
BB37911		0.20	0.10	7.20	1.4	210	0.37	0.21	4.27	0.20	10.15	57.7	612	5.95	681	6.82
BB37912		0.20	0.19	7.43	1.4	310	0.50	0.16	4.31	0.19	17.40	42.5	450	5.90	146.0	5.98
BB37913		0.14	0.11	6.51	1.4	250	0.80	0.13	3.84	0.21	12.15	34.3	361	6.15	71.2	5.08
BB37914		0.18	0.24	6.46	1.5	320	1.02	0.25	3.84	0.28	18.90	33.2	323	11.30	95.2	5.70
BB37915		0.22	0.26	7.18	2.6	410	0.72	0.17	3.49	0.37	25.2	29.6	207	8.72	100.5	5.23
BB37916		0.18	0.18	6.96	2.9	330	0.56	0.18	3.55	0.28	20.0	35.5	363	7.11	72.2	5.86
BB37917		0.22	0.07	6.75	3.3	480	0.91	0.11	4.16	0.20	30.2	34.6	335	6.22	142.0	5.03
BB37918		0.18	0.17	6.79	0.5	220	0.49	0.13	4.38	0.25	8.15	47.0	501	5.88	360	5.77
BB37919		0.24	0.15	7.61	0.9	150	0.35	0.14	5.53	0.17	8.52	50.5	411	14.25	1070	6.53
BB37920		0.24	0.10	7.69	0.4	210	0.49	0.12	5.25	0.12	6.54	46.3	383	9.09	439	6.31
BB37921		0.18	0.08	7.11	2.5	320	0.60	0.13	3.77	0.19	20.2	46.5	501	5.61	205	5.96
BB37922		0.24	0.07	6.81	3.2	190	0.32	0.08	4.15	0.15	9.59	44.5	641	3.68	51.3	5.90
BB37923		0.18	0.04	7.81	3.1	400	0.66	0.10	4.25	0.17	27.5	43.5	509	6.60	117.5	6.06
BB37924		0.16	0.10	7.68	3.7	430	0.78	0.13	3.13	0.28	29.5	28.3	200	6.57	120.5	5.16
BB37925		0.20	0.09	6.85	2.6	420	0.63	0.16	3.66	0.22	25.5	30.0	226	7.91	66.5	5.49

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



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Date: 8-Sep-2003
Account: FFP

Project: Straw

CERTIFICATE OF ANALYSIS VA03032309

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
BB37926		0.22	0.03	6.80	3.5	690	0.81	0.11	4.19	0.17	26.0	34.1	313	4.95	134.5	5.24
BB37927		0.26	0.03	6.93	2.4	720	0.70	0.12	4.09	0.17	22.2	36.5	373	4.09	213	5.42
BB37928		0.18	0.07	6.43	2.6	720	0.69	0.14	3.67	0.18	26.4	37.5	412	7.19	147.5	5.51
BB37929		0.18	0.09	6.56	2.8	870	0.62	0.16	3.35	0.13	25.2	38.0	475	5.20	78.2	5.44
BB37930		0.20	0.06	6.67	2.9	900	0.68	0.19	3.69	0.21	24.1	39.3	439	4.65	82.7	5.28
BB37931		0.18	0.11	7.63	2.2	1020	0.52	0.15	3.68	0.15	17.80	48.9	685	4.73	138.0	6.83
BB37932		0.18	0.10	7.24	4.3	730	0.84	0.13	3.73	0.21	32.5	45.1	527	5.43	145.0	5.63
BB37933		0.24	0.15	8.25	0.8	140	0.17	0.11	3.64	0.11	2.36	56.6	847	2.39	350	9.60
BB37934		0.24	0.15	7.23	2.9	430	0.69	0.39	3.35	0.26	19.95	79.1	677	3.89	421	7.55
BB37935		0.18	0.09	7.37	2.7	490	0.78	0.16	3.27	0.24	29.4	36.6	372	6.05	108.5	5.61
BB37936		0.24	0.09	6.77	1.2	360	0.46	0.12	3.80	0.17	16.80	35.4	427	4.38	29.6	5.82
BB37937		0.22	0.04	6.83	3.1	410	0.65	0.12	3.19	0.14	25.8	38.3	424	6.17	155.0	5.79
BB37938		0.26	0.06	6.69	2.8	520	0.89	0.13	2.57	0.18	29.1	26.4	219	2.59	100.5	4.17
BB37939		0.22	0.07	6.37	5.3	480	0.83	0.16	2.82	0.22	29.8	37.6	393	3.72	222	5.38
BB37940		0.16	0.05	6.16	3.9	600	0.87	0.14	2.92	0.17	31.1	33.1	368	3.57	116.0	5.12
BB37941		0.18	0.05	6.43	2.9	670	0.72	0.15	3.80	0.18	24.8	36.6	449	4.93	58.0	5.43
BB37942		0.18	0.07	8.05	2.5	1840	0.54	0.10	2.96	0.18	19.30	56.1	667	11.40	198.0	7.05
BB37943		0.24	0.10	8.90	1.7	2160	0.58	0.11	1.56	0.12	14.15	58.3	638	11.70	127.0	7.90
BB37944		0.16	0.12	7.05	2.6	260	0.33	0.09	3.93	0.26	7.89	52.2	706	2.47	139.5	6.74
BB37945		0.18	0.04	7.40	5.3	680	1.02	0.19	3.80	0.23	33.5	39.7	524	4.49	67.7	5.84
BB37946		0.18	0.13	6.48	3.9	580	0.82	0.17	3.10	0.21	27.8	34.0	425	4.88	102.0	5.19
BB37947		0.20	0.05	6.75	4.5	540	1.00	0.13	3.00	0.19	32.4	31.0	330	3.27	100.0	5.02
BB37948		0.18	0.03	6.54	3.8	460	0.84	0.14	3.55	0.21	31.5	40.3	381	3.08	99.6	5.66
BB37949		0.20	0.03	5.84	2.7	450	0.80	0.12	2.58	0.22	33.1	28.9	287	6.47	69.5	4.70
BB37950		0.16	0.07	6.40	2.2	460	0.89	0.13	2.76	0.27	28.9	28.3	297	4.83	44.1	4.59
BB37951		0.18	0.08	6.37	3.0	420	0.85	0.11	3.20	0.32	29.1	30.6	244	3.43	76.7	4.65
BB37952		0.22	0.04	7.02	3.6	460	0.96	0.15	3.56	0.19	32.3	31.0	217	4.99	43.5	5.12
BB37953		0.16	0.05	6.52	5.4	480	0.84	0.11	3.19	0.18	30.4	26.6	217	3.87	68.8	4.41
BB37954		0.18	0.05	5.96	4.5	500	0.86	0.12	2.84	0.23	35.9	26.9	231	2.38	82.3	4.30
BB37955		0.22	0.07	7.12	3.3	400	0.68	0.07	2.53	0.14	26.8	42.8	440	4.24	168.0	6.10
BB37956		0.22	0.05	7.17	2.5	330	0.64	0.09	2.87	0.17	22.9	40.8	348	7.23	140.0	6.08
BB37957		0.24	0.04	6.65	3.5	370	0.65	0.07	4.30	0.13	26.3	40.5	382	1.59	82.6	5.69
BB37958		0.24	0.23	8.13	4.6	780	2.49	0.37	0.62	0.34	86.3	13.4	60	7.07	33.5	4.00
BB37959		0.20	0.28	12.35	9.9	910	4.46	0.52	0.40	0.26	124.5	19.0	65	19.10	48.5	5.19
BB37960		0.20	0.20	7.41	5.2	800	2.07	0.34	0.82	0.28	83.1	12.2	66	6.06	30.3	3.63
BB37961		0.20	0.12	8.45	3.9	860	2.40	0.34	1.44	0.37	112.0	30.2	226	6.75	64.6	5.36
BB37962		0.24	0.07	7.64	4.1	630	1.35	0.16	2.44	0.19	50.0	29.7	190	4.23	79.6	4.91
BB37963		0.24	0.06	7.93	2.2	350	0.77	0.09	4.01	0.16	28.9	37.9	242	2.64	50.6	5.79
BB37964		0.18	0.06	8.26	1.3	220	0.55	0.07	4.57	0.12	17.85	49.3	392	3.13	44.5	6.83
BB37965		0.18	0.04	8.44	0.7	130	0.34	0.03	5.20	0.09	9.31	44.8	299	1.91	15.4	5.99

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

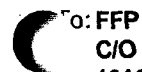


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Project : Straw

CERTIFICATE OF ANALYSIS VA03032309

Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
Sample Description															
BB37966	0.22	0.05	7.72	1.6	300	0.70	0.08	4.16	0.12	23.1	43.4	295	2.62	91.2	6.22
BB37967	0.18	0.08	8.91	4.2	530	1.25	0.14	2.56	0.22	46.5	26.2	152	2.84	65.2	4.50
BB37968	0.18	0.11	7.82	2.8	510	1.19	0.13	2.73	0.13	38.4	32.0	194	3.48	118.5	5.17
BB37969	0.18	0.17	7.40	3.8	620	1.32	0.18	2.14	0.22	51.2	29.8	199	6.97	85.4	4.94
BB37970	0.24	0.13	7.42	2.7	1070	1.48	0.19	2.84	0.23	66.5	36.4	355	5.42	73.1	5.03
BB37971	0.24	0.21	10.90	6.4	1220	2.92	0.46	1.86	0.32	91.5	33.8	269	10.55	81.3	6.00
BB37972	0.22	0.31	9.34	4.6	840	3.58	0.38	0.57	0.38	103.5	16.2	66	10.20	38.3	4.53
BB37973	0.22	0.38	9.14	20.7	880	3.46	0.52	0.78	0.76	184.0	26.2	80	9.92	61.1	5.28
BB37974	0.26	0.29	12.50	17.0	1010	4.29	0.44	0.39	0.25	174.0	22.1	65	11.40	46.2	5.30
BB37975	0.20	0.19	6.65	3.0	520	2.24	0.32	0.98	0.59	49.3	14.4	98	4.33	33.7	3.98
BB37976	0.18	0.15	5.48	2.3	480	1.08	0.15	2.35	0.46	38.0	27.1	203	3.88	43.5	3.92
BB37977	0.22	0.11	7.10	3.0	440	0.86	0.14	2.64	0.25	36.5	36.5	235	4.56	239	5.31
BB37978	0.24	0.13	7.11	2.4	410	0.76	0.12	3.43	0.23	31.2	37.8	233	3.04	119.5	5.07
BB37979	0.24	0.11	7.29	4.8	450	0.77	0.12	2.90	0.16	30.1	32.0	192	2.17	402	5.99
BB37980	0.24	0.10	6.68	2.0	310	0.80	0.12	2.84	0.20	20.3	26.2	144	3.75	110.0	5.10
BB37981	0.22	0.07	7.89	2.2	250	0.52	0.05	4.03	0.10	16.65	42.3	265	3.71	202	6.53
BB37982	0.24	0.05	7.57	4.9	490	0.80	0.08	3.15	0.12	35.4	33.0	180	1.98	206	5.58
BB37983	0.22	0.06	7.22	5.3	640	1.00	0.10	2.72	0.14	39.8	26.2	132	2.28	182.0	4.84
BB37984	0.24	0.09	7.25	6.5	480	0.82	0.11	2.81	0.17	32.6	30.6	149	2.25	208	5.49
BB37985	0.20	0.09	8.09	2.8	300	0.43	0.08	2.74	0.16	13.85	49.3	305	1.96	487	7.62
BB37986	0.22	0.14	6.99	2.6	400	0.59	0.13	2.92	0.20	28.4	35.9	248	4.15	316	5.53
BB37987	0.22	0.07	7.75	3.0	490	0.71	0.17	3.35	0.20	31.3	36.2	247	4.95	252	5.69
BB37988	0.18	0.09	6.46	5.1	610	1.67	0.21	1.62	0.34	65.2	20.7	114	3.37	42.6	3.60
BB37989	0.16	0.10	6.44	3.8	370	0.60	0.12	2.55	0.20	29.4	27.7	144	2.75	69.1	4.82
BB37990	0.20	0.13	7.70	2.4	330	0.58	0.07	2.04	0.23	21.5	44.0	308	5.30	181.5	6.22
BB37991	0.22	0.13	8.04	2.9	340	0.66	0.09	2.62	0.23	32.1	44.2	275	5.40	161.5	6.50
BB37992	0.16	0.11	6.81	2.4	500	0.85	0.13	2.20	0.43	29.2	19.7	90	2.47	42.4	3.75
BB37993	0.18	0.14	8.00	2.6	400	0.69	0.10	3.20	0.21	26.0	32.1	162	1.96	182.0	4.94
BB37994	0.16	0.17	6.90	2.9	510	0.94	0.13	2.58	0.18	32.1	23.1	110	2.39	95.8	4.10
BB37995	0.20	0.07	7.18	2.9	340	0.60	0.10	3.80	0.25	32.0	30.6	178	1.86	85.5	5.05
BB37996	0.16	0.09	6.90	2.7	330	0.65	0.12	3.59	0.17	29.5	30.0	186	2.11	87.5	4.85
BB37997	0.18	0.12	6.99	3.0	310	0.59	0.11	3.50	0.18	28.3	32.0	196	2.29	62.3	5.07
BB37998	0.18	0.08	7.16	4.1	470	0.90	0.10	3.24	0.16	32.8	26.9	150	1.88	71.0	4.44
BB37999	0.14	0.10	6.57	2.6	350	0.76	0.11	3.00	0.14	29.5	29.1	189	2.15	53.0	4.56
BB38000	0.20	0.09	7.44	3.4	330	0.59	0.09	3.71	0.15	30.8	35.3	258	1.76	72.6	5.42

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



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Page #: 2 - B

Tests: 4 (A - D)

Date: 8-Sep-2003

Account: FFP

Project: Straw

CERTIFICATE OF ANALYSIS

VA03032309

Sample Description	Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
BB37886		14.20	0.36	0.5	0.071	0.48	7.6	64.5	6.95	1370	1.16	0.70	3.0	237	270	4.9
BB37887		13.20	0.34	0.9	0.055	0.66	10.4	28.7	5.46	1095	0.98	1.44	3.6	173.0	440	8.0
BB37888		13.05	0.25	1.1	0.049	0.97	20.6	24.8	3.61	832	0.80	1.60	6.4	105.5	610	9.1
BB37889		10.70	0.22	0.1	0.052	0.50	8.1	17.6	3.61	882	0.98	1.36	2.7	73.9	1460	6.2
BB37890		11.95	0.21	0.2	0.067	0.64	13.0	18.0	2.95	734	1.16	1.23	4.0	60.1	1000	9.2
BB37891		15.55	0.24	0.6	0.055	0.68	11.5	26.4	4.70	853	1.06	1.04	4.8	140.0	440	13.9
BB37892		13.75	0.21	0.9	0.050	0.86	15.5	32.1	5.02	782	0.85	1.21	5.5	172.5	220	11.0
BB37893		15.25	0.24	1.3	0.072	1.19	27.9	26.1	2.08	630	2.21	1.48	7.7	52.1	410	14.4
BB37894		13.25	0.17	0.8	0.068	0.78	13.4	21.7	3.75	873	1.10	1.35	5.0	89.7	290	8.3
BB37895		14.30	0.25	0.4	0.065	0.36	4.7	43.2	6.74	1300	1.14	1.45	1.9	150.0	310	3.6
BB37896		14.55	0.25	0.3	0.067	0.35	2.9	50.1	7.71	1555	0.99	1.12	1.3	194.5	220	3.2
BB37897		13.00	0.23	1.0	0.047	0.90	17.8	26.1	4.30	930	0.81	1.66	6.1	135.5	630	8.7
BB37898		14.15	0.23	0.5	0.051	0.50	7.7	43.8	7.03	1215	1.72	1.10	3.2	231	340	6.3
BB37899		14.05	0.23	0.8	0.057	0.65	8.1	34.3	6.23	1125	1.94	1.09	3.1	209	430	5.3
BB37900		14.70	0.34	0.4	0.089	0.44	3.2	46.8	7.64	1515	1.92	0.62	1.6	221	220	3.2
BB37901		14.10	0.22	1.2	0.042	0.87	11.2	24.0	3.82	821	1.16	1.50	4.2	109.5	820	8.2
BB37902		12.30	0.24	0.7	0.049	0.79	14.6	21.3	5.90	1150	0.55	1.69	4.3	227	400	6.3
BB37903		14.75	0.25	0.8	0.044	0.70	8.7	28.0	5.59	1075	0.89	1.70	3.5	212	500	6.6
BB37904		11.70	0.25	0.6	0.050	0.58	10.1	20.6	6.55	1225	0.46	1.43	3.3	233	230	5.1
BB37905		14.80	0.28	0.5	0.056	0.54	8.6	26.8	6.13	1295	0.57	1.85	3.5	187.5	200	5.2
BB37906		14.60	0.27	0.6	0.056	0.62	7.0	45.3	5.94	1190	0.66	1.85	2.5	149.0	300	4.8
BB37907		15.85	0.37	0.4	0.073	0.57	7.2	52.5	6.41	1150	1.30	1.52	2.5	137.5	450	4.7
BB37908		14.70	0.26	1.0	0.042	0.71	8.2	44.3	6.40	1035	0.72	1.27	3.0	245	790	5.4
BB37909		13.90	0.29	0.5	0.046	0.48	7.8	36.7	6.97	1210	0.40	1.38	3.0	245	190	5.0
BB37910		13.65	0.28	0.5	0.053	0.47	7.4	23.1	6.92	1225	0.46	1.53	3.1	246	240	5.2
BB37911		13.50	0.34	0.4	0.050	0.36	5.1	33.9	8.26	1305	0.36	1.18	1.9	312	210	3.6
BB37912		14.65	0.31	0.6	0.046	0.56	9.2	22.3	6.27	1155	0.63	1.64	3.5	215	220	5.3
BB37913		12.70	0.26	0.5	0.042	0.44	6.4	17.6	5.40	1030	0.59	1.61	2.5	168.0	730	5.4
BB37914		14.25	0.31	0.8	0.046	0.58	9.7	17.5	5.25	1020	0.91	1.41	4.0	147.5	570	6.6
BB37915		15.85	0.26	0.9	0.052	0.73	13.0	17.6	3.92	1005	0.80	1.68	4.9	112.0	720	7.4
BB37916		15.40	0.25	0.4	0.052	0.59	10.6	21.7	5.19	1030	0.76	1.41	3.8	171.0	590	7.1
BB37917		12.65	0.28	1.1	0.048	0.83	16.4	17.8	4.94	1035	0.69	1.50	4.9	170.0	290	7.1
BB37918		12.50	0.31	0.4	0.038	0.34	4.1	21.5	6.76	1090	0.32	1.27	1.8	221	350	3.5
BB37919		13.90	0.30	0.4	0.047	0.33	4.2	18.0	6.78	1310	0.25	1.57	1.3	205	310	2.5
BB37920		13.60	0.29	0.4	0.047	0.36	3.3	18.2	6.42	1260	0.29	1.66	1.2	197.5	330	2.7
BB37921		14.75	0.29	0.7	0.050	0.64	10.6	31.1	6.61	1145	0.57	1.23	3.6	235	430	5.6
BB37922		11.55	0.10	0.8	0.039	0.38	5.0	24.5	7.49	1155	0.27	1.17	2.1	276	350	4.7
BB37923		14.00	0.11	1.5	0.044	0.71	14.6	28.9	6.79	1140	0.46	1.41	5.0	251	240	5.6
BB37924		14.90	0.11	1.7	0.045	0.73	15.8	21.4	3.57	972	0.78	1.58	5.8	96.3	490	6.1
BB37925		14.50	0.12	1.2	0.044	0.66	13.2	20.5	4.50	1135	0.52	1.55	4.5	124.5	470	5.7

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



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Page #: 3 - B
Pages : 4 (A - D)
Date : 8-Sep-2003
Account: FFP

Project : Straw

CERTIFICATE OF ANALYSIS VA03032309

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Ga ppm 0.05	Ge ppm 0.05	Hf ppm 0.1	In ppm 0.005	K % 0.01	La ppm 0.5	Li ppm 0.2	Mg % 0.01	Mn ppm 5	Mo ppm 0.05	Na % 0.01	Nb ppm 0.1	Ni ppm 0.2	P ppm 10	Pb ppm 0.5
BB37926		12.75	0.12	1.3	0.042	0.86	13.8	21.4	5.57	1115	0.35	1.57	5.0	188.5	280	6.6
BB37927		12.55	0.12	1.4	0.048	0.76	11.9	23.4	5.82	1210	0.32	1.53	4.6	197.0	260	5.5
BB37928		13.25	0.13	1.3	0.043	0.70	14.1	27.0	5.87	1145	0.41	1.20	4.9	216	390	6.1
BB37929		12.85	0.12	1.4	0.040	0.77	13.1	32.3	5.80	1050	0.45	1.17	4.7	231	360	6.8
BB37930		12.40	0.12	1.3	0.040	0.78	12.7	29.8	5.83	1105	0.31	1.16	4.6	237	310	6.7
BB37931		13.50	0.13	1.3	0.040	0.73	9.4	37.2	7.57	1300	0.47	1.09	3.6	317	250	5.2
BB37932		14.05	0.13	1.8	0.042	0.90	17.2	32.5	6.28	1035	0.54	1.35	6.0	270	280	7.5
BB37933		14.90	0.12	0.4	0.049	0.14	1.1	40.2	9.93	1495	0.05	0.69	1.2	321	210	2.1
BB37934		13.30	0.13	1.0	0.050	0.56	9.5	31.7	7.62	1290	0.91	0.97	3.3	445	270	5.0
BB37935		14.90	0.14	2.1	0.048	0.90	15.4	26.9	5.61	1255	0.68	1.56	5.0	192.5	850	6.8
BB37936		12.80	0.11	1.0	0.040	0.53	8.9	19.8	6.55	1165	0.27	1.54	3.5	215	230	4.3
BB37937		13.20	0.13	1.4	0.041	0.68	13.6	28.5	6.24	1130	0.42	1.38	5.1	222	410	5.9
BB37938		15.05	0.12	1.0	0.031	1.15	15.6	22.8	3.78	814	0.88	1.77	4.3	131.5	650	7.1
BB37939		13.05	0.12	1.7	0.045	0.78	16.0	26.0	5.48	922	1.02	1.21	5.7	214	650	7.0
BB37940		12.15	0.12	1.4	0.040	0.87	16.6	25.3	5.08	952	0.54	1.21	5.5	191.0	390	6.9
BB37941		12.30	0.13	1.2	0.035	0.74	13.2	29.9	6.09	988	0.38	1.14	4.7	240	330	6.4
BB37942		14.80	0.12	1.2	0.044	1.01	9.9	63.5	7.49	1555	0.17	0.82	3.8	320	290	5.4
BB37943		15.40	0.15	0.7	0.040	0.97	7.0	67.9	8.67	1715	0.08	0.59	2.6	380	170	5.4
BB37944		11.80	0.11	0.6	0.033	0.32	3.8	30.2	8.05	1325	0.35	1.01	1.5	310	530	3.7
BB37945		14.50	0.13	1.9	0.042	0.92	18.2	31.7	6.18	1095	0.71	1.33	6.3	241	370	8.4
BB37946		13.55	0.13	1.5	0.036	0.80	14.8	24.7	5.34	899	1.15	1.33	5.1	201	610	7.0
BB37947		13.85	0.12	2.0	0.042	0.93	17.2	24.6	4.86	895	0.68	1.40	6.0	179.0	650	7.1
BB37948		13.50	0.14	1.5	0.045	0.76	16.8	27.4	6.11	1100	0.53	1.31	6.0	233	490	6.4
BB37949		12.85	0.14	1.3	0.038	0.77	16.5	26.2	4.32	893	0.42	1.21	5.7	154.5	780	6.7
BB37950		13.90	0.13	0.7	0.033	0.92	15.2	24.4	4.39	929	0.58	1.47	4.3	159.5	930	6.5
BB37951		13.10	0.14	0.6	0.037	0.83	15.0	21.0	4.38	995	0.56	1.29	4.4	151.0	930	6.4
BB37952		14.60	0.12	1.9	0.040	0.93	17.3	20.3	4.25	1090	0.68	1.38	5.9	123.5	830	6.7
BB37953		12.95	0.12	0.7	0.035	0.92	16.4	21.4	4.03	857	0.58	1.35	4.6	128.0	800	6.4
BB37954		12.65	0.13	1.3	0.039	0.88	18.8	19.4	4.08	866	0.79	1.25	5.6	155.0	770	7.6
BB37955		13.65	0.13	1.6	0.039	0.63	13.9	33.2	6.05	1115	0.45	1.00	4.8	274	390	6.4
BB37956		14.15	0.15	1.4	0.043	0.58	11.9	29.2	5.43	1060	0.58	1.28	4.5	226	430	6.6
BB37957		12.60	0.14	1.4	0.042	0.62	14.0	23.4	6.79	1095	0.30	1.37	4.4	242	230	5.5
BB37958		21.1	0.22	2.4	0.058	1.71	35.4	36.0	0.84	619	2.77	0.83	12.4	41.2	1540	23.3
BB37959		32.3	0.32	2.5	0.087	2.30	76.0	84.5	0.59	777	3.08	0.80	12.4	54.1	1060	30.3
BB37960		20.3	0.25	2.2	0.056	1.71	44.8	28.7	0.89	444	2.59	1.00	12.2	42.3	1320	21.4
BB37961		21.9	0.34	1.8	0.066	1.59	71.2	38.0	3.03	953	2.35	0.83	8.9	140.5	920	22.3
BB37962		16.40	0.29	1.3	0.044	1.16	28.8	25.7	3.55	870	1.06	1.18	7.5	127.0	460	10.8
BB37963		15.40	0.24	1.0	0.048	0.76	14.9	19.2	4.50	1155	0.72	1.37	4.5	126.0	490	5.8
BB37964		15.20	0.29	0.5	0.043	0.48	8.4	20.6	5.98	1135	0.43	0.96	2.9	208	360	3.9
BB37965		14.95	0.26	0.4	0.034	0.34	4.5	16.3	6.01	900	0.22	1.35	1.6	184.0	390	2.4

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



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Project : Straw

CERTIFICATE OF ANALYSIS

VA03032309

Sample Description	Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
BB37966		14.70	0.29	0.7	0.044	0.63	11.5	19.6	5.30	1215	0.61	1.07	4.2	166.5	220	4.9
BB37967		14.55	0.27	1.3	0.042	0.99	24.5	21.5	3.09	851	0.99	1.21	6.8	94.8	670	10.0
BB37968		16.55	0.33	1.3	0.041	0.98	20.6	26.1	4.03	1010	0.98	1.33	5.4	130.0	850	9.2
BB37969		16.40	0.31	1.3	0.050	1.05	29.6	28.8	3.50	1015	1.26	1.10	6.4	118.5	1050	12.4
BB37970		16.95	0.29	1.2	0.050	1.21	39.3	32.9	4.52	902	1.58	0.91	7.3	186.5	480	13.6
BB37971		26.6	0.37	2.0	0.079	2.23	57.9	49.8	3.02	909	3.23	0.98	11.2	154.5	780	23.3
BB37972		26.4	0.34	2.5	0.074	2.03	52.5	56.3	0.73	691	3.34	0.75	12.7	49.6	1530	25.0
BB37973		25.1	0.37	2.7	0.077	1.95	83.5	65.1	0.85	1135	7.16	1.00	12.4	79.5	1180	29.8
BB37974		33.7	0.40	3.0	0.102	2.75	85.8	113.5	0.52	729	3.22	0.79	14.2	59.3	910	31.9
BB37975		17.65	0.33	0.1	0.048	1.03	25.3	28.3	1.46	648	1.72	0.58	5.8	60.3	3160	19.5
BB37976		12.60	0.25	0.1	0.030	0.74	19.3	19.6	3.26	1120	1.04	0.91	4.9	115.5	1570	10.2
BB37977		14.10	0.28	0.8	0.057	0.73	17.5	22.2	4.21	1510	0.67	1.06	5.0	136.0	680	7.2
BB37978		14.20	0.26	0.8	0.037	0.66	17.8	24.4	4.97	1245	0.69	1.15	4.4	166.5	970	7.0
BB37979		13.45	0.10	1.2	0.065	0.76	15.1	20.8	4.55	1300	1.08	1.09	4.4	110.5	300	7.7
BB37980		13.65	0.10	0.1	0.049	0.63	9.8	15.7	3.48	1275	1.24	0.98	3.5	88.1	1720	8.7
BB37981		13.55	0.10	0.8	0.053	0.52	8.3	18.8	5.57	1305	0.61	0.97	2.5	162.5	400	4.0
BB37982		13.85	0.12	1.3	0.055	0.82	18.5	19.4	4.31	1340	0.80	1.11	5.1	109.0	380	7.2
BB37983		13.90	0.10	1.7	0.060	1.05	21.3	19.3	3.55	1225	0.80	1.21	5.3	79.0	370	8.5
BB37984		13.75	0.10	1.2	0.067	0.78	17.0	17.8	3.86	1475	0.88	0.95	4.8	81.6	720	6.9
BB37985		14.30	0.11	0.7	0.086	0.42	7.0	23.8	6.29	2090	1.20	0.53	2.4	142.5	630	3.6
BB37986		14.05	0.27	0.8	0.059	0.67	14.0	21.4	4.88	1470	0.66	0.89	4.7	155.5	700	6.0
BB37987		14.85	0.30	0.8	0.055	0.81	17.4	23.0	5.07	1480	0.61	1.19	5.5	149.5	430	7.0
BB37988		14.00	0.23	0.1	0.039	1.08	31.8	22.0	2.06	1015	1.31	0.94	6.1	78.0	1700	16.4
BB37989		13.40	0.26	0.7	0.035	0.64	16.0	16.2	3.63	1040	0.81	1.25	4.8	84.5	860	6.6
BB37990		15.65	0.26	0.6	0.044	0.49	11.2	26.4	4.79	1480	0.39	1.21	3.4	153.5	290	5.5
BB37991		16.00	0.31	0.8	0.047	0.54	17.0	22.5	4.76	1495	0.50	1.47	4.4	138.0	350	6.2
BB37992		15.30	0.24	0.3	0.030	1.15	15.6	16.4	2.41	997	1.04	1.66	4.3	56.0	920	7.6
BB37993		15.10	0.23	1.4	0.038	0.88	13.8	17.9	4.01	1235	0.77	1.47	4.1	86.7	750	6.0
BB37994		15.85	0.25	1.8	0.038	1.11	17.8	18.0	2.81	1215	1.12	1.48	5.5	64.6	1220	7.9
BB37995		14.15	0.21	0.9	0.040	0.65	17.2	14.3	4.08	1030	0.70	1.45	5.2	95.3	690	5.7
BB37996		13.15	0.22	0.8	0.037	0.62	16.0	14.4	4.10	1055	0.60	1.32	5.1	91.9	880	5.8
BB37997		13.90	0.23	0.8	0.044	0.59	14.4	15.1	4.38	976	0.66	1.39	4.9	92.7	1010	5.9
BB37998		13.25	0.20	0.9	0.035	0.83	18.2	15.9	3.82	812	0.64	1.63	5.1	85.5	600	7.5
BB37999		13.10	0.22	0.8	0.036	0.60	15.8	15.6	4.07	844	0.66	1.26	4.6	88.6	800	6.8
BB38000		14.05	0.26	0.9	0.040	0.58	16.4	18.4	5.00	979	0.55	1.59	4.7	103.5	450	6.8

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



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Page #: 2 - C

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CERTIFICATE OF ANALYSIS

VA03032309

Sample Description	Method Analyte Units LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.01	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
BB37886		25.4	0.004	0.04	0.31	2	2.1	59.8	0.21	0.22	2.1	0.19	0.26	0.7	235	1.7
BB37887		23.1	0.004	0.02	0.23	1	3.9	121.0	0.13	0.12	3.0	0.18	0.19	0.9	204	1.3
BB37888		36.5	0.004	0.03	0.49	1	1.8	139.0	0.19	0.09	5.8	0.26	0.25	1.5	170	1.0
BB37889		18.2	0.005	0.07	0.25	2	1.5	63.7	<0.05	0.13	3.0	0.18	0.13	1.2	181	0.6
BB37890		23.4	0.004	0.07	0.35	1	1.2	88.3	<0.05	0.16	3.9	0.23	0.18	1.1	194	0.8
BB37891		27.3	0.003	0.03	0.27	1	1.4	64.6	0.14	0.15	3.5	0.24	0.18	0.8	216	0.7
BB37892		32.1	0.004	0.02	0.38	1	1.4	108.0	0.29	0.12	4.6	0.23	0.22	1.2	187	0.8
BB37893		46.6	0.004	0.06	0.46	2	1.9	166.0	0.20	0.16	8.6	0.33	0.34	2.0	194	0.9
BB37894		29.0	0.004	0.03	0.33	1	1.2	105.5	0.16	0.14	3.8	0.27	0.20	1.1	223	0.7
BB37895		13.6	0.004	0.06	0.17	3	0.8	47.6	0.14	0.44	1.3	0.18	0.10	0.4	261	0.3
BB37896		12.6	0.003	0.05	0.12	3	0.6	36.3	0.10	0.45	0.8	0.17	0.10	0.3	280	0.3
BB37897		34.6	0.004	0.03	0.48	1	2.3	130.0	0.31	0.09	5.6	0.24	0.25	1.3	179	0.8
BB37898		24.0	0.005	0.02	0.23	2	4.1	61.8	0.19	0.15	2.1	0.18	0.23	0.7	231	0.8
BB37899		30.3	0.004	0.04	0.22	3	4.7	117.0	0.23	0.16	2.3	0.17	0.30	0.9	201	2.3
BB37900		36.6	0.005	0.04	0.11	3	4.2	49.8	0.12	0.40	1.0	0.16	0.37	0.4	243	28.1
BB37901		27.8	0.004	0.04	0.35	1	2.3	163.0	0.29	0.11	3.3	0.19	0.22	1.2	163	1.4
BB37902		26.4	0.004	0.01	0.28	<1	1.0	115.5	0.22	0.11	3.9	0.21	0.16	1.0	214	0.5
BB37903		23.3	0.004	0.03	0.24	1	1.9	119.0	0.18	0.16	2.4	0.19	0.19	0.9	211	0.6
BB37904		18.4	0.003	0.01	0.21	<1	0.8	80.0	0.19	0.12	2.7	0.18	0.12	0.7	215	0.4
BB37905		20.5	0.004	0.01	0.23	1	1.1	60.9	0.21	0.17	2.4	0.21	0.13	0.6	243	0.5
BB37906		21.0	0.003	0.03	0.21	3	0.9	90.0	0.19	0.35	1.9	0.21	0.17	0.6	253	0.5
BB37907		22.1	0.004	0.16	0.23	8	1.1	65.0	0.18	1.05	2.0	0.24	0.20	0.7	266	0.5
BB37908		19.2	0.003	0.07	0.29	1	0.6	176.0	0.22	0.15	2.4	0.20	0.13	0.9	204	0.5
BB37909		15.6	0.003	0.01	0.23	<1	1.0	69.2	0.20	0.17	2.1	0.19	0.10	0.7	234	0.4
BB37910		15.3	0.004	0.02	0.22	<1	0.6	64.4	0.24	0.16	2.1	0.17	0.09	0.6	238	0.5
BB37911		10.8	0.003	0.02	0.24	1	0.5	50.7	0.12	0.22	1.4	0.16	0.06	0.4	252	0.4
BB37912		18.2	0.003	0.01	0.20	<1	0.9	77.7	0.19	0.13	2.6	0.21	0.12	0.7	241	0.5
BB37913		14.8	0.004	0.02	0.20	1	0.8	74.2	0.05	0.10	1.8	0.18	0.10	0.6	203	0.5
BB37914		22.7	0.004	0.03	0.27	<1	3.1	71.7	0.06	0.12	3.2	0.22	0.14	0.8	223	0.6
BB37915		27.9	0.003	0.04	0.31	1	1.0	134.0	0.13	0.11	3.7	0.28	0.16	1.0	210	0.7
BB37916		24.2	0.005	0.04	0.25	1	1.0	81.2	<0.05	0.13	3.0	0.23	0.14	0.8	220	0.6
BB37917		28.4	0.003	0.01	0.30	<1	0.9	124.0	0.23	0.09	4.5	0.23	0.19	1.1	204	0.5
BB37918		10.0	0.003	0.03	0.15	1	1.3	55.6	0.13	0.12	1.1	0.15	0.06	0.4	219	0.4
BB37919		7.8	0.004	0.01	0.12	1	0.5	59.8	0.09	0.14	1.2	0.17	0.04	0.4	268	2.4
BB37920		8.8	0.004	0.03	0.12	<1	0.6	65.4	0.08	0.12	0.9	0.17	0.05	0.3	261	0.3
BB37921		22.5	0.003	0.03	0.25	<1	0.8	79.8	0.15	0.14	3.1	0.20	0.14	0.8	223	0.4
BB37922		12.0	<0.002	0.04	0.28	<1	0.4	55.0	0.11	0.06	2.7	0.15	0.08	0.4	208	0.6
BB37923		24.7	0.002	0.02	0.35	<1	0.8	108.5	0.27	0.07	5.5	0.24	0.15	1.0	220	0.8
BB37924		30.1	<0.002	0.03	0.37	1	1.1	115.5	0.30	0.10	6.1	0.28	0.19	1.2	204	0.8
BB37925		27.5	<0.002	0.03	0.35	1	0.9	112.5	0.14	0.06	4.3	0.26	0.14	1.0	224	0.8

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



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Date : 8-Sep-2003

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Project : Straw

CERTIFICATE OF ANALYSIS

VA03032309

Sample Description	Method Analyte Units LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.01	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
BB37926		30.3	<0.002	0.01	0.34	1	1.0	152.0	0.19	<0.05	5.2	0.24	0.18	1.1	209	0.8
BB37927		26.1	<0.002	0.01	0.27	1	0.8	127.5	0.23	0.07	4.6	0.21	0.16	0.8	209	0.8
BB37928		27.2	<0.002	0.02	0.29	1	0.9	112.5	0.17	0.06	5.5	0.23	0.17	1.1	206	0.7
BB37929		28.4	<0.002	0.02	0.34	<1	0.9	130.5	0.18	0.05	5.0	0.23	0.17	1.0	201	0.8
BB37930		27.6	<0.002	0.03	0.34	1	0.8	133.0	0.18	0.05	4.7	0.22	0.18	0.9	201	0.8
BB37931		24.1	<0.002	0.03	0.28	1	0.6	115.0	0.18	0.08	3.4	0.20	0.15	0.7	233	0.6
BB37932		31.1	<0.002	0.02	0.47	1	1.0	159.5	0.27	0.07	6.3	0.26	0.21	1.3	219	0.9
BB37933		3.7	<0.002	0.02	0.08	1	0.2	43.5	0.06	0.16	0.7	0.15	0.03	0.3	270	0.4
BB37934		18.2	<0.002	0.02	0.29	2	0.8	85.3	0.18	0.26	3.4	0.19	0.14	0.8	252	0.9
BB37935		30.6	<0.002	0.05	0.41	1	1.0	168.0	0.17	0.08	5.6	0.25	0.19	1.3	209	1.0
BB37936		23.7	<0.002	0.01	0.19	1	0.8	75.6	0.16	0.05	3.3	0.20	0.11	0.6	226	0.6
BB37937		26.4	<0.002	0.03	0.32	1	0.9	93.5	0.18	0.07	4.8	0.25	0.15	1.1	218	0.6
BB37938		31.8	<0.002	0.04	0.39	1	0.9	263	0.07	0.07	5.7	0.23	0.19	1.6	145	0.8
BB37939		29.2	<0.002	0.04	0.47	2	1.0	113.5	0.19	0.14	6.1	0.23	0.20	1.3	190	1.1
BB37940		31.7	<0.002	0.02	0.47	1	1.1	127.5	0.16	0.06	5.8	0.25	0.20	1.2	194	0.8
BB37941		27.3	<0.002	0.02	0.34	1	0.9	116.5	0.14	<0.05	4.6	0.23	0.17	1.0	205	1.1
BB37942		34.2	<0.002	0.02	0.27	1	0.6	126.5	0.20	<0.05	3.7	0.25	0.21	0.7	228	0.8
BB37943		34.2	<0.002	0.01	0.20	<1	0.5	93.1	0.12	<0.05	2.5	0.28	0.20	0.5	242	0.6
BB37944		9.7	<0.002	0.06	0.16	1	0.3	70.4	0.08	0.15	1.5	0.15	0.06	0.4	237	6.0
BB37945		33.6	<0.002	0.03	0.52	1	1.2	158.0	0.31	0.07	6.8	0.26	0.22	1.4	221	1.5
BB37946		31.0	<0.002	0.04	0.43	1	1.0	128.5	0.14	0.13	5.2	0.24	0.21	1.2	209	0.9
BB37947		33.1	<0.002	0.04	0.45	1	1.1	158.5	0.23	0.06	6.4	0.27	0.21	1.4	196	1.2
BB37948		29.3	<0.002	0.03	0.33	1	1.0	119.5	0.16	0.07	7.0	0.26	0.18	1.3	213	0.9
BB37949		31.1	<0.002	0.04	0.35	1	1.1	109.0	0.08	0.06	6.3	0.26	0.18	1.3	175	1.0
BB37950		31.0	<0.002	0.05	0.31	1	0.9	176.5	0.06	<0.05	6.8	0.23	0.17	1.4	163	0.7
BB37951		29.2	<0.002	0.05	0.36	1	1.2	143.0	0.05	<0.05	5.7	0.25	0.18	1.4	178	0.8
BB37952		32.4	<0.002	0.05	0.41	1	1.2	142.0	0.15	<0.05	6.7	0.29	0.19	1.4	209	0.8
BB37953		31.2	<0.002	0.06	0.44	1	1.0	155.5	0.06	<0.05	5.8	0.25	0.20	1.4	166	1.0
BB37954		35.3	<0.002	0.03	0.49	1	1.1	127.5	0.08	<0.05	7.7	0.28	0.22	1.6	175	0.9
BB37955		22.2	<0.002	0.02	0.36	1	0.8	98.9	0.20	0.05	5.9	0.26	0.15	1.1	224	0.8
BB37956		21.7	<0.002	0.03	0.32	1	0.8	96.2	0.16	0.06	4.6	0.26	0.14	1.0	245	0.7
BB37957		22.6	<0.002	0.02	0.30	1	0.8	99.9	0.17	<0.05	5.5	0.23	0.14	1.1	222	0.5
BB37958		95.7	0.003	0.08	0.45	1	2.7	150.0	0.56	0.08	14.6	0.40	0.60	2.9	123	1.6
BB37959		153.5	0.004	0.04	0.34	1	3.7	194.5	0.75	0.12	20.3	0.31	0.96	3.1	147	2.6
BB37960		89.7	0.004	0.09	0.58	1	2.6	174.5	0.55	0.10	13.5	0.37	0.61	2.9	125	8.5
BB37961		93.9	0.005	0.03	0.22	1	2.5	163.5	0.20	0.09	15.7	0.41	0.62	2.9	156	1.3
BB37962		51.3	0.003	0.01	0.34	<1	1.5	148.0	0.33	0.07	8.1	0.31	0.34	1.7	176	0.9
BB37963		26.0	0.003	0.02	0.20	<1	0.8	147.0	0.31	0.07	4.2	0.28	0.17	1.0	222	0.7
BB37964		16.8	0.003	0.02	0.15	<1	0.6	68.0	0.20	0.08	2.6	0.23	0.10	0.7	248	0.5
BB37965		9.1	0.003	0.03	0.12	<1	0.4	82.2	0.11	0.06	1.3	0.18	0.05	0.4	251	0.2

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



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Project : Straw

CERTIFICATE OF ANALYSIS

VA03032309

Sample Description	Method Analyte Units LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.01	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
BB37966		23.1	0.003	0.01	0.17	<1	0.7	88.4	0.27	0.08	3.4	0.26	0.13	0.8	229	0.7
BB37967		41.5	0.003	0.04	0.43	<1	1.3	146.5	0.27	0.07	7.2	0.31	0.28	1.6	172	0.8
BB37968		39.2	0.004	0.05	0.35	<1	1.1	169.0	0.21	0.07	6.1	0.25	0.25	1.4	180	0.8
BB37969		50.2	0.003	0.07	0.38	<1	1.4	129.0	0.22	0.07	8.5	0.27	0.33	1.8	176	1.1
BB37970		58.4	0.003	0.02	0.18	1	1.4	173.0	0.24	0.08	8.8	0.31	0.39	1.9	178	1.1
BB37971		128.0	0.003	0.02	0.07	2	2.8	224	0.63	0.12	15.1	0.40	0.77	2.7	197	1.6
BB37972		124.5	0.003	0.08	0.32	1	3.2	185.0	0.54	0.11	17.1	0.42	0.81	3.2	137	1.9
BB37973		118.0	0.003	0.03	0.29	1	3.1	191.5	0.34	0.13	21.5	0.50	0.78	4.6	162	2.6
BB37974		174.5	0.004	0.01	0.11	1	4.2	291	0.55	0.10	23.9	0.48	1.04	4.0	158	1.6
BB37975		63.3	0.003	0.13	0.26	1	1.6	93.7	0.05	0.09	11.0	0.27	0.37	2.5	108	1.1
BB37976		37.4	0.004	0.11	0.28	<1	1.1	113.0	0.05	0.05	6.1	0.25	0.24	1.5	142	0.8
BB37977		27.9	0.003	0.05	0.36	<1	0.8	107.5	0.29	0.09	4.6	0.26	0.18	1.2	206	0.8
BB37978		27.8	0.004	0.08	0.33	<1	1.0	101.5	0.13	0.07	4.5	0.23	0.16	1.1	197	0.6
BB37979		29.7	0.002	0.03	0.37	1	0.9	115.5	0.15	0.05	7.1	0.30	0.18	1.3	211	0.9
BB37980		33.6	<0.002	0.11	0.26	<1	1.0	74.8	<0.05	<0.05	4.8	0.29	0.16	1.1	200	0.7
BB37981		17.8	<0.002	0.02	0.22	<1	0.6	83.7	0.13	<0.05	3.9	0.24	0.10	0.7	230	0.4
BB37982		33.4	<0.002	0.02	0.41	1	1.0	127.0	0.15	<0.05	7.3	0.31	0.23	1.3	194	0.5
BB37983		39.9	<0.002	0.02	0.51	<1	1.1	161.0	0.21	<0.05	8.2	0.32	0.25	1.7	181	0.5
BB37984		30.6	<0.002	0.05	0.45	1	1.0	113.5	0.10	<0.05	6.8	0.31	0.18	1.3	205	1.2
BB37985		14.4	<0.002	0.07	0.24	1	0.5	54.5	0.14	0.08	2.9	0.24	0.08	0.7	249	0.6
BB37986		25.0	0.003	0.06	0.38	1	0.9	101.0	0.29	0.10	3.9	0.25	0.17	1.1	213	0.7
BB37987		30.2	0.003	0.02	0.32	<1	0.9	122.0	0.34	0.08	4.8	0.31	0.19	1.2	230	0.8
BB37988		54.6	0.004	0.08	0.42	1	1.6	131.0	<0.05	0.06	11.5	0.33	0.36	2.4	131	1.2
BB37989		27.1	0.004	0.07	0.33	1	0.9	104.5	0.10	0.07	4.6	0.27	0.18	1.1	189	0.6
BB37990		19.4	0.003	0.02	0.14	<1	0.6	99.6	0.21	0.06	2.9	0.29	0.14	0.8	251	0.5
BB37991		21.2	0.004	0.02	0.24	1	0.7	101.5	0.31	0.07	4.4	0.30	0.15	1.1	255	0.6
BB37992		34.1	0.004	0.06	0.37	<1	0.8	260	0.06	0.05	4.4	0.25	0.19	1.4	133	0.6
BB37993		24.4	0.004	0.04	0.31	<1	0.7	207	0.33	0.06	3.7	0.23	0.14	1.2	175	0.5
BB37994		34.7	0.003	0.08	0.43	<1	0.9	251	0.29	0.05	4.9	0.28	0.21	1.6	149	0.8
BB37995		23.3	0.003	0.04	0.33	<1	0.8	119.0	0.35	0.05	4.6	0.28	0.14	1.2	209	0.6
BB37996		25.1	0.003	0.04	0.35	<1	0.9	103.5	0.33	0.05	4.6	0.27	0.14	1.1	203	0.6
BB37997		24.6	0.003	0.06	0.34	<1	0.9	104.5	0.27	0.06	4.0	0.28	0.16	1.1	207	0.6
BB37998		31.2	0.003	0.03	0.32	<1	1.0	141.5	0.17	0.05	4.6	0.30	0.19	1.2	183	0.6
BB37999		23.6	0.003	0.05	0.29	<1	0.9	106.5	0.16	0.05	4.2	0.29	0.16	1.1	183	0.6
BB38000		22.7	0.003	0.04	0.21	<1	1.0	116.0	0.18	0.05	4.2	0.30	0.15	1.1	218	0.6

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



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CERTIFICATE OF ANALYSIS VA03032309

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
BB37886		7.3	251	16.4
BB37887		8.2	119	29.7
BB37888		10.0	84	34.3
BB37889		6.5	66	3.6
BB37890		8.4	115	6.3
BB37891		7.8	91	21.6
BB37892		8.7	96	27.9
BB37893		11.8	139	42.2
BB37894		9.4	128	25.8
BB37895		6.8	114	10.5
BB37896		6.4	162	7.2
BB37897		9.4	90	31.5
BB37898		7.5	161	16.5
BB37899		6.7	192	29.7
BB37900		5.1	271	15.2
BB37901		6.8	92	43.4
BB37902		9.9	97	21.8
BB37903		7.4	105	27.5
BB37904		8.3	104	16.3
BB37905		8.0	112	18.5
BB37906		7.8	111	19.0
BB37907		7.3	130	14.0
BB37908		6.9	104	37.9
BB37909		7.3	120	16.5
BB37910		7.8	102	15.0
BB37911		7.1	140	10.3
BB37912		8.1	103	17.8
BB37913		6.9	90	15.4
BB37914		8.5	77	28.4
BB37915		10.0	82	31.5
BB37916		8.2	96	14.3
BB37917		11.1	81	34.4
BB37918		6.6	92	9.8
BB37919		8.8	118	12.0
BB37920		8.6	107	10.0
BB37921		7.9	102	24.0
BB37922		6.2	86	15.0
BB37923		9.7	85	24.9
BB37924		10.4	86	28.9
BB37925		10.2	80	18.4

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CERTIFICATE OF ANALYSIS VA03032309

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
BB37926		9.6	75	21.4
BB37927		9.1	78	22.6
BB37928		8.8	83	21.3
BB37929		7.8	70	24.5
BB37930		7.8	70	20.4
BB37931		7.0	95	22.3
BB37932		9.2	81	29.6
BB37933		5.4	164	5.8
BB37934		7.9	99	16.2
BB37935		8.8	82	35.9
BB37936		7.1	69	18.4
BB37937		8.6	77	21.7
BB37938		7.1	64	19.9
BB37939		8.8	74	29.0
BB37940		8.2	69	22.0
BB37941		7.2	66	20.4
BB37942		8.0	106	21.4
BB37943		4.8	104	10.6
BB37944		5.3	76	9.8
BB37945		9.3	81	32.8
BB37946		7.7	67	25.2
BB37947		8.6	70	36.0
BB37948		9.3	77	24.3
BB37949		8.6	69	20.4
BB37950		7.0	68	13.0
BB37951		8.9	77	11.1
BB37952		9.9	76	32.4
BB37953		9.1	71	14.5
BB37954		9.6	70	23.9
BB37955		8.0	88	28.5
BB37956		7.7	69	20.6
BB37957		8.8	67	21.1
BB37958		12.4	82	83.4
BB37959		20.1	98	88.8
BB37960		14.6	72	75.0
BB37961		28.7	95	68.1
BB37962		13.0	75	44.1
BB37963		11.2	64	32.0
BB37964		10.0	52	15.1
BB37965		10.4	30	9.6

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



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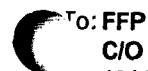
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CERTIFICATE OF ANALYSIS VA03032309

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61
	Analyte	Y	Zn	Zr
	Units LOR	ppm 0.1	ppm 2	ppm 0.5
BB37966		10.7	59	21.8
BB37967		11.8	67	43.7
BB37968		11.6	78	45.1
BB37969		13.4	94	44.4
BB37970		14.2	78	42.7
BB37971		20.2	114	67.2
BB37972		17.2	94	86.7
BB37973		29.3	123	98.5
BB37974		23.2	116	110.5
BB37975		11.2	67	4.2
BB37976		9.9	73	3.6
BB37977		12.8	170	25.7
BB37978		12.2	125	23.8
BB37979		11.5	99	25.6
BB37980		9.6	60	2.9
BB37981		9.0	64	13.9
BB37982		11.5	95	25.4
BB37983		12.0	84	37.2
BB37984		11.8	90	26.6
BB37985		10.0	136	14.8
BB37986		12.6	111	24.8
BB37987		13.0	132	25.4
BB37988		12.4	69	3.5
BB37989		9.4	92	22.7
BB37990		13.8	94	18.1
BB37991		15.5	94	23.9
BB37992		7.8	77	11.1
BB37993		10.2	100	48.7
BB37994		9.7	79	66.1
BB37995		11.4	73	29.8
BB37996		10.6	76	24.0
BB37997		10.4	80	24.0
BB37998		10.7	70	27.6
BB37999		9.7	71	26.0
BB38000		10.9	95	26.3

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



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Page # : 1
Date : 8-Sep-2003
Account: FFP

CERTIFICATE VA03032308

Project : Straw

P.O. No:

This report is for 141 SOIL samples submitted to our lab in North Vancouver, BC, Canada on 28-Aug-2003.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHER

ROB CARNE
BILL WENGZYNOWSKI

DOUG EATON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	47 element four acid ICP-MS

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

Signature:



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e #: 2 - A

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CERTIFICATE OF ANALYSIS

VA03032308

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
BB09893		0.42	0.09	3.85	<0.2	60	1.18	0.19	5.57	0.17	2.31	70.2	1120	4.16	59.0	6.40
BB09894		0.38	0.12	7.36	1.5	330	2.05	0.37	3.08	0.16	14.40	46.1	334	17.10	141.0	6.83
BB09895		0.38	0.16	7.01	7.8	440	2.21	0.28	2.86	0.28	19.75	34.8	369	19.30	153.0	6.13
BB27365		0.38	0.19	7.93	6.7	570	5.69	0.92	2.20	0.29	11.95	57.4	370	56.5	209	6.93
BB27366		0.36	0.16	7.91	2.3	570	3.47	0.69	1.94	0.21	33.4	32.8	268	47.9	133.0	5.43
BB27367		0.36	0.12	7.27	2.7	260	2.18	0.45	2.36	0.32	10.80	61.5	411	26.6	267	7.46
BB27368		0.26	0.17	6.40	0.5	170	1.17	0.37	3.10	0.20	6.21	54.6	647	14.75	342	8.07
BB27369		0.38	0.13	7.04	0.2	190	1.48	0.29	3.48	0.24	9.31	59.0	423	16.80	230	7.02
BB33972		0.32	0.14	7.35	1.0	430	1.68	0.39	2.12	0.14	13.70	42.9	442	12.85	365	7.69
BB33973		0.26	0.09	6.49	1.7	360	1.64	0.34	2.40	0.30	22.2	41.9	401	15.50	230	5.74
BB33974		0.36	0.31	7.17	<0.2	320	1.38	1.04	1.58	0.24	2.74	65.2	810	17.60	553	14.55
BB37501		0.42	0.12	7.87	0.4	140	0.86	0.16	2.85	0.18	3.77	55.4	448	44.0	348	6.86
BB37656		0.26	0.10	6.97	3.5	540	1.76	0.18	2.55	0.27	34.3	26.3	220	12.70	105.5	4.79
BB37657		0.32	0.11	5.29	0.9	200	4.70	0.19	3.78	0.29	11.90	54.6	676	8.72	138.0	5.75
BB37658		0.32	0.11	6.84	1.8	450	1.22	0.23	3.15	0.21	19.75	41.9	359	14.15	235	5.59
BB37659		0.30	0.19	7.66	4.3	410	1.96	0.53	2.36	0.96	17.65	52.2	297	24.2	221	6.71
BB37660		0.24	0.12	6.53	3.8	310	1.41	0.34	2.44	0.33	19.00	42.8	365	16.10	148.0	5.94
BB37661		0.30	0.12	7.20	2.2	520	1.66	0.24	2.59	0.31	33.5	29.8	202	12.65	120.5	4.49
BB37663		0.40	0.19	6.92	<0.2	160	5.14	0.35	3.29	0.55	4.86	86.4	607	21.8	527	7.30
BB37664		0.28	0.13	6.99	3.2	440	4.62	1.37	2.36	0.69	19.55	44.4	290	37.4	172.5	5.92
BB37665		0.22	0.21	6.61	3.1	430	3.38	1.24	1.86	0.44	29.5	31.9	182	47.6	221	5.32
BB37666		0.28	0.17	7.77	1.2	430	1.84	0.25	2.44	0.41	20.7	40.4	253	11.75	169.0	5.20
BB37667		0.30	0.13	7.13	0.6	330	1.82	0.23	2.19	0.46	15.50	39.7	315	12.85	166.0	5.50
BB37668		0.38	0.09	7.38	2.5	410	1.91	0.34	3.03	0.24	31.3	39.5	297	16.20	233	6.00
BB37669		0.32	0.11	7.71	1.5	560	3.89	1.34	2.51	0.18	37.7	37.3	276	30.6	131.0	5.55
BB37670		0.40	0.11	6.48	0.4	170	3.07	0.26	3.14	0.35	11.65	53.3	489	12.15	236	6.29
BB37671		0.38	0.15	6.68	0.2	250	3.19	0.28	3.70	0.48	6.35	69.9	583	15.35	388	7.06
BB37672		0.44	0.12	7.05	0.9	180	1.22	0.17	3.87	0.28	4.02	60.3	753	21.4	350	7.52
BB37673		0.46	0.13	7.01	0.4	120	1.21	0.21	3.46	0.19	4.52	51.0	678	11.45	394	7.22
BB37674		0.46	0.13	7.33	<0.2	140	1.10	0.33	3.35	0.93	4.23	45.4	625	14.10	359	7.46
BB37675		0.22	0.05	7.10	<0.2	100	0.62	0.06	3.79	0.12	3.88	43.7	635	10.55	149.0	7.11
BB37676		0.26	0.10	7.47	0.3	370	2.67	0.26	3.54	0.11	22.5	43.1	528	43.4	158.5	6.97
BB37677		0.22	0.09	7.49	3.2	150	6.97	1.14	3.24	0.11	13.05	35.4	411	41.1	52.9	5.63
BB37678		0.22	0.07	6.69	3.6	830	0.93	0.15	1.31	0.16	19.60	34.3	449	29.0	14.0	5.08
BB37679		0.30	0.07	4.39	0.8	430	0.52	0.10	4.57	0.13	11.40	52.9	508	2.30	14.3	4.42
BB37685		0.40	0.10	7.62	<0.2	140	1.02	0.17	3.39	0.35	3.39	49.6	458	29.0	282	7.24
BB37686		0.34	0.17	7.95	8.1	160	1.84	0.29	2.84	0.27	5.26	53.1	379	31.3	535	7.68
BB37687		0.38	0.10	8.04	0.7	140	0.82	0.28	3.44	0.20	3.23	52.1	458	30.1	284	7.50
BB37688		0.50	0.12	7.66	0.7	210	0.66	0.13	3.50	0.28	7.75	56.3	571	22.8	377	7.31
BB37689		0.46	0.05	6.82	<0.2	120	0.77	0.09	4.07	0.10	1.94	52.7	589	8.78	164.0	7.34

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



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Date : 8-Sep-2003
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Project : Straw

CERTIFICATE OF ANALYSIS VA03032308

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
BB37690		0.34	0.16	7.23	0.8	150	1.84	0.25	2.86	0.49	4.14	59.8	660	50.2	342	7.46
BB37691		0.42	0.16	7.41	0.3	120	1.41	0.27	2.92	0.19	3.38	58.0	641	18.30	445	7.71
BB37692		0.56	0.16	7.03	0.2	100	1.04	0.25	3.21	0.21	2.63	65.5	676	18.30	515	7.50
BB37693		0.34	0.14	7.46	0.2	110	0.57	0.17	3.09	0.40	3.21	67.5	660	12.20	424	7.76
BB37694		0.40	0.11	7.02	0.4	110	1.06	0.22	4.07	0.59	3.71	48.8	492	19.30	362	7.02
BB37695		0.40	0.16	7.72	1.7	200	1.19	0.29	3.04	0.59	8.42	45.0	298	40.5	670	7.15
BB37696		0.40	0.15	8.05	9.6	150	1.02	0.22	3.12	0.28	4.70	51.6	353	40.1	626	7.35
BB37751		0.44	0.07	7.33	0.7	120	0.42	0.10	4.04	0.40	3.82	46.6	493	16.30	319	7.29
BB37752		0.36	0.06	7.29	<0.2	120	0.28	0.08	5.12	0.11	1.39	51.1	561	8.93	157.5	7.63
BB37753		0.34	0.06	7.80	<0.2	130	0.66	0.09	3.44	0.08	1.94	56.0	546	21.6	137.0	7.83
BB37754		0.30	0.09	6.57	1.1	230	1.46	0.15	3.38	0.24	12.75	26.8	229	16.85	52.9	5.72
BB37755		0.36	0.12	6.80	2.5	310	1.29	0.47	2.00	0.29	17.10	59.8	366	20.2	226	6.94
BB37756		0.32	0.08	6.02	1.8	310	1.31	0.18	2.98	0.15	16.45	29.9	342	13.00	144.5	5.51
BB37757		0.32	0.15	8.31	1.0	240	6.13	1.04	1.09	0.24	5.29	61.4	449	85.1	286	8.14
BB37758		0.34	0.24	6.22	9.1	320	2.56	1.23	1.56	0.69	24.4	47.9	374	43.7	333	7.53
BB37759		0.30	0.13	6.33	4.7	300	1.72	0.39	1.81	0.47	19.85	42.5	465	18.15	161.0	6.53
BB37760		0.36	0.13	6.33	2.3	150	1.36	0.35	2.62	0.29	8.94	61.5	505	10.35	225	7.06
BB37761		0.22	0.11	6.64	3.8	520	1.13	0.14	2.62	0.36	28.6	17.4	134	8.48	155.5	4.12
BB37762		0.20	0.12	6.71	3.3	490	1.58	0.18	2.69	0.21	27.7	22.9	196	15.45	133.5	4.91
BB37763		0.22	0.15	6.44	1.7	270	0.87	0.14	2.60	0.24	14.45	24.0	190	16.35	63.5	5.30
BB37764		0.24	0.12	6.66	2.7	190	1.20	0.36	2.78	0.29	11.30	46.8	540	8.33	300	7.97
BB37765		0.26	0.12	6.48	2.3	320	2.22	0.28	3.07	0.55	19.90	40.0	352	9.58	218	6.08
BB37766		0.24	0.14	7.53	0.6	260	2.13	0.21	2.50	0.33	7.55	47.2	519	39.1	297	7.51
BB37767		0.28	0.13	7.52	0.7	110	1.22	0.20	3.08	0.26	3.67	66.1	818	24.8	475	7.95
BB37768		0.24	0.20	7.57	0.7	150	0.86	0.23	3.02	0.16	5.55	54.4	657	13.05	416	7.52
BB37769		0.20	0.15	8.17	0.4	160	0.83	0.21	3.87	0.28	5.71	67.0	613	14.95	511	8.06
BB37770		0.32	0.24	7.25	0.4	130	0.72	0.27	2.96	0.47	2.82	69.7	638	10.40	524	8.17
BB37771		0.26	0.19	7.72	0.8	210	0.81	0.42	3.80	0.51	12.20	42.1	384	22.6	1145	7.00
BB37772		0.30	0.19	7.81	0.9	180	0.65	0.33	3.90	0.27	7.00	58.4	556	12.15	603	7.70
BB37773		0.26	0.16	7.86	0.7	230	0.55	0.21	3.20	0.31	9.21	44.4	375	68.7	798	6.74
BB37774		0.30	0.12	8.98	0.7	160	0.32	0.15	2.81	0.18	4.17	42.4	334	68.5	334	6.97
BB37775		0.24	0.08	7.19	0.4	130	0.32	0.08	4.11	0.15	4.71	57.8	587	7.01	232	7.37
BB37776		0.20	0.05	7.30	0.4	100	0.27	0.05	4.63	0.07	3.58	59.0	675	5.57	156.5	7.43
BB37777		0.20	0.08	6.88	0.9	200	0.43	0.11	4.36	0.13	10.50	45.6	546	6.08	203	6.83
BB37778		0.28	0.12	7.04	1.2	240	0.99	0.30	3.51	0.18	10.60	43.3	489	9.76	343	6.92
BB37779		0.24	0.17	7.28	1.4	300	0.65	0.25	3.77	0.17	16.65	42.1	422	12.15	600	6.29
BB37780		0.26	0.18	6.99	1.2	220	0.68	0.35	3.96	0.21	12.80	45.3	452	16.40	1345	6.80
BB37781		0.26	0.21	7.46	0.9	210	1.87	0.58	4.02	0.37	7.65	39.1	471	12.10	731	7.98
BB37782		0.24	0.25	7.72	1.4	230	0.86	0.40	3.58	0.27	12.25	39.8	430	31.1	681	7.31
BB37783		0.20	0.17	7.65	1.1	250	0.78	0.29	3.56	0.59	12.40	42.7	349	26.2	1040	6.60

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



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e #: 4 - A

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Project : Straw

CERTIFICATE OF ANALYSIS VA03032308

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
BB37784		0.22	0.17	7.58	0.4	110	0.74	0.20	3.48	0.29	3.39	72.6	629	15.05	610	8.18
BB37785		0.22	0.23	7.06	0.5	210	0.57	0.37	1.78	0.15	1.40	34.6	756	16.85	343	10.65
BB37786		0.26	0.29	6.70	<0.2	110	2.06	0.39	3.51	0.22	1.88	39.4	726	11.10	353	8.67
BB37787		0.26	0.12	7.19	<0.2	90	0.71	0.18	3.30	0.18	2.83	64.5	749	7.03	628	8.26
BB37788		0.26	0.19	8.01	1.2	260	4.30	0.36	2.27	0.51	9.52	45.7	587	23.8	525	8.16
BB37789		0.22	0.12	7.18	2.1	310	0.86	0.16	3.22	0.24	18.25	29.7	343	13.10	273	5.96
BB37790		0.22	0.10	7.21	1.3	230	0.73	0.15	3.70	0.27	11.70	29.7	303	17.25	77.9	6.08
BB37791		0.28	0.09	6.66	0.4	80	0.57	0.10	3.79	0.15	5.26	73.3	823	3.02	130.0	7.47
BB37792		0.28	0.11	7.35	1.6	280	0.98	0.21	3.60	0.26	17.90	42.1	433	18.60	350	7.13
BB37793		0.24	0.09	6.53	0.9	190	3.58	0.26	4.03	0.30	7.20	41.1	530	18.55	145.5	6.97
BB37794		0.26	0.10	6.78	4.2	580	1.76	0.17	2.40	0.22	43.3	22.4	202	15.05	272	4.63
BB37795		0.32	0.09	6.18	3.0	400	2.13	0.17	2.89	0.18	24.3	23.7	186	12.60	162.0	4.80
BB37796		0.24	0.10	6.98	3.6	500	1.18	0.13	3.26	0.28	36.0	22.8	211	11.20	197.5	4.68
BB37797		0.18	0.29	7.19	2.1	300	0.89	0.25	3.40	0.33	17.75	24.9	243	7.87	232	5.75
BB37798		0.24	0.15	6.86	3.3	350	0.96	0.23	3.84	0.28	22.0	23.9	243	7.67	133.0	5.40
BB37799		0.22	0.11	7.29	1.6	280	0.79	0.15	4.39	0.37	15.05	30.9	278	11.35	131.0	5.97
BB37800		0.24	0.15	7.20	1.5	290	0.61	0.13	3.45	0.21	20.4	25.5	172	14.55	60.7	5.78
BB37801		0.28	0.09	7.36	3.4	480	1.62	0.16	3.05	0.30	37.1	27.9	206	17.70	266	5.43
BB37802		0.26	0.13	5.21	1.0	300	22.9	0.97	5.19	0.38	5.40	51.7	572	93.4	339	7.03
BB37803		0.22	0.10	6.93	2.0	280	0.75	0.14	2.98	0.16	14.85	32.1	409	9.23	130.0	5.96
BB37804		0.22	0.10	7.25	1.6	290	2.80	0.20	3.61	0.23	17.05	32.8	338	12.90	286	6.32
BB37805		0.20	0.07	6.68	1.0	160	0.70	0.16	2.80	0.16	7.78	33.1	549	5.13	123.5	6.12
BB37806		0.32	0.07	6.95	0.3	160	0.30	0.08	3.97	0.11	1.74	59.3	660	6.66	159.5	7.46
BB37807		0.34	0.04	7.31	<0.2	60	0.25	0.06	5.01	0.07	2.12	48.4	587	1.82	387	7.54
BB37808		0.34	0.05	6.78	<0.2	90	0.84	0.05	5.03	0.06	2.52	59.5	667	2.21	167.5	7.16
BB37809		0.36	0.06	7.67	<0.2	100	0.79	0.06	4.64	0.11	3.34	62.4	776	5.34	156.0	7.75
BB37810		0.24	0.04	7.45	1.0	140	0.56	0.10	4.71	0.08	7.03	46.6	547	4.69	223	7.12
BB37811		0.28	0.06	7.32	1.0	1460	0.33	0.04	4.25	0.08	4.71	44.7	500	5.04	266	7.12
BB37812		0.30	0.04	6.66	0.6	150	0.64	0.05	4.66	0.08	6.69	42.3	549	5.52	128.0	6.41
BB37813		0.28	0.05	6.38	0.9	110	0.71	0.07	3.89	0.08	3.55	62.8	692	11.20	84.0	6.78
BB37814		0.28	0.08	7.13	1.4	260	0.87	0.12	3.48	0.13	14.50	48.3	474	35.6	116.0	6.48
BB37815		0.36	0.06	7.09	0.7	250	1.52	0.18	3.38	0.13	4.97	62.8	721	13.00	117.5	7.72
BB37816		0.42	0.06	7.35	0.9	130	2.34	0.15	3.61	0.10	3.45	60.6	622	28.0	114.5	7.44
BB37817		0.40	0.08	6.50	1.6	220	9.88	0.32	3.82	0.13	5.98	67.0	702	38.7	130.5	7.19
BB37818		0.34	0.04	7.06	0.2	100	1.26	0.10	5.09	0.08	3.02	57.9	537	13.65	53.1	6.72
BB37819		0.28	0.06	6.75	1.4	80	3.48	0.20	2.84	0.06	2.49	70.3	698	20.0	106.0	6.91
BB37820		0.28	0.09	6.79	4.8	150	3.58	0.68	3.38	0.13	7.88	40.8	467	43.1	119.5	5.97
BB37821		0.30	0.11	6.68	2.7	120	11.80	0.44	3.85	0.14	2.71	61.4	538	68.4	88.7	6.29
BB37822		0.26	0.07	6.72	0.2	70	1.96	0.23	3.37	0.10	3.27	66.7	823	25.4	68.4	7.27
BB37823		0.32	0.10	7.87	11.5	190	5.61	0.34	2.37	0.16	8.08	65.0	621	37.2	111.0	7.99

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



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Date : 8-Sep-2003

Account: FFP

Project : Straw

CERTIFICATE OF ANALYSIS

VA03032308

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
BB37824		0.42	0.12	7.97	0.6	80	13.25	0.52	4.33	0.05	1.70	60.4	502	78.5	70.9	7.43
BB37825		0.36	0.08	6.77	1.9	130	3.64	0.18	4.01	0.11	4.66	65.5	621	21.5	113.0	7.44
BB37826		0.30	0.06	8.03	1.1	240	1.16	0.11	2.99	0.08	14.45	51.2	550	10.00	93.3	6.64
BB37827		0.36	0.06	6.25	0.2	30	0.58	0.19	3.13	0.05	1.91	65.4	711	6.15	93.1	7.25
BB37828		0.28	0.09	6.81	1.2	130	8.38	0.52	3.94	0.11	3.13	60.2	651	65.5	94.9	6.96
BB37829		0.30	0.10	8.90	2.9	170	10.90	2.94	2.27	0.11	26.7	32.1	340	48.7	66.9	4.75
BB37830		0.30	0.09	7.05	4.3	180	5.95	0.69	3.43	0.11	11.30	40.0	429	44.0	71.8	5.79
BB37831		0.28	0.11	7.90	4.2	210	7.46	1.50	2.77	0.15	19.80	35.4	364	54.5	66.0	5.63
BB37832		0.28	0.10	8.81	21.2	380	11.25	1.02	2.29	0.10	17.15	39.9	347	41.5	285	6.99
BB37833		0.24	0.11	8.00	14.4	350	6.40	0.60	2.66	0.10	13.50	42.0	395	35.0	252	6.86
BB37834		0.30	0.10	7.94	10.6	330	5.85	0.68	3.30	0.09	14.70	45.4	420	34.6	218	6.83
BB37835		0.30	0.08	8.25	2.2	340	3.19	0.46	3.24	0.08	17.50	47.8	358	28.6	206	7.23
BB37836		0.28	0.15	8.18	4.0	520	6.92	0.97	2.71	0.43	18.50	51.2	368	37.1	457	7.59
BB37837		0.24	0.11	7.29	0.7	550	3.70	0.48	3.60	0.13	27.1	40.8	488	53.7	144.5	6.57
BB37838		0.28	0.10	7.86	0.2	1000	0.47	0.43	1.37	0.20	3.09	19.7	192	25.7	433	9.06
BB37839		0.20	0.14	7.82	1.7	620	2.64	0.26	3.47	0.14	24.8	47.4	438	40.6	178.5	6.50
BB37840		0.38	0.10	7.89	1.3	240	1.73	0.27	4.13	0.14	11.80	47.6	413	21.6	252	6.80
BB37841		0.40	0.16	8.69	1.4	250	5.86	0.41	2.73	0.57	6.50	63.6	430	68.0	420	7.72
BB37842		0.24	0.08	8.13	0.8	360	1.02	0.11	4.06	0.07	15.75	54.0	606	9.37	178.0	6.51
BB37843		0.28	0.09	7.80	1.1	210	1.23	0.18	4.03	0.15	15.90	50.5	578	13.45	197.5	6.65
BB37844		0.30	0.04	7.22	0.2	80	0.38	0.06	4.94	0.07	2.75	54.4	567	2.95	198.5	6.78

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



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CERTIFICATE OF ANALYSIS

VA03032308

Sample Description	Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
BB09893		7.11	0.19	0.3	0.031	0.09	1.2	27.9	10.85	1330	0.42	0.26	0.7	649	50	1.5
BB09894		12.85	0.12	0.5	0.046	0.48	7.6	57.0	6.39	1200	0.89	0.95	3.4	186.0	320	5.3
BB09895		12.50	0.13	0.6	0.053	0.62	10.4	75.4	6.00	1085	0.81	0.97	3.8	173.5	230	13.8
BB27365		15.15	0.15	0.6	0.073	0.84	6.1	136.0	4.54	1760	0.77	1.13	2.7	223	220	24.0
BB27366		15.60	0.14	0.5	0.041	1.26	17.2	87.5	3.29	1275	0.87	1.23	3.8	144.5	690	13.1
BB27367		13.40	0.17	0.4	0.054	0.40	5.7	98.8	5.11	1620	0.58	1.36	1.6	234	210	7.7
BB27368		11.55	0.12	0.3	0.055	0.33	3.5	98.0	8.17	1580	0.48	0.77	1.4	289	290	3.6
BB27369		11.95	0.09	0.3	0.048	0.31	4.4	92.6	7.52	1445	0.43	1.00	1.7	252	200	3.6
BB33972		12.70	0.10	0.6	0.054	0.50	7.2	84.3	7.06	1160	0.87	0.81	2.9	212	240	4.5
BB33973		12.40	0.06	0.7	0.054	0.62	11.6	83.2	5.96	1215	0.83	1.06	4.0	204	280	6.6
BB33974		14.40	0.21	0.3	0.106	0.26	1.4	55.8	7.21	1495	1.88	0.22	0.9	219	150	1.7
BB37501		13.20	0.11	0.4	0.052	0.48	1.8	113.5	5.48	1325	0.32	0.74	0.8	251	160	5.1
BB37656		13.00	0.07	0.9	0.047	0.93	18.9	51.6	4.24	909	0.76	1.31	5.8	119.0	380	9.9
BB37657		10.20	0.08	0.4	0.045	0.35	6.2	67.4	8.77	1455	0.68	0.64	3.4	448	130	4.1
BB37658		12.60	0.07	0.7	0.050	0.62	10.5	72.0	6.12	1270	0.63	1.03	3.8	205	310	6.6
BB37659		14.30	0.11	0.6	0.067	0.64	9.4	115.0	4.66	2190	0.62	1.32	3.1	162.5	340	7.5
BB37660		13.25	0.11	0.7	0.047	0.49	9.6	87.0	5.60	1200	0.68	0.87	3.9	195.0	870	7.4
BB37661		15.25	0.13	0.5	0.043	1.14	17.2	51.9	3.70	908	1.08	1.61	4.5	121.0	610	14.3
BB37663		13.05	0.11	0.4	0.044	0.38	2.5	134.0	8.17	1380	0.50	0.80	1.4	394	150	5.2
BB37664		14.65	0.11	0.7	0.051	0.63	10.3	116.5	4.07	1510	0.58	1.05	3.3	154.0	790	13.3
BB37665		14.40	0.13	0.4	0.052	0.79	15.6	79.4	2.53	1040	0.88	0.94	4.2	96.8	730	9.2
BB37666		16.70	0.12	1.1	0.043	1.03	11.1	72.8	3.67	1080	1.08	1.65	3.0	162.0	490	8.6
BB37667		14.80	0.13	1.1	0.045	0.65	8.4	81.4	4.34	1005	0.87	1.13	3.0	188.5	490	6.9
BB37668		14.05	0.12	0.9	0.054	0.77	14.6	61.6	5.15	1100	0.88	1.30	5.7	182.0	390	10.0
BB37669		17.00	0.15	1.4	0.046	1.04	18.9	78.8	4.61	1055	0.95	1.33	7.3	167.0	700	14.3
BB37670		12.25	0.13	1.0	0.047	0.35	4.9	90.5	6.16	1280	0.45	1.05	2.0	248	180	4.4
BB37671		11.90	0.10	0.5	0.046	0.32	3.2	92.9	7.90	1425	0.49	0.88	1.5	353	140	4.8
BB37672		13.80	0.14	0.5	0.044	0.27	2.0	101.5	8.99	1415	0.34	0.79	1.1	363	90	4.5
BB37673		13.35	0.12	0.5	0.043	0.28	2.4	98.1	8.53	1265	0.62	0.85	1.2	318	110	4.2
BB37674		13.15	0.13	0.4	0.045	0.30	2.2	90.0	8.65	1250	0.46	0.75	1.2	305	110	4.0
BB37675		13.10	0.13	0.5	0.042	0.27	1.9	45.4	7.59	1285	0.40	0.73	1.0	293	280	1.8
BB37676		15.55	0.15	1.2	0.045	0.83	11.6	127.0	6.26	1195	0.69	1.13	4.8	265	210	9.6
BB37677		18.95	0.13	1.3	0.033	1.10	6.7	313	5.83	1030	0.48	0.97	4.3	241	210	16.0
BB37678		11.10	0.13	1.6	0.024	1.19	10.6	87.3	8.92	589	0.60	0.89	5.3	552	600	16.3
BB37679		8.14	0.12	0.6	0.022	0.63	6.0	20.0	11.00	730	0.33	0.44	3.7	545	120	7.8
BB37685		14.30	0.12	0.4	0.050	0.40	1.6	79.6	6.84	1370	0.25	0.89	0.9	248	100	3.4
BB37686		15.85	0.16	0.5	0.051	0.66	2.6	131.0	5.71	1445	0.32	0.85	1.3	215	130	3.4
BB37687		14.80	0.14	0.5	0.056	0.42	1.6	112.0	6.45	1345	0.29	0.78	0.9	243	160	7.6
BB37688		15.35	0.17	0.7	0.049	0.46	4.2	66.3	7.77	1420	0.36	0.89	1.6	286	190	3.7
BB37689		12.35	0.13	0.3	0.042	0.21	0.9	53.6	8.46	1220	0.21	0.85	0.6	302	100	1.3

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



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CERTIFICATE OF ANALYSIS

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Sample Description	Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
BB37690		14.65	0.15	0.4	0.054	0.37	2.1	109.5	7.16	1570	0.42	0.83	1.1	309	120	5.5
BB37691		14.35	0.15	0.4	0.050	0.32	1.7	101.0	8.56	1375	0.96	0.73	0.9	320	140	3.9
BB37692		13.80	0.16	0.4	0.045	0.27	1.2	108.0	9.36	1365	0.43	0.64	0.7	376	120	3.8
BB37693		15.20	0.17	0.4	0.041	0.33	1.7	95.3	10.40	1190	0.57	0.67	0.7	411	130	3.4
BB37694		13.35	0.13	0.4	0.052	0.33	1.8	68.5	7.75	1250	0.34	0.84	0.9	294	130	3.8
BB37695		15.85	0.14	0.7	0.061	0.54	4.0	149.5	4.90	1420	0.47	0.96	1.7	173.0	190	3.9
BB37696		16.00	0.15	0.5	0.051	0.59	2.4	144.0	5.82	1525	0.34	0.94	1.1	191.5	170	3.2
BB37751		13.35	0.13	0.4	0.052	0.33	1.9	50.7	7.79	1310	0.20	1.07	0.8	258	110	2.3
BB37752		13.30	0.14	0.2	0.043	0.22	0.6	34.7	9.38	1335	0.13	1.17	0.4	315	80	1.4
BB37753		15.10	0.15	0.3	0.050	0.30	0.8	58.0	7.19	1395	0.15	0.99	0.5	279	120	1.4
BB37754		14.80	0.13	0.6	0.044	0.44	6.5	49.9	5.39	968	0.75	1.25	3.0	123.0	240	5.9
BB37755		15.05	0.16	0.9	0.054	0.59	9.0	91.6	6.54	1305	1.01	0.95	4.3	230	370	7.4
BB37756		12.00	0.13	0.8	0.045	0.54	8.6	65.6	5.66	957	0.55	1.08	3.6	165.0	280	5.7
BB37757		18.15	0.17	0.5	0.055	0.58	2.4	129.5	4.72	2300	0.38	0.80	3.1	284	160	5.4
BB37758		15.10	0.19	1.1	0.054	0.67	13.0	110.5	4.13	2160	1.00	1.05	4.5	192.5	430	6.7
BB37759		14.85	0.16	1.0	0.049	0.55	10.8	119.5	5.77	1505	0.68	1.09	4.4	215	410	6.3
BB37760		14.60	0.16	0.6	0.043	0.29	4.7	127.5	7.74	1175	0.56	0.94	2.1	265	190	4.4
BB37761		14.05	0.14	1.2	0.045	0.98	15.6	27.6	2.91	609	0.83	1.56	5.5	79.5	410	9.3
BB37762		14.60	0.15	1.2	0.043	0.87	14.8	50.0	4.19	795	0.70	1.35	5.8	111.0	340	8.6
BB37763		15.10	0.14	0.8	0.047	0.54	7.8	54.7	4.58	883	0.61	1.26	3.9	95.2	440	6.4
BB37764		14.45	0.17	0.6	0.052	0.35	5.9	115.0	8.02	1120	1.39	0.89	2.6	281	250	4.5
BB37765		15.35	0.16	1.5	0.052	0.72	10.4	70.2	5.55	1105	1.07	1.31	4.2	183.0	300	6.5
BB37766		15.50	0.16	1.0	0.040	0.58	3.8	103.0	6.22	1260	0.53	1.02	2.0	259	260	4.7
BB37767		13.65	0.17	0.5	0.048	0.29	1.7	118.0	9.44	1475	0.64	0.69	1.0	368	140	3.5
BB37768		13.80	0.17	0.5	0.048	0.39	2.7	88.4	8.98	1155	1.41	0.85	1.6	306	220	4.2
BB37769		14.55	0.17	0.6	0.053	0.44	2.8	81.2	9.59	1315	0.82	1.00	1.5	306	190	3.6
BB37770		12.95	0.18	0.3	0.040	0.41	1.3	86.2	10.35	1100	1.53	0.68	0.8	410	200	3.1
BB37771		14.20	0.16	0.8	0.064	0.51	6.0	39.8	6.54	1155	0.98	1.13	2.4	203	340	4.6
BB37772		14.10	0.17	0.7	0.053	0.47	3.4	59.8	8.21	1335	1.34	1.13	1.7	262	280	3.9
BB37773		13.35	0.16	0.6	0.048	0.76	4.6	54.2	6.17	1365	0.43	1.19	1.9	206	240	4.1
BB37774		14.35	0.15	0.5	0.053	0.66	2.0	69.3	5.94	1280	0.30	1.06	1.1	186.0	210	4.0
BB37775		13.70	0.16	0.9	0.047	0.33	2.3	46.6	8.76	1310	0.33	0.99	1.3	290	160	2.4
BB37776		13.00	0.16	0.4	0.037	0.27	1.7	36.8	9.15	1310	0.18	0.87	1.1	329	140	1.7
BB37777		13.95	0.16	0.7	0.045	0.47	5.2	36.7	8.02	1190	0.40	1.27	2.5	254	290	3.2
BB37778		13.95	0.16	0.9	0.042	0.56	5.3	44.2	7.54	1215	0.63	1.27	2.6	235	390	4.2
BB37779		14.10	0.16	1.2	0.045	0.75	8.3	39.9	6.58	1130	0.72	1.58	3.8	200	380	5.0
BB37780		13.50	0.16	0.8	0.054	0.57	6.3	46.7	6.99	1145	0.67	1.29	2.9	213	340	4.4
BB37781		14.30	0.18	1.1	0.084	0.55	3.7	50.0	7.68	1235	1.64	1.35	2.0	195.0	270	4.0
BB37782		14.85	0.18	0.7	0.063	0.52	5.9	48.7	6.76	1090	1.08	1.21	2.9	202	430	4.9
BB37783		13.60	0.16	0.6	0.066	0.49	6.0	41.2	6.19	1085	0.78	1.00	2.8	196.5	470	4.7

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



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1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

α #: 4 - B

Pages : 5 (A - D)

Date : 8-Sep-2003

Account: FFP

Project : Straw

CERTIFICATE OF ANALYSIS

VA03032308

Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
Sample Description															
BB37784	13.55	0.18	0.3	0.052	0.31	1.5	78.6	10.10	1200	0.50	0.67	1.0	391	190	3.1
BB37785	13.55	0.26	0.4	0.033	0.68	0.7	92.3	9.84	894	1.82	0.61	0.5	342	240	4.6
BB37786	11.90	0.21	0.2	0.053	0.35	0.9	69.9	10.35	1165	2.18	0.55	0.9	287	120	2.0
BB37787	12.60	0.19	0.2	0.050	0.20	1.4	85.6	11.05	1190	0.79	0.55	0.8	368	160	2.2
BB37788	14.75	0.17	0.7	0.057	0.54	4.7	108.0	7.41	1640	0.73	0.81	3.3	257	300	7.4
BB37789	13.10	0.14	1.1	0.050	0.63	9.1	44.4	5.78	892	1.16	1.09	4.2	152.5	550	7.0
BB37790	13.35	0.14	0.6	0.050	0.49	5.6	43.5	5.97	965	0.61	1.14	3.6	148.0	340	7.4
BB37791	12.10	0.16	0.3	0.041	0.14	2.5	132.0	11.40	1210	0.24	0.57	1.3	418	60	4.0
BB37792	14.35	0.18	0.8	0.064	0.55	8.8	67.3	6.65	1055	0.97	0.98	4.1	210	240	6.8
BB37793	12.95	0.16	0.4	0.053	0.38	3.5	70.0	7.64	1185	0.80	0.80	2.1	225	290	4.4
BB37794	13.60	0.17	1.1	0.047	1.06	19.2	46.1	3.81	731	1.00	1.41	6.9	123.5	380	9.3
BB37795	11.70	0.14	0.9	0.044	0.73	12.1	34.6	3.95	743	0.64	1.21	5.5	107.0	220	7.8
BB37796	12.35	0.14	1.3	0.049	0.91	15.6	32.1	4.14	729	0.77	1.51	7.4	115.5	340	9.7
BB37797	12.95	0.15	0.7	0.054	0.55	8.9	30.1	5.02	936	0.87	1.40	4.1	117.0	700	5.5
BB37798	13.15	0.15	1.3	0.055	0.69	11.0	30.1	5.07	1005	0.80	1.85	5.1	111.5	400	6.1
BB37799	12.80	0.15	0.8	0.057	0.58	7.7	30.0	5.77	969	0.69	1.54	3.8	147.5	350	7.4
BB37800	15.00	0.16	0.9	0.054	0.57	10.2	30.3	4.45	809	0.71	1.13	4.5	92.4	390	8.8
BB37801	13.50	0.17	1.3	0.052	0.87	16.1	38.1	4.28	835	0.78	1.37	7.4	121.0	390	8.7
BB37802	11.25	0.16	0.3	0.039	0.50	2.3	52.1	6.99	1520	0.57	0.64	1.8	228	310	4.0
BB37803	13.75	0.14	1.3	0.047	0.63	7.6	58.6	6.31	935	0.85	1.09	3.5	184.0	430	5.6
BB37804	13.15	0.14	0.8	0.049	0.55	8.8	45.6	5.80	946	0.71	1.08	4.5	148.5	410	7.7
BB37805	12.50	0.13	0.7	0.042	0.37	3.9	63.7	7.94	918	0.73	0.75	2.3	246	510	5.0
BB37806	12.25	0.14	0.3	0.039	0.23	0.8	42.4	9.01	1275	0.16	0.84	0.6	348	100	1.6
BB37807	11.60	0.14	0.3	0.046	0.20	1.0	23.3	8.95	1325	0.11	0.89	0.7	281	100	1.2
BB37808	11.30	0.14	0.3	0.039	0.21	1.2	31.6	9.55	1255	0.18	0.80	0.8	324	90	5.7
BB37809	12.80	0.17	0.4	0.049	0.25	1.5	52.4	9.78	1375	0.33	0.80	1.0	348	210	1.7
BB37810	13.00	0.16	0.7	0.048	0.38	3.5	35.9	7.77	1185	0.30	1.08	1.6	287	230	2.9
BB37811	12.25	0.14	0.4	0.038	0.33	2.3	31.8	7.34	1050	0.24	1.10	1.5	267	280	98.2
BB37812	11.15	0.14	0.4	0.040	0.34	3.2	42.0	7.70	1015	0.18	1.08	1.7	275	200	1.8
BB37813	11.10	0.14	0.3	0.033	0.26	1.7	43.8	9.53	1040	0.31	0.75	1.0	436	110	1.4
BB37814	13.75	0.16	0.9	0.044	0.62	7.5	95.7	5.96	976	0.61	1.07	3.7	239	410	3.6
BB37815	13.00	0.16	0.5	0.041	0.39	2.3	118.5	8.50	1500	0.31	0.79	1.6	354	190	4.9
BB37816	13.90	0.16	0.4	0.039	0.37	1.6	101.5	7.89	1165	0.34	0.77	1.3	356	140	2.5
BB37817	13.05	0.16	0.4	0.035	0.56	3.1	265	9.70	1300	0.44	0.60	2.1	416	90	3.3
BB37818	12.80	0.14	0.4	0.036	0.28	1.4	88.1	8.27	1155	0.20	0.83	1.4	315	90	1.6
BB37819	11.95	0.15	0.3	0.033	0.28	1.1	230	10.70	1050	0.19	0.42	1.3	483	90	1.3
BB37820	13.40	0.15	0.7	0.037	0.52	4.0	364	6.34	854	0.36	0.74	2.7	272	550	4.9
BB37821	16.10	0.14	0.4	0.034	0.94	1.2	460	7.16	1150	0.61	0.46	8.3	328	120	4.7
BB37822	12.05	0.16	0.4	0.034	0.28	1.6	354	9.33	1400	0.36	0.34	1.2	412	110	2.0
BB37823	14.65	0.17	0.7	0.046	0.58	3.9	680	5.90	1640	0.66	0.49	3.0	378	180	4.1

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



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Page # : 5 - B

Pages : 5 (A - D)

Date : 8-Sep-2003

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Project : Straw

CERTIFICATE OF ANALYSIS VA03032308

Sample Description	Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
BB37824		16.30	0.15	0.3	0.034	0.81	0.7	184.0	3.91	1260	0.15	0.59	6.9	305	150	3.6
BB37825		12.90	0.17	0.4	0.037	0.33	2.3	150.0	8.67	1360	0.29	0.61	2.4	440	140	3.0
BB37826		16.20	0.16	1.4	0.037	0.62	7.9	64.5	8.25	872	0.68	0.92	3.3	412	290	4.6
BB37827		11.25	0.14	0.2	0.032	0.07	0.9	235	11.75	991	0.21	0.42	0.8	405	90	1.0
BB37828		13.70	0.16	0.5	0.034	0.74	1.4	313	8.99	1205	0.45	0.54	3.5	425	130	5.3
BB37829		23.9	0.14	2.2	0.032	1.85	13.1	600	4.47	883	0.44	0.63	7.1	212	290	31.7
BB37830		15.55	0.15	0.9	0.036	0.81	5.6	279	5.70	1055	0.46	0.88	4.1	238	300	12.7
BB37831		19.80	0.16	1.8	0.041	1.09	9.9	430	4.78	1125	0.55	0.86	4.9	206	410	21.3
BB37832		21.4	0.17	1.6	0.062	1.33	8.4	700	3.83	1145	1.30	0.79	6.6	173.0	350	13.6
BB37833		17.85	0.16	1.2	0.053	1.05	7.3	500	4.93	1145	0.98	0.81	5.3	203	230	9.5
BB37834		17.80	0.16	1.2	0.051	1.06	7.7	384	5.64	1195	0.96	0.94	5.2	217	230	10.2
BB37835		17.95	0.17	1.2	0.051	0.95	8.9	169.0	6.34	1220	1.01	1.03	5.5	220	230	9.8
BB37836		19.80	0.20	1.1	0.065	0.82	9.6	276	6.19	1530	3.09	0.92	5.2	208	280	13.2
BB37837		15.70	0.18	1.3	0.054	0.88	14.6	174.0	6.36	1115	0.86	1.06	6.2	267	340	11.4
BB37838		16.75	0.19	0.2	0.100	0.52	1.4	255	7.75	1935	4.24	1.41	0.8	54.1	160	5.1
BB37839		14.65	0.16	1.0	0.044	0.83	13.2	112.0	5.66	1205	0.88	1.09	4.0	228	520	11.2
BB37840		14.35	0.14	0.9	0.043	0.60	6.0	65.0	6.25	1205	0.78	1.20	3.0	215	300	6.1
BB37841		15.45	0.16	0.5	0.052	0.56	3.1	136.5	4.77	1795	0.92	0.82	1.8	210	230	4.7
BB37842		15.20	0.14	1.1	0.046	0.66	8.5	36.8	7.22	1235	0.54	1.11	3.7	271	400	5.4
BB37843		14.10	0.13	0.6	0.044	0.45	6.9	61.0	7.61	1220	0.54	0.99	2.7	263	500	7.2
BB37844		11.30	0.13	0.2	0.042	0.20	1.3	23.5	8.30	1265	0.19	0.87	0.8	298	110	1.9

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



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Date : 8-Sep-2003

Account: FFP

Project : Straw

CERTIFICATE OF ANALYSIS

VA03032308

Method Analyte Units LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.01	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
Sample Description															
BB09893	4.8	<0.002	0.01	0.06	<1	1.5	12.3	0.06	0.07	0.5	0.09	0.04	0.2	154	0.2
BB09894	28.4	<0.002	0.02	0.19	1	3.1	64.5	0.18	0.08	2.8	0.24	0.23	0.7	226	0.8
BB09895	35.0	<0.002	0.02	0.62	1	2.7	77.4	0.20	0.08	3.0	0.23	0.28	0.9	216	1.0
BB27365	71.5	<0.002	0.02	0.40	1	6.8	101.5	0.22	0.06	2.5	0.21	0.61	1.4	264	1.2
BB27366	66.7	<0.002	0.05	0.24	1	5.0	259	0.07	0.06	5.3	0.21	0.43	1.3	196	1.6
BB27367	25.2	<0.002	0.02	0.20	2	1.9	69.1	0.10	0.25	1.6	0.19	0.29	0.5	272	1.1
BB27368	23.9	<0.002	0.08	0.12	2	2.6	33.0	0.08	0.21	1.1	0.15	0.20	0.5	245	0.3
BB27369	20.8	<0.002	0.01	0.14	1	2.1	46.4	0.09	0.09	1.6	0.18	0.16	0.6	245	0.4
BB33972	28.2	<0.002	0.03	0.31	3	1.6	69.5	0.17	0.18	2.3	0.21	0.25	0.7	227	0.5
BB33973	35.1	<0.002	0.02	0.30	1	1.7	83.2	0.17	0.14	3.5	0.22	0.27	0.9	203	0.6
BB33974	35.9	0.002	0.08	0.08	6	2.3	15.8	0.07	0.49	0.6	0.15	0.32	0.2	261	1.2
BB37501	33.3	<0.002	0.02	0.17	1	0.5	66.2	0.06	0.14	0.6	0.18	0.18	0.2	267	0.7
BB37656	40.7	<0.002	0.02	0.41	1	2.5	127.5	0.15	0.07	5.7	0.27	0.30	1.2	182	0.8
BB37657	20.0	<0.002	0.01	0.16	1	7.2	43.7	0.31	0.07	2.0	0.14	0.16	0.6	172	0.3
BB37658	28.6	<0.002	0.02	0.27	1	1.9	99.5	0.14	0.09	3.6	0.21	0.19	0.9	204	0.8
BB37659	38.9	<0.002	0.03	0.42	1	3.1	78.5	0.20	0.08	3.2	0.22	0.31	1.0	247	1.2
BB37660	25.9	<0.002	0.08	0.42	1	2.0	72.5	0.23	0.12	3.1	0.20	0.18	0.9	215	0.9
BB37661	41.3	<0.002	0.03	0.40	2	1.8	253	0.08	0.08	5.5	0.25	0.26	1.8	161	1.0
BB37663	26.4	<0.002	0.01	0.15	2	4.7	50.1	0.14	0.17	0.9	0.16	0.23	0.3	232	0.8
BB37664	49.2	<0.002	0.07	0.31	1	5.4	77.7	0.16	0.08	3.7	0.22	0.40	3.0	215	2.5
BB37665	50.2	<0.002	0.06	0.39	2	4.7	113.5	0.05	0.09	5.2	0.23	0.39	1.9	185	3.4
BB37666	32.3	0.002	0.03	0.28	2	1.8	333	0.08	0.08	3.4	0.22	0.22	1.2	162	1.2
BB37667	25.6	0.002	0.04	0.25	2	1.8	187.0	0.18	0.09	2.8	0.18	0.18	0.9	196	11.1
BB37668	36.9	<0.002	0.02	0.30	2	2.2	95.2	0.20	0.12	5.2	0.27	0.27	1.2	220	2.9
BB37669	59.7	<0.002	0.03	0.27	1	3.9	148.0	0.33	0.12	7.0	0.27	0.42	2.2	202	1.5
BB37670	19.8	<0.002	0.01	0.19	1	3.2	77.1	0.16	0.11	1.5	0.18	0.16	0.4	228	0.6
BB37671	19.5	<0.002	0.01	0.14	1	3.7	52.7	0.12	0.16	1.1	0.16	0.17	0.4	236	3.4
BB37672	14.8	<0.002	0.01	0.16	<1	1.2	42.8	0.07	0.09	1.0	0.13	0.10	0.3	233	0.6
BB37673	12.0	<0.002	0.01	0.16	1	1.7	53.8	0.09	0.13	1.0	0.14	0.09	0.4	232	1.5
BB37674	13.3	<0.002	0.01	0.14	1	1.2	36.8	0.09	0.12	0.7	0.14	0.10	0.4	238	0.6
BB37675	9.6	<0.002	0.02	0.17	<1	0.6	38.7	0.07	<0.05	0.7	0.13	0.07	0.3	222	0.4
BB37676	35.8	<0.002	0.02	0.12	1	3.6	84.6	0.23	<0.05	3.8	0.18	0.36	1.1	216	1.1
BB37677	137.0	<0.002	0.01	1.69	<1	7.1	62.6	0.64	<0.05	5.2	0.13	0.80	14.4	185	0.6
BB37678	50.2	<0.002	0.03	0.27	<1	1.1	161.0	0.23	<0.05	4.3	0.22	0.42	1.1	147	0.5
BB37679	21.1	<0.002	<0.01	0.05	<1	1.1	61.1	0.16	<0.05	2.9	0.13	0.17	0.6	120	0.4
BB37685	22.5	<0.002	0.01	0.17	1	0.9	45.1	0.06	0.08	0.6	0.15	0.14	0.2	269	0.6
BB37686	39.8	<0.002	0.04	0.39	2	2.0	63.1	0.11	0.12	0.9	0.16	0.24	0.3	285	0.8
BB37687	21.7	<0.002	0.02	0.18	1	0.5	59.9	0.06	0.08	0.4	0.15	0.14	0.2	265	7.0
BB37688	17.9	<0.002	0.01	0.12	1	0.5	75.1	0.08	0.07	1.2	0.14	0.11	0.5	232	2.7
BB37689	7.2	<0.002	0.01	0.11	<1	0.9	29.2	<0.05	0.07	0.3	0.13	0.04	0.1	239	6.6

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



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Sample Description	Method Analyte Units LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Tl % 0.01	ME-MS61 Ti ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
BB37690		27.3	<0.002	0.01	0.21	1	1.2	50.5	0.08	0.09	0.6	0.15	0.19	0.3	245	0.8
BB37691		17.8	<0.002	0.02	0.16	2	1.7	42.0	0.07	0.18	0.5	0.14	0.12	0.3	248	1.9
BB37692		14.1	<0.002	0.02	0.14	1	1.2	36.5	0.06	0.15	0.3	0.13	0.10	0.4	233	0.5
BB37693		12.6	<0.002	0.02	0.10	2	0.6	38.7	0.05	0.21	0.5	0.15	0.10	0.3	243	0.3
BB37694		15.2	<0.002	0.01	0.12	1	1.1	43.9	0.07	0.11	0.5	0.14	0.10	0.3	244	0.4
BB37695		28.2	<0.002	0.01	0.28	2	1.1	81.8	0.11	0.14	1.3	0.19	0.20	0.5	291	2.1
BB37696		31.9	<0.002	0.04	0.38	1	1.3	71.2	0.10	0.14	0.7	0.16	0.19	0.3	275	1.3
BB37751		11.6	<0.002	0.01	0.11	<1	0.5	51.3	0.05	0.09	0.6	0.15	0.07	0.2	243	0.5
BB37752		6.0	<0.002	0.01	0.08	1	0.3	36.3	<0.05	0.06	<0.2	0.14	0.03	0.1	250	0.6
BB37753		12.9	<0.002	0.02	0.17	<1	0.4	40.0	<0.05	0.07	<0.2	0.16	0.18	0.1	272	0.9
BB37754		20.3	<0.002	0.02	0.17	1	3.3	67.5	0.06	0.07	2.2	0.19	0.13	0.5	223	0.4
BB37755		28.0	<0.002	0.03	0.37	2	1.2	72.3	0.14	0.33	2.8	0.21	0.21	0.8	209	0.6
BB37756		22.0	<0.002	0.02	0.25	1	1.7	75.6	0.10	0.08	2.9	0.18	0.18	0.8	191	0.5
BB37757		79.3	<0.002	0.01	0.20	1	12.0	32.7	0.23	0.09	0.8	0.13	0.49	0.7	258	1.5
BB37758		35.7	<0.002	0.06	0.59	2	2.6	93.4	0.14	0.16	4.2	0.20	0.30	1.1	204	0.9
BB37759		26.0	<0.002	0.03	0.44	1	2.2	81.9	0.20	0.07	3.4	0.19	0.23	1.1	207	0.9
BB37760		13.8	<0.002	0.02	0.24	1	1.9	43.2	0.13	0.09	1.4	0.13	0.13	0.6	225	0.5
BB37761		33.4	<0.002	0.02	0.46	1	1.3	169.0	<0.05	<0.05	5.2	0.24	0.23	1.4	154	0.7
BB37762		33.4	<0.002	0.02	0.42	1	2.9	134.5	0.09	<0.05	5.4	0.24	0.24	1.4	177	0.9
BB37763		24.6	<0.002	0.04	0.24	1	2.1	86.0	0.07	0.05	2.6	0.23	0.17	0.8	211	0.6
BB37764		14.2	<0.002	0.04	0.25	1	1.5	49.2	0.12	0.11	1.9	0.16	0.15	0.6	223	1.3
BB37765		24.4	<0.002	0.02	0.28	2	2.3	158.5	0.18	0.09	3.6	0.22	0.20	1.1	200	0.8
BB37766		33.5	<0.002	0.01	0.29	1	1.6	146.0	0.15	0.10	4.8	0.21	0.23	0.7	247	0.8
BB37767		17.8	<0.002	0.01	0.23	2	0.9	53.9	0.07	0.15	0.7	0.14	0.12	0.3	246	0.6
BB37768		16.0	<0.002	0.02	0.20	3	1.5	61.7	0.10	0.21	1.1	0.16	0.12	0.5	237	0.5
BB37769		18.2	<0.002	0.01	0.17	3	1.0	73.5	0.10	0.20	1.0	0.16	0.14	0.4	261	0.5
BB37770		14.4	0.004	0.05	0.09	6	0.7	32.8	0.05	0.35	0.4	0.16	0.12	0.3	247	0.2
BB37771		16.0	<0.002	0.02	0.17	2	1.3	108.5	0.14	0.17	3.0	0.18	0.10	0.7	246	3.1
BB37772		13.8	0.003	0.03	0.14	2	0.8	99.4	0.10	0.20	1.4	0.17	0.09	0.6	245	0.9
BB37773		48.6	<0.002	0.02	0.19	1	0.8	77.2	0.09	0.14	2.1	0.17	0.24	0.5	240	1.0
BB37774		47.6	<0.002	0.02	0.10	1	0.4	69.0	0.07	0.09	0.7	0.15	0.24	0.3	256	0.5
BB37775		8.6	<0.002	0.01	0.13	1	0.7	85.4	0.07	0.12	0.8	0.15	0.05	0.3	223	0.3
BB37776		6.2	<0.002	<0.01	0.10	<1	0.3	39.9	0.06	0.06	0.6	0.14	0.03	0.2	224	0.3
BB37777		13.7	<0.002	0.02	0.19	1	0.5	95.3	0.12	0.10	2.1	0.18	0.09	0.6	225	0.4
BB37778		14.7	<0.002	0.02	0.21	2	2.6	137.0	0.14	0.17	2.1	0.19	0.10	0.7	218	0.6
BB37779		19.8	<0.002	0.02	0.30	2	0.8	167.5	0.22	0.20	3.3	0.20	0.13	1.0	206	0.7
BB37780		16.6	<0.002	0.03	0.20	2	1.1	96.2	0.15	0.19	2.2	0.19	0.10	0.7	231	0.6
BB37781		15.8	<0.002	0.03	0.14	2	1.6	105.0	0.12	0.24	1.3	0.18	0.09	0.5	248	0.5
BB37782		17.1	<0.002	0.03	0.23	2	1.7	88.3	0.15	0.24	2.4	0.21	0.14	0.7	240	0.9
BB37783		17.7	<0.002	0.05	0.25	1	1.4	91.3	0.10	0.13	2.4	0.18	0.12	0.7	227	1.0

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



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Pages : 5 (A - D)
Date : 8-Sep-2003
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Project : Straw

CERTIFICATE OF ANALYSIS VA03032308

Method Analyte Units LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.01	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
Sample Description															
BB37784	10.1	<0.002	0.08	0.10	5	1.2	30.7	0.06	0.33	0.6	0.15	0.11	0.3	241	0.3
BB37785	27.2	0.002	0.24	0.08	19	0.8	13.6	<0.05	0.66	0.2	0.20	0.18	0.2	276	0.1
BB37786	14.4	0.002	0.07	0.08	11	1.9	14.9	0.09	0.47	0.3	0.13	0.11	0.3	253	0.2
BB37787	8.4	<0.002	0.01	0.08	4	0.7	14.6	0.05	0.34	0.5	0.13	0.06	0.3	254	0.2
BB37788	28.7	<0.002	0.03	0.31	2	6.7	70.9	0.51	0.23	1.9	0.17	0.19	0.8	252	1.3
BB37789	21.3	<0.002	0.04	0.34	1	1.0	123.0	0.23	0.14	3.5	0.20	0.15	0.9	200	0.5
BB37790	21.5	<0.002	0.03	0.22	1	0.9	59.0	0.17	0.09	2.2	0.18	0.14	0.6	224	0.6
BB37791	5.6	<0.002	<0.01	0.09	1	0.3	17.6	0.08	0.11	0.8	0.13	0.04	0.3	232	0.2
BB37792	22.3	<0.002	0.01	0.25	2	1.4	81.4	0.22	0.23	3.8	0.22	0.17	0.9	259	0.4
BB37793	20.0	<0.002	0.03	0.16	1	13.2	44.9	0.08	0.21	1.2	0.17	0.15	0.4	243	0.4
BB37794	40.1	<0.002	0.01	0.50	2	3.4	161.0	0.09	0.06	7.0	0.28	0.29	1.6	162	1.4
BB37795	26.8	<0.002	0.01	0.38	1	8.2	115.0	0.16	0.06	4.3	0.22	0.19	1.0	170	3.0
BB37796	31.6	<0.002	0.01	0.45	1	1.2	142.0	0.25	<0.05	6.1	0.25	0.24	1.5	173	0.7
BB37797	20.4	<0.002	0.05	0.31	3	1.2	89.4	0.08	0.13	3.1	0.19	0.15	1.0	201	0.8
BB37798	24.2	<0.002	0.02	3.91	2	1.5	108.0	0.15	0.10	4.0	0.24	0.16	1.0	219	0.7
BB37799	19.4	<0.002	0.02	0.26	1	1.1	90.5	0.11	0.07	2.8	0.21	0.12	0.8	223	0.7
BB37800	20.9	<0.002	0.03	0.24	1	1.0	81.3	0.11	0.06	3.7	0.23	0.14	0.9	219	0.6
BB37801	33.3	<0.002	0.02	0.47	1	3.1	139.0	0.20	0.07	5.9	0.26	0.23	1.4	191	0.9
BB37802	41.2	<0.002	0.03	0.12	2	84.1	66.9	0.09	0.12	0.8	0.12	0.36	0.3	224	1.0
BB37803	17.3	<0.002	0.04	0.30	1	0.9	134.5	0.11	0.14	2.8	0.19	0.14	0.9	206	0.5
BB37804	18.0	<0.002	0.03	0.29	1	1.1	80.3	0.22	0.14	3.2	0.20	0.16	0.9	230	0.5
BB37805	10.2	<0.002	0.04	0.24	1	0.6	69.7	0.09	0.18	1.7	0.14	0.09	0.6	193	1.8
BB37806	5.5	<0.002	0.01	0.09	<1	0.3	34.8	<0.05	0.07	0.2	0.13	0.04	0.2	235	0.5
BB37807	3.3	<0.002	0.01	0.09	1	0.2	30.4	<0.05	0.09	0.2	0.14	0.02	0.2	232	0.2
BB37808	4.8	<0.002	0.01	0.10	<1	0.8	37.6	0.06	0.05	0.3	0.12	0.03	0.2	212	0.5
BB37809	7.3	<0.002	0.02	0.11	<1	0.6	33.0	0.06	0.06	0.5	0.13	0.05	0.3	234	0.3
BB37810	8.3	<0.002	0.02	0.15	<1	0.6	95.0	0.07	0.08	0.9	0.17	0.05	0.4	223	0.4
BB37811	8.4	<0.002	0.06	0.57	1	0.7	69.4	0.07	0.05	0.7	0.17	0.05	0.3	223	0.4
BB37812	9.3	<0.002	0.02	0.21	<1	0.8	41.4	0.09	<0.05	1.0	0.15	0.07	0.4	212	0.3
BB37813	9.2	<0.002	0.01	0.14	<1	0.8	33.1	0.06	<0.05	0.5	0.12	0.09	0.2	205	5.3
BB37814	23.4	<0.002	0.04	0.35	1	1.0	66.5	0.19	<0.05	2.4	0.18	0.18	0.7	212	1.5
BB37815	12.6	<0.002	0.01	0.17	<1	2.1	39.9	0.15	<0.05	0.7	0.14	0.11	0.4	246	3.5
BB37816	23.0	<0.002	0.01	0.21	<1	2.0	43.1	0.09	<0.05	0.5	0.15	0.19	0.4	242	0.9
BB37817	50.4	<0.002	0.01	0.46	<1	17.0	44.0	0.13	<0.05	1.1	0.12	0.49	0.5	223	18.3
BB37818	13.2	<0.002	<0.01	0.14	1	2.0	35.1	0.11	<0.05	0.5	0.12	0.09	0.3	227	4.5
BB37819	26.1	<0.002	0.01	2.34	<1	4.2	23.1	0.12	<0.05	0.3	0.10	0.37	0.2	210	0.4
BB37820	43.2	<0.002	0.04	5.68	1	3.7	69.6	0.19	<0.05	1.8	0.14	0.35	1.1	197	1.2
BB37821	141.5	<0.002	0.02	5.41	<1	14.7	32.6	2.55	<0.05	0.8	0.10	0.99	1.6	205	0.6
BB37822	30.4	<0.002	0.02	1.05	<1	0.8	32.1	0.08	<0.05	0.5	0.10	0.25	0.5	219	0.4
BB37823	67.9	<0.002	0.01	12.95	1	4.5	48.2	0.22	<0.05	1.4	0.15	0.49	1.6	249	0.6

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



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CERTIFICATE OF ANALYSIS

VA03032308

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Rb ppm 0.1	Re ppm 0.002	S % 0.01	Sb ppm 0.05	Se ppm 1	Sn ppm 0.2	Sr ppm 0.2	Ta ppm 0.05	Te ppm 0.05	Th ppm 0.2	Ti % 0.01	Tl ppm 0.02	U ppm 0.1	V ppm 1	W ppm 0.1
BB37824		158.0	<0.002	<0.01	0.77	<1	14.2	32.7	1.35	<0.05	0.3	0.11	1.04	0.6	260	0.7
BB37825		33.8	<0.002	0.01	3.52	<1	4.6	34.2	0.22	<0.05	0.7	0.12	0.28	0.5	226	0.6
BB37826		19.9	<0.002	0.02	0.33	<1	1.1	122.0	0.19	<0.05	2.4	0.15	0.17	1.0	191	0.6
BB37827		4.7	<0.002	0.01	0.08	<1	1.5	9.6	0.05	<0.05	0.3	0.11	0.07	0.2	201	0.2
BB37828		117.5	<0.002	0.01	1.00	1	8.6	35.8	0.39	<0.05	0.6	0.11	0.80	1.4	207	0.3
BB37829		204	<0.002	0.02	2.24	1	8.1	71.1	0.69	<0.05	9.0	0.12	1.23	5.2	152	1.0
BB37830		100.0	<0.002	0.02	3.24	1	6.1	67.8	0.42	<0.05	3.3	0.13	0.81	2.0	195	0.6
BB37831		134.0	<0.002	0.03	3.03	<1	5.4	81.8	0.50	<0.05	6.3	0.14	0.92	9.5	189	0.8
BB37832		151.0	<0.002	0.03	5.45	1	9.9	125.5	0.71	0.07	4.9	0.18	1.01	4.5	230	45.9
BB37833		96.3	<0.002	0.03	3.23	1	5.2	115.0	0.38	0.07	3.4	0.18	0.74	2.4	225	3.2
BB37834		92.2	<0.002	0.04	2.39	1	4.9	104.5	0.31	0.06	3.5	0.17	0.66	3.1	225	1.3
BB37835		57.7	<0.002	0.02	0.18	1	4.0	102.0	0.25	0.07	4.1	0.18	0.44	1.8	226	1.1
BB37836		66.7	<0.002	0.05	0.33	3	6.9	109.5	0.33	0.15	3.9	0.16	0.56	2.3	232	3.6
BB37837		48.7	<0.002	0.03	0.10	1	4.0	101.5	0.23	<0.05	5.4	0.17	0.43	2.2	203	1.1
BB37838		46.9	<0.002	0.03	0.09	2	1.3	67.1	<0.05	0.22	0.4	0.16	0.63	0.8	331	0.2
BB37839		31.3	<0.002	0.05	0.16	1	3.6	110.5	0.17	0.06	3.6	0.19	0.34	1.3	221	1.1
BB37840		24.0	<0.002	0.02	0.18	1	1.9	104.0	0.17	0.10	1.9	0.18	0.21	1.5	237	0.7
BB37841		54.2	<0.002	0.02	0.32	1	5.2	77.0	0.16	0.07	0.9	0.17	0.51	1.2	291	2.9
BB37842		20.2	<0.002	0.02	0.14	<1	0.9	102.0	0.18	0.05	2.6	0.18	0.14	0.7	221	0.6
BB37843		17.6	<0.002	0.03	0.12	<1	1.3	62.0	0.12	0.05	2.1	0.17	0.14	0.6	233	1.5
BB37844		4.4	<0.002	0.01	0.06	<1	0.6	32.1	<0.05	0.06	0.3	0.12	0.04	0.2	231	0.5

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



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CERTIFICATE OF ANALYSIS

VA03032308

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
BB09893		3.4	74	7.2
BB09894		8.2	95	13.5
BB09895		8.1	131	18.2
BB27365		10.7	110	13.9
BB27366		12.0	85	16.0
BB27367		9.2	116	11.2
BB27368		5.6	180	6.7
BB27369		7.1	130	8.6
BB33972		6.9	142	16.7
BB33973		7.8	180	20.5
BB33974		4.8	308	7.5
BB37501		7.1	89	8.9
BB37656		9.7	114	25.7
BB37657		6.0	180	9.4
BB37658		8.4	115	20.6
BB37659		13.0	338	16.5
BB37660		8.2	116	20.4
BB37661		9.6	90	20.0
BB37663		7.2	108	10.5
BB37664		9.5	253	18.0
BB37665		10.7	146	9.9
BB37666		7.6	158	38.4
BB37667		7.0	148	37.0
BB37668		10.5	108	24.4
BB37669		9.9	95	40.2
BB37670		7.9	142	27.7
BB37671		6.7	116	14.8
BB37672		6.7	124	8.3
BB37673		6.7	102	9.9
BB37674		6.8	262	6.9
BB37675		7.1	74	8.4
BB37676		11.4	57	22.2
BB37677		7.2	60	23.1
BB37678		6.7	55	34.3
BB37679		5.3	39	12.9
BB37685		7.7	115	7.4
BB37686		8.5	101	8.1
BB37687		7.1	92	7.8
BB37688		9.8	99	13.0
BB37689		6.5	60	3.5

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



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CERTIFICATE OF ANALYSIS VA03032308

Sample Description	Method Analyte Units LOR	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
BB37690		8.1	103	7.4
BB37691		7.2	105	7.6
BB37692		6.5	92	6.5
BB37693		6.9	92	7.8
BB37694		6.9	146	7.8
BB37695		11.4	132	12.6
BB37696		8.5	99	8.7
BB37751		6.7	122	6.7
BB37752		6.6	81	3.1
BB37753		7.3	79	3.8
BB37754		8.6	84	11.6
BB37755		6.4	196	16.6
BB37756		7.1	93	13.6
BB37757		10.6	187	7.1
BB37758		12.6	245	20.5
BB37759		10.4	159	20.0
BB37760		7.5	108	11.4
BB37761		10.0	89	24.8
BB37762		9.9	92	22.9
BB37763		9.2	93	16.8
BB37764		6.0	182	11.2
BB37765		8.3	183	30.6
BB37766		8.6	90	19.9
BB37767		6.5	133	10.9
BB37768		7.0	94	12.4
BB37769		8.9	91	11.3
BB37770		6.2	92	6.0
BB37771		9.3	159	17.1
BB37772		7.3	142	16.8
BB37773		9.3	86	12.5
BB37774		8.1	94	9.3
BB37775		7.8	110	19.4
BB37776		6.2	98	6.9
BB37777		7.5	98	16.2
BB37778		6.7	146	25.8
BB37779		8.0	101	30.0
BB37780		9.5	101	20.0
BB37781		7.5	189	25.8
BB37782		8.1	146	16.7
BB37783		7.9	172	12.6

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



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Page #: 4 - D
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CERTIFICATE OF ANALYSIS VA03032308

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61
		Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
BB37784		6.5	112	6.2
BB37785		5.1	80	8.3
BB37786		6.2	69	3.0
BB37787		6.3	78	4.6
BB37788		11.6	103	15.6
BB37789		9.5	92	25.6
BB37790		8.0	97	13.9
BB37791		5.2	85	4.7
BB37792		10.5	105	16.7
BB37793		7.4	113	8.5
BB37794		11.2	87	26.8
BB37795		9.4	71	20.5
BB37796		10.7	84	28.8
BB37797		8.1	86	14.8
BB37798		9.5	87	27.7
BB37799		9.2	112	19.0
BB37800		9.7	68	21.9
BB37801		11.4	86	28.1
BB37802		9.2	107	5.4
BB37803		7.3	103	28.0
BB37804		8.8	82	15.6
BB37805		5.3	95	15.3
BB37806		6.6	78	5.0
BB37807		6.3	85	3.7
BB37808		5.6	72	5.7
BB37809		6.6	79	5.8
BB37810		7.0	69	12.9
BB37811		5.7	61	6.1
BB37812		6.4	53	6.9
BB37813		6.0	42	5.2
BB37814		12.2	45	14.8
BB37815		10.2	53	8.4
BB37816		7.7	49	5.6
BB37817		6.8	69	6.6
BB37818		6.6	44	5.4
BB37819		5.1	53	4.2
BB37820		7.3	57	12.4
BB37821		6.8	63	5.3
BB37822		6.4	58	5.5
BB37823		10.0	67	12.4

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



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Total # of pages : 5 (A - D)

Date : 8-Sep-2003

Account: FFP

Project : Straw

CERTIFICATE OF ANALYSIS

VA03032308

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61
		Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
BB37824		7.1	51	4.0
BB37825		7.4	55	6.7
BB37826		7.9	57	29.5
BB37827		4.0	57	3.3
BB37828		6.5	68	6.5
BB37829		9.7	58	39.3
BB37830		8.7	53	16.2
BB37831		10.4	57	36.9
BB37832		11.7	70	28.8
BB37833		10.6	63	22.6
BB37834		10.2	59	21.5
BB37835		10.1	61	21.0
BB37836		11.2	172	18.7
BB37837		14.5	73	23.4
BB37838		3.9	199	3.2
BB37839		12.2	73	27.5
BB37840		8.6	85	26.2
BB37841		10.2	229	12.1
BB37842		7.6	69	33.1
BB37843		6.6	108	14.6
BB37844		5.4	78	4.0

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



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Page # : 1
: 10-Aug-2003
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CERTIFICATE VA03028589

Project : Straw

P.O. No:

This report is for 16 SOIL samples submitted to our lab in North Vancouver, BC, Canada on 31-Jul-2003.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHER

ROB CARNE
BILL WENGZYNOWSKI

DOUG EATON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	47 element four acid ICP-MS

To: FFP
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VANCOUVER BC V6B 1L8

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

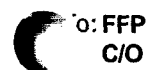
Signature:



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Page #: 2 - A
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Date : 10-Aug-2003
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CERTIFICATE OF ANALYSIS VA03028589

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
BB09900		0.28	0.16	7.41	1.8	360	0.73	0.11	3.71	0.14	28.0	31.8	161	2.41	87.8	5.16
BB09901		0.30	0.13	6.90	1.4	300	0.50	0.09	3.89	0.15	21.1	31.1	286	2.00	42.9	5.38
BB09902		0.26	0.16	5.80	1.7	380	0.57	0.12	3.13	0.20	27.8	28.7	252	3.40	45.2	4.56
BB09903		0.40	0.14	6.82	2.2	460	0.78	0.15	3.39	0.12	29.4	33.3	338	4.00	106.5	5.28
BB09904		0.26	0.14	6.96	1.6	480	0.66	0.17	2.95	0.18	26.0	33.9	350	7.20	116.0	5.30
BB09905		0.30	0.04	6.67	3.1	500	0.71	0.11	2.87	0.14	30.6	27.5	309	3.62	133.0	4.53
BB09906		0.22	0.08	6.66	4.5	460	0.94	0.20	2.05	0.23	36.0	43.3	371	3.87	155.0	6.33
BB09907		0.24	0.12	6.68	4.4	470	0.59	0.20	2.89	0.19	27.7	48.6	490	4.05	418	6.76
BB33935		0.30	0.05	8.01	2.5	390	0.62	0.07	3.97	0.14	25.0	27.3	218	1.76	92.2	5.03
BB33936		0.26	0.07	7.15	2.8	360	0.70	0.12	3.50	0.11	29.2	26.1	166	1.88	112.0	4.80
BB33937		0.28	0.09	6.57	2.5	390	0.68	0.09	3.45	0.20	26.3	30.1	264	2.50	84.4	4.96
BB33938		0.34	0.03	6.50	2.9	380	0.70	0.10	3.82	0.13	24.3	34.8	349	3.27	100.5	5.13
BB33939		0.32	0.04	7.01	2.1	360	0.77	0.14	4.14	0.14	20.7	34.7	304	5.68	66.1	5.69
BB33940		0.30	0.04	5.86	2.8	370	0.75	0.14	3.48	0.27	28.0	31.6	273	2.89	47.9	4.99
BB33941		0.30	0.02	7.00	2.9	450	0.78	0.14	3.46	0.12	32.9	32.4	282	4.93	60.5	5.22
BB33942		0.28	0.04	7.11	2.4	390	0.65	0.09	3.23	0.15	22.5	39.0	355	8.59	182.5	5.82

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

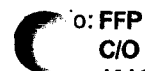


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CERTIFICATE OF ANALYSIS VA03028589

Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
Sample Description															
BB09900	13.55	0.22	1.4	0.047	0.69	14.6	16.4	4.26	1045	0.64	1.46	5.2	89.9	600	6.5
BB09901	11.00	0.17	0.7	0.038	0.53	10.8	12.6	5.37	1095	0.50	1.40	4.2	159.0	830	5.0
BB09902	11.95	0.20	0.1	0.038	0.68	14.0	12.4	4.09	884	0.86	1.12	5.6	133.5	1280	6.0
BB09903	12.65	0.22	1.0	0.057	0.76	15.1	18.4	5.11	998	0.69	1.38	6.4	182.0	740	7.3
BB09904	13.25	0.17	1.1	0.047	0.84	13.4	21.8	5.03	1085	0.68	1.36	5.4	183.5	950	6.8
BB09905	11.75	0.14	1.8	0.036	0.93	16.0	21.1	4.46	789	0.60	1.45	5.8	159.5	450	6.4
BB09906	14.50	0.20	1.3	0.052	0.80	18.4	23.7	4.76	1080	0.90	0.96	8.3	176.0	630	8.1
BB09907	11.90	0.11	1.5	0.052	0.69	14.8	19.0	6.36	1255	0.76	1.10	4.8	260	300	6.7
BB33935	11.15	0.10	1.2	0.035	0.75	13.6	13.8	4.67	967	0.47	1.54	4.9	118.5	470	4.6
BB33936	13.15	0.12	1.8	0.042	0.72	15.2	13.8	3.78	1045	0.66	1.42	5.5	87.6	790	7.0
BB33937	11.15	0.10	0.9	0.039	0.68	14.2	13.8	4.96	977	0.57	1.32	4.4	161.0	830	6.1
BB33938	12.35	0.12	1.1	0.044	0.67	13.0	19.5	5.41	1005	0.51	1.20	5.0	184.5	530	5.4
BB33939	12.40	0.09	1.0	0.039	0.68	11.4	18.6	5.35	1245	0.54	1.38	5.0	169.5	730	5.0
BB33940	11.95	0.11	1.4	0.043	0.69	14.2	17.8	4.85	965	0.51	1.37	5.6	166.5	530	6.9
BB33941	13.20	0.12	2.0	0.042	0.87	16.7	21.9	5.08	1030	0.56	1.60	6.5	179.0	570	7.4
BB33942	11.55	0.09	1.2	0.040	0.69	11.9	21.6	5.63	1130	0.44	1.22	4.2	208	440	5.0

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



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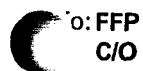
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Date : 10-Aug-2003

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CERTIFICATE OF ANALYSIS

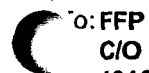
VA03028589

Sample Description	Method Analyte Units LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.01	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
BB09900		28.1	<0.002	0.04	0.26	1	1.0	141.5	0.12	<0.05	4.8	0.28	0.18	1.3	211	1.0
BB09901		22.3	0.002	0.04	0.16	<1	0.7	80.8	0.09	<0.05	3.5	0.26	0.12	0.9	212	0.4
BB09902		35.8	0.002	0.05	0.33	1	1.0	87.8	<0.05	<0.05	5.0	0.23	0.21	1.2	180	0.5
BB09903		32.5	0.002	0.03	0.31	1	1.1	117.5	0.11	<0.05	5.5	0.27	0.25	1.5	204	0.7
BB09904		33.0	0.002	0.06	0.35	<1	1.0	128.0	0.15	<0.05	4.8	0.26	0.23	1.2	200	0.7
BB09905		28.3	<0.002	0.03	0.34	<1	0.8	177.5	0.38	0.14	5.3	0.24	0.18	1.2	161	2.8
BB09906		39.2	<0.002	0.03	0.40	<1	1.3	92.1	0.43	0.18	6.8	0.28	0.24	1.4	188	1.3
BB09907		23.9	<0.002	0.02	0.38	2	0.6	98.2	0.30	0.16	4.4	0.25	0.18	1.0	226	0.9
BB33935		23.7	<0.002	0.02	0.32	1	0.6	107.5	0.27	<0.05	4.3	0.27	0.14	0.9	200	0.5
BB33936		25.0	<0.002	0.05	0.35	1	0.7	138.0	0.35	<0.05	5.7	0.27	0.16	1.5	186	0.8
BB33937		23.8	<0.002	0.04	0.26	1	0.6	110.0	0.12	<0.05	3.8	0.24	0.17	1.1	169	0.6
BB33938		26.9	<0.002	0.02	0.31	1	0.8	102.5	0.25	<0.05	4.5	0.22	0.14	1.2	175	0.8
BB33939		27.1	<0.002	0.03	0.30	1	0.9	91.5	0.17	<0.05	3.8	0.24	0.14	1.0	223	0.7
BB33940		28.1	<0.002	0.02	0.32	1	0.9	106.5	0.23	<0.05	5.8	0.24	0.16	1.3	188	1.1
BB33941		31.7	0.002	0.02	0.38	1	1.0	138.5	0.35	<0.05	6.5	0.28	0.20	1.5	197	0.8
BB33942		23.6	<0.002	0.02	0.24	1	0.5	95.8	0.21	<0.05	3.3	0.24	0.15	0.8	213	0.5

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



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CERTIFICATE OF ANALYSIS VA03028589

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61
	Analyte	Y	Zn	Zr
	Units LOR	ppm 0.1	ppm 2	ppm 0.5
BB09900		11.6	90	34.8
BB09901		8.5	79	18.4
BB09902		8.7	74	4.7
BB09903		9.7	84	27.6
BB09904		9.0	95	31.1
BB09905		7.8	70	52.1
BB09906		8.5	86	33.8
BB09907		8.2	97	22.2
BB33935		8.7	70	24.7
BB33936		10.9	78	31.0
BB33937		8.6	79	12.3
BB33938		10.4	76	21.1
BB33939		8.2	86	19.8
BB33940		9.1	68	23.1
BB33941		9.9	73	29.9
BB33942		8.3	79	19.6

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



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: 10-Aug-2003
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CERTIFICATE VA03028587

Project : Lion

P.O. No:

This report is for 2 SOIL samples submitted to our lab in North Vancouver, BC, Canada on 31-Jul-2003.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHER

ROB CARNE
BILL WENGZYNOWSKI

DOUG EATON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	47 element four acid ICP-MS

To: FFP
C/O ARCHER CATHRO & ASSOCIATES (1981) LIMITED
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Signature:



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CERTIFICATE OF ANALYSIS VA03028587

Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
Analyte	Recvd Wt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	
Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	
LOR	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	
BB09881	0.22	0.67	7.66	10.8	990	1.73	0.23	1.87	0.30	55.8	19.4	98	3.57	30.3	3.96	
BB09882	0.22	0.20	7.50	4.7	780	1.56	0.20	2.90	0.55	63.2	17.2	38	2.47	54.0	4.22	

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



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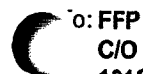
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VANCOUVER BC V6B 1L8

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Date: 10-Aug-2003

Account: FFP

Project: Lion

CERTIFICATE OF ANALYSIS

VA03028587

Sample Description	Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
BB09881		19.10	0.28	1.2	0.050	1.75	29.7	23.3	1.66	653	0.89	1.40	10.2	77.2	650	17.9
BB09882		16.15	0.30	0.7	0.051	1.78	47.1	16.6	1.54	895	1.57	1.33	8.9	24.1	1020	20.9

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



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Project : Lion

CERTIFICATE OF ANALYSIS

VA03028587

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61
	Analyte	Y	Zn	Zr
	Units	ppm	ppm	ppm
	LOR	0.1	2	0.5
BB09881		15.1	102	32.6
BB09882		22.2	110	15.2

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



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Page #: 1

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CERTIFICATE VA03027934

Project : Lion/Straw

P.O. No:

This report is for 15 SOIL samples submitted to our lab in North Vancouver, BC, Canada on 28-Jul-2003.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHER

ROB CARNE
BILL WENGZYNOWSKI

DOUG EATON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Cu-AA46	Ore grade Cu - aqua regia/AA	AAS
Cu-AA62	Ore grade Cu - four acid / AAS	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
ME-MS61	47 element four acid ICP-MS	

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

Signature:



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CERTIFICATE OF ANALYSIS

VA03027934

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
BB09770		0.30	<0.2	2.03	7	<10	150	0.5	<2	0.93	<0.5	20	76	38	3.56	<10
BB09785		0.20	0.3	1.17	18	<10	160	<0.5	<2	>15	1.6	8	52	25	1.76	<10
BB09788		0.26	1.2	3.20	33	<10	160	1.3	<2	0.27	1.3	124	154	>10000	6.38	<10
BB09793		0.22	<0.2	2.45	10	<10	110	0.7	<2	1.14	0.9	25	68	94	4.02	<10
BB09816		0.34	<0.2	2.66	15	<10	100	0.5	<2	1.36	0.5	30	85	89	4.53	<10
BB09821		0.36	<0.2	1.62	6	<10	140	<0.5	<2	0.69	<0.5	13	50	29	2.47	<10
BB09877		0.22	<0.2	2.06	7	<10	60	1.0	<2	0.30	<0.5	29	385	89	3.15	<10
BB27257		0.20	<0.2	2.37	3	<10	270	0.6	<2	1.06	<0.5	21	49	37	4.60	<10
BB27258		0.16	<0.2	3.16	3	10	190	0.7	<2	1.74	<0.5	20	86	76	3.73	<10
BB27264		0.32	<0.2	2.43	9	<10	100	0.5	<2	1.27	<0.5	26	76	54	4.16	<10
BB27274		0.18	0.2	2.49	22	10	110	0.5	<2	1.17	<0.5	17	67	81	3.17	<10
BB27275		0.42	<0.2	2.94	34	<10	160	0.6	<2	1.42	<0.5	32	69	92	4.83	<10
BB27356		0.16	0.5	3.00	45	<10	390	1.1	<2	0.85	1.6	27	151	88	5.39	10
BB27363		0.22	<0.2	1.70	11	<10	90	0.6	<2	0.38	0.6	25	182	54	3.97	<10
BB33970		0.14	<0.2	1.38	<2	<10	340	1.5	<2	0.68	<0.5	9	57	34	2.10	<10

Comments: Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in MS61 method.



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CERTIFICATE OF ANALYSIS VA03027934

Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01
BB09770		1	0.09	20	1.47	650	2	0.02	53	790	20	0.05	<2	7	38	0.12
BB09785		<1	0.12	20	1.02	212	2	0.02	36	460	21	0.22	2	3	142	0.03
BB09788		1	0.08	180	1.14	578	5	0.01	94	530	11	1.04	<2	13	17	0.03
BB09793		<1	0.10	20	1.72	673	3	0.04	47	900	21	0.04	<2	9	45	0.13
BB09816		1	0.07	10	1.92	1020	2	0.03	42	750	42	0.05	<2	12	41	0.16
BB09821		<1	0.12	20	0.94	430	1	0.02	34	570	11	0.03	<2	4	33	0.05
BB09877		<1	0.04	<10	2.58	410	2	0.02	274	210	11	0.02	4	12	11	0.02
BB27257		<1	0.05	20	1.76	979	2	0.01	22	830	12	0.02	<2	10	24	0.09
BB27258		<1	0.05	20	1.74	799	2	0.03	32	900	10	0.07	<2	10	58	0.14
BB27264		<1	0.07	20	1.76	738	2	0.03	36	760	29	0.05	<2	10	44	0.16
BB27274		<1	0.07	20	1.09	525	2	0.03	21	890	22	0.12	<2	8	37	0.09
BB27275		<1	0.09	10	1.98	1225	2	0.03	36	700	25	0.07	<2	13	47	0.15
BB27356		<1	0.33	40	2.14	996	1	0.03	104	1160	62	0.08	<2	10	44	0.15
BB27363		<1	0.04	30	1.50	586	5	0.02	152	550	13	0.04	<2	5	25	0.02
BB33970		<1	0.18	30	0.72	268	2	0.02	63	800	14	0.09	<2	5	35	0.05

Comments: Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in MS61 method.



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Project : Lion/Straw

CERTIFICATE OF ANALYSIS

VA03027934

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-MS61	Cu-AA46	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Ti	U	V	W	Zn	Ag	Cu	Al	As	Ba	Be	Bi	Ca	Cd	Co
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	ppm 0.01	% 0.01	% 0.01	ppm 0.2	ppm 10	ppm 0.05	ppm 0.01	% 0.01	ppm 0.02	ppm 0.01
BB09770		<10	<10	81	<10	95	0.18		8.75	9.0	900	1.30	0.19	3.39	0.51	55.8
BB09785		<10	<10	41	<10	114	0.60		3.92	25.0	1010	0.43	0.05	21.1	2.05	25.1
BB09788		<10	<10	57	10	906	0.67	2.36	7.85	21.4	840	1.32	0.35	1.42	1.58	82.5
BB09793		<10	<10	105	10	134	0.30		8.39	9.0	1040	0.97	0.24	2.82	0.97	53.5
BB09816		<10	<10	120	10	114	0.22		9.40	13.4	620	0.65	0.31	3.58	0.49	37.7
BB09821		<10	<10	43	<10	72	0.09		7.85	5.0	840	1.04	0.17	2.71	0.21	62.7
BB09877		<10	<10	73	<10	37	0.04		7.05	6.0	210	1.47	0.15	3.67	0.11	9.12
BB27257		<10	<10	103	<10	77	0.11		8.09	4.4	620	0.85	0.24	2.60	0.19	36.9
BB27258		<10	<10	115	<10	101	0.34		7.90	4.6	570	0.68	0.16	3.70	0.39	40.4
BB27264		<10	<10	111	<10	100	0.27		9.36	11.0	700	1.06	0.23	3.79	0.63	50.7
BB27274		<10	<10	101	<10	103	0.35		7.12	22.1	550	0.88	0.37	2.64	0.44	33.4
BB27275		<10	<10	125	10	128	0.40		9.53	37.5	710	0.79	0.48	3.39	0.52	41.2
BB27356		<10	<10	108	<10	414	0.52		9.08	32.7	1760	1.76	0.52	2.02	1.58	89.1
BB27363		<10	<10	61	10	104	0.24		9.59	6.9	690	1.89	0.31	2.60	0.67	79.5
BB33970		<10	30	35	<10	106	0.21		5.48	3.8	1000	3.70	0.59	1.30	0.43	46.8

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in MS61 method.



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CERTIFICATE OF ANALYSIS VA03027934

Sample Description	Method Analyte Units LOR	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05
BB09770		24.7	152	4.53	37.3	4.94	16.90	0.16	2.2	0.049	1.62	28.7	20.9	2.42	1030	1.02
BB09785		8.7	68	2.78	25.1	1.94	7.43	0.09	0.1	0.018	0.96	17.4	10.9	1.48	275	1.44
BB09788		125.0	209	7.72	>10000	7.36	12.80	0.34	2.1	0.146	1.08	172.5	23.6	2.25	872	6.40
BB09793		25.6	98	4.83	236	5.21	16.40	0.14	1.5	0.053	1.50	27.7	19.1	2.47	976	1.98
BB09816		31.0	128	3.57	94.3	6.06	15.55	0.16	2.6	0.058	1.34	18.8	18.2	2.87	1380	0.95
BB09821		14.7	102	2.33	31.4	3.51	15.65	0.14	1.7	0.040	1.78	32.7	18.5	1.64	681	0.76
BB09877		58.1	758	14.70	96.5	6.74	11.20	0.15	0.9	0.023	0.41	4.4	79.3	8.50	1105	0.48
BB27257		23.6	89	2.97	33.8	5.90	15.25	0.13	2.6	0.077	0.95	17.0	13.8	2.57	1245	0.53
BB27258		22.6	124	4.63	77.2	4.94	14.95	0.16	0.8	0.052	0.95	25.6	24.8	2.60	1085	0.64
BB27264		29.1	112	3.32	65.7	5.80	17.00	0.16	2.4	0.064	1.50	26.6	20.1	2.69	1160	0.83
BB27274		21.5	75	3.96	84.8	4.39	14.05	0.14	0.3	0.045	1.20	21.6	20.1	1.88	909	1.02
BB27275		38.2	97	5.11	103.5	6.38	16.90	0.16	2.8	0.066	1.53	18.8	21.8	2.95	1620	1.21
BB27356		29.9	152	14.00	103.5	6.25	20.7	0.21	0.6	0.073	2.13	48.6	36.0	3.00	1230	2.43
BB27363		43.4	288	14.55	60.1	6.39	20.0	0.20	2.8	0.064	1.50	41.8	39.6	4.55	1060	4.42
BB33970		10.9	80	13.50	33.2	2.54	15.00	0.14	0.3	0.031	1.54	33.4	57.5	1.24	446	0.88

Comments: Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in MS61 method.



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CERTIFICATE OF ANALYSIS

VA03027934

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Se	Sn	Sr	Ta	Te	Th
		% 0.01	ppm 0.1	ppm 0.2	ppm 10	ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.2
BB09770		1.66	6.4	74.2	790	20.4	57.9	<0.002	0.05	0.42	<1	1.8	279	0.18	<0.05	9.8
BB09785		0.28	2.0	35.4	490	18.6	29.7	<0.002	0.27	5.22	<1	0.7	230	<0.05	<0.05	4.7
BB09788		0.70	6.3	129.0	550	18.4	48.6	0.004	1.08	7.98	9	1.4	101.0	0.38	0.77	9.4
BB09793		1.38	5.3	57.0	940	22.0	52.8	<0.002	0.04	14.20	5	1.6	220	0.13	0.51	9.2
BB09816		1.70	1.8	52.9	780	31.9	38.2	<0.002	0.06	8.51	2	1.1	249	<0.05	0.30	5.0
BB09821		1.59	7.3	44.7	630	17.5	73.8	0.003	0.04	6.56	5	1.5	245	0.13	0.76	12.5
BB09877		0.64	1.8	583	230	12.4	23.6	<0.002	0.02	5.41	2	2.3	67.1	0.18	0.63	1.7
BB27257		1.61	4.6	28.9	910	11.5	25.4	<0.002	0.03	0.43	<1	1.1	133.5	0.13	<0.05	4.2
BB27258		1.31	4.1	41.9	1050	12.0	30.9	<0.002	0.07	0.51	4	1.1	271	0.11	0.42	5.2
BB27264		1.75	5.9	50.3	820	34.3	48.8	<0.002	0.05	0.71	<1	1.4	295	0.26	<0.05	7.6
BB27274		1.32	3.7	29.8	1080	24.0	35.7	<0.002	0.14	1.10	1	0.9	230	<0.05	0.06	4.3
BB27275		1.46	3.5	47.2	770	26.1	46.5	<0.002	0.08	1.54	2	1.2	250	0.08	0.30	5.4
BB27356		0.99	10.6	125.0	1170	69.2	79.1	<0.002	0.09	1.01	2	3.2	180.5	0.26	0.27	15.4
BB27363		0.84	7.9	280	630	17.8	77.1	<0.002	0.04	0.05	2	2.3	160.5	0.32	0.10	12.6
BB33970		0.87	6.2	80.3	800	20.8	105.0	0.002	0.10	0.20	2	3.9	131.0	<0.05	<0.05	11.9

Comments: Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in MS61 method.



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CERTIFICATE OF ANALYSIS

VA03027934

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Cu-AA62
		Ti	Ti	U	V	W	Y	Zn	Zr	Cu
		% 0.01	ppm 0.02	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	% 0.01
BB09770		0.49	0.33	2.5	172	0.6	18.6	118	35.2	
BB09785		0.13	0.38	3.5	75	0.3	10.4	128	5.9	
BB09788		0.30	0.41	9.6	134	1.7	73.4	976	30.8	2.24
BB09793		0.56	0.43	2.6	202	0.9	19.3	170	28.1	
BB09816		0.55	0.25	1.3	218	0.2	17.2	145	38.5	
BB09821		0.35	0.43	4.2	104	0.9	17.1	92	22.4	
BB09877		0.14	0.16	0.6	210	0.6	6.3	74	12.4	
BB27257		0.50	0.12	1.2	180	0.7	19.7	94	48.4	
BB27258		0.44	0.22	2.8	192	0.7	26.6	127	15.3	
BB27264		0.57	0.28	1.9	215	0.7	18.9	132	36.7	
BB27274		0.39	0.22	2.3	167	0.7	21.1	136	4.9	
BB27275		0.55	0.31	1.5	221	0.6	18.7	170	45.8	
BB27356		0.61	0.72	3.8	201	1.3	26.3	473	13.1	
BB27363		0.35	0.51	2.4	213	1.5	17.4	142	51.7	
BB33970		0.24	0.60	32.5	78	1.1	18.0	110	5.3	

Comments: Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in MS61 method.



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Page # : 1
Date : 6-Aug-2003
Account: FFP

CERTIFICATE VA03027933

Project : Straw

P.O. No:

This report is for 64 SOIL samples submitted to our lab in North Vancouver, BC, Canada on 28-Jul-2003.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHER

ROB CARNE
BILL WENGZYNOWSKI

DOUG EATON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	47 element four acid ICP-MS

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

Signature:



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Page #: 2 - A
Pages : 3 (A - D)

Date : 6-Aug-2003

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Project : Straw

CERTIFICATE OF ANALYSIS VA03027933

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
BB09774		0.16	0.25	5.35	16.4	630	6.75	1.78	1.80	0.40	23.0	81.4	247	35.4	59.7	9.15
BB09775		0.24	0.06	7.47	4.0	1220	3.26	0.38	1.69	0.19	67.8	18.4	116	5.83	32.2	3.58
BB09783		0.36	0.43	9.38	9.3	1590	1.88	0.38	2.34	1.68	72.1	37.7	119	7.95	128.5	6.87
BB09784		0.32	0.30	8.00	3.8	1150	1.86	0.58	1.04	0.19	39.4	13.5	124	9.45	36.9	4.98
BB09786		0.22	0.12	8.61	3.4	1140	2.08	0.30	2.20	0.31	74.9	18.0	78	14.35	29.1	4.35
BB09787		0.24	0.06	8.09	2.1	1280	2.42	0.52	0.56	0.70	53.2	12.8	80	8.60	38.6	4.99
BB09789		0.30	0.15	9.13	1.4	1190	1.78	0.51	2.03	0.46	25.9	31.9	229	13.30	102.0	6.98
BB09790		0.28	0.08	6.87	2.8	420	2.35	0.34	3.30	0.24	24.9	44.3	443	10.60	191.0	6.83
BB09791		0.38	0.10	8.47	4.7	470	2.87	1.17	2.64	0.32	15.75	52.4	194	25.0	344	6.35
BB09792		0.32	0.06	7.43	2.6	210	3.47	0.53	4.00	0.15	17.60	48.7	431	23.3	110.5	6.09
BB09814		0.30	0.83	8.53	25.1	1920	1.56	0.21	1.42	1.03	62.2	32.2	180	2.99	86.6	5.31
BB09815		0.22	0.10	7.52	9.2	900	1.64	0.43	0.92	0.21	60.5	12.5	98	6.87	28.2	4.31
BB09817		0.28	0.22	7.45	8.9	1060	1.66	0.26	1.96	0.41	65.2	19.6	106	9.48	34.6	3.89
BB09818		0.36	0.17	8.29	2.3	2320	2.56	0.19	1.78	0.44	51.5	17.2	144	11.80	42.2	5.44
BB09819		0.36	0.88	9.61	15.6	1830	3.00	0.18	0.89	0.90	78.8	24.0	104	15.10	51.7	6.60
BB09820		0.32	0.08	9.11	15.6	930	2.98	0.38	1.28	0.12	167.5	14.2	51	7.39	29.1	4.82
BB09830		0.38	0.02	8.29	2.7	220	2.19	0.21	3.63	0.14	11.85	49.2	490	29.9	44.7	5.88
BB09831		0.50	0.02	7.04	1.9	100	1.24	0.18	3.27	0.08	6.91	81.5	860	8.41	54.9	6.62
BB09832		0.44	<0.02	5.61	1.4	120	0.48	0.12	3.83	0.08	10.40	60.3	717	3.45	23.0	6.07
BB09833		0.30	0.08	7.82	2.3	810	1.24	0.15	1.90	0.07	33.5	10.7	58	2.96	19.8	2.16
BB09834		0.34	0.04	5.79	5.4	460	1.25	0.30	1.54	0.27	29.3	53.3	811	16.60	25.7	7.17
BB09835		0.44	<0.02	5.78	3.0	330	2.56	0.11	4.59	0.09	29.0	49.8	491	4.58	11.0	4.94
BB09836		0.40	<0.02	6.00	4.4	390	0.69	0.13	3.04	0.13	29.3	61.9	695	8.85	18.4	4.75
BB09837		0.36	<0.02	6.12	1.9	110	0.57	0.21	4.02	0.07	9.66	71.5	801	5.44	34.6	6.51
BB09838		0.38	<0.02	6.83	1.5	120	0.46	0.09	4.59	0.08	9.12	55.8	616	14.65	77.0	6.05
BB09839		0.48	<0.02	9.21	0.3	70	1.42	0.10	1.72	0.04	2.53	110.5	914	12.50	28.3	9.38
BB09840		0.32	0.05	7.10	5.3	260	0.58	0.08	3.32	0.10	9.57	56.6	683	3.69	66.4	5.88
BB09841		0.44	0.03	7.48	3.5	230	2.45	0.17	3.34	0.10	11.20	54.0	594	16.55	120.5	6.98
BB09850		0.24	0.10	7.35	2.3	380	1.26	0.25	3.27	0.26	19.70	23.8	201	8.73	109.5	4.87
BB09851		0.40	0.06	7.57	3.9	520	1.69	0.27	2.71	0.31	27.2	35.0	229	13.20	188.5	5.60
BB09852		0.22	0.03	7.94	2.6	350	1.07	0.52	3.15	0.23	17.90	36.7	383	16.05	157.0	7.02
BB09853		0.26	0.02	7.64	1.1	310	1.10	0.27	4.62	0.23	14.25	32.9	266	14.00	41.5	6.02
BB09854		0.28	0.04	7.26	5.4	600	1.75	0.23	2.86	0.21	37.8	24.6	204	18.20	326	5.21
BB09855		0.26	0.05	7.57	2.7	360	1.74	0.23	3.53	0.25	24.1	36.1	308	21.1	172.5	6.17
BB09856		0.30	0.06	7.22	2.8	330	1.84	0.27	3.67	0.27	24.1	42.2	406	17.90	197.5	6.18
BB09857		0.36	0.11	7.14	0.5	160	0.86	0.42	3.71	0.21	2.73	61.1	667	12.95	575	9.44
BB09858		0.46	0.14	9.30	7.3	430	9.24	1.36	1.12	0.25	9.05	50.2	233	92.6	228	7.72
BB09859		0.24	0.05	6.90	5.6	500	1.58	0.30	2.58	0.18	36.9	35.6	294	14.35	136.5	5.59
BB09860		0.32	0.06	6.99	4.9	340	2.32	0.40	3.32	0.28	26.9	43.5	392	11.60	255	6.06
BB09861		0.28	0.05	7.43	2.1	230	6.57	0.41	4.01	0.34	10.70	55.7	600	15.35	354	7.28

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



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Page #: 3 - A

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CERTIFICATE OF ANALYSIS

VA03027933

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
BB09870		0.28	0.05	6.44	1.2	130	1.80	0.09	2.85	0.07	3.06	107.0	1065	12.60	102.0	7.36
BB09871		0.22	<0.02	10.25	2.0	60	1.94	0.15	0.77	0.07	3.48	127.0	695	7.01	11.4	9.77
BB09872		0.18	0.02	8.36	3.0	500	1.30	0.17	2.85	0.08	27.6	39.2	297	6.91	23.8	4.78
BB09873		0.22	0.03	6.98	3.4	440	1.03	0.14	2.88	0.17	25.1	27.5	235	9.28	20.1	4.59
BB09874		0.22	0.04	9.41	6.9	390	1.02	0.11	1.10	0.10	15.80	93.1	355	5.16	26.4	7.67
BB09875		0.20	0.05	9.85	2.4	370	1.78	0.10	2.58	0.13	6.80	50.9	375	38.0	126.0	7.40
BB09876		0.24	0.02	5.93	7.6	170	1.42	0.13	3.04	0.14	8.05	69.3	834	8.55	60.0	6.57
BB27360		0.24	0.05	9.85	2.6	1740	2.01	0.23	1.32	0.15	53.3	28.0	256	6.08	112.5	5.61
BB27361		0.30	<0.02	6.89	4.2	450	0.84	0.14	3.13	0.17	32.7	29.7	306	4.96	78.9	4.82
BB27362		0.28	0.03	7.01	3.0	450	0.96	0.18	3.29	0.21	33.1	28.8	250	4.70	59.7	5.06
BB33943		0.34	0.10	6.15	4.7	300	2.82	0.55	3.36	0.40	15.45	33.5	361	9.13	111.0	6.06
BB33944		0.24	<0.02	6.97	4.7	480	1.88	0.33	2.72	0.33	23.4	44.4	257	13.55	339	5.86
BB33945		0.34	0.02	8.63	1.0	100	2.95	0.34	2.33	0.18	1.64	71.2	839	7.02	198.5	11.45
BB33946		0.26	0.03	7.32	4.6	530	2.05	0.31	2.78	0.24	32.5	29.6	250	12.40	99.8	5.61
BB33947		0.22	0.02	8.26	3.3	280	2.59	0.59	2.20	0.16	16.80	57.0	548	10.25	300	8.70
BB33948		0.28	<0.02	8.54	1.2	60	0.80	0.23	2.57	0.06	3.02	82.3	615	3.39	27.5	10.90
BB33949		0.26	0.08	9.10	0.5	60	0.61	0.48	1.81	0.11	2.60	61.5	678	4.28	371	11.00
BB33950		0.26	0.07	8.02	2.1	250	1.24	0.25	2.62	0.17	14.10	49.8	534	12.20	244	8.23
BB33951		0.22	0.06	7.29	2.6	410	4.08	1.50	3.12	0.26	24.8	41.2	367	27.2	201	5.69
BB33952		0.30	0.15	9.27	6.6	340	4.44	0.63	1.32	0.36	34.4	47.6	354	93.1	241	7.29
BB33953		0.30	0.06	7.73	4.8	380	3.67	0.65	2.73	0.28	37.6	47.8	406	31.0	184.0	6.43
BB33954		0.26	0.09	8.00	7.9	330	2.99	1.11	2.04	0.30	13.55	53.9	397	44.4	342	7.74
BB33969		0.28	0.23	8.55	3.1	1140	2.82	0.54	1.58	0.11	47.4	9.5	57	6.81	25.0	2.56
BB33970		0.24	0.09	7.03	2.5	1180	3.49	0.55	2.06	0.59	59.8	15.3	152	5.79	31.0	3.60

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



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Date : 6-Aug-2003

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Project : Straw

CERTIFICATE OF ANALYSIS VA03027933

Sample Description	Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
BB09774		16.15	0.69	0.2	0.026	1.14	12.7	161.0	2.25	8530	4.23	0.42	3.2	266	990	30.9
BB09775		18.05	0.54	0.3	0.056	1.88	33.4	35.8	1.95	609	1.82	1.34	6.0	82.2	860	21.1
BB09783		20.5	0.65	1.4	0.071	1.39	42.4	45.7	3.63	1320	4.21	1.22	4.6	102.5	1040	44.0
BB09784		21.1	0.50	1.0	0.074	1.46	20.1	32.9	1.99	761	4.41	0.80	6.5	57.4	510	18.7
BB09786		17.55	0.47	0.6	0.054	1.01	39.1	43.9	2.26	765	1.25	1.48	5.4	44.8	970	17.8
BB09787		21.3	0.49	0.6	0.074	1.49	28.6	43.5	1.69	575	6.08	0.54	5.7	53.9	660	21.1
BB09789		18.10	0.55	0.9	0.069	0.98	12.6	64.3	4.26	1060	2.79	1.20	5.4	113.5	200	13.0
BB09790		12.15	0.50	0.8	0.054	0.61	12.7	64.6	5.93	1155	1.05	0.83	4.7	216	190	5.7
BB09791		14.90	0.54	0.7	0.057	0.56	7.9	129.0	4.16	1605	0.54	1.37	2.9	143.5	300	10.8
BB09792		13.15	0.52	0.7	0.043	0.62	8.7	140.5	6.84	1095	0.45	1.01	3.0	332	270	6.1
BB09814		18.65	0.47	3.0	0.064	1.16	33.0	39.5	3.82	1015	6.51	0.78	7.3	126.0	840	31.0
BB09815		21.5	0.51	0.2	0.072	1.63	32.6	21.6	1.34	557	6.89	0.60	11.1	57.3	2500	22.2
BB09817		16.65	0.46	1.2	0.053	1.66	49.6	37.8	2.13	677	1.14	1.24	8.4	159.5	640	18.1
BB09818		23.1	0.46	1.4	0.059	1.35	28.1	63.9	2.57	777	1.84	1.28	17.2	93.2	820	23.3
BB09819		21.5	0.60	0.5	0.083	1.98	35.5	43.0	2.00	1530	3.93	0.36	6.2	59.0	1030	35.3
BB09820		23.2	0.65	0.9	0.067	2.31	72.1	31.6	0.95	789	1.03	1.05	8.9	38.6	960	37.2
BB09830		12.25	0.46	0.7	0.032	0.46	6.0	60.9	7.13	1010	0.47	0.59	2.6	392	430	5.2
BB09831		10.70	0.44	0.3	0.032	0.19	3.3	55.4	10.70	1145	0.25	0.26	1.5	812	180	2.0
BB09832		9.04	0.45	0.3	0.034	0.22	5.5	45.3	10.90	918	0.33	0.32	1.8	571	120	2.6
BB09833		16.70	0.36	0.7	0.021	2.02	18.8	25.4	1.86	452	1.62	2.41	3.9	60.4	520	9.2
BB09834		13.70	0.42	0.1	0.038	0.94	15.6	43.8	6.34	1170	1.23	0.87	6.0	373	1710	12.1
BB09835		10.30	0.43	0.9	0.036	0.63	15.2	29.3	9.02	909	0.53	0.80	4.6	396	320	5.6
BB09836		11.50	0.41	1.0	0.041	0.72	15.8	28.9	9.67	852	0.81	0.68	5.2	588	320	7.0
BB09837		9.63	0.42	0.3	0.035	0.21	4.7	58.1	10.60	1050	0.29	0.34	1.8	581	150	2.2
BB09838		9.43	0.40	0.4	0.028	0.25	4.8	54.2	8.73	1040	0.21	0.45	1.5	493	190	1.9
BB09839		13.55	0.55	0.2	0.018	0.13	1.2	66.4	10.90	862	0.22	0.32	1.0	707	170	1.3
BB09840		11.40	0.49	1.0	0.026	0.51	5.1	50.1	9.93	950	0.53	0.73	1.9	709	250	7.4
BB09841		12.25	0.55	0.8	0.037	0.45	5.9	109.5	7.47	1255	0.44	0.72	2.4	493	340	4.7
BB09850		13.60	0.51	0.3	0.047	0.82	10.7	31.0	3.94	931	1.09	1.68	3.4	109.5	940	6.6
BB09851		13.40	0.49	1.1	0.051	0.85	14.7	49.0	4.45	1005	0.87	1.29	5.6	144.0	390	8.3
BB09852		14.25	0.60	0.7	0.053	0.53	9.4	82.7	6.63	1255	1.13	1.18	4.1	195.5	360	6.0
BB09853		14.00	0.50	0.6	0.056	0.50	7.4	65.4	5.73	1430	0.55	1.83	3.5	131.5	210	5.6
BB09854		12.80	0.45	1.2	0.053	0.97	20.2	67.0	4.18	937	1.00	1.38	7.2	136.5	380	9.2
BB09855		13.50	0.49	0.8	0.054	0.63	12.6	89.3	5.91	1350	0.65	1.31	4.7	161.5	260	7.4
BB09856		12.70	0.51	0.8	0.059	0.57	12.9	88.0	6.41	1355	0.61	1.20	4.3	206	230	6.7
BB09857		12.80	0.59	0.2	0.069	0.37	1.4	116.5	8.79	1810	0.73	0.79	1.0	330	150	3.5
BB09858		17.05	0.59	0.5	0.061	0.88	4.6	100.5	1.96	1940	0.48	0.64	2.9	132.5	170	7.6
BB09859		13.45	0.52	1.2	0.051	0.86	19.4	77.3	4.25	1350	0.81	1.30	6.8	159.0	460	8.7
BB09860		13.05	0.53	0.9	0.056	0.60	14.1	99.4	5.90	1215	0.78	1.14	4.8	227	300	7.1
BB09861		13.65	0.56	0.5	0.048	0.53	5.5	133.0	7.72	1330	0.69	0.97	3.2	288	240	5.6

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



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Page #: 3 - B

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Project : Straw

CERTIFICATE OF ANALYSIS

VA03027933

Sample Description	Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
BB09870		10.60	0.69	0.1	0.035	0.24	1.2	53.7	13.60	1445	0.28	0.19	0.8	1305	110	1.8
BB09871		15.50	0.56	0.3	0.015	0.11	1.8	101.5	12.00	587	0.23	0.09	2.3	578	210	2.0
BB09872		15.10	0.61	2.2	0.036	1.09	15.0	46.1	5.05	709	1.99	1.48	4.9	260	610	7.5
BB09873		14.35	0.47	1.3	0.037	0.92	12.7	40.3	3.69	780	1.05	1.30	4.4	147.0	660	6.5
BB09874		16.15	0.40	1.6	0.021	0.78	8.6	64.1	7.31	611	1.00	0.98	2.9	388	340	8.9
BB09875		15.00	0.47	0.6	0.047	0.50	3.4	72.7	4.45	1580	0.50	0.89	1.4	218	390	3.8
BB09876		9.74	0.44	0.4	0.029	0.28	4.1	75.0	10.70	1160	0.32	0.50	1.7	903	230	21.5
BB27360		20.4	0.45	1.7	0.073	1.54	22.9	43.3	4.23	937	2.24	0.79	8.0	149.5	300	16.0
BB27361		12.20	0.38	1.0	0.049	0.83	16.6	23.2	4.47	911	0.60	1.37	6.2	164.5	450	7.8
BB27362		13.10	0.37	1.1	0.053	0.79	16.4	23.1	4.00	906	1.04	0.98	6.1	131.5	620	8.5
BB33943		12.30	0.41	0.5	0.055	0.48	8.0	35.6	5.70	1220	1.01	0.88	3.5	178.5	1170	6.4
BB33944		13.35	0.39	0.9	0.053	0.73	12.2	50.5	4.77	1095	1.29	1.05	8.0	207	690	9.0
BB33945		14.95	0.54	0.2	0.057	0.06	0.8	69.1	10.85	1575	1.36	0.13	1.2	317	40	0.6
BB33946		13.55	0.45	1.0	0.057	0.91	17.3	53.9	4.76	1040	1.09	1.25	5.8	142.0	340	8.7
BB33947		13.90	0.51	0.6	0.056	0.44	8.6	72.4	7.68	1165	1.05	0.58	3.8	259	190	4.8
BB33948		14.30	0.59	0.2	0.067	0.08	1.2	76.9	9.12	1485	0.37	0.21	1.0	274	240	1.8
BB33949		14.70	0.72	0.2	0.061	0.06	1.5	85.0	9.82	1295	2.41	0.18	0.8	267	80	1.1
BB33950		13.70	0.56	0.6	0.054	0.40	7.3	93.8	7.33	1255	0.81	0.78	3.0	223	210	4.5
BB33951		13.80	0.46	1.0	0.055	0.82	13.1	88.0	5.80	1245	1.41	1.30	5.3	212	310	9.2
BB33952		16.60	0.55	1.0	0.100	0.95	19.4	96.6	2.51	2310	1.65	0.67	5.8	203	440	20.0
BB33953		15.05	0.50	0.9	0.059	0.70	17.5	151.5	5.32	1500	0.75	1.15	5.1	237	360	12.0
BB33954		14.50	0.53	0.5	0.071	0.64	7.3	133.5	4.21	2060	0.88	1.26	2.3	193.0	470	9.8
BB33969		20.1	0.46	3.2	0.044	2.26	25.1	52.3	1.18	431	1.62	2.07	7.9	51.7	440	20.0
BB33970		15.40	0.44	1.4	0.052	1.39	29.4	53.0	1.92	867	2.57	1.30	7.6	79.5	840	22.4

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



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Page #: 2 - C
Date : 6-Aug-2003
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Project : Straw

CERTIFICATE OF ANALYSIS VA03027933

Sample Description	Method Analyte Units LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.01	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
BB09774		110.5	0.003	0.11	1.01	2	4.3	111.0	<0.05	0.09	6.3	0.10	1.02	32.7	88	0.7
BB09775		87.4	0.003	0.01	0.25	2	3.1	192.5	0.06	0.06	12.0	0.33	0.70	2.7	130	1.4
BB09783		77.2	0.003	0.04	<0.05	3	1.8	229	0.07	0.09	9.7	0.56	0.85	3.8	231	0.8
BB09784		69.5	0.002	0.01	0.19	2	2.8	111.5	<0.05	0.10	8.1	0.36	0.57	2.0	178	2.3
BB09786		46.5	0.002	0.05	0.24	2	2.5	243	0.06	<0.05	13.1	0.50	0.36	2.9	134	1.1
BB09787		71.5	0.003	0.03	0.07	3	3.1	91.7	<0.05	0.13	9.2	0.37	0.68	3.1	194	2.5
BB09789		42.8	0.003	0.02	0.05	2	1.8	124.0	0.21	0.14	5.4	0.31	0.36	1.2	217	2.0
BB09790		28.8	0.002	0.01	0.22	2	3.3	84.8	0.20	0.09	3.6	0.24	0.25	0.9	213	1.3
BB09791		39.3	<0.002	0.02	0.35	1	4.9	95.5	0.20	0.10	2.9	0.20	0.40	1.5	238	2.9
BB09792		54.2	0.002	0.01	0.15	2	5.7	90.6	0.27	0.07	2.9	0.20	0.45	2.4	209	0.7
BB09814		46.2	0.003	0.18	1.52	3	1.7	123.5	0.37	0.07	9.4	0.35	1.05	3.3	230	0.8
BB09815		85.7	0.002	0.06	0.63	3	2.8	117.5	0.13	0.12	13.1	0.51	0.84	3.3	164	1.9
BB09817		81.2	0.003	0.02	0.28	2	2.0	225	0.31	0.05	11.7	0.32	0.52	2.8	110	1.0
BB09818		63.8	<0.002	0.02	0.14	2	2.7	216	0.48	0.05	7.1	0.61	0.48	2.0	181	1.5
BB09819		91.3	<0.002	0.09	2.14	2	2.0	80.9	0.06	0.07	11.7	0.44	0.83	3.1	207	1.6
BB09820		109.0	0.002	0.04	0.46	2	2.7	225	0.24	0.05	24.7	0.38	0.64	3.9	95	2.0
BB09830		25.5	<0.002	0.04	0.24	2	3.1	81.2	0.19	0.05	2.0	0.13	0.18	0.7	209	0.9
BB09831		11.2	<0.002	0.01	0.14	2	2.5	27.9	0.10	0.06	1.1	0.09	0.20	0.3	180	0.4
BB09832		9.2	0.002	0.01	0.05	2	0.8	29.7	0.09	<0.05	1.7	0.12	0.07	0.4	156	0.2
BB09833		44.1	0.002	0.02	0.46	1	0.9	524	<0.05	<0.05	5.9	0.20	0.27	2.2	50	0.6
BB09834		33.1	0.002	0.06	0.65	2	1.9	155.0	0.09	0.07	5.4	0.24	0.23	1.7	142	1.4
BB09835		23.6	0.002	0.01	0.19	2	3.0	109.0	0.12	<0.05	4.4	0.19	0.15	1.0	158	0.3
BB09836		30.7	<0.002	0.01	0.21	2	1.0	112.5	0.10	<0.05	4.7	0.19	0.23	1.1	126	0.4
BB09837		9.5	<0.002	0.01	0.09	2	1.1	29.1	0.11	0.05	1.6	0.11	0.08	0.3	172	0.3
BB09838		11.0	0.002	0.01	0.12	2	0.7	49.2	0.10	0.05	1.6	0.12	0.08	0.4	199	0.4
BB09839		19.9	0.002	0.01	0.11	2	1.3	29.9	0.19	0.07	0.4	0.14	0.27	0.2	310	0.3
BB09840		12.4	0.002	0.02	0.15	2	0.6	131.0	0.14	0.08	1.5	0.12	0.10	0.6	158	0.3
BB09841		25.0	<0.002	0.02	2.06	2	2.9	103.0	0.19	0.07	1.7	0.15	0.20	0.7	215	0.7
BB09850		25.0	<0.002	0.05	0.34	2	2.5	206	<0.05	0.11	3.3	0.21	0.18	1.3	177	0.8
BB09851		37.8	<0.002	0.02	0.40	2	2.8	130.5	0.22	0.10	4.0	0.25	0.34	1.2	197	0.8
BB09852		24.9	<0.002	0.02	0.28	3	1.5	77.9	0.23	0.21	2.7	0.21	0.26	1.0	242	1.0
BB09853		29.1	<0.002	0.01	0.17	1	2.6	72.1	0.20	0.08	2.3	0.22	0.21	0.6	256	0.9
BB09854		38.5	<0.002	0.01	0.48	2	2.2	143.5	0.30	0.08	5.8	0.28	0.31	1.5	186	1.1
BB09855		27.5	0.002	0.01	0.29	1	3.2	95.2	0.25	0.10	3.8	0.24	0.20	0.9	233	1.0
BB09856		27.4	<0.002	0.01	0.28	2	3.3	82.9	0.30	0.15	3.9	0.22	0.20	0.9	233	0.7
BB09857		29.7	0.002	0.11	0.07	4	2.8	28.1	0.09	0.39	0.4	0.13	0.29	0.5	289	0.3
BB09858		85.7	<0.002	0.02	0.35	2	7.9	54.7	0.28	0.12	1.9	0.18	0.62	1.3	283	2.7
BB09859		35.3	<0.002	0.02	0.48	1	1.8	124.0	0.33	0.10	6.1	0.29	0.26	1.3	200	0.9
BB09860		26.6	<0.002	0.02	0.47	2	4.3	90.1	0.27	0.11	4.0	0.23	0.22	1.0	228	22.7
BB09861		28.4	<0.002	0.01	0.19	2	7.5	52.6	0.28	0.18	1.7	0.17	0.23	0.6	245	0.9

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



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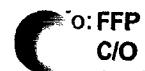
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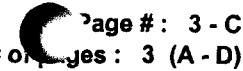


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Date: 6-Aug-2003

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Project: Straw

CERTIFICATE OF ANALYSIS

VA03027933

Sample Description	Method Analyte Units LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.01	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
BB09870		34.4	<0.002	0.01	0.05	2	1.5	10.2	0.12	0.09	0.3	0.09	0.57	0.1	185	0.3
BB09871		11.7	<0.002	0.01	0.18	2	1.5	12.6	0.90	0.05	0.9	0.14	0.20	0.4	306	0.3
BB09872		30.5	<0.002	0.04	0.40	1	1.0	280	0.31	<0.05	4.4	0.20	0.21	1.4	147	0.7
BB09873		27.0	<0.002	0.05	0.41	1	1.1	334	0.09	<0.05	3.7	0.28	0.17	1.2	160	0.7
BB09874		21.2	<0.002	0.03	0.40	2	0.7	213	0.24	<0.05	2.6	0.14	0.15	1.0	224	0.6
BB09875		37.5	0.003	0.06	0.17	2	1.1	74.7	0.11	0.07	0.9	0.15	0.25	0.4	318	0.6
BB09876		16.0	0.002	0.02	2.35	2	1.5	59.2	0.10	0.07	1.2	0.11	0.21	0.4	170	0.4
BB27360		71.1	0.003	0.01	0.06	2	2.3	126.5	0.27	0.06	8.6	0.36	0.62	2.2	180	0.9
BB27361		31.0	<0.002	0.02	0.33	1	1.1	121.5	0.23	0.06	5.4	0.26	0.20	1.5	176	0.6
BB27362		32.9	<0.002	0.02	0.21	2	1.1	91.6	0.24	<0.05	6.2	0.29	0.22	1.4	184	0.8
BB33943		26.6	0.002	0.05	0.30	2	6.9	53.4	0.14	0.13	4.0	0.16	0.21	0.9	209	4.1
BB33944		34.9	0.002	0.03	0.34	2	2.8	99.0	0.30	0.08	4.4	0.23	0.30	2.2	200	1.1
BB33945		7.7	0.003	0.02	<0.05	3	3.3	4.2	0.10	0.22	0.2	0.13	0.09	0.2	273	0.2
BB33946		39.5	0.003	0.02	0.46	1	3.1	131.5	0.32	0.06	5.1	0.26	0.31	1.3	197	0.8
BB33947		23.7	0.002	0.01	0.29	3	4.7	52.6	0.27	0.15	2.7	0.19	0.24	0.8	237	0.7
BB33948		5.5	<0.002	0.01	0.05	1	0.6	8.1	0.07	0.12	0.7	0.19	0.05	0.2	281	0.3
BB33949		3.9	<0.002	0.01	<0.05	4	0.7	9.9	0.06	0.30	0.4	0.19	0.05	0.3	279	0.3
BB33950		19.8	<0.002	0.02	0.21	2	1.7	61.0	0.24	0.16	2.2	0.18	0.16	0.7	229	1.2
BB33951		50.9	<0.002	0.02	0.35	1	4.8	149.0	0.35	0.12	3.9	0.23	0.44	1.3	201	0.6
BB33952		60.8	0.002	0.02	0.42	2	3.0	81.0	0.35	0.11	5.2	0.21	0.56	1.4	256	6.1
BB33953		39.3	<0.002	0.02	0.36	1	5.3	96.9	0.36	0.09	4.8	0.24	0.36	1.4	227	2.7
BB33954		51.3	0.003	0.04	0.29	2	3.8	95.6	0.18	0.15	2.4	0.18	0.62	1.7	252	0.9
BB33969		91.0	<0.002	0.02	0.32	1	3.3	402	0.29	<0.05	9.6	0.26	0.62	6.2	76	0.9
BB33970		70.8	<0.002	0.04	0.13	2	2.7	244	0.34	0.05	10.2	0.42	0.52	10.2	138	1.5

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



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CERTIFICATE OF ANALYSIS VA03027933

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61
		Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
BB09774		8.3	73	4.9
BB09775		15.6	84	8.7
BB09783		30.1	270	45.0
BB09784		9.6	99	34.3
BB09786		19.4	100	18.2
BB09787		14.4	134	20.7
BB09789		7.7	150	26.4
BB09790		8.6	114	19.9
BB09791		8.4	191	16.6
BB09792		8.8	84	16.9
BB09814		17.6	201	92.1
BB09815		12.6	81	8.9
BB09817		21.3	132	33.5
BB09818		22.8	158	43.9
BB09819		20.4	185	18.0
BB09820		26.9	108	28.3
BB09830		7.1	64	21.8
BB09831		4.6	58	8.8
BB09832		4.2	54	9.3
BB09833		5.6	50	36.2
BB09834		6.5	98	3.6
BB09835		7.1	48	25.8
BB09836		5.9	56	31.6
BB09837		4.2	62	9.5
BB09838		4.9	55	10.0
BB09839		5.1	43	5.2
BB09840		4.5	72	29.7
BB09841		7.5	71	21.6
BB09850		7.2	107	9.2
BB09851		9.0	154	28.6
BB09852		7.7	170	18.4
BB09853		8.5	130	16.0
BB09854		10.0	118	30.0
BB09855		8.8	186	19.9
BB09856		8.7	162	19.2
BB09857		5.6	254	3.5
BB09858		13.0	139	9.9
BB09859		9.2	122	31.7
BB09860		8.6	112	22.8
BB09861		6.5	136	13.0

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



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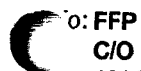
CERTIFICATE OF ANALYSIS VA03027933

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61
		Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
BB09870		5.5	67	2.4
BB09871		4.7	37	6.9
BB09872		7.0	62	67.4
BB09873		6.8	64	42.3
BB09874		6.7	45	52.4
BB09875		12.4	68	14.8
BB09876		5.7	68	11.4
BB27360		11.0	114	54.4
BB27361		9.0	74	26.2
BB27362		9.4	81	31.4
BB33943		7.6	179	13.8
BB33944		10.6	146	24.4
BB33945		6.0	188	4.2
BB33946		9.4	122	29.2
BB33947		6.9	146	15.6
BB33948		6.1	87	3.2
BB33949		5.7	136	4.4
BB33950		6.9	149	14.6
BB33951		8.4	174	28.4
BB33952		14.9	168	28.1
BB33953		9.5	172	23.8
BB33954		10.2	251	12.6
BB33969		8.6	79	101.0
BB33970		17.4	122	42.5

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



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Page #: 1
a : 6-Aug-2003
Account: FFP

CERTIFICATE VA03027931

Project : Lion

P.O. No:

This report is for 28 SOIL samples submitted to our lab in North Vancouver, BC, Canada on 29-Jul-2003.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHER

ROB CARNE
BILL WENGZYNOWSKI

DOUG EATON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	47 element four acid ICP-MS

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

Signature:



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Page #: 2 - A

Pages: 2 (A - D)

Date: 6-Aug-2003

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CERTIFICATE OF ANALYSIS

VA03027931

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
BB09768		0.22	0.03	8.28	2.9	780	1.59	0.07	0.64	0.17	44.2	35.4	78	5.70	14.4	10.30
BB09769		0.28	0.10	7.40	4.6	1620	3.49	0.35	1.92	0.43	47.9	19.7	61	6.67	48.8	3.87
BB09771		0.26	0.22	7.37	4.4	1110	3.30	0.43	1.92	0.22	58.7	31.0	244	40.9	29.4	4.09
BB09772		0.32	0.08	6.71	5.7	1050	1.82	0.17	2.61	0.53	57.4	28.2	571	6.16	29.5	4.70
BB09773		0.22	0.11	8.46	18.2	940	1.80	0.32	1.22	0.25	62.6	15.5	80	5.35	47.0	4.95
BB09776		0.32	0.13	8.02	15.6	940	2.74	0.54	0.68	0.46	132.5	19.8	59	7.19	48.6	4.63
BB09777		0.38	2.51	9.34	24.5	2210	2.56	2.48	0.68	9.70	97.0	38.6	222	6.15	144.0	6.46
BB09778		0.38	0.09	6.55	19.4	840	2.07	0.40	0.74	0.37	83.8	16.6	54	4.22	32.4	4.04
BB09779		0.28	0.13	6.19	14.0	800	1.38	0.23	1.04	0.39	54.6	13.4	66	2.96	38.1	3.69
BB09780		0.28	0.16	8.00	5.2	640	1.41	0.14	2.63	0.68	49.7	30.4	110	2.35	42.1	5.76
BB09781		0.28	0.18	8.51	14.8	780	1.71	0.37	2.13	0.48	54.5	25.9	82	3.50	66.6	5.69
BB09782		0.26	0.16	5.86	20.2	580	1.24	0.25	2.53	0.67	39.1	24.6	47	3.30	36.8	4.24
BB27255		0.16	0.17	8.62	4.8	580	1.58	0.23	1.81	0.13	31.2	26.1	88	27.1	93.7	5.95
BB27256		0.26	0.04	7.46	3.8	510	1.30	0.26	0.81	0.18	44.4	12.0	39	6.48	19.1	4.98
BB27259		0.18	0.17	7.12	3.5	2070	1.73	0.23	0.90	0.98	43.2	5.9	24	10.70	36.9	2.65
BB27260		0.26	0.11	7.19	8.2	1200	1.50	0.35	0.92	0.44	57.0	8.9	64	5.48	21.9	4.25
BB27261		0.26	0.20	7.67	6.0	3600	2.47	0.42	1.32	0.41	59.9	27.8	126	17.30	84.5	5.86
BB27262		0.30	0.17	7.52	6.8	1360	2.26	0.21	2.60	0.54	59.2	20.4	80	6.92	54.5	4.61
BB27263		0.28	0.06	7.21	9.2	790	1.12	0.23	1.40	0.17	42.9	15.1	74	2.87	31.5	5.23
BB27271		0.16	0.07	8.42	3.2	770	1.40	0.16	2.25	0.15	41.8	8.4	10	2.30	24.6	2.43
BB27272		0.36	0.11	7.75	7.4	630	1.94	0.25	1.14	0.27	58.0	10.9	66	3.18	24.6	5.08
BB27273		0.36	0.16	6.84	10.7	860	2.16	0.22	1.08	0.32	78.3	18.0	70	8.77	34.3	4.55
BB27277		0.22	0.06	6.52	8.9	650	1.79	0.31	1.11	0.25	65.0	17.2	77	3.62	34.2	4.86
BB27278		0.32	0.21	7.46	14.8	1030	1.78	1.10	0.85	0.25	103.0	9.7	35	5.30	29.2	4.29
BB27305		0.34	0.30	9.12	26.3	480	2.17	1.18	1.84	0.42	70.1	28.1	65	8.65	96.4	7.71
BB27357		0.24	0.29	9.14	6.8	1040	3.21	0.20	1.18	0.20	140.5	20.7	31	8.50	48.7	5.00
BB27358		0.22	0.08	8.94	4.2	880	2.40	0.28	1.40	0.16	99.7	14.3	59	3.81	40.0	4.32
BB27359		0.24	0.07	8.03	6.6	1090	1.76	0.22	1.90	0.22	59.0	17.1	77	2.68	38.0	4.68

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



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Page #: 2 - B

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Date : 6-Aug-2003

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Project : Lion

CERTIFICATE OF ANALYSIS

VA03027931

Sample Description	Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
BB09768		18.55	0.97	0.5	0.063	0.98	26.0	49.2	0.44	2020	0.52	0.17	3.5	37.5	1370	11.8
BB09769		15.75	0.51	0.9	0.063	1.49	22.4	55.1	1.56	830	0.97	1.27	5.3	67.1	770	27.2
BB09771		17.45	0.56	0.6	0.054	1.52	32.0	62.4	3.76	731	0.79	1.10	6.1	286	630	19.6
BB09772		13.40	0.54	0.6	0.043	1.39	28.6	22.3	3.58	909	1.09	1.25	6.1	238	670	18.3
BB09773		21.4	0.52	1.5	0.056	1.87	31.8	27.7	1.56	711	1.32	1.18	8.8	56.8	410	18.2
BB09776		19.40	0.55	0.1	0.068	1.79	52.6	40.4	0.98	816	3.81	0.90	9.5	54.6	1270	29.3
BB09777		22.9	0.68	4.7	0.096	2.29	48.9	48.2	4.66	2880	3.66	0.38	11.2	82.7	1250	337
BB09778		19.25	0.59	0.1	0.058	1.56	40.4	17.0	0.66	1965	1.31	0.78	6.4	27.0	2600	40.0
BB09779		17.60	0.51	0.1	0.048	1.29	26.1	17.0	0.81	1295	1.72	1.06	5.8	32.6	1860	15.9
BB09780		17.90	0.61	1.0	0.070	1.04	22.8	29.1	2.44	1185	1.80	1.35	7.0	75.1	1320	11.2
BB09781		20.5	0.60	1.1	0.069	1.40	23.3	26.6	2.27	1005	2.28	1.21	6.7	57.8	1130	20.0
BB09782		14.50	0.54	0.2	0.042	1.12	18.8	18.2	1.36	1605	1.13	0.68	5.2	18.8	1870	16.5
BB27255		18.40	0.54	0.4	0.085	0.97	15.3	29.2	1.90	1165	0.80	0.69	3.2	35.8	1120	9.5
BB27256		18.70	0.52	0.1	0.078	0.96	21.2	27.8	1.08	698	2.45	1.14	5.9	16.3	1480	12.8
BB27259		21.6	0.42	0.1	0.048	1.88	22.2	26.4	0.45	341	3.01	1.08	6.3	23.1	1400	19.0
BB27260		20.8	0.49	0.9	0.062	1.34	28.5	30.4	0.92	478	2.13	0.99	5.7	27.6	510	25.9
BB27261		21.5	0.63	0.9	0.082	1.90	26.4	75.0	2.10	1950	2.70	0.72	20.6	95.8	960	23.3
BB27262		17.40	0.62	1.0	0.068	1.27	26.7	36.1	1.87	892	1.59	1.14	7.8	56.2	830	22.6
BB27263		19.60	0.60	0.9	0.058	1.19	20.8	24.8	1.52	869	1.50	0.91	10.0	43.9	510	13.6
BB27271		17.55	0.46	0.1	0.027	1.79	21.2	18.4	0.85	874	1.28	2.38	2.7	8.6	850	10.4
BB27272		15.75	0.48	0.2	0.053	1.17	22.9	21.8	1.09	511	1.00	0.98	6.8	30.4	1190	17.0
BB27273		15.95	0.51	0.2	0.054	1.47	31.7	24.1	1.52	1110	1.11	1.07	7.3	34.9	2130	26.0
BB27277		14.95	0.52	0.1	0.077	1.09	29.1	21.3	1.19	2070	1.55	1.10	5.4	28.4	1340	32.7
BB27278		20.7	0.60	0.2	0.108	1.89	42.0	24.9	0.84	916	1.18	1.31	6.9	17.0	890	51.9
BB27305		20.6	0.69	2.5	0.120	0.89	31.2	44.2	3.19	1940	1.98	1.03	4.9	27.2	2040	168.5
BB27357		21.3	0.69	1.0	0.081	2.38	64.3	27.3	1.25	1760	1.31	1.00	6.9	19.0	1240	17.4
BB27358		20.8	0.59	0.8	0.065	2.02	45.1	26.6	1.18	723	1.04	1.26	9.8	36.3	1180	21.5
BB27359		18.75	0.55	1.3	0.062	1.64	29.2	27.9	1.82	788	1.21	1.31	2.3	39.8	640	15.7

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



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Page #: 2 - C

jes : 2 (A - D)

Date : 6-Aug-2003

Account: FFP

Project : Lion

CERTIFICATE OF ANALYSIS

VA03027931

Sample Description	Method Analyte Units LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.01	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
BB09768		47.8	0.004	0.05	0.16	2	0.8	82.9	0.07	0.06	2.6	0.59	0.34	1.0	331	0.8
BB09769		70.9	0.002	0.01	0.13	2	3.5	167.5	0.11	<0.05	9.9	0.43	0.54	1.9	121	0.8
BB09771		93.7	0.004	0.03	0.24	3	5.7	205	0.05	0.05	10.2	0.28	0.70	3.9	110	1.2
BB09772		53.0	0.002	0.01	0.15	2	1.8	188.5	0.05	<0.05	8.8	0.36	0.37	1.8	136	0.8
BB09773		88.9	0.002	0.02	0.31	2	2.2	207	0.21	0.06	10.7	0.39	0.49	2.2	136	1.1
BB09776		88.0	0.003	0.05	0.64	2	2.6	148.0	0.13	0.12	18.3	0.46	0.66	3.6	140	1.4
BB09777		76.7	0.003	0.31	6.49	4	4.0	85.3	0.54	0.11	15.0	0.45	1.10	4.2	174	1.1
BB09778		88.7	0.002	0.12	0.62	2	2.1	140.0	0.05	0.05	19.9	0.36	0.47	3.0	108	1.2
BB09779		53.3	<0.002	0.09	0.51	1	1.5	220	<0.05	0.06	8.6	0.43	0.34	2.4	126	0.9
BB09780		41.5	0.003	0.04	0.21	2	1.7	229	0.17	0.05	6.5	0.78	0.28	1.5	217	0.3
BB09781		59.2	0.002	0.05	0.32	2	2.0	211	0.18	0.06	9.0	0.62	0.42	3.3	197	0.6
BB09782		53.6	0.002	0.10	0.41	1	1.2	207	<0.05	0.07	7.9	0.31	0.31	1.5	137	1.8
BB27255		38.9	0.003	0.07	0.50	2	1.0	187.0	<0.05	<0.05	2.8	0.37	0.25	0.9	235	0.9
BB27256		41.8	<0.002	0.04	0.42	2	1.7	147.0	0.06	<0.05	5.7	0.52	0.30	1.7	196	1.0
BB27259		71.4	0.003	0.06	0.31	2	2.0	306	0.06	0.05	6.7	0.31	0.54	2.2	100	1.3
BB27260		57.4	<0.002	0.03	0.33	2	2.8	184.5	0.05	0.05	8.7	0.51	0.45	2.2	160	0.8
BB27261		169.0	0.003	0.03	0.24	2	2.9	168.0	0.32	0.16	8.8	0.64	0.58	2.2	222	5.4
BB27262		66.1	0.002	0.05	0.24	2	2.3	229	0.10	0.07	8.7	0.57	0.50	2.8	166	1.0
BB27263		60.2	0.002	0.01	0.23	1	1.8	189.5	0.14	0.07	6.8	0.45	0.30	1.7	168	0.7
BB27271		40.3	0.002	0.05	0.36	1	0.6	613	<0.05	<0.05	5.4	0.26	0.26	2.1	63	0.5
BB27272		53.8	0.002	0.06	0.45	2	1.9	130.5	0.06	0.05	10.8	0.38	0.33	1.9	148	1.0
BB27273		59.5	0.004	0.12	0.65	2	1.9	165.0	0.06	<0.05	14.3	0.38	0.39	2.6	148	1.4
BB27277		43.3	0.005	0.06	0.61	1	1.6	156.0	<0.05	<0.05	8.0	0.43	0.32	1.9	144	1.6
BB27278		81.1	0.002	0.05	1.12	2	3.8	130.0	<0.05	0.05	18.1	0.29	0.52	4.2	82	1.2
BB27305		33.8	0.003	0.03	1.37	2	1.4	191.5	0.10	0.12	4.6	0.62	0.22	1.4	247	1.1
BB27357		115.0	0.002	0.05	0.56	2	1.7	182.5	0.20	0.08	16.8	0.34	0.68	2.8	220	1.0
BB27358		86.4	0.002	0.03	0.41	1	2.5	312	0.27	0.06	18.3	0.48	0.50	3.6	126	1.2
BB27359		65.9	0.002	0.02	0.10	1	2.0	211	<0.05	<0.05	10.3	0.52	0.46	2.4	166	0.2

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



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Page #: 2 - D
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Date : 6-Aug-2003
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Project : Lion

CERTIFICATE OF ANALYSIS VA03027931

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61
		Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
BB09768		31.9	120	11.6
BB09769		15.3	118	28.2
BB09771		16.3	121	17.3
BB09772		15.4	94	18.5
BB09773		13.0	103	44.1
BB09776		17.8	126	4.6
BB09777		35.2	848	149.0
BB09778		13.0	87	6.4
BB09779		10.6	74	7.7
BB09780		18.5	119	27.6
BB09781		16.7	168	35.0
BB09782		10.8	78	4.4
BB27255		19.6	87	10.8
BB27256		12.3	84	4.1
BB27259		9.7	122	7.1
BB27260		10.9	110	32.0
BB27261		16.4	191	30.6
BB27262		18.6	153	35.6
BB27263		12.3	100	25.2
BB27271		10.4	57	8.5
BB27272		11.3	74	5.5
BB27273		14.9	84	6.5
BB27277		16.4	101	2.9
BB27278		21.6	102	9.6
BB27305		31.6	112	70.6
BB27357		34.1	75	26.3
BB27358		19.8	103	28.4
BB27359		17.2	97	37.2

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

APPENDIX III
ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions

Project: FEP

Property: Straw

Page 1 of

Sample Number: Grid North:

N Grid East:

E Type: quartz float

Dimension:

NB-047

UTM: 6789950

N UTM: 4117853

E Sample Width:

Abundance: few in area

Elevation:

m

Comments:

This sample is a piece of quartz vein with chlorite schist, tourmalines and olive green colored crystals. The crystals seem to have pentagonal crystal faces but could have some hexagonal crystals. There are lots of the green crystals that are opaque to semi-opaque with greasy luster. There are no vertical striations but they have a hardness above 6.5. The sample was float and there are others in the area that contain the green crystals.

Sample Number: Grid North:

N Grid East:

E Type: scree float

Dimension: 5x5cm 4x3cm

NB-048

UTM: 6790776

N UTM: 419278

E Sample Width:

Abundance: moderately abundant

Elevation:

m

Comments:

These pieces of float are found in a scree slope with many other pieces just like them. They are two pieces of chlorite schist with some quartz veining with chlorite as well. In the quartz there is fluorescent pink crystals that are harder than 5.5. The pink crystals could be rhodochrosite but don't seem to be tabular.

Sample Number: Grid North:

N Grid East:

E Type: scree float

Dimension: 5x5cm

NB-049

UTM: 6791235

N UTM: 419013

E Sample Width:

Abundance:

Elevation:

m

Comments:

The sample was taken 4 feet below a 40m high outcrop. The direct outcrop source is not visible, but the outcrop consists of chlorite schist with pegmatite sills. The sample contains quartz, calcite, fluorapatite and small tourmalines and some massive tourmalines. The wall rock was altered chlorite schist. This sample was found 6m to the south of the soil sample RB 37448.

Sample Number: Grid North:

N Grid East:

E Type:

Dimension:

UTM:

N UTM:

E Sample Width:

Abundance:

Elevation:

m

Comments:

Sample Number: Grid North:

N Grid East:

E Type:

Dimension:

UTM:

N UTM:

E Sample Width:

Abundance:

Elevation:

m

Comments:

Sample Number: Grid North:

N Grid East:

E Type:

Dimension:

UTM:

N UTM:

E Sample Width:

Abundance:

Elevation:

m

Comments:

Rock Sample Descriptions

Project

EEP

Property:

S Law - Lion

Page 1 of

Sample Number:

DT053

Grid North:

UTM: 6789791

Elevation:

N

Grid East:

UTM: 4117955

m

E

Type: Float

E

Sample Width: N/A

Dimension:

Several pieces up to

Abundance: 12cm x 12cm x 8cm

Comments:

Bird's foot tourmaline in chlorite schist and straight tourmaline along the margins of quartz veins and within quartz veins. Plate size is 4 cm long. Located by break. Float zone is approximately 450 m long.

Sample Number:

DT054

Grid North:

UTM: 6790404

Elevation:

N

Grid East:

UTM: 4119870

m

E

Type: Float

E

Sample Width: 10cm

Dimension:

6cm x 6cm

Abundance: 1 piece

Comments:

Quartz vein in phyllite with hard (2.5) light green mineral that has good cleavage. Perhaps fluorapatite?

Sample Number:

DT055

Grid North:

UTM: 6791304

Elevation:

N

Grid East:

UTM: 4119573

m

E

Type: Outcrop

E

Sample Width: N/A

Dimension:

3 pieces up to

Abundance: 4cm x 6cm x 6cm

Comments:

Pegmatite intruding interlayered ultramafic and chloritic schist. Minerals include: light coloured mica (high Li?) up to 5cm x 3cm and 2cm thick. 1cm long tourmaline, a radiating white feldspar (H2O) and what was originally thought to be scheelite but does not fluoresce. Mineral is orange pink and has cleavage, perhaps is feldspar?

Sample Number:

DT056

Grid North:

UTM: 6791313

Elevation:

N

Grid East:

UTM: 4119595

m

E

Type: Outcrop

E

Sample Width: 2cm

Dimension:

5cm x 6cm

Abundance: 1 horizon

Comments:

Bird's foot tourmaline in altered chlorite schist. Tourmalines up to 2cm long and 1/2 cm wide. Horizon was followed for ~42m and is ~2m thick. After the 70m the horizon was covered by colluvium. Chlorite schist was weathering golden and was somewhat recessive, it also contained some magnetite.

Sample Number:

DT057

Grid North:

UTM: 6791225

Elevation:

N

Grid East:

UTM: 4119436

m

E

Type: Outcrop

E

Sample Width: 3cm

Dimension:

4cm x 6cm

Abundance: 1 horizon

Comments:

Bird's foot tourmaline up to 1/2 cm wide and 5cm long in a early weathering horizon within chlorite schist. The horizon is ~3m thick and 20m long. Tourmalines are greenish yellow and some of more micaceous rock (green in comp). Magnetite was also present in the horizon.

Sample Number:

DT058

Grid North:

UTM: 6790467

Elevation:

N

Grid East:

UTM: 4119011

m

E

Type: Float

E

Sample Width: 3cm

Dimension:

4cm x 5cm

Abundance: A few pieces

Comments:

Quartz vein with tourmaline. Crystals up to 2cm long, and are needle-like. Largest "pod" of massive tourmaline was ~2cm across.

Rock Sample Descriptions

Project: FFP Property: LION

Page 1 of

Sample Number: Grid North: N Grid East: E Type: Float (possible Subcrop) Dimension: 12x9cm
 MD001 UTM: 6793988 N UTM: 422531 E Sample Width: Abundance: Abundant in float
 Elevation: 1750 m
 Comments: light grey unweathered surface, foliations defined by Quartz and Plagioclase Calciper
Outcrop is folded, - folds ~ 20cm from crest - to crest -

Sample Number: Grid North: N Grid East: E Type: Float Dimension: 14x7cm
 MD002 UTM: 6794525 N UTM: 421995 E Sample Width: Abundance: Abundant in float
 Elevation: 1860 m
 Comments: strongly foliated, grey cleavage, defined by mica (muscovite).
- sample taken for representative sample - site - sample taken from talus below contact

Sample Number: Grid North: N Grid East: E Type: Float Dimension: 8x6cm
 MD003 UTM: 6795053 N UTM: 424358 E Sample Width: Abundance: Abundant in float
 Elevation: 1900 m
 Comments: weathered surface - pink with gtz phenocrysts Angular-Subangular Phenocrysts
(unweathered - grey - abundant gtz)
sample representative of float/possible outcrop lower on W. side of hill

Sample Number: Grid North: N Grid East: E Type: Float Dimension: 8x7cm
 MD004 UTM: 6794886 N UTM: 424456 E Sample Width: Abundance: Abundant
 Elevation: 1800 m
 Comments: weathers - to rusty appearance, dark grey unweathered, vesicles (some samples have oriented
& elongated vesicles)
- large vesicle contains shiny metallic mineral

Sample Number: Grid North: N Grid East: E Type: Float/Subcrop? Dimension: 8x14cm
 MD005 UTM: 6794765 N UTM: 424517 E Sample Width: Abundance: common in specific location
 Elevation: 1880 m
 Comments: pinkish brownish in appearance Calcite vein with voids
metallic minerals located around voids in veins, some calcite crystals in veinwork
Qtz is primary mineral in rock

Sample Number: Grid North: N Grid East: E Type: Vein/Outcrop Dimension: 6 samples 6x5cm
 MD006 UTM: 6743367 N UTM: 423376 E Sample Width: Abundance: regular
 Elevation: 1900 m
 Comments: at vein material found within dark fine grain massive rock unit. Veins up to 10cm thick oriented 310/70
Veins contain pyrite, chalcopyrite, galena Breccia material abundant in thicker veins
malachite staining in some sections

Rock Sample Descriptions

Project: FFPProperty: LION/STRAW/RUSTY

Page 1 of

Sample Number: MD007 Grid North: UTM: 6794527 N Grid East: UTM: 424650 E Type: Float Dimension: 2 pieces 7x7cm
Elevation: 1850 m E Sample Width: Abundance: Occasional

Comments: Fin grain glassy blue/grey dark red glassy hexagonal crystals within
sample found within/interspersed with basaltic dikes

Sample Number: MD008 Grid North: UTM: 6791496 N Grid East: UTM: 4194222 E Type: Float Dimension: 10x10cm - 4 pieces
Elevation: m E Sample Width: Abundance: Occasional

Comments: Rustred appearing rock, rich in Qtz. Abundant, blue/green mineral possibly
Fluorapatite

Sample Number: MD009 Grid North: UTM: 6802588 N Grid East: UTM: 416581 E Type: Float Dimension: 9x14cm
Elevation: m E Sample Width: Abundance: Common

Comments: Micaceous Granitoid. Qtz & Feldspar (Plag) present
-sample taken as representative

Sample Number: MD010 Grid North: UTM: 6802639 N Grid East: UTM: 416549 E Type: Dimension: 2 pieces 12x8
Elevation: m E Sample Width: Abundance:

Comments: strongly foliated (some v. mica rich occurrences) Dark green platy w/small gte veins
-representative sample

Sample Number: Grid North: N Grid East: E Type: Dimension:
UTM: N UTM: E Sample Width: Abundance:
Elevation: m

Comments:

Sample Number: Grid North: N Grid East: E Type: Dimension:
UTM: N UTM: E Sample Width: Abundance:
Elevation: m

Comments:

Rock Sample Descriptions

Project: GFPProperty: STRAW

Page 1 of

Sample Number: MD 019
Grid North: UTM: 6791396
Grid East: UTM: 418674
Elevation: m
Type: Float
Sample Width:
Dimension: 2x 10cm x 15cm
Abundance: Common
Comments: Bright Green mineral H=4.5-5 No crystal habit Found in rusty tuffaceous rock
- Fluor Apatite? - Found in Float dominated by granites and chlorite schist QV also present

Sample Number: MD 020
Grid North: UTM: 6790108
Grid East: UTM: 418197
Elevation: m
Type: Float
Sample Width:
Dimension: 15x 8cm 3 pieces
Abundance: Occasional in QV Float
Comments: Olive Green crystals, often found in masses. One radiating mass in sample. H=7
basal fractures, some longitudinal striations. Well formed crystals. Angle between faces 90° - Epidote?
Found in QV boulders containing massive tourmaline. Boulders found within Chlorite Schist

Sample Number: _____
Grid North: _____
Grid East: _____
Elevation: _____
Type: _____
Sample Width: _____
Dimension: _____
Abundance: _____
Comments: _____

Sample Number: _____
Grid North: _____
Grid East: _____
Elevation: _____
Type: _____
Sample Width: _____
Dimension: _____
Abundance: _____
Comments: _____

Sample Number: _____
Grid North: _____
Grid East: _____
Elevation: _____
Type: _____
Sample Width: _____
Dimension: _____
Abundance: _____
Comments: _____

Sample Number: _____
Grid North: _____
Grid East: _____
Elevation: _____
Type: _____
Sample Width: _____
Dimension: _____
Abundance: _____
Comments: _____

Rock Sample Descriptions

Project: FFPProperty: LION/STRAW

Page 1 of

Sample Number: HP028 Grid North: 6793313 ± 9m N Grid East: 0423330 N E Type: outcrop Dimension: 10x10cm
UTM: 6793313 ± 9m N UTM: 0423330 N E Sample Width: Abundance: spotty abundance in outcrop
Elevation: m
Comments: Sample taken from ultramafic or possibly basalt. Sample is olive green mineral 'peppered' w/ amygdules up to ~0.8cm across. Amygdules are filled w/ olive green crystalline mineral.

Sample Number: HP029 Grid North: 6791374 ± 10m N Grid East: 0420223 N E Type: Subcrop Dimension: 10x10cm
UTM: 6791374 ± 10m N UTM: 0420223 N E Sample Width: Abundance: abundant in subcrop/float train
Elevation: m
Comments: Intrusive(?), qtz rich float train/subcrop. Abundant sulphides (chalcopyrite?) up to 5mm across showing good habit (cubic). Abundant green mineral (possibly fluorapatite) and possibly malachite.

Sample Number: Grid North: N Grid East: E Type: Dimension:
UTM: N UTM: E Sample Width: Abundance:
Elevation: m
Comments:

Sample Number: Grid North: N Grid East: E Type: Dimension:
UTM: N UTM: E Sample Width: Abundance:
Elevation: m
Comments:

Sample Number: Grid North: N Grid East: E Type: Dimension:
UTM: N UTM: E Sample Width: Abundance:
Elevation: m
Comments:

Sample Number: Grid North: N Grid East: E Type: Dimension:
UTM: N UTM: E Sample Width: Abundance:
Elevation: m
Comments:

Rock Sample Descriptions

Project

FFP

Property:

STRAW

Page 1 of

Sample Number: Grid North: N Grid East: E Type: outcrop Dimension: 20 x 10 cm
HP051 UTM: 6790612 ± 12m N UTM: 0418573 E Sample Width: 3cm Abundance: abundant in outcrop layer
Elevation: m
Comments: Abundant sulphides in an altered chlorite schist layer ~ 1.5m thick
x 25m long (outcrop). Pyrite crystals (cubic) up to 1cm across. Possible arsenopyrite (very silver colour).
Sulphide 'blebs' up to 2cm across by 4cm long (smaller in sample, but present in outcrop).

Sample Number: Grid North: N Grid East: E Type: Dimension:
UTM: N UTM: E Sample Width: Abundance:
Elevation: m
Comments:

Sample Number: Grid North: N Grid East: E Type: Dimension:
UTM: N UTM: E Sample Width: Abundance:
Elevation: m
Comments:

Sample Number: Grid North: N Grid East: E Type: Dimension:
UTM: N UTM: E Sample Width: Abundance:
Elevation: m
Comments:

Sample Number: Grid North: N Grid East: E Type: Dimension:
UTM: N UTM: E Sample Width: Abundance:
Elevation: m
Comments:

Sample Number: Grid North: N Grid East: E Type: Dimension:
UTM: N UTM: E Sample Width: Abundance:
Elevation: m
Comments:

Rock Sample Descriptions

Project FFP Property: Lion/Straw

Page 1 of

Sample Number: Grid North: N Grid East: E Type: outcrop Dimension: 15cm x 10cm
 PS-075 UTM: 6794122 N UTM: 0421964 E Sample Width: Abundance: very
 Elevation: m

Comments: 1 sample of DF unit is very siliceous (rhyolite??)
 1 sample of very altered (hydrothermal?) rock weathers orange-brown & recessive form
 coarse sand, has biotite, feldspar, qtz, possible altered granite. Limonite pods are calcareous
 limonite pods.

Sample Number: Grid North: N Grid East: E Type: outcrop Dimension: 10cm x 10cm
 PS-076 UTM: 6794692 N UTM: 0421771 E Sample Width: Abundance: very
 Elevation: m

Comments: siliceous (quartzite?) with small (1cm) veinlets with sulphides
 (arsenopyrite), light brown-orange weathering. Taken right @ contact with DF.

Sample Number: Grid North: N Grid East: E Type: outcrop Dimension: 10cm x 15cm
 PS-077 UTM: 6793871 N UTM: 0420770 E Sample Width: Abundance: 30m wide zone.
 Elevation: m

Comments: very altered pink-brown with white pods, calcareous, weathers
 as coarse sand. Crumbly

Sample Number: Grid North: N Grid East: E Type: float Dimension: 10cm x 10cm
 PS-078 UTM: 6793651 N UTM: 0420786 E Sample Width: Abundance: train. 30m x 5m
 Elevation: m

Comments: possibly phlogopite schist, with quartz vein up to 1.5m

Sample Number: Grid North: N Grid East: E Type: outcrop Dimension: 5cm x 10cm
 PS-079 UTM: 6794089 N UTM: 0423639 E Sample Width: Abundance: zone
 Elevation: m

Comments: zone of alteration within vesicular basalt. Very rusty weathering
 calcareous, limonitic veinlets

Sample Number: Grid North: N Grid East: E Type: float Dimension: 20cm x 10cm
 PS-080 UTM: 6791383 N UTM: 0419696 E Sample Width: Abundance: 5 pieces in 2m x 2m area
 Elevation: m

Comments: -tourmaline needles up to 4cm x 4mm in chlorite schist
 -also sample of bird's foot tourmaline in chlorite schist

Rock Sample Descriptions

Project: FFP

Property: Lion/straw

Page 1 of

Sample Number: PS-081 Grid North: UTM: 6791418 N Grid East: UTM: 0419685 E Type: outcrop. Dimension: 15cm x 10cm
 Elevation: m Sample Width: Abundance: very
 Comments: - 1 sample of massive tourmaline band up to 12cm thick
 - 1 sample of chlorite schist with magnetite crystals
 - 1 sample of possible phlogopite schist

Sample Number: PS-082 Grid North: UTM: 6791434 N Grid East: UTM: 0419565 E Type: outcrop. Dimension: 10cm x 5cm
 Elevation: m Sample Width: Abundance: very
 Comments: intrusive dyke, possibly aplite? white micas up to 3mm
 across, one surface has chlorite schist, red crystals $\Rightarrow$ garnet?

Sample Number: PS-083 Grid North: UTM: 6791149 N Grid East: UTM: 0419446 E Type: outcrop. Dimension: 15cm x 10cm
 Elevation: m Sample Width: Abundance: very
 Comments: recessive pink-brown weathering, micaceous schist
 very soft, has an altered look, almost lenticular, waxy light green - yellow
 tinge on fresh surface

Sample Number: PS-084 Grid North: UTM: 6790807 N Grid East: UTM: 0419939 E Type: outcrop. Dimension: 15cm x 10cm
 Elevation: m Sample Width: Abundance: 3-10m x 5m outcrops
 Comments: possibly fluor-apatite in siliceous ground mass. blue-green
 massive semi-opaque mineral in siliceous ground mass ground mass weathers very
 rusty orange

Sample Number: PS-085 Grid North: UTM: 6803346 N Grid East: UTM: 0414340 E Type: outcrop. Dimension: 15cm x 10cm
 Elevation: m Sample Width: Abundance: 1 dyke in gully
 Comments: aplite? or qtz dyke cutting chlorite schist, located in gully
 tourmaline in dyke, massive with dendritic pattern on surface

Sample Number: PS-086 Grid North: UTM: 6803617 N Grid East: UTM: 0414535 E Type: float. Dimension: 15cm x 10cm
 Elevation: m Sample Width: Abundance: moderate float
 Comments: biotite rich chlorite schist? Bird's foot tourmaline up to
 4 cm long. Also sample of serpentinized rock with long (2cm) light green prismatic
 crystals, hardness $\approx$ 5

Rock Sample Descriptions

Project: FFP Property: Straw

Page 1 of

Sample Number: Grid North: N Grid East: E Type: float Dimension: _____
PS-104 UTM: 6789771 N UTM: 0417968 E Sample Width: Abundance: abundant in area
Elevation: m
Comments: chlorite schist altered to phlogopite around quartz
vein. Bird's foot tourmaline growing out of quartz & into phlogopite

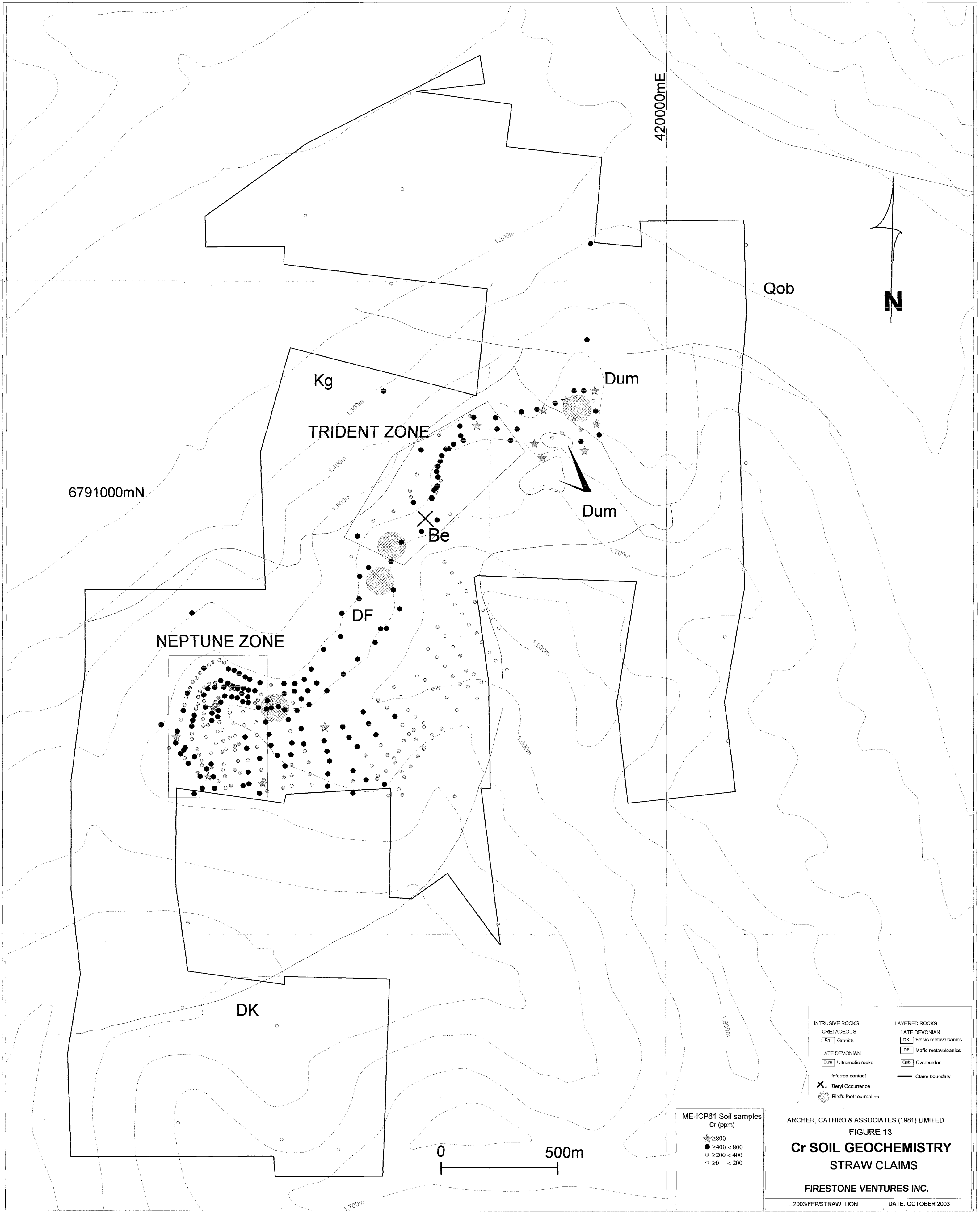
Sample Number: Grid North: N Grid East: E Type: float Dimension: 2m
PS-105 UTM: 6790111 N UTM: 0417956 E Sample Width: 20cm Abundance: moderate
Elevation: m
Comments: "tourmaline schist" - altered chlorite schist or possibly phlogopite
with massive tourmaline up to 12cm thick. Aplite? or quartz vein also

Sample Number: Grid North: N Grid East: E Type: outcrop Dimension: 10cm
PS-106 UTM: 6791127 N UTM: 0419033 E Sample Width: 1m Abundance: moderate
Elevation: m
Comments: altered chlorite schist with possible fluorapatite, fluorapatite
seems to be harder than 5.5, outcrop also had quartz vein with tourmaline

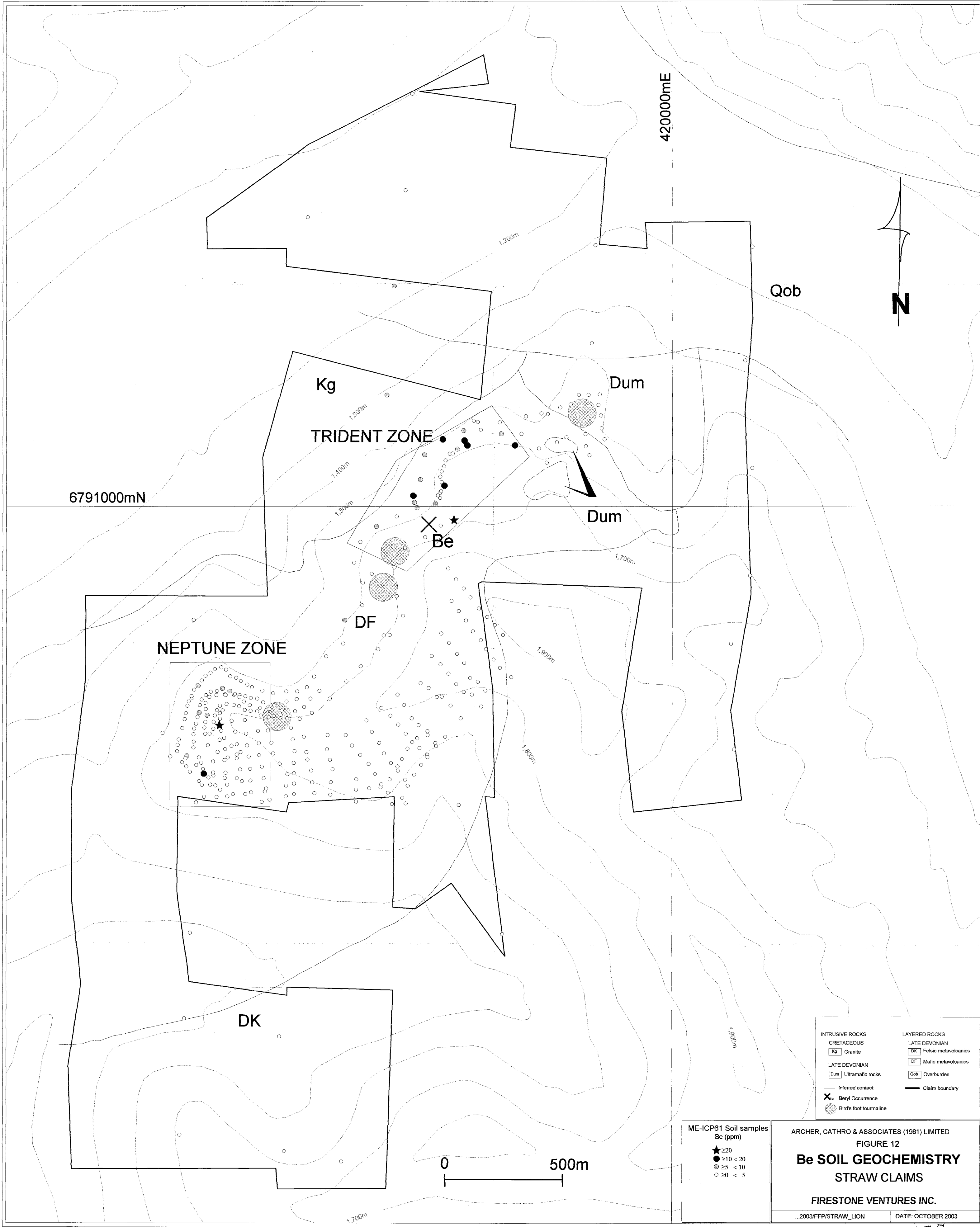
Sample Number: Grid North: N Grid East: E Type: outcrop Dimension: 30cm x 15cm
PS-107 UTM: 6791130 N UTM: 0419010 E Sample Width: 3m x 10cm Abundance: 20 crystals over 3m length
Elevation: m
Comments: pale dull green-blue beryl crystals in pegmatite with
tourmaline. Max beryl crystal 4cm x 1cm, basal fracturing in all crystals, tourmaline
growing on/in crystal, 150m from main body of intrusion

Sample Number: Grid North: N Grid East: E Type: outcrop Dimension: 3m x 12.5m
PS-108 UTM: 6790983 N UTM: 0419032 E Sample Width: chip Abundance: abundant
Elevation: m
Comments: chip sample of possible fluorapatite, probably brucite in
altered chlorite schist, hardness $\approx 2.5 \rightarrow 3$, light blue green colour

Sample Number: Grid North: N Grid East: E Type: Dimension: _____
UTM: N UTM: E Sample Width: Abundance: _____
Elevation: m
Comments: _____



094457



ME-ICP61 Soil samples
Be (ppm)

★ ≥20
● ≥10 < 20
⊙ ≥5 < 10
○ ≥0 < 5

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
FIGURE 12
**Be SOIL GEOCHEMISTRY
STRAW CLAIMS**

FIRESTONE VENTURES INC.

...2003/FFP/STRAW_LION DATE: OCTOBER 2003

Q125698

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016 - 510 West Hastings Street
Vancouver, B.C. V6B 1L8

Telephone: 604-688-2568

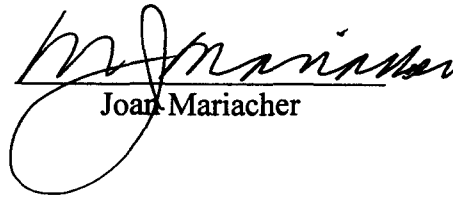
Fax: 604-688-2578

AFFIDAVIT

094457

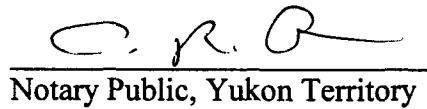
I, Joan Mariacher, of Vancouver, B.C. make oath and say:

That to the best of my knowledge the attached Statement of
Expenditures for exploration work on the Straw 1-43 and Lion 1-58
mineral claims on Claim Sheet 105G/1, 2, 7 and 8 is accurate.


Joan Mariacher

Sworn before me at Vancouver, B.C.

this 25TH day of June, 2004


Notary Public, Yukon Territory

094457

Statement of Expenditures
Straw 1-43 and Lion 1-58 Mineral Claims
June 10, 2004

Labour

D. Eaton – geologist – May to August – 25 1/2 hours at \$60/hr	\$ 1,637.10
P. Sack – field assistant – July 16 - 24, 27, August 14 – 25, 31 - 23 days at \$288/day	7,087.68
D. Turner – geologist – July 17 – 24, 27 – 9 days at \$288/day	2,773.44
M. Dumala – geologist – July 16 - 24, 26, 27, August 14 – 25, 31 – 23 days at \$256/day	6,300.16
N. Bazowski – field assistant – July 24, 27, August 14 – 26, 15 days at \$224/day	3,595.25
H. Preto – field assistant – July 17- 24, August 14 – 20 – 15 days at \$224/day	3,595.25
J. Mariacher – July and August – 40 hours at \$55/hr	<u>2,354.00</u>
	27,342.88

Expenses

Field room and board – 87 1/3 mandays at \$115/day	10,746.33
Kluane Airways – 5 hours Hughes 500 at \$810/hr plus fuel	4,841.74
ALS Chemex	<u>8,353.67</u>
	23,941.74
	<u>\$51,284.62</u>

May to June?
D. Eaton

In Account With

0125698

Project

FIRESTONE FINLAYSON PROJECT

Date

JULY 31, 2003

LABOUR

Field

D. EATON - 26 Hrs AT 60/Hr 1560.00
 B. WENBZYNOWSKI - 2 1/4 Hrs AT 60/Hr 150.00

P. SACK - 12 3/4 DAYS AT 288/DAY 3672.00
 D. TURNER - 20 1/4 DAYS AT 288/DAY 5904.00
 M. DUMALA - 12 DAYS AT 256/DAY 3072.00
 N. BAZDUSKI - 14 DAYS AT 224/DAY 3136.00
 H. PRETO - 16 DAYS AT 224/DAY 3584.00

Accounting and Expediting J. Mariacher-

39 1/4 hrs at \$ 55/hr

2158.75 23236.75

OTHER SERVICES

Room & Board in Whitehorse 8 days at \$90/day 720.00

Field equipment from AC stock 237.95 + 176.40 + 18.31 + 75 1/4 DAYS AT 20/DAY = 1507.00 1887.70

Printing Photocopies 185 @ .15 27.75

Rentals from AC 20 DAYS JULY - 3 10mm AT 16/DAY + 2 UV LAMP AT 2/DAY 1160.00

+ SAT PHONE AT 30/DAY + 50 X 11 AT 10/DAY 96.95

LOOMIS COURIER - 7 AT 13.85 3887.40

EXPENSES

Petty Cash 37.03 37.03

Telephone 23.18 23.18

ATLAS DEV CORP 750.00

INTEGRAPHICS - 12.00 + 52.42 64.42

ROSS RIVER SERVICE 24 73.93

CORPORATE CARRIERS - 9.89 + 20.80 30.69

KLVANE AIRWAYS 10 950.50

SPORTS LODGE 95.40

MACPHERSON RENTALS 65.54

RIVERDALE SUPER A 791.52

NORCAN LEASING 543.81

MILLS BASICS 5.02

MAR'S FIREWOOD 3.72

HOME HARDWARE 17.77

JOAN M EXPENSES - 170.56 01 + 198.27 03 368.83 13818.36

MANAGEMENT 6% on Expenses
on Field A/C829.10
199.62 1028.72
41971.23

GST (R100247867) 7% on 41971.23

2937.99

E=GST exempt

44909.22

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

9625698

In Account With

Project

FIRESTONE FINLAYSON PROJECT

Date

AUGUST 1 - SEPTEMBER 30, 2003

LABOUR			
Field	A. ARCHER - 2 HRS AT 66/HRL	132.00	
	D. EATON - 17 HRS AT 60/HRL	1020.00	
	B. WIENIOWSKI - 14 HRS AT 60/HRL	840.00	
	V. JACK - 18 1/2 DAYS AT 288/DAY	5378.00	
	M. DUMALA - 1/2 DAY EOT AT 288/DAY	144.00	
	- 17 1/2 DAYS AVG AT 256/DAY	4480.00	
	N. BAZOWSKI - 13 DAYS AT 224/DAY	2912.00	
	S. EATON - 1/2 DAY AT 224/DAY	112.00	
	A. GILLIS - 1/2 DAY AT 224/DAY	112.00	
	H. PRETO - 7 DAYS AT 224/DAY	1568.00	
Accounting and Expediting J. Mariacher - 71 1/4 hrs at \$ 55/hr		3918.75	20566.75
OTHER SERVICES			
Room & Board in Whitehorse	4 1/2 days at \$90/day	405.00	
Field equipment from AC stock	54.69 + 205.23 + 195.43 + 55 MAN/DAYS AT 10/DAY = 1100	1559.35	
Printing	Photocopies 897 @ .15	134.55	
Rentals from AC AUGUST 14 - SEPTEMBER 3 - 3 LORRY AT 16/DAY + 2 UV AT 10/DAY		1218.00	
+ 5 AT PLANE AT 20/DAY + 50 YH AT 10/DAY		22.20	3344.60
LOOMIS COURIER - 2 AT 13.85			
EXPENSES			
Petty Cash	26.25	26.25	
Telephone	40.54 + 63.14 + 21.48 + 30.81 + 36.26 + 11.21 + 23.97	207.36	
GREENWOOD	149.90 + 36.76	186.66	
KLUANE AIRWAY	2353. + 2262.50	4615.50	
ATLAS DEVELOP	1736.34 + 125. + 222.22	2083.56	
HELL DYNAMICS		1919.80	
JOAN M. XENKES	83.7401 + 419.8103 + 90.2701 + 73.0903	666.91	
V. JACK, N. BAZOWSKI, H. PRETO - 50 EACH DEVEL BONUS		150.00	
D. EATON XENKES	8.0303 + 82.0103	90.04	
DHL EXPRESS		12.56	
INTEGRADIGS		8.02	
MACHHEON RENTALS	50.40 + 0.8035 + 151.7704	202.97	
VANDOVER STAFFING		100.80	
NOLAN LETSING		126.25	10496.63
MANAGEMENT 6% on Expenses		629.80	
on Field A/C		748.99	1378.79
			35786.77
GST (R100247887) 7% on	35786.77		2505.07

E=GST exempt

38,291.84



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

To: FFP
C/O ARCHER CATHRO & ASSOCIATES (1981)
LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page 1 of 1

INVOICE NUMBER: 1037476

BILLING INFORMATION

Certificate: **VA03027931**
Account: **FFP**
Date : **06-Aug-2003**
Project : Lion
P.O. No.:
Quote:
Terms: **Due on Receipt**

C1

Comments:

ANALYSED FOR			UNIT	
QUANTITY	CODE	DESCRIPTION	PRICE	TOTAL
1	BAT-01	Administration Fee	22.50	22.50
28	PREP-41	Dry, Sieve (180 um) Soil	1.88	52.64
7.64	PREP-41	Wt. Charge (kg) - Dry, Sieve (180 um) Soil	0.56	4.28
28	ME-MS61	47 element four acid ICP-MS	13.50	378.00
28	GEO-4A01	Four Acid Dig - ME-MS61	3.00	84.00

SUBTOTAL (CAD) \$ 541.42

GST R100938885 \$ 37.90

TOTAL PAYABLE (CAD) \$ 579.32

To: FFP
ATTN: ACCOUNTS PAYABLE
C/O ARCHER CATHRO & ASSOCIATES (1981)
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VANCOUVER BC V6B 1L8

Please Remit Payments to :

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North Vancouver BC V7J 2C1

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

To: FFP
C/O ARCHER CATHRO & ASSOCIATES (1981)
LIMITED
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Page 1 of 1

INVOICE NUMBER: 1037547

BILLING INFORMATION

Certificate: **VA03027934**
Account: **FFP**
Date : **06-Aug-2003**
Project : Lion/Straw
P.O. No.:
Quote:
Terms: **Due on Receipt**

C1

Comments:

		ANALYSED FOR		UNIT	
QUANTITY	CODE	-	DESCRIPTION	PRICE	TOTAL
1	BAT-01		Administration Fee	22.50	22.50
15	PREP-41		Dry, Sieve (180 um) Soil	1.88	28.20
3.70	PREP-41		Wt. Charge (kg) - Dry, Sieve (180 um) Soil	0.56	2.07
15	ME-ICP41		34 Element Aqua Regia ICP-AES	4.13	61.95
15	GEO-AR01		Aqua regia digestion	1.88	28.20
15	ME-MS61		47 element four acid ICP-MS	13.50	202.50
15	GEO-4A01		Four Acid Dig - ME-MS61	3.00	45.00
1	ASY-AR01		Assay Aqua Regia Digestion	3.00	3.00
1	Cu-AA46		Ore grade Cu - aqua regia/AA	2.25	2.25
1	ASY-4ACID		Assay four acid digestion	3.75	3.75
1	Cu-AA62		Ore grade Cu - four acid / AAS	2.25	2.25

SUBTOTAL (CAD) \$ 401.67

GST R100938885 \$ 28.12

TOTAL PAYABLE (CAD) \$ 429.79

To: **FFP**
ATTN: ACCOUNTS PAYABLE
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Page 1 of 1

INVOICE NUMBER: 1037488

BILLING INFORMATION

Certificate: **VA03027933**
Account: **FFP**
Date : **06-Aug-2003**
Project : Straw
P.O. No.:
Quote:
Terms: **Due on Receipt**

C1

Comments:

ANALYSED FOR			UNIT	
QUANTITY	CODE	DESCRIPTION	PRICE	TOTAL
64	PREP-41	Dry, Sieve (180 um) Soil	1.88	120.32
19.22	PREP-41	Wt. Charge (kg) - Dry, Sieve (180 um) Soil	0.56	10.76
64	ME-MS61	47 element four acid ICP-MS	13.50	864.00
64	GEO-4A01	Four Acid Dig - ME-MS61	3.00	192.00

To: FFP
ATTN: ACCOUNTS PAYABLE
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SUBTOTAL (CAD) \$ 1,187.08
GST R100938885 \$ 83.10
TOTAL PAYABLE (CAD) \$ 1,270.18

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Page 1 of 1

INVOICE NUMBER: 1038128

BILLING INFORMATION

Certificate: **VA03028589**
Account: **FFP**
Date : **10-Aug-2003**
Project : **Straw**
P.O. No.:
Quote:
Terms: **Due on Receipt**

C1

Comments:

QUANTITY	ANALYSED FOR		UNIT PRICE	TOTAL
	CODE	DESCRIPTION		
16	PREP-41	Dry, Sieve (180 um) Soil	1.88	30.08
4.64	PREP-41	Wt. Charge (kg) - Dry, Sieve (180 um) Soil	0.56	2.60
16	ME-MS61	47 element four acid ICP-MS	13.50	216.00
16	GEO-4A01	Four Acid Dig - ME-MS61	3.00	48.00

To: **FFP**
ATTN: ACCOUNTS PAYABLE
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SUBTOTAL (CAD) \$ 296.68
GST R100938885 \$ 20.77
TOTAL PAYABLE (CAD) \$ 317.45

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Page 1 of 1

INVOICE NUMBER: 1038134

BILLING INFORMATION

Certificate: **VA03028587**
Account: **FFP**
Date : **10-Aug-2003**
Project : **Lion**
P.O. No.:
Quote:
Terms: **Due on Receipt**

C1

Comments:

ANALYSED FOR			UNIT	
QUANTITY	CODE	DESCRIPTION	PRICE	TOTAL
2	PREP-41	Dry, Sieve (180 um) Soil	1.88	3.76
0.44	PREP-41	Wt. Charge (kg) - Dry, Sieve (180 um) Soil	0.56	0.25
2	ME-MS61	47 element four acid ICP-MS	13.50	27.00
2	GEO-4A01	Four Acid Dig - ME-MS61	3.00	6.00

SUBTOTAL (CAD) \$ 37.01

GST R100938885 \$ 2.59

TOTAL PAYABLE (CAD) \$ 39.60

To: **FFP**
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North Vancouver BC V7J 2C1 Canada
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Page 1 of 1

INVOICE NUMBER: 1042816

BILLING INFORMATION

Certificate: **VA03032308**
Account: **FFP**
Date : **08-Sep-2003**
Project : Straw ↗
P.O. No.:
Quote:
Terms: **Due on Receipt**

C1

Comments:

ANALYSED FOR			UNIT	
QUANTITY	CODE	DESCRIPTION	PRICE	TOTAL
1	BAT-01	Administration Fee	22.50	22.50
141	PREP-41	Dry, Sieve (180 um) Soil	1.88	265.08
42.96	PREP-41	Wt. Charge (kg) - Dry, Sieve (180 um) Soil	0.56	24.06
141	ME-MS61	47 element four acid ICP-MS	13.50	1,903.50
141	GEO-4A01	Four Acid Dig - ME-MS61	3.00	423.00

SUBTOTAL (CAD) \$ 2,638.14

GST R100938885 \$ 184.67

TOTAL PAYABLE (CAD) \$ 2,822.81

To: **FFP**
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Page 1 of 1

INVOICE NUMBER: 1042818

BILLING INFORMATION

Certificate: **VA03032309**

Account: **FFP**

Date : **08-Sep-2003**

Project : Straw

P.O. No.:

Quote:

Terms: **Due on Receipt**

C1

Comments:

ANALYSED FOR			UNIT	
QUANTITY	CODE	DESCRIPTION	PRICE	TOTAL
115	PREP-41	Dry, Sieve (180 um) Soil	1.88	216.20
23.84	PREP-41	Wt. Charge (kg) - Dry, Sieve (180 um) Soil	0.56	13.35
115	ME-MS61	47 element four acid ICP-MS	13.50	1,552.50
115	GEO-4A01	Four Acid Dig - ME-MS61	3.00	345.00

SUBTOTAL (CAD) \$ 2,127.05

GST R100938885 \$ 148.89

TOTAL PAYABLE (CAD) \$ 2,275.94

To: **FFP**
ATTN: ACCOUNTS PAYABLE
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Page 1 of 1

INVOICE NUMBER: 1043081

BILLING INFORMATION

Certificate: **VA03033023**

Account: **FFP** 

Date : **08-Sep-2003**

Project : Straw

P.O. No.:

Quote:

Terms: **Due on Receipt**

C1

Comments:

ANALYSED FOR			UNIT	
QUANTITY	CODE	DESCRIPTION	PRICE	TOTAL
1	BAT-01	Administration Fee	22.50	22.50
30	PREP-41	Dry, Sieve (180 um) Soil	1.88	56.40
7.52	PREP-41	Wt. Charge (kg) - Dry, Sieve (180 um) Soil	0.56	4.21
30	ME-MS61	47 element four acid ICP-MS	13.50	405.00
30	GEO-4A01	Four Acid Dig - ME-MS61	3.00	90.00

SUBTOTAL (CAD) \$ 578.11

GST R100938885 \$ 40.47

TOTAL PAYABLE (CAD) \$ 618.58

To: **FFP**
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KLUANE AIRWAYS LTD.

BOX 31489
WHITEHORSE, YUKON Y1A 6K8

Archer Cathro
CHARTERER

07/24/07				
INVOICE DATE				
500				
AIRCRAFT TYPE		REGISTRATION		

N2 5150

BILLING ADDRESS

PHONE: _____

FROM	MILES	HOURS	REMARKS/PASSENGER/CARGO
ANLAYSON			
TO Stran lion		.3	Nick in
Patruks camp			
Finbyson		.4	Hazards
			+ rocks
			out

SPECIAL INSTRUCTIONS	.7 @ 810 PER HOUR	567.00
	@ PER MILE	
	WAITING TIME @ / HR	
	FUEL 20 @ .95 / GAL.	66.50
	PILOT'S EXPENSES	
	OTHER	
		637.50
	SUB-TOTAL	66.50
	GST	44.34
	2% PER MONTH CHARGES ON ACCOUNTS OVER 30 DAYS	
	TOTAL \$	677.84
CHARTERER'S SIGNATURE	WHITE - OFFICE YELLOW - OFFICE COPY RECORD PINK - CUSTOMER COPY GOLD - BASE COPY (Stays in book.)	
PILOT'S SIGNATURE	WILLOW PRINTERS LTD.	

BOX 31489
WHITEHORSE, YUKON Y1A 6K8

Archer Cuthro

CHARTERER

BILLING ADDRESS

PHONE:

07 2 0 03				
INVOICE DATE				
H500				
AIRCRAFT TYPE		REGISTRATION		

No 5146

FROM	MILES	HOURS	REMARKS/PASSENGER/CARGO
Bills set out			
TO Patrick		.2	3 pgs
Set out		~~.2~~	
FFB			
No pickup			

SPECIAL INSTRUCTIONS		
Patricks Camp	.4 @ 810 PER HOUR	324.00
	@ PER MILE	
	WAITING TIME @ / HR	
Bill 9pm SAT phone	FUEL 40 @ .95 / GAL.	38.00
	PILOT'S EXPENSES	
	OTHER	
Straw lion		
Camp Patrick's	SUB-TOTAL	362.00
CHARTERER'S SIGNATURE	GST	25.34
	2% PER MONTH CHARGES ON ACCOUNTS OVER 30 DAYS	TOTAL \$ 387.34
PILOT'S SIGNATURE	WHITE - OFFICE	
	YELLOW - OFFICE COPY RECORD	
	PINK - CUSTOMER COPY	
	GOLD - BASE COPY (Stays in book.)	

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BOX 31489
WHITEHORSE, YUKON Y1A 6K8

Archives Catho

CHARTERER

BILLING ADDRESS

PHONE:

0728107	
INVOICE DATE	
14500	
AIRCRAFT TYPE	REGISTRATION

№ 5015

FROM	MILES	HOURS	REMARKS/PASSENGER/CARGO
TO <i>Finlayson</i>		<i>.3</i>	
<i>5</i>		<i>.2</i>	<i>internal</i>
<i>4</i>		<i>.5</i>	<i>internal</i>
		<i>.6</i>	<i>net</i>
		<i>.6</i>	<i>net</i>
		<i>.4</i>	<i>internal</i>

SPECIAL INSTRUCTIONS	2.6 @ 910 PER HOUR	2106.
52200/100	@ PER MILE	
to	WAITING TIME @ / HR	
4C/FFP	FUEL 260 @ .95 / GAL.	247
Dotricks	PILOT'S EXPENSES	
Camp	OTHER	
CHARTERER'S SIGNATURE	~~49~~ SUB-TOTAL	2757
	GST	164.7
	2% PER MONTH CHARGES ON ACCOUNTS OVER 30 DAYS	TOTAL \$ 2517.7
PILOT'S SIGNATURE	WHITE - OFFICE	
	YELLOW - OFFICE COPY RECORD	
	PINK - CUSTOMER COPY	
	GOLD - BASE COPY (Stays in book.)	

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081201013	
INVOICE DATE	
17500	
AIRCRAFT TYPE	REGISTRATION

Archer Cathro

CHARTERER

No 5156

BILLING ADDRESS

PHONE:

FROM	MILES	HOURS	REMARKS/PASSENGER/CARGO
Finlayson			
TO Stron Linn		.4	Groceries in
Patricks Camp			
Finlayson		.4	Honabul out
FFP			

SPECIAL INSTRUCTIONS	.8 @ \$10 PER HOUR	698.00
Linn/Stron	@ PER MILE	
WAITING TIME @ / HR		
FUEL 80. @ .95 & 4% GAL.		76.00
PILOT'S EXPENSES		
OTHER		
	SUB-TOTAL	724.00
	GST	50.68
2% PER MONTH CHARGES ON ACCOUNTS OVER 30 DAYS	TOTAL \$	774.68
WHITE - OFFICE YELLOW - OFFICE COPY RECORD PINK - CUSTOMER COPY GOLD - BASE COPY (Stays in book.)		

CHARTERER'S SIGNATURE

PILOT'S SIGNATURE

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KLUANE AIRWAYS LTD.

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0811403	
INVOICE DATE	
17500	FIXED
AIRCRAFT TYPE	REGISTRATION

Archer Cathro

CHARTERER

No 5202

BILLING ADDRESS

PHONE:

FROM	MILES	HOURS	REMARKS/PASSENGER/CARGO
FIRE			
TO PATS CAMP			4 LOADS, 2 INSIDE
3 TRIPS			2 SLING
Finlayson		3.6	
FFP/4C			

SPECIAL INSTRUCTIONS	3.6 @ \$10 PER HOUR	2916.00
Linn/Stron	@ PER MILE	
WAITING TIME @ / HR		
FUEL 360 @ .95 / GAL.		342.00
PILOT'S EXPENSES		
OTHER		
	SUB-TOTAL	3258.00
	GST	228.06
2% PER MONTH CHARGES ON ACCOUNTS OVER 30 DAYS	TOTAL \$	3486.06
WHITE - OFFICE YELLOW - OFFICE COPY RECORD PINK - CUSTOMER COPY GOLD - BASE COPY (Stays in book.)		

CHARTERER'S SIGNATURE

PILOT'S SIGNATURE

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