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**ASSESSMENT REPORT**

094512

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

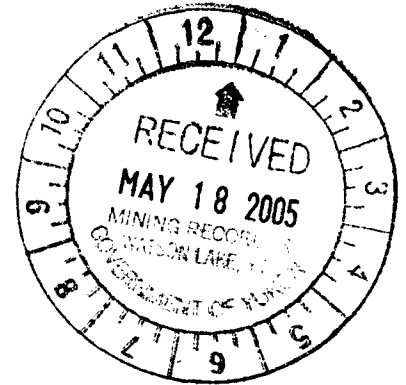
for

**FIRESTONE VENTURES INC.**

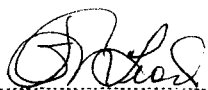
by

William A. Wengzynowski, P Eng.

May 2005



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Work No. QL 25766



.....  
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. The Straw 1-43 claims were the focus of exploration in 2004.

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 Tsa da Glisza (formerly 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 Tsa da Glisza 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. The zones are referred to as the Trident, Neptune and Davy Jones. Beryl crystals and coincident beryllium (Be) – chromium (Cr) soil geochemical anomalies are associated with 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. Although no emerald was discovered on the Straw claims in 2003, the mineralogical and geochemical features identified are characteristic of emerald bearing areas at Tsa da Glisza and are consistent with the exploration model, especially the presence of pale, non-coloured beryl at the Trident zone.

In 2004, saturation prospecting was conducted at the Trident Zone following the beryl discovery in 2003. No additional mineralization was identified. Most of the 2004 exploration focussed on detailed pit grid sampling in the vicinity of the Neptune zone. One hundred and sixty-five, 20 kg samples were collected from four grids targeting recessive tourmalinized and phlogopite altered schist horizons containing abundant tourmaline bearing quartz vein float centred on strongly elevated and coincident Be-Cr geochemical anomalies.

This material was washed through a series of graduated screens (10 mm, 5 mm, 2 mm) and visually assessed on a white board. No beryl was identified through this process. Soil samples collected from the pits verified the presence of elevated emerald indicator elements Be (to 15.85 ppm), Cr (to 973 ppm), W (to 39.3 ppm) and Sn (to 33.2 ppm). Copper and cobalt are also significantly elevated in parts of the pit grid to maximum values of 1800 ppm and 223 ppm, respectively.

Although the geological setting, mineralogy and geochemistry at various parts of the Straw property are highly prospective for emerald, the grid area that was tested by pit processing in 2004 did not yield any beryl. This negative result is disappointing, because the pits explored the most easily accessible and most obvious emerald targets but it does not preclude the possibility that emerald could be present elsewhere on the property. To completely eliminate the possibility of emerald, much larger volumes of material would have to be processed which would involve considerable expense and likely necessitate the use of heavy equipment.

## 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 2004 program conducted by Archer, Cathro & Associates (1981) Limited on the Straw claims and compares them to results from other properties in southeastern Yukon that are also being explored for emerald.

Work at the Straw claims was conducted from a 3 to 4 person fly camp on the property from August 7 to September 2. It consisted of prospecting, pit grid processing and soil sampling. All work was supervised by the author and his Statement of Qualifications appears in Appendix I.

## PROPERTY, LOCATION AND CLAIM DATA

The Straw claims consists of 43 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	January 8, 2013*
Lion 1-58	YB93714-YB93771	January 8, 2009

\*Expiry date includes 2004 work that has been filed for assessment credit but not yet accepted.

## ACCESS AND GEOMORPHOLOGY

The 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 2004, 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 and ground access is 6 km to the northwest on the Tsa da Glisza property. 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 Tsa da Glisza.

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

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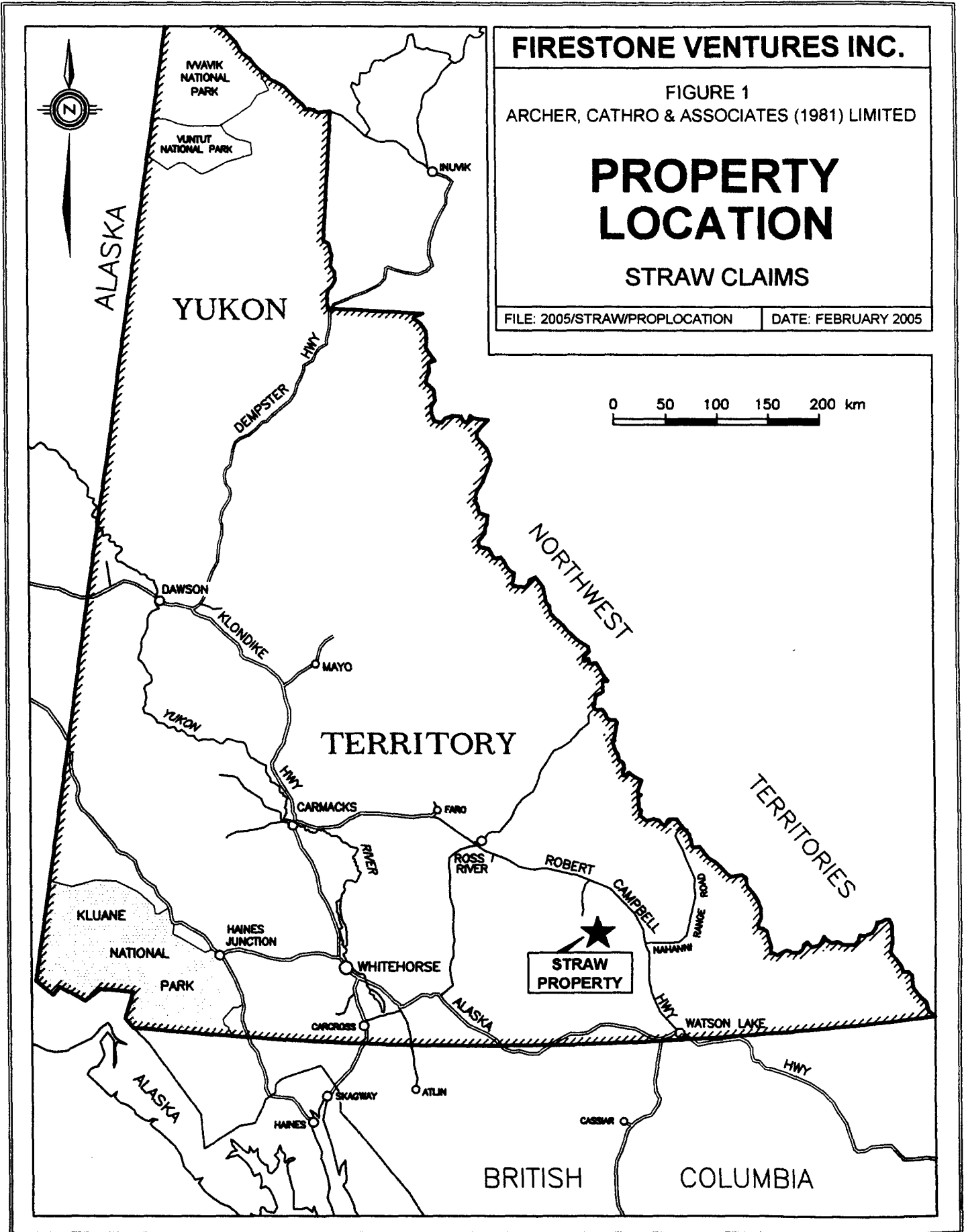
FIGURE 1  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**PROPERTY  
LOCATION**

**STRAW CLAIMS**

FILE: 2005/STRAW/PROPLOCATION

DATE: FEBRUARY 2005

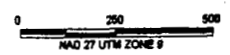
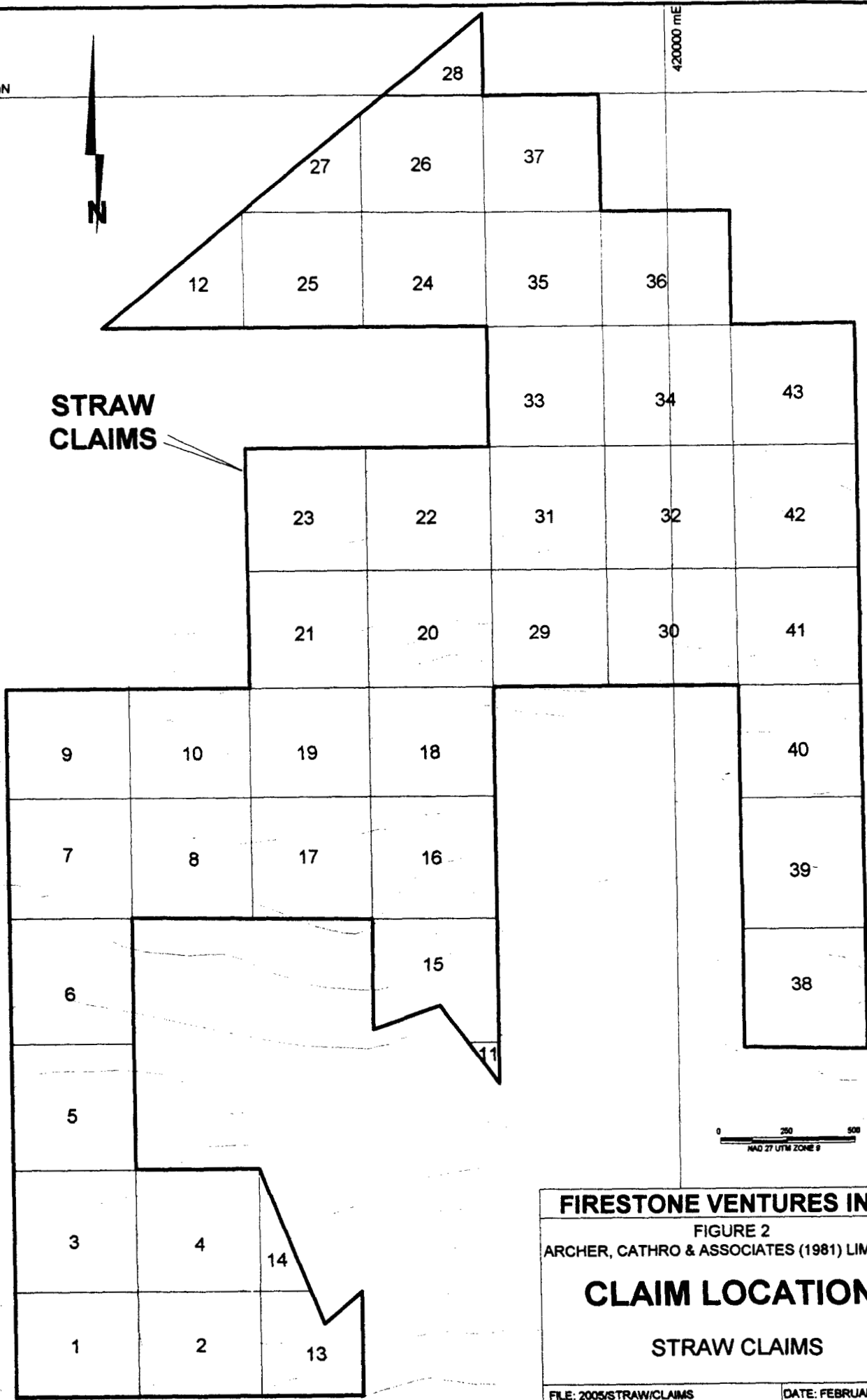


6793000 mN

420000 mE



**STRAW CLAIMS**



**FIRESTONE VENTURES INC.**  
 FIGURE 2  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**CLAIM LOCATION**  
 STRAW CLAIMS  
 FILE: 2005/STRAW/CLAIMS      DATE: FEBRUARY 2005

Pelly Mountain 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 1960s 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 Tsa da Glisza 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 Tsa da Glisza in 1999 and identified a number of emerald showings in outcrop and float over a 950 by 350 m area. In 2000 True North purchased the Tsa da Glisza 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 Tsa da Glisza (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, serpentized 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).

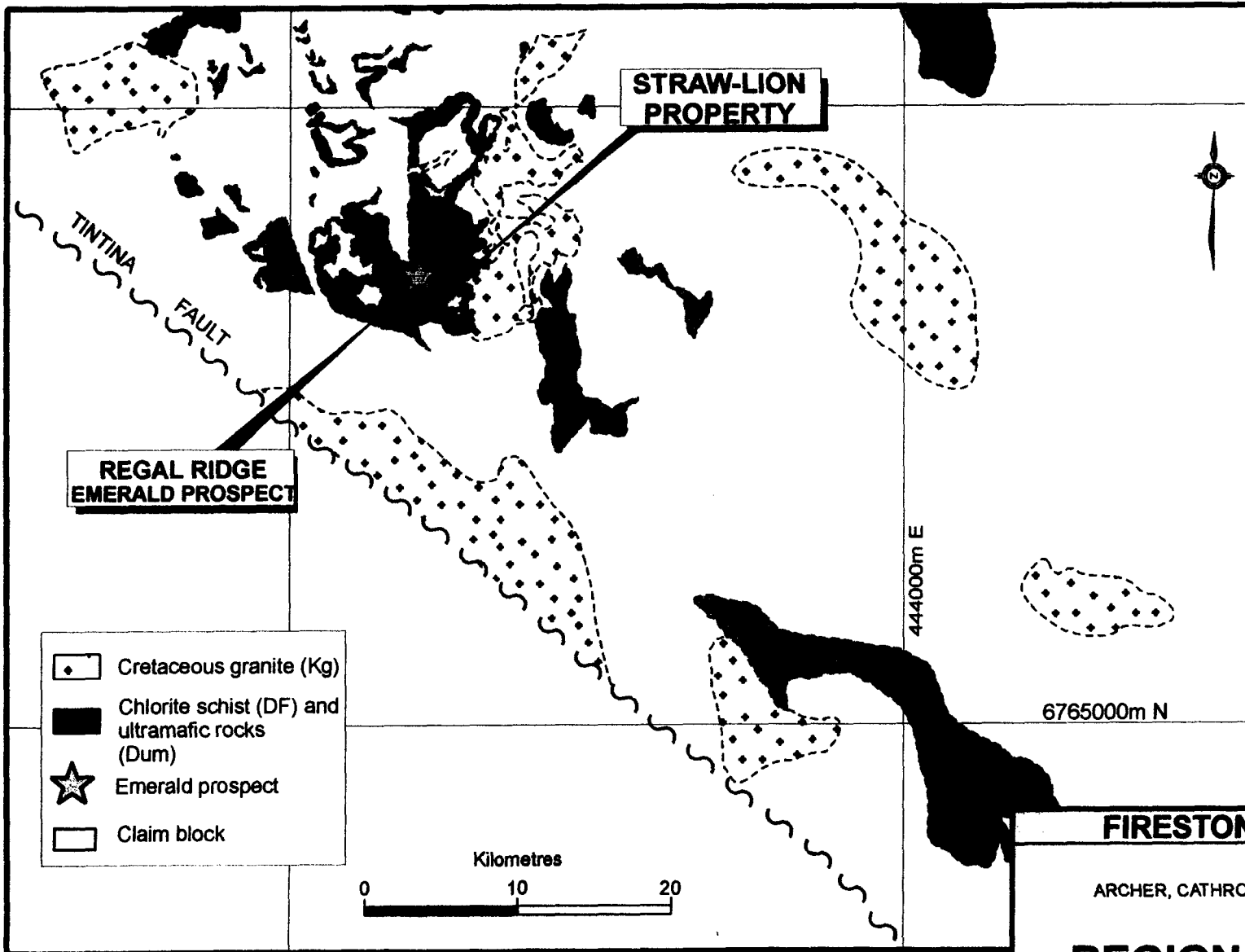
### **Property Geology**





The Straw claims are underlain by two Late Devonian stratified units (DF and DK), Late Devonian ultramafic sills (unit Dum) 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 following paragraphs contain brief descriptions of the various lithologies from oldest to youngest.

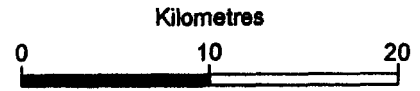
**Unit DF** is the Fire Lake mafic metavolcanics. These rocks are predominantly chlorite schist but grade locally to biotite schist and occasionally to golden muscovite schist. They range from weakly to strongly foliated and form most of the cliffs on the property.

**Unit DK** is correlated to the Kudze 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 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



-  Cretaceous granite (Kg)
-  Chlorite schist (DF) and ultramafic rocks (Dum)
-  Emerald prospect
-  Claim block



After Murphy, et al, 2003

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FIGURE 3  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**REGIONAL GEOLOGY**

**STRAW CLAIMS**

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...AC/2005/STRAW/REGIONAL DATE: FEBRUARY 2005

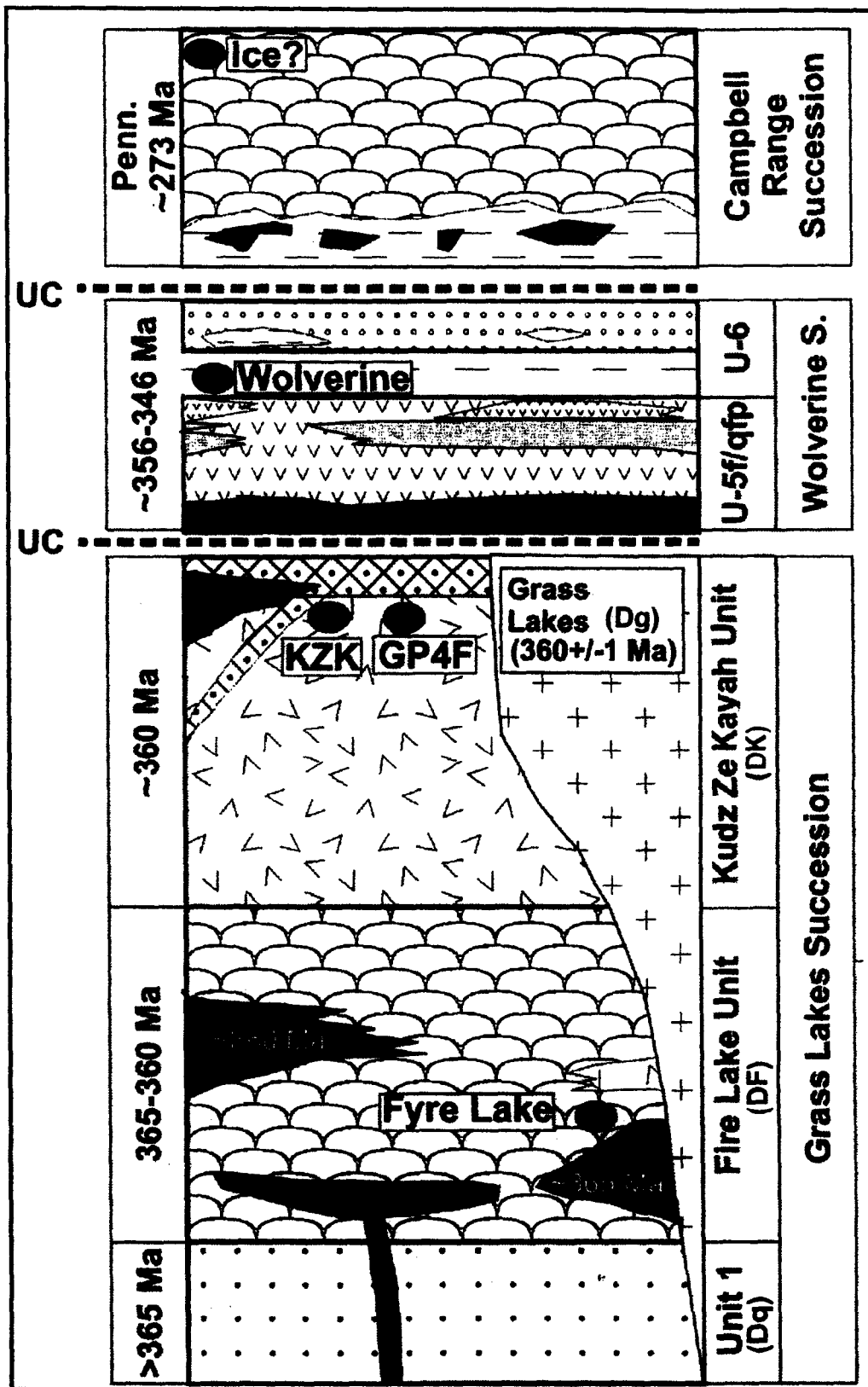


Fig 4. Schematic section of the Finlayson Lake District with the Paleozoic stratigraphy and location of VMS deposits. Dark intrusive rocks within the Fire Lake Unit are ultramafic unit Dum. Cretaceous granitic intrusions (Kg) are not shown. Modified after Murphy and Piercey, 1999 and 2000 and Piercey,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

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FIGURE 4  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

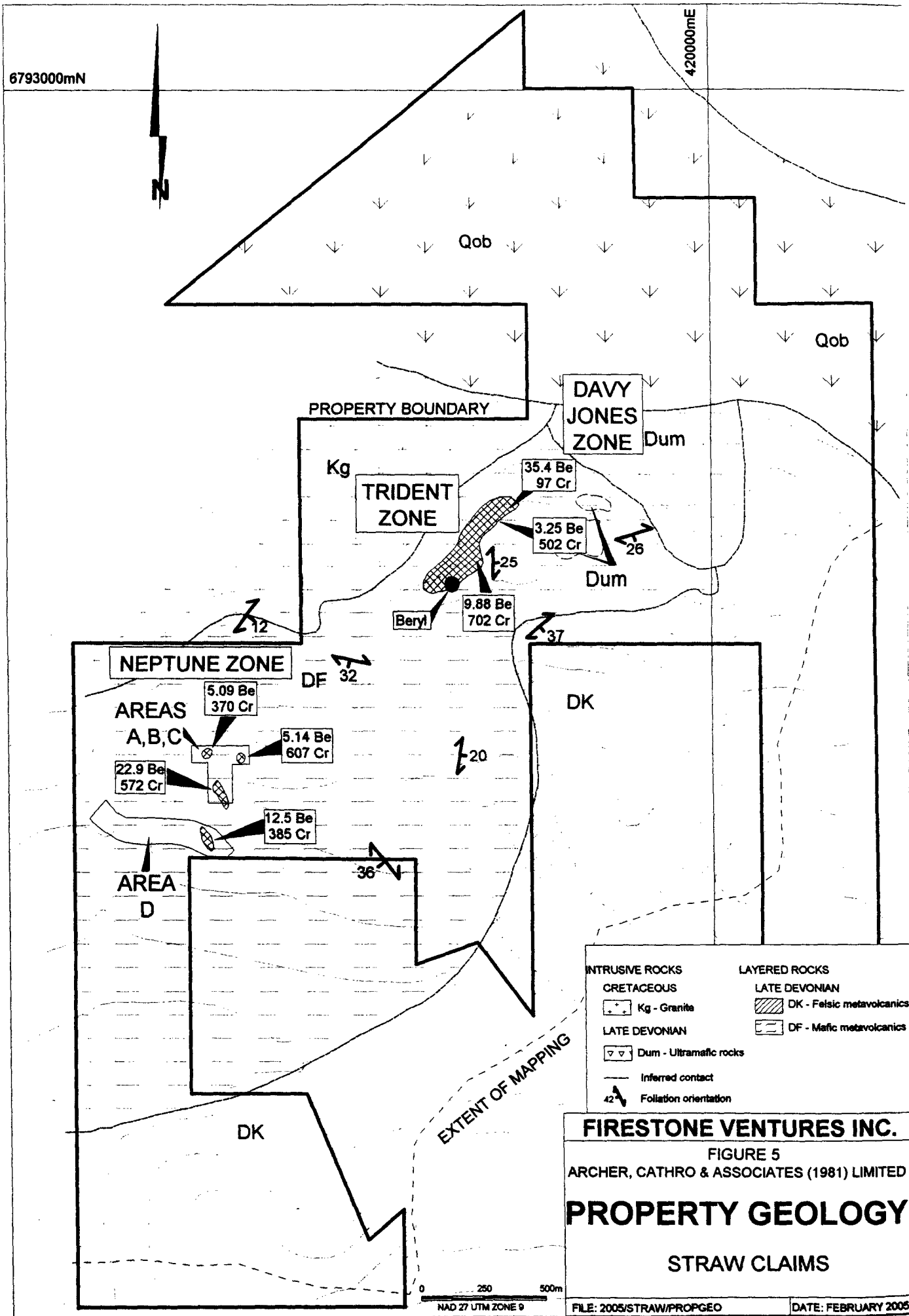
# STRATIGRAPHY

STRAW PROPERTY

FILE:...AC/2005/STRAWSTRAT      DATE: FEBRUARY 2005

6793000mN

420000mE



PROPERTY BOUNDARY

DAVY JONES ZONE

TRIDENT ZONE

NEPTUNE ZONE

AREAS A,B,C

AREA D

DK

Beryl

5.09 Be  
370 Cr

5.14 Be  
607 Cr

22.9 Be  
572 Cr

12.5 Be  
385 Cr

35.4 Be  
97 Cr

3.25 Be  
502 Cr

9.88 Be  
702 Cr

DF 32

20

36

37

INTRUSIVE ROCKS		LAYERED ROCKS	
CRETACEOUS		LATE DEVONIAN	
	Kg - Granite		DK - Felsic metavolcanics
LATE DEVONIAN			DF - Mafic metavolcanics
	Dum - Ultramafic rocks		
		Inferred contact	
		Foliation orientation	

EXTENT OF MAPPING

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FIGURE 5  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**PROPERTY GEOLOGY**

STRAW CLAIMS

0 250 500m  
NAD 27 UTM ZONE 9

FILE: 2005/STRAW/PROP GEO DATE: FEBRUARY 2005

metavolcanics. These rocks tend to weather rusty brown and commonly have mottled rounded surfaces.

**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 Tsa da Glisza emerald prospect is adjacent to the same stock on its northwestern margin.

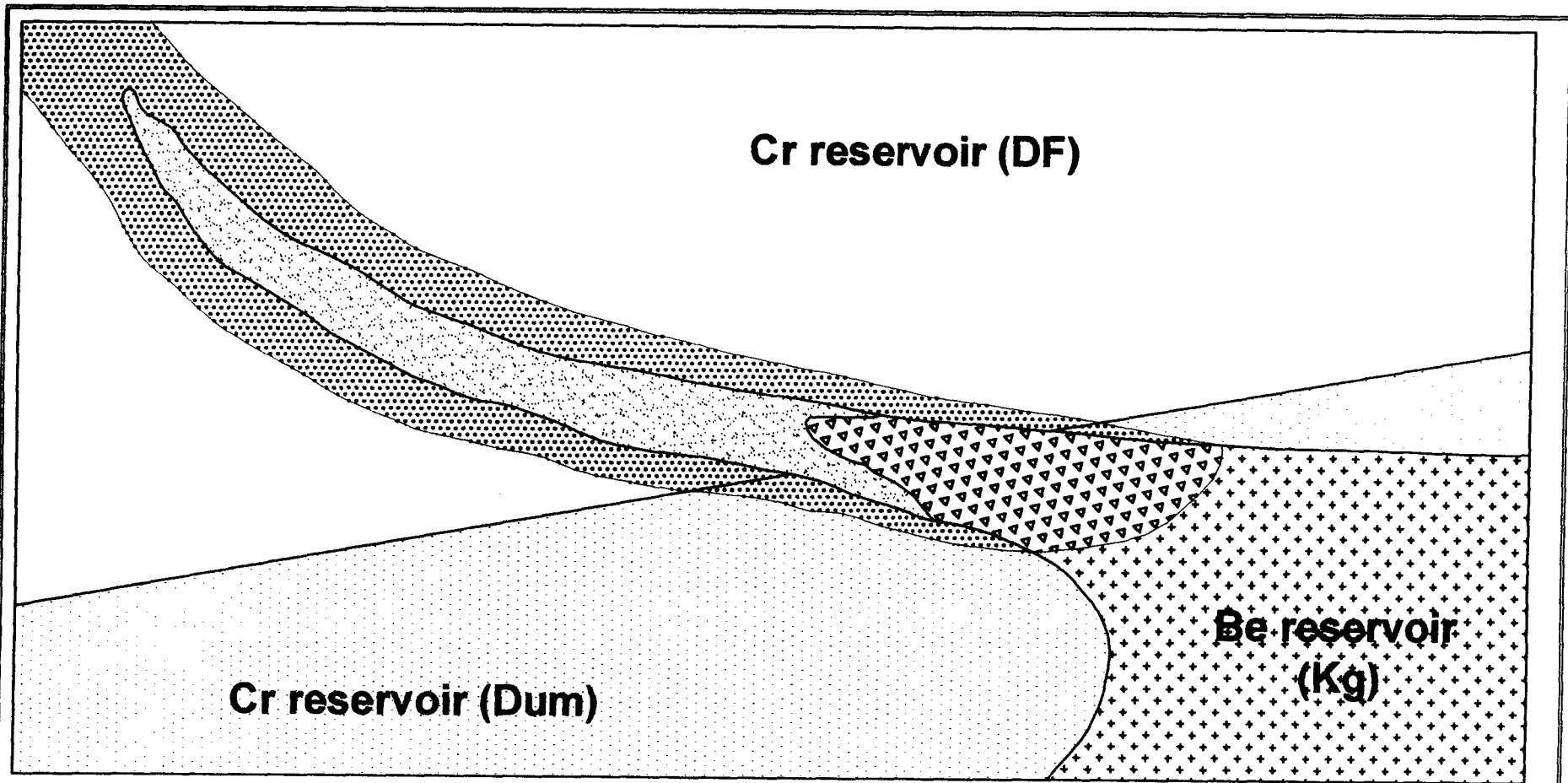
### DEPOSIT TYPES

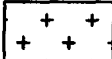


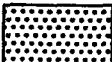
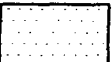
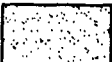
The geological setting in the southwestern part of the Straw claims closely resembles that at the Tsa da Glisza emerald prospect located about 5 km to the northwest. At Tsa da Glisza chromium rich emerald crystals occur within quartz veins and in layers and pockets within altered selvages developed along 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. Tsa da Glisza is thought to be a Type I deposit based upon its geological setting.

Figure 6 illustrates the basic model for emerald formation at Tsa da Glisza. 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 Tsa da



- |  |   |
|--|---|
|  Be reservoir (Kg)  |  Cr reservoir (DF)                                       |
|  Aplite/pegmatite   |  Emerald bearing scheelite-tourmaline alteration selvage |
|  Cr reservoir (Dum) |  Quartz-tourmaline-beryl vein                            |

After Murphy et al, 2003

Be = Beryllium Cr = Chromium

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FIGURE 6  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**EMERALD FORMATION MODEL**  
 STRAW CLAIMS

FILE: 2006/STRAW/FS

DATE: FEBRUARY 2006

Glisza 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).

## 2004 EXPLORATION PROGRAM

### **Mineralization and Geochemical Results**

Three zones of alteration similar to those found at the Tsa da Glisza emerald prospect were outlined on the Straw claims in 2003. All zones exhibit tourmalinized rusty weathering phlogopite schist with moderate to abundant quartz tourmaline veining within a broader package of unaltered mafic volcanic stratigraphy. The three zones are characterized by moderately to strongly anomalous beryllium and chromium soil geochemistry. The Trident and Neptune Zones were the focus of the 2004 program.

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 opaque beryl crystals were discovered within 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.

Detailed prospecting was conducted in the vicinity of the 2003 discovery however, no additional beryl was located. The section of stratigraphy is virtually unaltered and exhibits only very localized hydrothermal alteration where narrow quartz tourmaline veins are present. Although not abundant, most quartz tourmaline float recognized in the area was examined for beryl.

Cursory prospecting was done in the northwest facing cirque between the Trident and the Neptune Zones where a string of strongly anomalous copper values was outlined in 2003. Several thin rusty weathering schist slabs were located containing secondary sucrosic quartz and roughly 3 to 5% blebby to irregular patches of chalcopyrite. This material was not abundant and not traced to source.

The **Neptune Zone** is located on a gentle northwest facing slope southwest of the Trident Zone. Radiating bird's foot tourmaline crystals occur along foliation planes in unit DF chlorite schist over an area measuring roughly 400 by 150 m. 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, cut across the zone and could represent fault structures.

Four hand pit grids were established on the Neptune Zone to test moderately and strongly coincident beryllium and chromium soil geochemical anomalies in conjunction with a favourable geological setting. Grids A, B and C are all roughly the same size covering an area up to 50 by 50 m in size centred on geochemical anomalies with lesser coincident emerald accessory float

such as tourmalinized golden schist and quartz tourmaline float. Grid A consisted of 20 pits spaced 10 m apart and centred on a sample site which yielded 22.9 ppm Be and 572 ppm Cr. Grid B consisted of 15 pits spaced 10 m apart centred on a sample site which yielded 9.24 ppm Be and 233 Cr. Grid C consisted of 15 pits configured by 3 rows of 5 pits spaced 10 m apart along the rows with 20 m between each row. This grid was centred on a sample site which yielded 6.57 ppm Be and 600 ppm Cr.

The largest area explored in this fashion was Area D which comprised 108 pits that were excavated along a recessive weathering bench soliflucting abundant rusty weathering tourmalinized schist cobbles and fragments plus abundant quartz tourmaline vein float. The majority of these pits were spaced 10 m apart irregularly along the bench for roughly 260 m and across widths up to 60 m. Most second phase work was also conducted in this area as infill pits to 5 m spacing where favourable emerald indicator mineralogy was abundant. Four pits were also excavated around the two highest tungsten values in the Neptune Zone and three pits were dug in the vicinity of the highest Cr response.

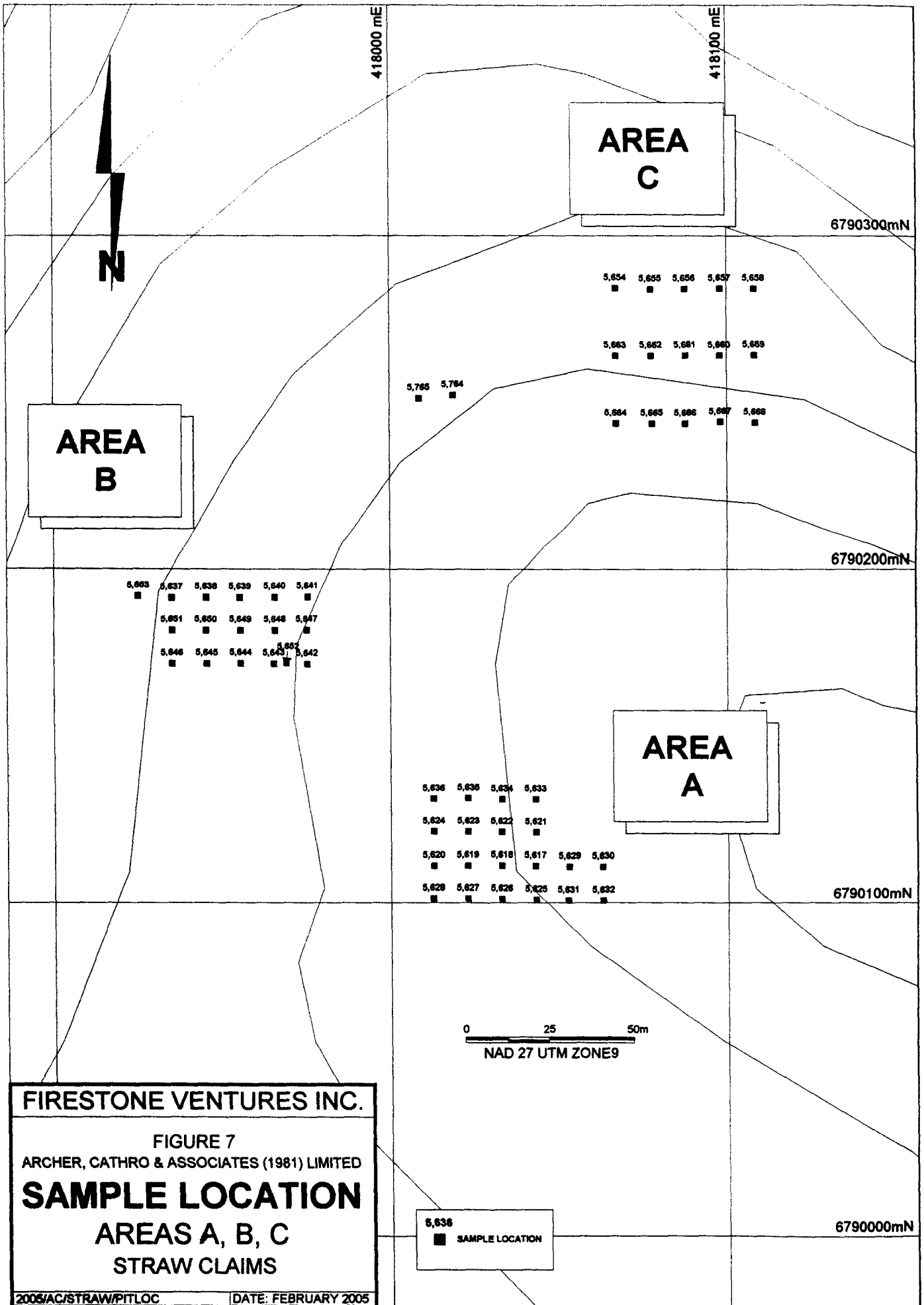
Approximately 20 kg of material was collected from a combination of the walls and base of each pit. Where specific emerald indicator mineralogy was recognized such as massive tourmaline bloom, this material and the adjacent selvage material was preferentially collected and processed for beryl.

Composite soil samples were collected from the sidewalls and base of each pit. All samples were shipped to ALS Chemex in North Vancouver, B.C where they were dried, screened to -80 mesh and then processed using HF, HNO<sub>3</sub> and HClO<sub>4</sub> 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.

Pit sample locations and geochemical results for Be, Cr, W, Sn, Cu and Co are illustrated on Figures 7-20. Of the four pit grids, Area D yielded the strongest emerald indicator element values as well as the strongest Cu and Co VMS response. Area D is characterized by a linear bench on a south facing slope with abundant rusty weathering tourmalinized phlogopite bearing frost heaves. Massive fine grained tourmaline bloom and tourmaline bearing quartz vein float are common. The suspected thickness of the hydrothermally altered recessive unit is 3 to 5 m. Results for the emerald indicator elements exhibit clusters of elevated Be (to 16.4 ppm), Cr (to 946 ppm) and Sn (to 33.2 ppm) throughout the grid with minor non coincident tungsten highs to 39.3 ppm.

Pit grids A though C all returned anomalous values for Cu, generally >250 ppm. with one to three sites from each grid exceeding 500 ppm. Cobalt values ranged from 31 to 162 ppm but are mostly between 40 and 75 ppm. Elevated cobalt response is usually coincident with higher copper values.

Grid D exhibits anomalous copper response from pits at its northwestern and southeastern ends. Copper is elevated (>250 ppm) with localized clusters exceeding 500 ppm to a maximum of 1800 ppm. The two highest values are from the northwestern part of the grid where two samples



**FIRESTONE VENTURES INC.**

FIGURE 7  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**SAMPLE LOCATION**

**AREAS A, B, C**

**STRAW CLAIMS**



418000 mE

418100 mE

6790300mN

6790200mN

6790100mN

6790000mN

**AREA B**

**AREA C**

**AREA A**

3.81	3.28	2.71	3.25	3.06	3.04
3.37	3.8	4.63	2.77	4.2	
2.14	2.38	1.18	1.963	0.93	

1.93 1.96

1.56	2.56	3.14	3.27	4.31
3.02	3.19	2.3	2.81	1.3
3.64	2.42	3.84	5.67	3.24

0.91	0.52	0.33	0.19		
0.46	0.77	1.08	1.87		
0.44	1.08	1.18	6.85	4.43	1.04
1.82	1.82	0.81	1.5	1.63	1.16

0 25 50m  
NAD 27 ZONE 9

**FIRESTONE VENTURES INC.**

FIGURE 8  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**Be GEOCHEMISTRY**

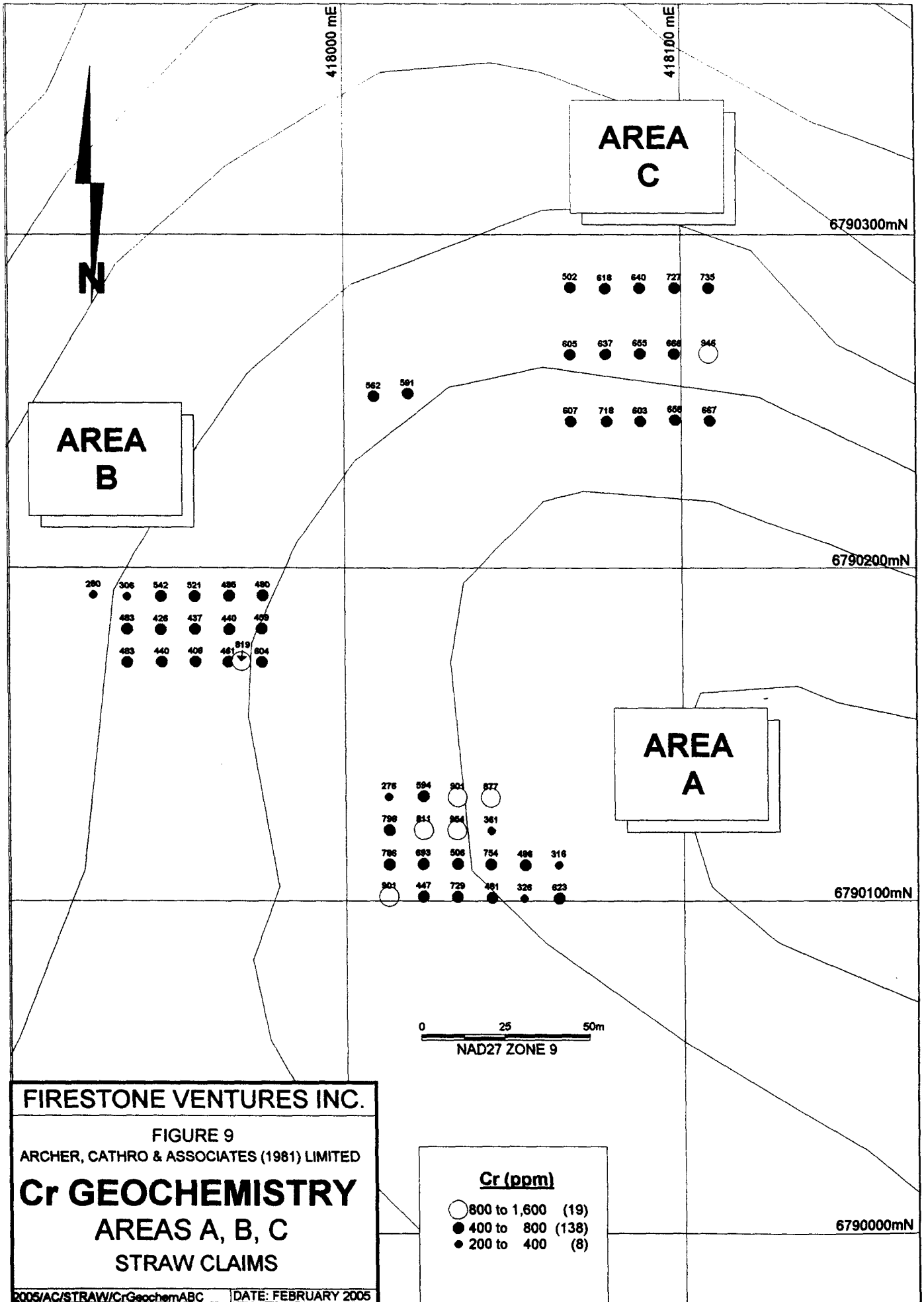
**AREAS A, B, C**

**STRAW CLAIMS**

2005/AC/STRAW/BeGeochemABC | DATE: FEBRUARY 2005

**Be (ppm)**

- 10 to 20 (6)
- 5 to 10 (11)
- 2.5 to 5 (43)
- 1 to 2.5 (79)
- 0 to 1 (26)

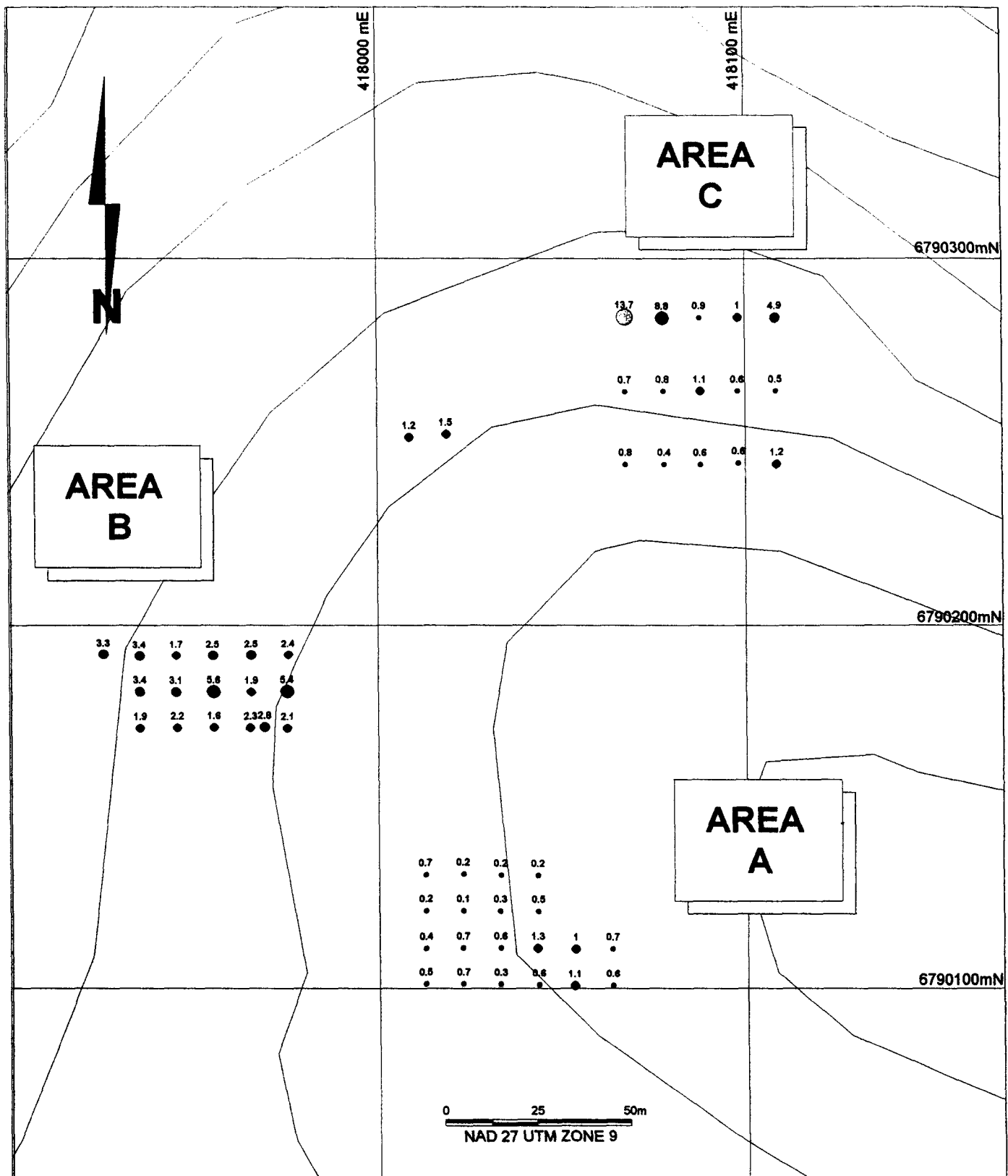


**FIRESTONE VENTURES INC.**

FIGURE 9  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**Cr GEOCHEMISTRY**  
**AREAS A, B, C**  
**STRAW CLAIMS**

2005/AC/STRAW/CrGeochemABC | DATE: FEBRUARY 2005



**FIRESTONE VENTURES INC.**

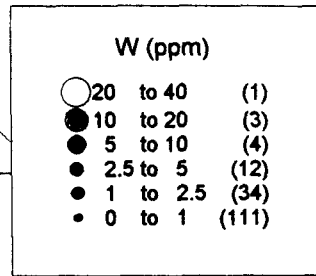
FIGURE 10  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

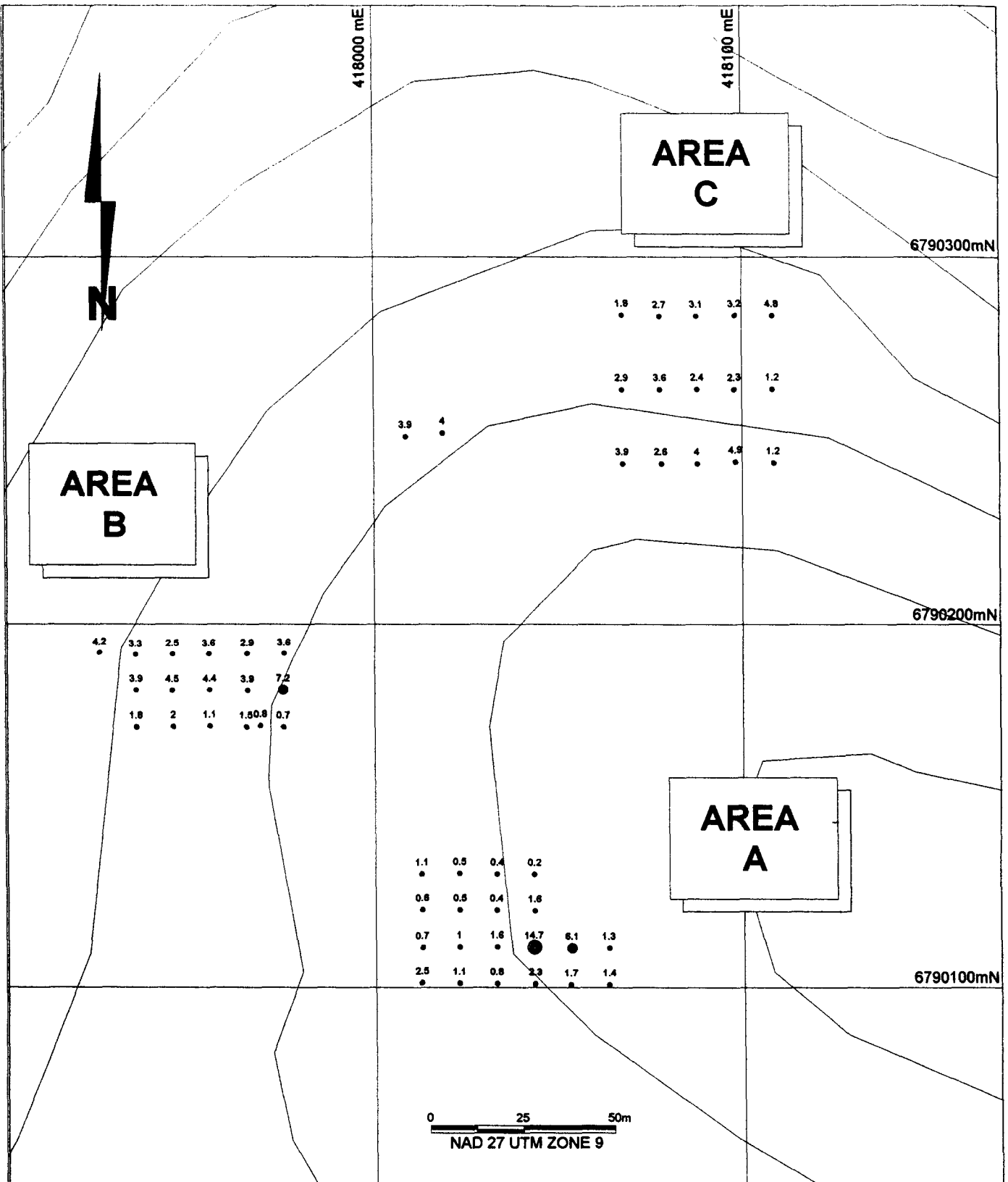
**W GEOCHEMISTRY**

AREAS A, B, C

STRAW CLAIMS

2005/AC/STRAW/WGeochemABC    DATE: FEBRUARY 2005





**FIRESTONE VENTURES INC.**

FIGURE 11

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**Sn GEOCHEMISTRY**

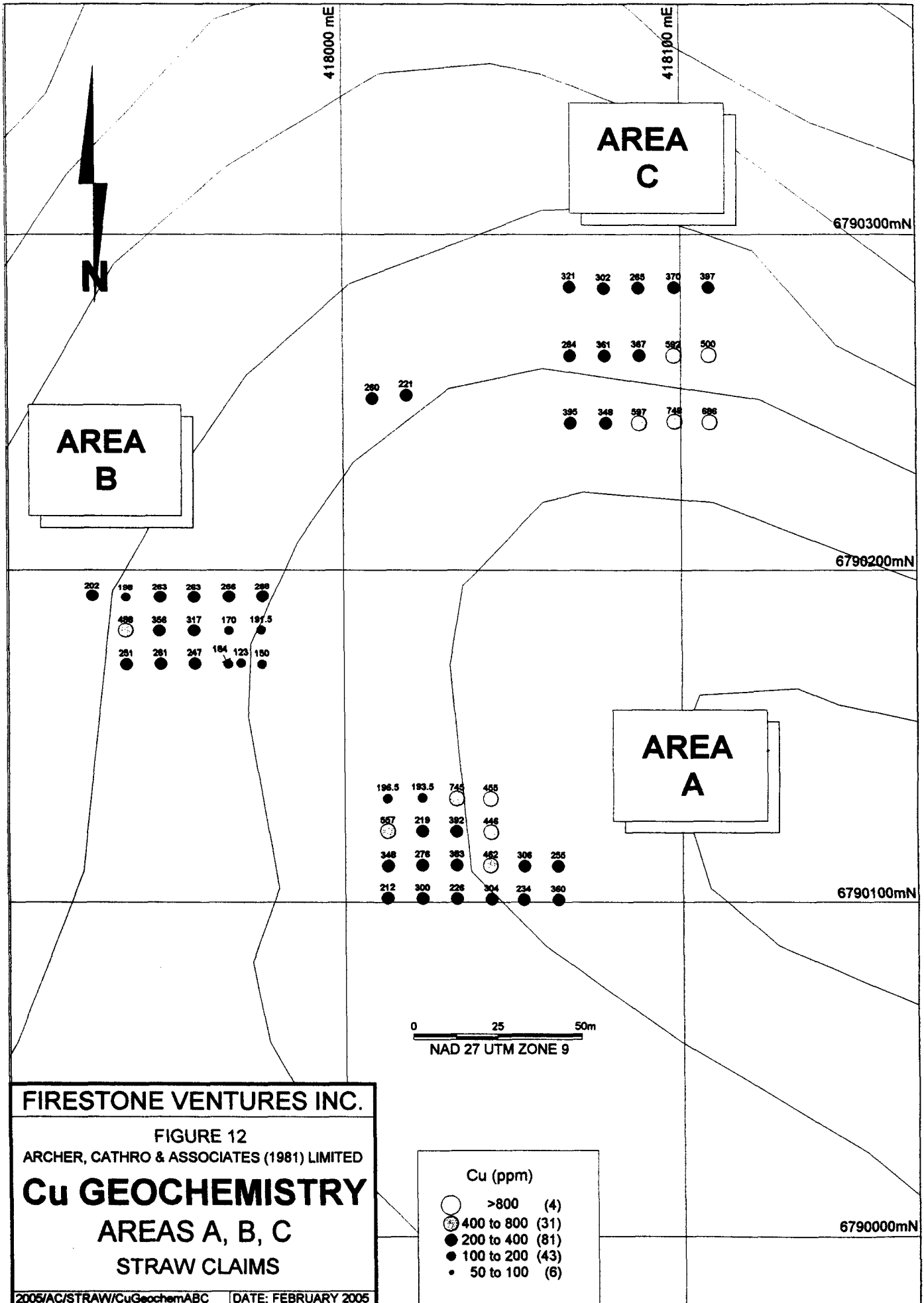
**AREAS A, B, C**

**STRAW CLAIMS**

2005/AC/STRAW/SnGeochemABC      DATE: FEBRUARY 2005

**Sn (ppm)**

- 20 to 40 (5)
- 10 to 20 (6)
- 5 to 10 (19)
- 0 to 5 (135)



**AREA B**

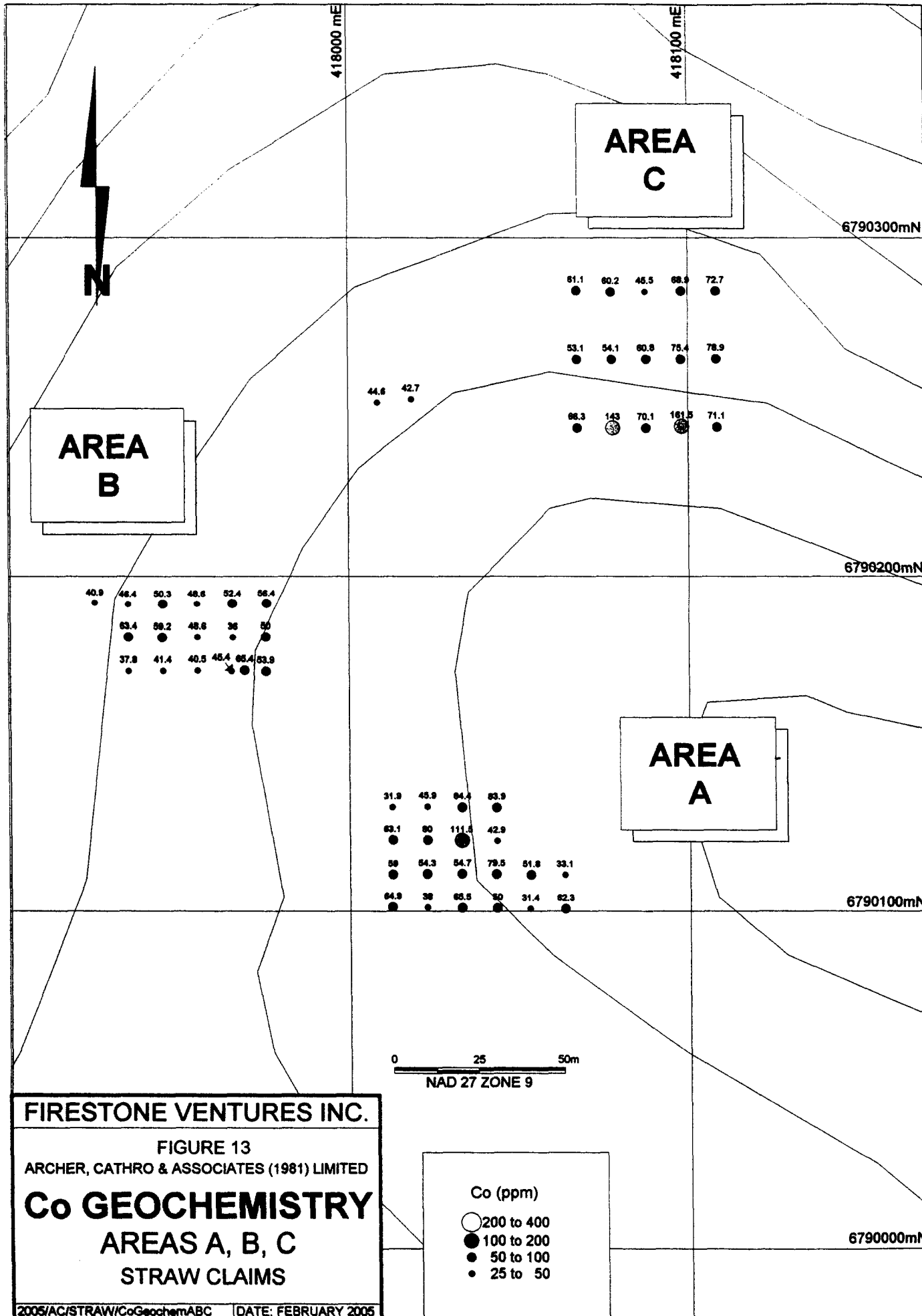
**AREA C**

**AREA A**

202 ●  
198 ●  
263 ●  
263 ●  
266 ●  
288 ●  
488 ◐  
356 ●  
317 ●  
170 ●  
197.5 ●  
251 ●  
261 ●  
247 ●  
184 ●  
123 ●  
150 ●

280 ● 221 ●  
321 ● 302 ● 265 ● 370 ● 397 ●  
284 ● 361 ● 367 ● 592 ◐ 500 ◐  
395 ● 348 ● 587 ◐ 748 ◐ 686 ◐

196.5 ● 183.5 ● 745 ◐ 455 ◐  
557 ◐ 219 ● 382 ● 446 ◐  
348 ● 276 ● 383 ● 462 ◐ 306 ● 256 ●  
212 ● 300 ● 226 ● 304 ● 234 ● 360 ●



**FIRESTONE VENTURES INC.**

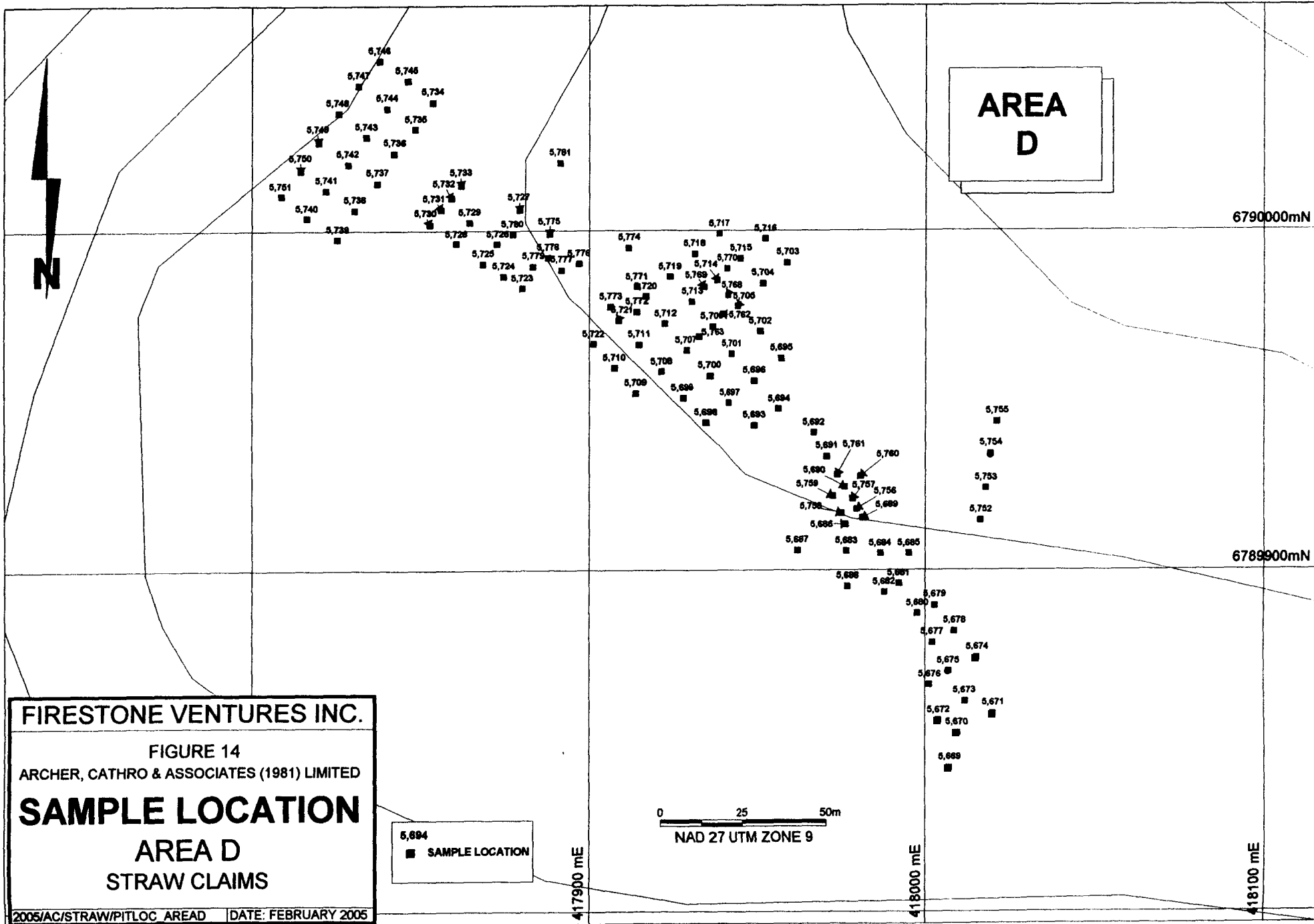
FIGURE 13

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**Co GEOCHEMISTRY**

**AREAS A, B, C**

**STRAW CLAIMS**



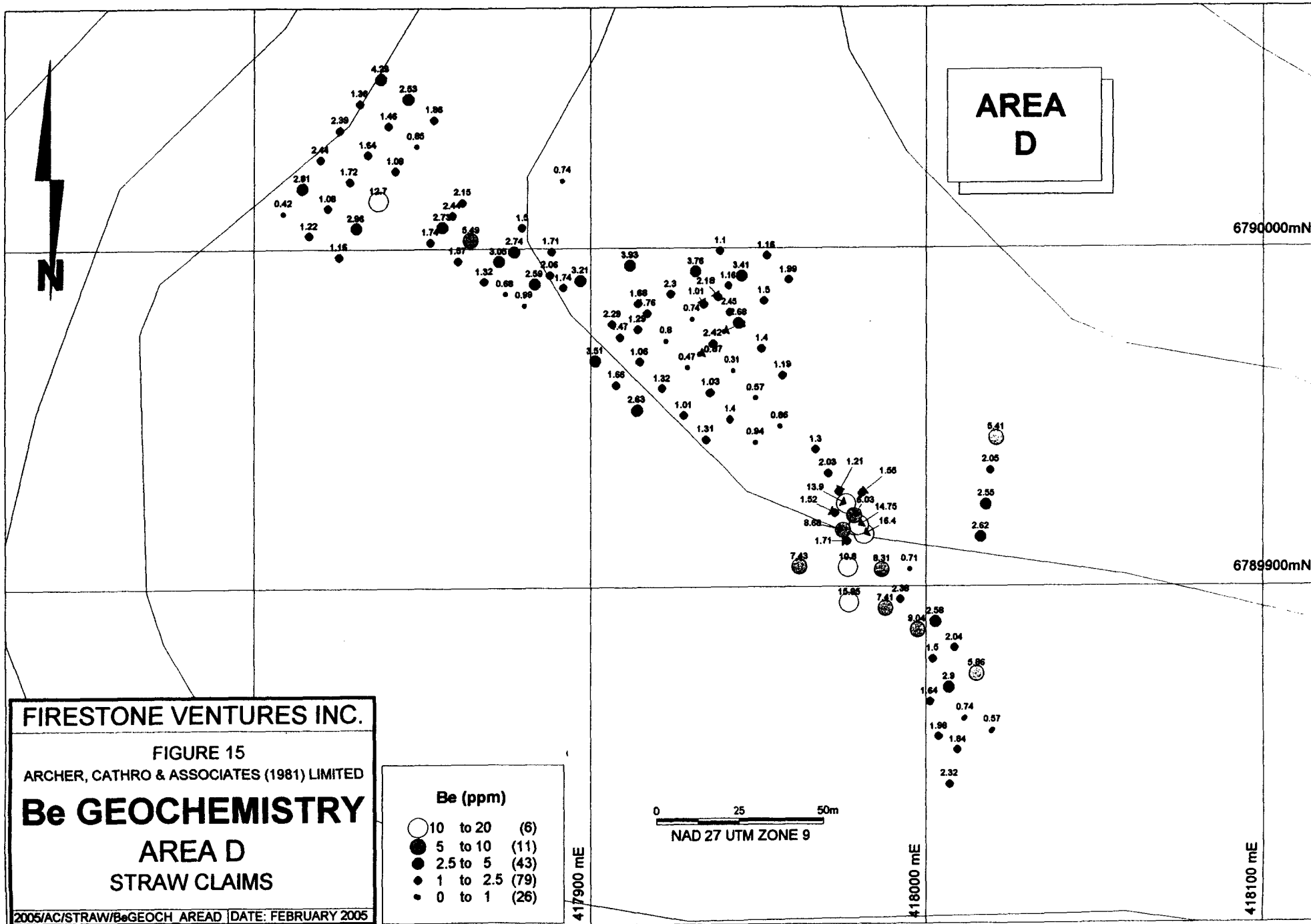
**FIRESTONE VENTURES INC.**

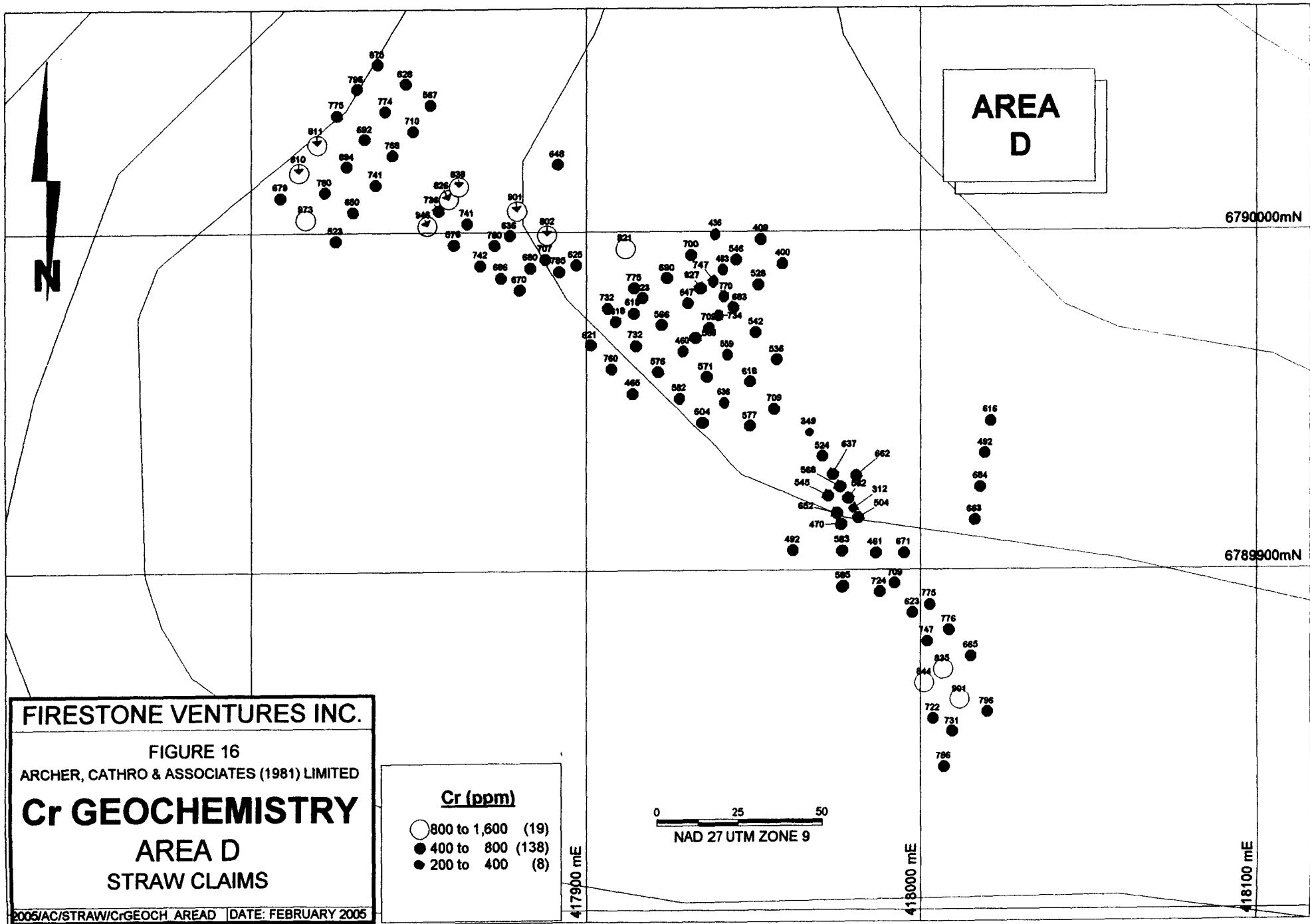
FIGURE 14  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

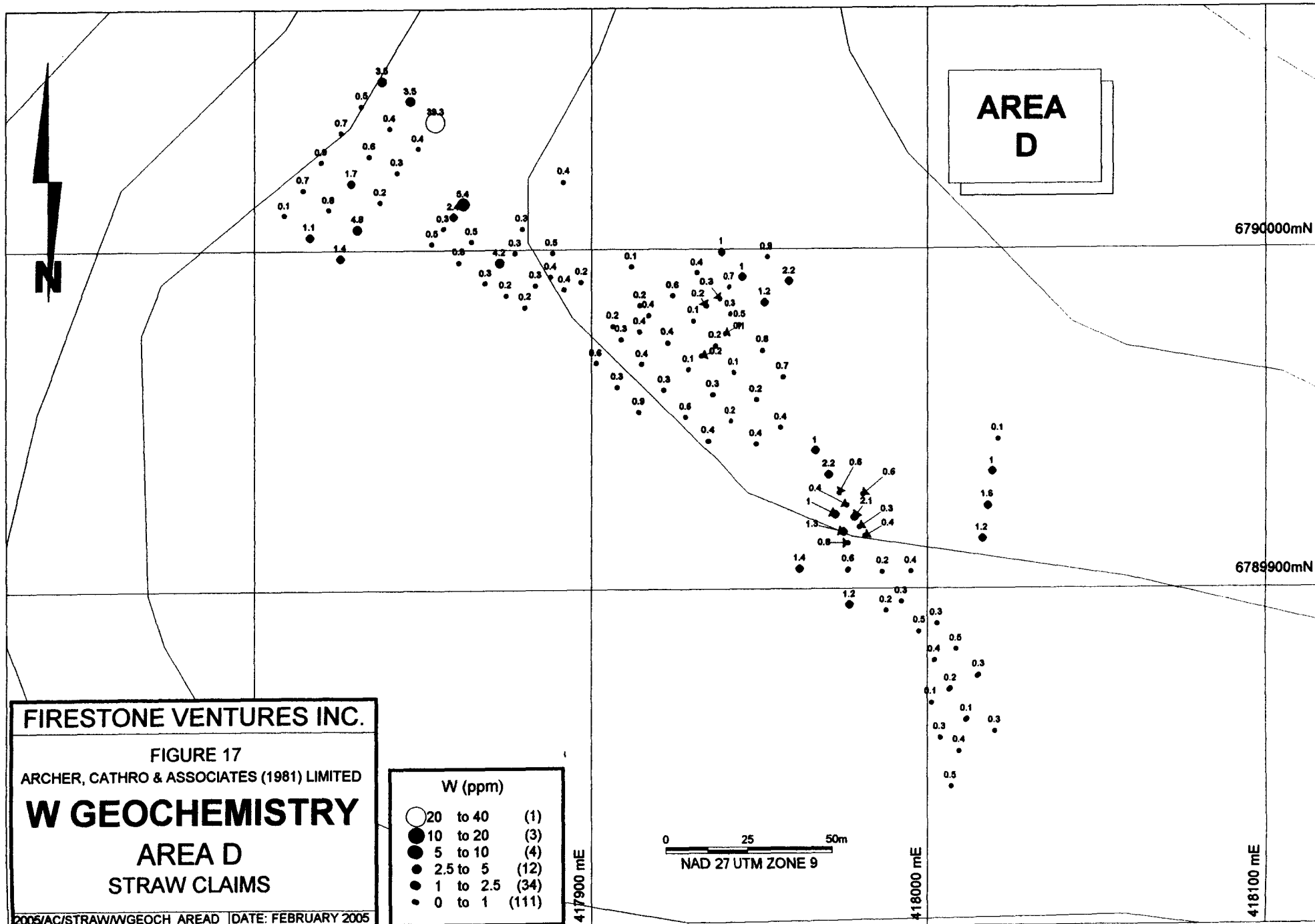
**SAMPLE LOCATION**  
**AREA D**  
**STRAW CLAIMS**

5,684  
 ■ SAMPLE LOCATION

0 25 50m  
 NAD 27 UTM ZONE 9







**FIRESTONE VENTURES INC.**

FIGURE 17

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**W GEOCHEMISTRY**

**AREA D  
STRAW CLAIMS**

2005/AC/STRAW/WGEOCH AREAD DATE: FEBRUARY 2005

W (ppm)	
○	20 to 40 (1)
●	10 to 20 (3)
●	5 to 10 (4)
●	2.5 to 5 (12)
●	1 to 2.5 (34)
●	0 to 1 (111)



NAD 27 UTM ZONE 9

417900 mE

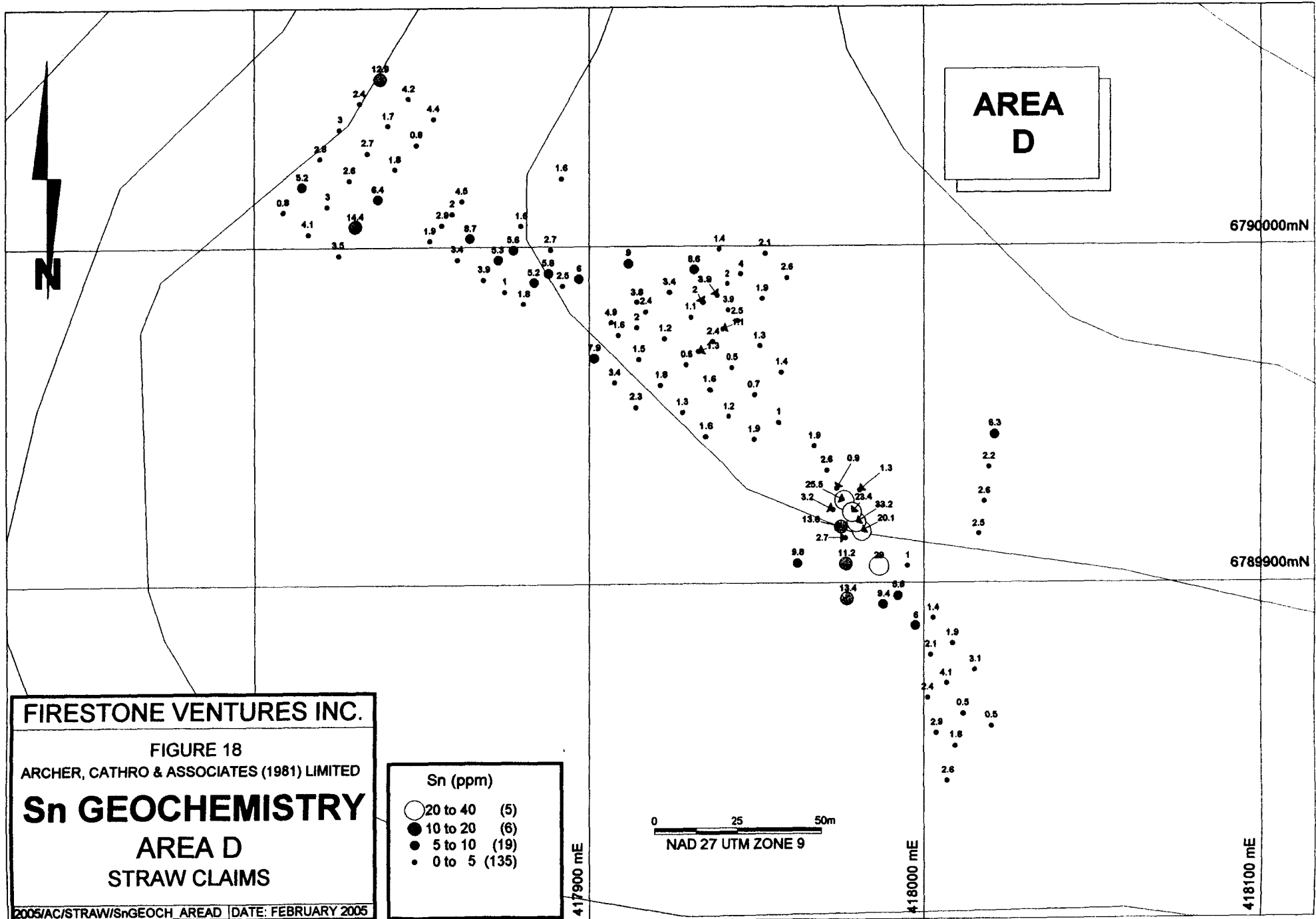
418000 mE

418100 mE

679000mN

6789900mN

**AREA  
D**



**FIRESTONE VENTURES INC.**

FIGURE 18  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**Sn GEOCHEMISTRY**

**AREA D**

**STRAW CLAIMS**

2005/AC/STRAW/SnGEOCH AREA D DATE: FEBRUARY 2005

Sn (ppm)

- 20 to 40 (5)
- 10 to 20 (6)
- 5 to 10 (19)
- 0 to 5 (135)

0 25 50m  
 NAD 27 UTM ZONE 9

417900 mE

418000 mE

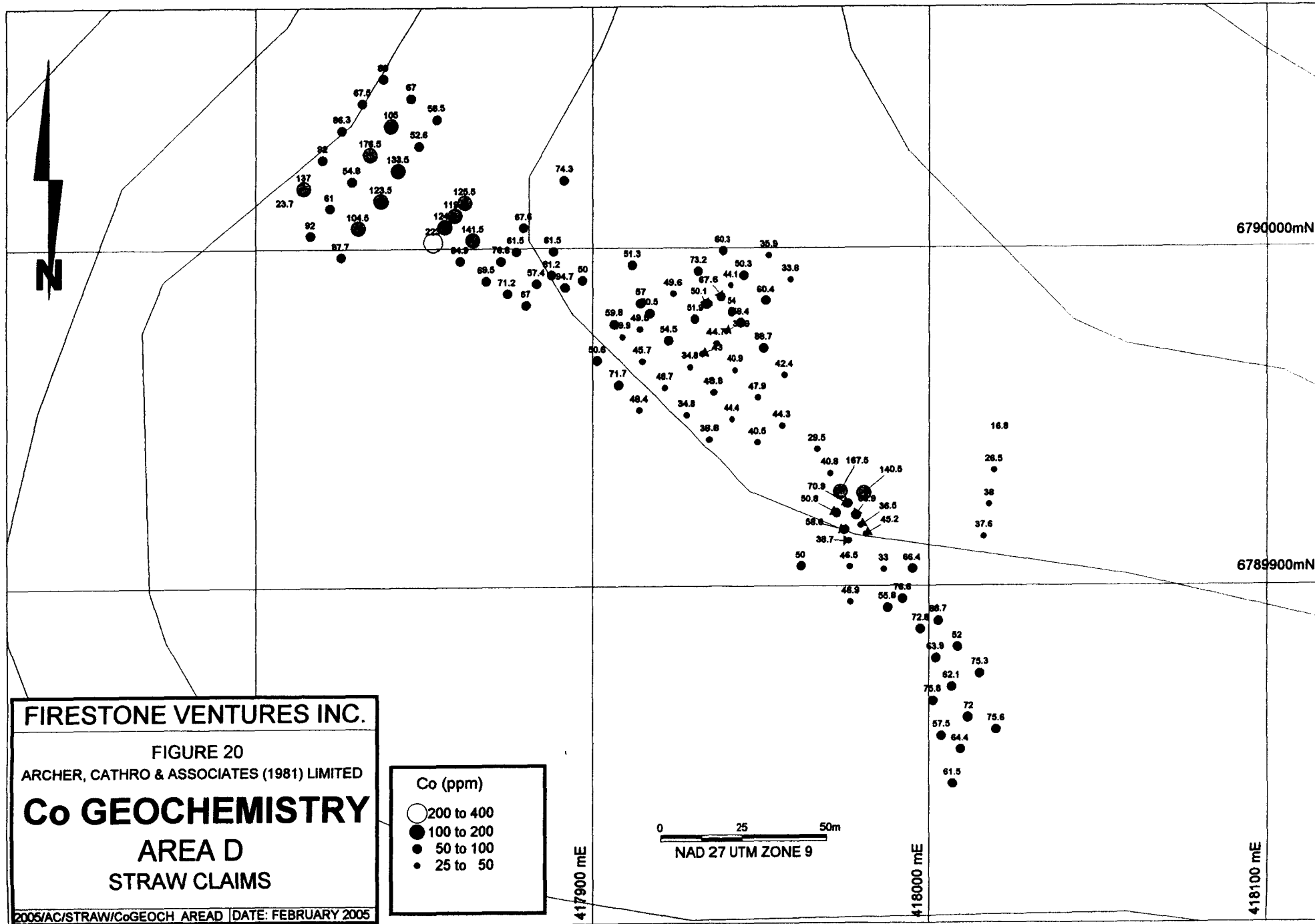
418100 mE

6790000mN

6789900mN

**AREA D**





**FIRESTONE VENTURES INC.**

FIGURE 20  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**Co GEOCHEMISTRY**

**AREA D**  
**STRAW CLAIMS**

2005/AC/STRAW/CoGEOCH AREAD | DATE: FEBRUARY 2005

Co (ppm)

- 200 to 400
- 100 to 200
- 50 to 100
- 25 to 50

0 25 50m  
 NAD 27 UTM ZONE 9

417900 mE

418000 mE

6790000mN

6789900mN

418100 mE

from pits in the gully yielded 1800 and 1080 ppm. The highest copper value also coincides with the highest cobalt response of 223 ppm. In total, 13 cobalt values exceeded 100 ppm within Grid D.

Gold pathfinder elements Ag, As, Bi, and Sb are all considered low and are similar to the values obtained for the grid soil samples collected in 2003. Sixty-four select samples submitted for gold analyses returned generally low values (<100 ppb) with one sample yielding 221 ppb.

### INTERPRETATION AND CONCLUSIONS

No emerald has yet been discovered on the Straw claims.

Mapping and prospecting have outlined three zones containing tourmaline bearing golden rusty weathering muscovite schist within unit DF chlorite schist on the edge of a Cretaceous two-mica granite stock. Tourmaline occurs as radiating aggregates on foliation planes of the schist and as individual crystals within pegmatite dykes and quartz veins. These are the geological settings and alteration signatures found at the Tsa da Glisza emerald prospect 5 km to the northwest.

Preliminary prospecting discovered beryl crystals within the Trident Zone during 2003. Although the crystals lack the transparency and deep green colouration required for emerald, their presence demonstrates that the chemistry is favourable for beryl formation. Their large size and relative lack of fracturing and intergrowths suggest potential for large stones. However, saturation prospecting in 2004 did not identify additional beryl mineralization. The stratigraphic section in which the beryl occurs appears to be relatively unaltered by the presence of narrow cross cutting quartz-tourmaline veins and aplite/pegmatite dykes suggesting the host rocks are relatively impermeable and not conducive to hydrothermal alteration.

Conversely, the Neptune Zone exhibits remarkable similarities to emerald bearing stratigraphy observed at the Tsa da Glisza prospect. It is possible that the hydrothermal alteration expressed at surface in this zone is a distal component of a deeper, emerald bearing structure. It may also be that emerald is not as prevalent at this locale as it is at Tsa da Glisza. The potential for localized VMS mineralization in this area is low as alteration halos can extend kilometers from source and the Cu-Co anomalies identified from the pit grids may be part of the nearby Kona Deposit's alteration halo.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



William A. Wengzynowski, P.Eng.  
By his Attorney-in-fact,  
Joan Mariacher

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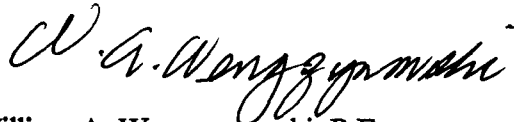
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**APPENDIX I**  
**AUTHOR'S STATEMENT OF QUALIFICATIONS**

## 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 I, 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, northern British Columbia and Mexico.
5. I have personally participated in and supervised the fieldwork reported herein.



William A. Wengzynowski, P.Eng.  
By his Attorney-in-fact,  
Joan Mariacher

**APPENDIX II**  
**CERTIFICATES OF ANALYSIS**



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

Page: 1  
 Finalized Date: 20-SEP-2004  
 Account: EMP

**CERTIFICATE VA04060616**

Project: Straw  
 P.O. No.:  
 This report is for 165 Soil samples submitted to our lab in Vancouver, BC, Canada on 7-SEP-2004.  
 The following have access to data associated with this certificate:

AL ARCHER VANCOUVER OFFICE	DOUG EATON BILL WENGZYNOWSKI	JOAN MARIACHER
-------------------------------	---------------------------------	----------------

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: EP  
 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: 



**ALS Chemex**  
**EXCELLENCE IN ANALYTICAL CHEMISTRY**  
 ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
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Page: 2 - A  
 Total # Pages: 6 (A - D)  
 Finalized Date: 20-SEP-2004  
 Account: EMP

Project: Straw

**CERTIFICATE OF ANALYSIS VA04060616**

Sample Description	Method Analyte Units LOR	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
		Recvd Wt. kg 0.02	Ag ppm 0.01	Al % 0.01	As ppm 0.2	Ba ppm 10	Be ppm 0.05	Bi ppm 0.01	Ca % 0.01	Cd ppm 0.02	Co ppm 0.01	Co ppm 0.1	Cr ppm 1	Cs ppm 0.05	Cu ppm 0.2	Fe % 0.01
CC05617		0.54	0.19	6.12	1.9	260	6.65	0.68	3.45	0.29	7.33	79.5	754	93.2	462	6.48
CC05618		0.54	0.12	6.43	2.2	360	1.18	0.18	3.23	0.31	19.3	54.7	506	16.65	383	6.16
CC05619		0.52	0.14	6.75	1.4	190	1.06	0.19	3.5	0.22	13.75	54.3	693	12	276	6.87
CC05620		0.44	0.16	7.47	0.2	90	0.44	0.27	3.04	0.22	2.48	59	786	11.4	348	8.12
CC05621		0.52	0.14	7.5	1.7	260	1.87	0.15	2.93	0.21	11.95	42.9	361	85.7	446	6.61
CC05622		0.52	0.13	6.75	1.5	110	1.08	0.55	2.64	0.15	0.89	111.5	954	11.35	392	8.63
CC05623		0.56	0.1	6.74	0.4	50	0.77	0.22	3.5	0.14	1.24	80	811	7.29	219	7.84
CC05624		0.52	0.23	6.94	0.8	80	0.46	0.43	3.31	0.22	2.11	63.1	798	13.65	557	8.56
CC05625		0.50	0.13	6.88	2.2	260	1.5	0.25	3.63	0.2	15.05	50	481	24.1	304	6.57
CC05626		0.46	0.16	7.15	0.8	100	0.81	0.16	3.01	0.23	5.13	65.5	729	7.97	226	7.43
CC05627		0.42	0.14	6.62	3	350	1.62	0.15	3.03	0.23	22.8	38	447	21.6	300	5.53
CC05628		0.48	0.16	6.54	0.8	140	1.62	0.26	3.37	0.2	5.59	64.9	901	13.05	212	7.03
CC05629		0.48	0.14	7	2.9	380	4.43	0.42	3.16	0.24	22.6	51.8	496	59.2	306	5.84
CC05630		0.48	0.13	7.02	2.4	360	1.04	0.14	3.25	0.26	23.2	33.1	316	20.9	255	5.58
CC05631		0.60	0.11	7.02	3.1	380	1.63	0.22	3.48	0.25	28.3	31.4	326	16.8	234	5.21
CC05632		0.42	0.26	7.08	2.7	240	1.16	0.32	2.37	0.28	17.25	62.3	623	14.8	360	6.86
CC05633		0.52	0.24	7.07	0.7	50	0.19	0.28	2.99	0.16	0.82	83.9	877	4.82	455	8.06
CC05634		0.60	0.31	7.01	2.4	130	0.33	0.8	2.24	0.18	2.9	84.4	901	6.28	745	10.3
CC05635		0.64	0.1	5.21	0.8	80	0.52	0.21	2.43	0.11	2.9	45.9	594	6.63	193.5	5.84
CC05636		0.60	0.11	6.74	2.8	400	0.91	0.15	3.36	0.25	27.5	31.9	276	13.75	196.5	5.3
CC05637		0.54	0.19	7.69	3.7	270	3.28	0.54	1.74	0.2	3.81	46.4	306	83.9	198	6.17
CC05638		0.52	0.24	6.83	11.6	330	2.71	0.52	1.4	0.56	18.35	50.3	542	29.2	263	7.55
CC05639		0.62	0.23	7.26	9.6	360	3.23	0.63	1.56	0.49	23.3	48.6	521	38.2	263	7.26
CC05640		0.58	0.21	7.45	12.7	280	3.06	0.71	1.62	0.43	17.5	52.4	485	43.8	266	7.59
CC05641		0.58	0.19	7.33	9.8	340	3.04	0.66	1.66	0.4	20.3	56.4	480	32.5	288	7.23
CC05642		0.66	0.09	8.3	0.7	180	0.93	0.17	1.48	0.12	5.51	53.9	604	67.9	150	7.7
CC05643		0.60	0.11	7.39	1.6	270	1.96	0.31	2.21	0.22	10.55	45.4	461	37.1	184	6.88
CC05644		0.62	0.11	7.1	2.7	340	1.18	0.21	2.5	0.21	16.95	40.5	408	26.1	247	5.94
CC05645		0.60	0.16	7.32	3.9	330	2.36	0.42	2.11	0.2	15.6	41.4	440	30.7	261	6.55
CC05646		0.58	0.17	7.1	3.3	340	2.14	0.35	1.82	0.24	12.05	37.8	483	24.2	251	6.6
CC05647		0.58	0.24	7.1	8.5	420	4.2	3.16	1.74	0.31	22.7	50	459	33.9	191.5	7.24
CC05648		0.58	0.18	6.61	7.1	410	2.77	0.72	1.72	0.38	23.3	36	440	20.1	170	6.4
CC05649		0.58	0.21	6.57	6.2	330	4.63	0.94	1.42	0.33	12.55	48.6	437	27.2	317	7.04
CC05650		0.58	0.26	7.21	5.6	310	3.6	1.01	1.35	0.3	9.53	59.2	426	44.9	356	8.46
CC05651		0.60	0.3	7.17	11.3	270	3.37	0.97	1.44	0.37	7.15	63.4	483	34.4	488	8.52
CC05652		0.58	0.07	7.65	0.8	180	3	0.19	1.96	0.08	2.33	65.4	819	80.5	123	7.75
CC05653		0.62	0.17	7.07	4.8	370	3.81	0.87	1.64	0.3	10.85	40.9	280	60.3	202	5.86
CC05654		0.68	0.12	6.03	2.6	460	1.56	0.29	3.19	0.29	20.6	61.1	502	9.17	321	6.57
CC05655		0.60	0.13	7.19	2.3	330	2.56	0.31	3.43	0.31	25.2	60.2	618	11.6	302	6.94
CC05656		0.66	0.1	7.55	1.9	310	3.14	0.26	3.38	0.32	19.65	45.5	640	15.65	265	7.01

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



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 Account: EMP

Project: Straw

**CERTIFICATE OF ANALYSIS VA04060616**

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	
		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
CC05617		11.75	0.26	0.3	0.047	0.45	3.7	81.7	6.47	1245	0.56	0.59	1.8	304	380	6.3
CC05618		12.2	0.24	0.6	0.05	0.6	10	69.3	6.54	1155	0.62	1.05	3.9	281	320	5.7
CC05619		11	0.23	0.5	0.048	0.33	6.7	99.8	9.02	1340	0.65	0.68	2.4	351	180	3.5
CC05620		12.25	0.23	0.2	0.064	0.16	1.3	114.5	10.9	1465	1.21	0.43	0.5	317	100	1.8
CC05621		14.15	0.22	0.5	0.05	0.46	5.9	60.7	4.92	922	0.51	0.87	2.7	128.5	470	5.9
CC05622		11.15	0.22	0.1	0.036	0.16	<0.5	130	10.85	1350	1.77	0.59	0.3	490	90	3
CC05623		10.9	0.21	0.1	0.037	0.1	0.6	150	11.4	1285	0.28	0.41	0.3	481	60	1.5
CC05624		10.95	0.21	0.1	0.07	0.13	1.1	93.8	10.45	1360	1.09	0.46	0.6	371	120	1.9
CC05625		12.4	0.21	0.6	0.055	0.47	7.5	60.4	6.54	1135	0.79	1.01	2.8	245	200	6.7
CC05626		11.25	0.18	0.2	0.045	0.17	2.5	103	10.15	1610	1.17	0.48	0.9	376	130	2.6
CC05627		11.9	0.21	0.8	0.046	0.62	11.8	55.2	5.12	937	0.7	1.01	4.4	177	350	6.5
CC05628		11.8	0.24	0.3	0.046	0.28	2.9	105.5	8.75	1195	0.56	0.65	1.2	353	240	3.4
CC05629		12.6	0.2	0.8	0.052	0.67	11.7	57.3	5.12	1030	0.6	1.01	4.4	204	360	7.8
CC05630		13.15	0.2	0.8	0.051	0.64	11.9	30.1	4.35	881	0.63	1.05	4.6	113	530	7.9
CC05631		12	0.22	0.9	0.053	0.68	14.5	29.6	4.28	869	0.64	1.22	4.9	122.5	380	8
CC05632		13	0.23	0.6	0.051	0.43	8.9	84.7	7.45	1320	0.51	0.77	3	290	330	5.2
CC05633		11.7	0.22	0.1	0.054	0.11	<0.5	132.5	10.1	1250	0.71	0.53	0.3	418	90	2.1
CC05634		12.65	0.26	0.2	0.053	0.24	1.5	128.5	8.6	1095	1.33	0.54	0.8	372	290	5.9
CC05635		8.55	0.16	0.2	0.036	0.14	1.5	86.3	7.59	955	0.45	0.47	0.7	254	80	2.1
CC05636		12.3	0.2	0.8	0.051	0.67	14.4	33.6	4.11	864	0.72	1.24	4.7	110	400	8.7
CC05637		13.25	0.18	0.4	0.044	0.63	1.7	103	2.77	1710	0.27	0.46	1.4	104.5	120	4.2
CC05638		13.85	0.2	0.7	0.058	0.62	9.7	119	4.01	2250	0.98	1.01	3.9	190.5	590	8
CC05639		14.7	0.24	0.8	0.058	0.76	12.7	130	4.17	2080	0.97	1.01	4.8	184	550	8.4
CC05640		14.2	0.24	0.6	0.059	0.7	9.2	123	3.96	1985	0.87	0.91	3.4	190.5	360	6.3
CC05641		14.25	0.23	0.7	0.052	0.8	10.1	122	4.25	2070	1.01	1.12	4.2	194.5	220	6.9
CC05642		13.9	0.21	0.3	0.049	0.46	2.7	95.3	4.75	1900	0.43	1.17	1.4	262	150	4.4
CC05643		13.85	0.21	0.5	0.054	0.53	5.1	83.2	3.4	1600	0.42	0.85	2.5	181	370	6.4
CC05644		13.3	0.21	0.7	0.055	0.59	8.4	69.7	4.22	1235	0.45	1.15	4	159	260	7.1
CC05645		14.8	0.22	1	0.049	0.76	7.7	87.2	2.54	1550	0.64	1.16	3.5	158	410	6.9
CC05646		14.75	0.19	1	0.046	0.77	5.9	82.6	2.92	1405	0.75	1.16	3.2	162.5	560	8.5
CC05647		16.6	0.22	0.9	0.052	1.1	10.5	105	2.93	1825	1.28	1.22	5.6	171.5	230	11.9
CC05648		14.05	0.2	1	0.052	0.87	11.3	88.3	2.99	1465	1	1.16	5.4	149	660	9.4
CC05649		13.75	0.2	0.7	0.051	0.68	5.9	99.1	2.72	2060	0.82	1.13	4	156.5	440	8.4
CC05650		14.95	0.19	0.5	0.054	0.77	4.4	101.5	2.57	2260	0.87	1.19	2.8	165	370	6.4
CC05651		14.25	0.18	0.5	0.062	0.61	3	131	2.31	2250	0.96	1.12	2.4	193	290	6.5
CC05652		14.8	0.17	0.2	0.049	0.47	1	72.7	2.87	2010	0.24	0.92	0.8	315	150	5.6
CC05653		14.2	0.19	0.6	0.045	0.64	5	89.9	2.86	1555	0.49	0.86	3.5	110	240	7.4
CC05654		13.1	0.22	0.7	0.045	0.57	10.5	66.1	5.55	1225	0.7	1.29	4.6	250	300	7.6
CC05655		13.65	0.23	0.8	0.051	0.59	13	75.6	6.35	1340	0.75	1.26	4.5	264	400	7.7
CC05656		13.4	0.23	0.8	0.051	0.57	10	83.4	6.25	1350	0.61	1.3	4.4	244	410	6.7

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



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## CERTIFICATE OF ANALYSIS VA04060616

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	
		Rb	Re	S	Sb	Se	Sn	Sr	Ta	Te	Th	Tl	Tl	U	V	W
		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	% 0.005	ppm 0.02	ppm 0.1	ppm 1	ppm 0.1
CC05617		32.6	0.003	0.03	0.24	2	14.7	47.2	0.13	0.34	1.1	0.139	0.38	0.4	204	1.3
CC05618		24.9	0.004	<0.01	0.4	1	1.6	94.9	0.3	0.28	2.9	0.2	0.31	0.9	220	0.6
CC05619		15.9	0.005	0.01	0.25	2	1	44.1	0.21	0.28	2.1	0.154	0.13	0.5	230	0.7
CC05620		11.4	0.005	0.02	0.12	3	0.7	15.6	0.05	0.6	0.3	0.105	0.12	0.2	259	0.4
CC05621		19	0.004	0.02	0.27	2	1.6	98	0.23	0.16	1.7	0.208	0.16	0.6	238	0.5
CC05622		15.6	0.004	0.01	0.15	4	0.4	7.1	<0.05	0.8	<0.2	0.093	0.22	0.1	248	0.3
CC05623		7.6	0.004	<0.01	0.08	2	0.5	5.5	<0.05	0.33	0.2	0.089	0.09	0.1	245	0.1
CC05624		9.4	0.004	0.02	0.12	4	0.6	9.1	<0.05	0.99	0.3	0.106	0.14	0.2	261	0.2
CC05625		22.2	0.004	0.01	0.34	2	2.3	67.3	0.22	0.38	2.2	0.196	0.22	0.6	238	0.6
CC05626		8.7	0.004	0.01	0.13	1	0.8	20.9	0.07	0.34	0.7	0.112	0.09	0.2	248	0.3
CC05627		27.1	0.004	0.02	0.39	2	1.1	87.3	0.36	0.16	3.5	0.224	0.21	1	204	0.7
CC05628		19.6	0.004	0.02	0.14	1	2.5	27.7	0.11	0.32	0.8	0.142	0.17	0.3	221	0.5
CC05629		30.6	0.004	0.02	0.41	2	6.1	99.8	0.32	0.22	3.7	0.225	0.27	0.9	204	1
CC05630		28	0.004	0.04	0.4	2	1.3	95.2	0.37	0.12	3.8	0.248	0.17	1	222	0.7
CC05631		28.3	0.005	0.02	0.45	2	1.7	102	0.41	0.1	4.3	0.25	0.19	1	209	1.1
CC05632		19.5	0.003	0.02	0.35	2	1.4	60.4	0.23	0.39	2.5	0.185	0.16	0.7	230	0.6
CC05633		7.3	0.004	0.01	0.07	3	0.2	6.7	<0.05	0.56	<0.2	0.105	0.05	0.1	250	0.2
CC05634		16.2	0.005	0.05	0.35	8	0.4	17.8	0.07	1.2	0.5	0.13	0.15	0.3	244	0.2
CC05635		8.5	0.004	0.01	0.14	2	0.5	15.3	0.05	0.36	0.4	0.085	0.09	0.2	188	0.2
CC05636		28.9	0.005	0.02	0.49	2	1.1	103	0.36	0.18	4.6	0.264	0.2	1	221	0.7
CC05637		33.7	0.004	0.01	0.37	1	3.3	37.4	0.12	0.08	0.6	0.16	0.44	0.5	262	3.4
CC05638		29.7	0.004	0.05	0.89	2	2.5	71.1	0.33	0.15	3	0.202	0.33	1	233	1.7
CC05639		58.1	0.005	0.05	0.87	2	3.6	80.1	0.42	0.12	3.9	0.221	0.39	1.2	239	2.5
CC05640		58.8	0.004	0.03	0.79	2	2.9	67.2	0.28	0.14	3	0.197	0.43	1.2	246	2.5
CC05641		36.9	0.004	0.02	0.84	2	3.6	82.6	0.37	0.15	2.9	0.215	0.41	1.1	239	2.4
CC05642		31.6	0.004	0.01	0.23	1	0.7	54.4	0.12	0.1	0.7	0.162	0.35	0.4	281	2.1
CC05643		24.2	0.004	0.03	0.43	2	1.5	57.1	0.2	0.11	1.6	0.194	0.31	0.7	270	2.3
CC05644		22.4	0.003	0.02	0.42	2	1.1	82.9	0.32	0.11	2.4	0.217	0.26	0.7	244	1.6
CC05645		26.6	0.004	0.02	0.57	2	2	201	0.27	0.15	2.3	0.251	0.32	0.9	239	2.2
CC05646		13.4	0.004	0.04	0.62	2	1.8	158.5	0.26	0.12	1.8	0.196	0.29	0.9	232	1.9
CC05647		38.3	0.005	0.03	1.01	2	7.2	101.5	0.55	0.36	3.2	0.249	0.46	1.7	256	5.4
CC05648		24.7	0.004	0.05	0.78	2	3.9	112	0.5	0.12	3.7	0.245	0.3	1.3	221	1.9
CC05649		19	0.004	0.04	0.67	2	4.4	68.3	0.48	0.14	1.9	0.198	0.34	1.1	246	5.6
CC05650		26.1	0.004	0.04	0.75	2	4.5	69.9	0.25	0.15	1.6	0.207	0.44	0.9	285	3.1
CC05651		14	0.004	0.04	2.65	2	3.9	73.8	0.23	0.22	1	0.207	0.34	0.9	284	3.4
CC05652		15.5	0.004	0.01	0.3	1	0.8	38.6	0.07	0.11	0.3	0.172	0.4	0.3	330	2.8
CC05653		18.2	0.005	0.02	0.48	1	4.2	66.5	0.33	0.08	1.7	0.192	0.33	1	226	3.3
CC05654		22.3	0.004	0.02	0.36	2	1.8	74.3	0.36	0.16	3.2	0.225	0.21	1	231	13.7
CC05655		28.8	0.005	0.02	0.4	2	2.7	73.8	0.37	0.17	4.3	0.232	0.2	1	242	8.8
CC05656		29.5	0.006	0.02	0.38	2	3.1	67.8	0.38	0.13	3.1	0.224	0.18	0.8	245	0.9

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



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**CERTIFICATE OF ANALYSIS VA04060616**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61
		Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
CC05617		6.6	124	6.6
CC05618		9.8	144	14.8
CC05619		7.6	155	9.2
CC05620		5.5	395	3.1
CC05621		9.3	99	9.6
CC05622		4.7	128	1.5
CC05623		5.1	118	1.3
CC05624		5.8	192	2
CC05625		9.8	144	11.8
CC05626		5.9	345	4.2
CC05627		10	104	18
CC05628		5.9	165	5.2
CC05629		10.2	110	17.4
CC05630		11	95	18.4
CC05631		11.4	89	20.9
CC05632		8.2	254	12.2
CC05633		4.4	136	1.4
CC05634		4.5	131	3.6
CC05635		4.5	99	2.7
CC05636		12	79	17.7
CC05637		9.9	92	5.6
CC05638		14.8	236	18.2
CC05639		16.4	209	17.5
CC05640		13.4	199	14.7
CC05641		12.1	223	15.4
CC05642		8.4	191	5.2
CC05643		10.4	142	9.2
CC05644		9.9	123	15.2
CC05645		10.6	177	22.3
CC05646		10.4	170	24.5
CC05647		13.8	192	19
CC05648		13.2	178	23.1
CC05649		13.2	171	12.4
CC05650		12.8	161	10.6
CC05651		11	184	9.9
CC05652		7.6	198	3.6
CC05653		10.6	133	11.5
CC05654		9.3	143	14.4
CC05655		10.2	164	16.4
CC05656		10.4	174	17.6

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



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**CERTIFICATE OF ANALYSIS VA04060616**

Sample Description	Method Analyte Units LOR	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
		Recvd Wt. kg 0.02	Ag ppm 0.01	Al % 0.01	As ppm 0.2	Ba ppm 10	Be ppm 0.05	Bi ppm 0.01	Ca % 0.01	Cd ppm 0.02	Ce ppm 0.01	Co ppm 0.1	Cr ppm 1	Cs ppm 0.05	Cu ppm 0.2	Fe % 0.01
CC05657		0.68	0.16	7.48	2.6	250	3.27	0.35	3.73	0.43	13.4	68.9	727	20.9	370	7.94
CC05658		0.68	0.14	6.38	0.9	250	4.31	0.29	3.86	0.41	7.56	72.7	735	13.4	397	7.38
CC05659		0.72	0.18	7.13	0.4	100	1.3	0.22	3.68	0.44	3.66	78.9	946	18.45	500	8.35
CC05660		0.80	0.19	5.67	1.6	200	2.81	0.28	3.28	0.4	8.13	75.4	666	16.15	592	7.05
CC05661		0.62	0.14	7.17	1.8	260	2.3	0.37	3.19	0.39	14.9	60.8	655	17.95	367	7.68
CC05662		0.70	0.13	6.09	1.4	220	3.19	0.3	3.22	0.38	11.35	54.1	637	14.65	361	7.16
CC05663		0.70	0.13	6.56	1.7	260	3.02	0.3	3.25	0.68	14.65	53.1	605	12.15	284	7.13
CC05664		0.68	0.16	6.86	2.5	260	3.64	0.38	3.11	1	14.65	66.3	607	13.1	395	7.56
CC05665		0.70	0.14	6.46	0.4	80	2.42	0.32	3.01	0.35	2.53	143	718	8.57	348	8.04
CC05666		0.68	0.21	5.69	0.8	270	3.84	0.29	3.21	0.5	7.23	70.1	603	18.15	597	7.13
CC05667		0.72	0.23	5.43	2.4	140	5.67	0.58	3.02	1.42	3.09	161.5	658	13.6	748	8.02
CC05668		0.66	0.23	7.69	1.3	220	3.24	0.34	2.59	0.83	9.07	71.1	667	33.6	686	8.05
CC05669		0.56	0.11	8.36	0.5	290	2.32	0.44	2.49	0.12	8.18	61.5	786	11.25	323	10.05
CC05670		0.56	0.11	7.78	0.5	150	1.84	0.47	2.52	0.17	5.98	64.4	731	5.26	268	10.5
CC05671		0.60	0.12	5.39	0.3	90	0.57	0.27	2.49	0.1	3.32	75.6	796	2.21	211	9.99
CC05672		0.64	0.1	7.88	<0.2	120	1.98	0.41	2.18	0.15	3.04	57.5	722	6.52	289	11.05
CC05673		0.60	0.07	7.3	<0.2	20	0.74	0.15	2.35	0.13	1.07	72	901	0.81	78	9.93
CC05674		0.66	0.09	6.55	<0.2	130	5.86	0.2	3.71	0.15	1.42	75.3	665	4.06	108.5	9.03
CC05675		0.60	0.12	5.79	<0.2	90	2.9	0.38	3.38	0.22	0.85	62.1	835	2.76	250	11.25
CC05676		0.64	0.09	6.48	<0.2	60	1.64	0.35	2.7	0.18	1.3	75.8	844	2.82	152.5	10.65
CC05677		0.64	0.17	7.51	0.7	270	1.5	0.48	2.21	0.13	9.98	63.9	747	9.37	308	9.4
CC05678		0.66	0.11	5.97	1.1	290	2.04	0.27	3	0.15	8.91	52	776	6.85	210	8.03
CC05679		0.70	0.18	6.6	0.5	210	2.58	0.35	2.28	0.14	4.3	88.7	775	8.42	470	8.8
CC05680		0.60	0.16	7.87	0.8	310	9.04	0.92	2.02	0.17	5.02	72.8	623	18.55	711	10.4
CC05681		0.70	0.14	7.85	<0.2	140	2.38	0.17	2.34	0.14	3.76	76.6	709	7.65	356	9.45
CC05682		0.60	0.12	6.43	0.7	60	7.41	0.42	2.62	0.13	1.15	55.8	724	9.72	271	10.2
CC05683		0.62	0.09	6.65	1.4	240	10.8	0.54	2.23	0.11	10.3	46.5	583	25.4	267	8.07
CC05684		0.64	0.04	5.34	0.5	120	8.31	0.59	2.79	0.18	2.37	33	461	18.15	196	5.8
CC05685		0.68	0.2	7.57	1.6	280	0.71	0.48	2.06	0.15	6.04	66.4	671	8.74	384	9.54
CC05686		0.60	0.16	6.96	2.2	310	1.71	0.27	1.92	0.15	17.4	38.7	470	9.56	214	7.55
CC05687		0.64	0.06	6.88	2.4	340	7.43	0.6	2.6	0.16	10.85	50	492	26.8	237	7.92
CC05688		0.64	0.06	6.12	1.6	250	15.85	0.65	2.86	0.21	7.21	46.9	585	29.9	222	8.33
CC05689		0.68	0.09	6.3	0.9	170	16.4	0.53	2.23	0.14	3.76	45.2	504	26.6	405	7.47
CC05690		0.62	0.17	5.08	0.3	240	13.9	1.14	2.56	0.33	1.95	70.9	568	47.6	376	7.26
CC05691		0.56	0.07	6.99	3.7	400	2.03	0.39	2.08	0.2	21	40.8	524	14.45	316	7.67
CC05692		0.58	0.04	6.67	3.7	500	1.3	0.25	2.68	0.19	31.3	29.5	349	16.75	148	5.06
CC05693		0.56	0.03	7.2	1.7	260	0.94	0.29	2.65	0.13	12.15	40.5	577	10.15	110	7.54
CC05694		0.64	0.06	7.5	2	330	0.86	0.38	2.61	0.14	8.77	44.3	709	18.7	163.5	7.99
CC05695		0.56	0.04	7.09	3.4	360	1.19	0.46	2.23	0.21	19.85	42.4	536	11.75	267	7.41
CC05696		0.54	0.1	7.95	1.5	190	0.57	0.36	2.7	0.14	3.57	47.9	618	10.8	118	8.72

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



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Account: EMP

Project: Straw

## CERTIFICATE OF ANALYSIS VA04060616

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
		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
CC05657		14.05	0.26	0.6	0.043	0.49	7	7.66	1475	0.62	1.23	2.7	359	240	6.3
CC05658		13.05	0.2	0.4	0.042	0.4	4	97.7	1385	0.51	1.04	1.8	387	170	5.3
CC05659		12.15	0.21	0.2	0.044	0.21	1.7	94.6	9.65	1760	0.49	0.75	405	110	4.1
CC05660		12.7	0.17	0.4	0.043	0.41	3.9	93.7	7.31	1425	0.49	0.98	364	150	6.8
CC05661		12.35	0.2	0.6	0.045	0.47	7.2	93.5	6.87	1405	0.61	1.06	332	240	6.6
CC05662		12.6	0.2	0.4	0.044	0.45	5.7	90	6.43	1415	0.48	1.16	276	200	5.5
CC05663		12.7	0.21	0.6	0.052	0.45	7.1	83.6	6.01	1630	0.73	1.2	255	320	6.2
CC05664		13.15	0.23	0.6	0.047	0.49	7	99.9	6.96	1845	1.02	1.05	293	220	6.4
CC05665		12.45	0.22	0.2	0.033	0.16	1.1	149	9.67	1525	0.36	0.69	562	80	3.4
CC05666		13.65	0.19	0.5	0.039	0.61	3.4	105	6.56	1285	0.61	1.18	314	220	5.9
CC05667		13.45	0.19	0.2	0.04	0.3	1.2	148.5	8.17	2000	1.01	1.05	499	90	6.7
CC05668		13.1	0.2	0.4	0.048	0.43	4.3	103	6.77	1810	0.45	1.21	328	150	7.3
CC05669		13.3	0.23	0.4	0.051	0.33	4.2	79.8	9.62	1465	0.79	0.57	320	150	3
CC05670		13.75	0.23	0.4	0.046	0.19	3	59.7	9.63	1410	1.02	0.38	308	90	1.9
CC05671		12.2	0.21	0.2	0.047	0.13	1.7	62.1	8.94	1350	0.4	0.31	369	50	1.5
CC05672		13.55	0.22	0.3	0.043	0.14	1.5	61.7	9.88	1355	0.57	0.26	241	70	1.2
CC05673		13.35	0.22	0.1	0.038	0.01	0.5	64.3	11.3	1420	0.36	0.09	438	50	<0.5
CC05674		11.8	0.24	0.1	0.048	0.09	0.6	78.4	10.35	1575	1.15	0.26	483	40	<0.5
CC05675		12.85	0.23	0.1	0.062	0.05	<0.5	52.8	10.25	1670	1	0.19	257	30	<0.5
CC05676		13.1	0.26	0.2	0.049	0.06	0.6	50.9	10.25	1435	0.4	0.16	357	20	<0.5
CC05677		13.25	0.22	0.6	0.047	0.41	5	63.1	8.64	1300	0.77	0.64	299	170	3.1
CC05678		11.4	0.21	0.4	0.046	0.31	4.4	65.5	8.25	1405	0.76	0.62	291	150	4.2
CC05679		11.85	0.21	0.2	0.053	0.19	2.1	90.8	9.35	1505	1.22	0.39	406	150	3
CC05680		13.05	0.24	0.3	0.049	0.36	2.5	91.8	8.49	1280	0.86	0.39	322	210	2.8
CC05681		11.95	0.21	0.2	0.053	0.11	1.8	94.7	10.95	1570	0.49	0.22	378	70	0.6
CC05682		12.75	0.28	0.2	0.054	0.11	<0.5	54	9.54	1345	0.59	0.16	234	40	1.4
CC05683		12	0.15	0.5	0.047	0.44	5.4	66.5	7.17	1165	3.37	0.52	198.5	180	3.7
CC05684		10.9	0.12	0.2	0.035	0.25	1.1	40.4	6.35	1085	2.38	0.39	157	70	3
CC05685		12.3	0.16	0.4	0.061	0.26	3	94.9	9.28	1535	0.73	0.45	234	170	2.5
CC05686		13.45	0.18	0.9	0.051	0.51	8.8	71.5	6.29	1190	0.83	0.71	157	350	5.4
CC05687		12.25	0.19	0.6	0.047	0.59	5.5	68.8	7.17	1240	2.31	0.69	202	390	6
CC05688		10.8	0.16	0.5	0.049	0.53	3.6	59.1	7.58	1150	3.72	0.48	243	270	3.7
CC05689		12.6	0.14	1.2	0.045	0.36	1.8	53.8	6.85	1030	7.32	0.38	172.5	130	3
CC05690		11	0.14	0.2	0.043	0.43	1	77	6.85	1445	5.23	0.35	247	100	2.8
CC05691		13.55	0.16	1	0.077	0.63	11	85	6.25	1080	0.95	0.84	203	420	6.1
CC05692		12.6	0.14	1.4	0.049	0.86	16.2	63.2	4.41	962	0.89	1.36	128.5	480	8.4
CC05693		12.35	0.16	0.6	0.052	0.36	6	93.2	8.69	1350	0.6	0.72	230	150	3.3
CC05694		12.05	0.15	0.4	0.043	0.34	4.4	110	9.51	1295	1.06	0.74	257	330	3.2
CC05695		12.75	0.16	0.8	0.048	0.64	10.2	86.1	6.5	1070	1.9	0.92	225	330	5.9
CC05696		12.8	0.17	0.3	0.053	0.17	1.8	123.5	10.95	1540	1.5	0.49	265	120	1.4

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



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**CERTIFICATE OF ANALYSIS VA04060616**

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	Re	S	Sb	Se	Sn	Sr	Ta	Te	Th	Tl	Tl	U	V	W
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.1	0.002	0.01	0.05	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1
CC05657		25.3	0.005	0.01	0.26	2	3.2	89.8	0.24	0.15	1.9	0.202	0.18	0.7	268	1
CC05658		19.2	0.005	0.01	0.19	1	4.8	58.4	0.18	0.14	1.1	0.153	0.17	0.5	252	4.9
CC05659		14.8	0.005	0.01	0.12	2	1.2	29.5	0.06	0.24	0.4	0.14	0.11	0.2	268	0.5
CC05660		20.6	0.004	0.01	0.2	2	2.3	64.9	0.18	0.19	0.9	0.146	0.16	0.5	237	0.6
CC05661		25.4	0.005	0.01	0.33	2	2.4	61.6	0.24	0.15	2.6	0.198	0.18	0.7	249	1.1
CC05662		21.9	0.004	0.01	0.27	2	3.6	49.5	0.33	0.14	1.7	0.169	0.19	0.6	257	0.8
CC05663		21.1	0.005	0.02	0.28	2	2.9	57.4	0.27	0.14	2.1	0.19	0.17	0.7	245	0.7
CC05664		25.7	0.005	0.01	0.35	2	3.9	63.2	0.47	0.16	2.2	0.2	0.24	0.7	247	0.8
CC05665		9	0.004	<0.01	0.1	2	2.6	18.4	0.08	0.16	0.3	0.116	0.29	0.2	247	0.4
CC05666		26.3	0.004	0.01	0.22	2	4	147.5	0.19	0.14	0.7	0.177	0.27	0.5	237	0.6
CC05667		18.5	0.004	0.01	0.17	2	4.9	30.2	0.15	0.15	0.2	0.125	0.49	0.3	255	0.6
CC05668		29.2	0.004	0.01	0.21	2	1.2	48.4	0.15	0.14	1.3	0.186	0.2	0.5	276	1.2
CC05669		21.8	0.006	0.03	0.22	3	2.6	32.5	0.22	0.19	1.3	0.188	0.22	0.5	271	0.5
CC05670		10.2	0.006	0.02	0.15	3	1.8	24.5	0.14	0.26	0.9	0.169	0.1	0.4	259	0.4
CC05671		5	0.004	0.01	0.11	2	0.5	14.4	0.09	0.16	0.3	0.115	0.08	0.3	244	0.3
CC05672		10.6	0.006	0.02	0.1	2	2.9	14.1	0.13	0.26	0.5	0.173	0.11	0.3	269	0.3
CC05673		0.5	0.005	0.02	0.05	1	0.5	2.5	<0.05	0.08	<0.2	0.16	<0.02	0.1	264	0.1
CC05674		7.3	0.005	<0.01	0.05	1	3.1	3.9	0.08	0.09	<0.2	0.152	0.09	0.1	287	0.3
CC05675		3.6	0.005	0.01	0.06	2	4.1	5	0.05	0.2	<0.2	0.116	0.07	0.1	263	0.2
CC05676		2.4	0.005	0.01	0.05	1	2.4	11.5	0.05	0.12	<0.2	0.138	0.04	0.2	269	0.1
CC05677		18	0.006	0.03	0.21	2	2.1	75.1	0.22	0.17	1.4	0.172	0.18	0.6	242	0.4
CC05678		16.6	0.005	0.01	0.22	2	1.9	35.7	0.2	0.14	1.2	0.16	0.18	0.4	230	0.5
CC05679		13.3	0.005	0.02	0.16	2	1.4	22.8	0.18	0.19	0.5	0.128	0.18	0.4	257	0.3
CC05680		38.6	0.006	0.05	0.17	2	6	23	0.12	0.19	0.9	0.184	0.35	0.5	257	0.5
CC05681		9.4	0.004	0.01	0.08	2	5.8	10.1	0.05	0.13	0.5	0.153	0.1	0.6	283	0.3
CC05682		17.3	0.002	0.01	0.1	2	9.4	11.3	0.15	0.12	0.2	0.11	0.15	0.1	241	0.2
CC05683		49.5	0.002	0.02	0.25	2	11.2	43.4	0.27	0.08	1.8	0.177	0.37	0.5	207	0.6
CC05684		38.7	<0.002	0.01	0.09	1	29	40.5	0.2	<0.05	0.3	0.109	0.29	0.2	172	0.2
CC05685		22.1	0.003	0.02	0.22	3	1	24.8	0.14	0.2	1	0.19	0.16	0.4	267	0.4
CC05686		27.3	0.002	0.02	0.38	1	2.7	60.9	0.36	0.09	2.7	0.265	0.24	0.8	227	0.8
CC05687		60.8	0.002	0.03	0.31	2	9.8	52.8	0.26	0.11	1.9	0.188	0.48	0.6	217	1.4
CC05688		67.2	0.002	0.02	0.22	2	13.4	38	0.23	0.06	1.3	0.161	0.55	0.4	206	1.2
CC05689		58.4	0.003	0.02	0.1	2	20.1	41.5	0.35	0.1	0.9	0.137	0.42	0.6	189	0.4
CC05690		87.5	0.003	0.01	0.11	2	25.5	43.8	0.46	0.08	0.2	0.087	0.7	0.3	180	0.4
CC05691		36.4	0.004	0.04	0.47	2	2.6	74.4	0.38	0.21	3.5	0.229	0.23	1	210	2.2
CC05692		41.4	0.002	0.02	0.56	1	1.9	128	0.6	0.09	4.7	0.264	0.24	1.3	188	1
CC05693		21.9	0.002	0.02	0.24	1	1.9	41.6	0.22	0.14	1.8	0.179	0.15	0.5	245	0.4
CC05694		27.7	<0.002	0.02	0.27	1	1	32.6	0.16	0.21	1.3	0.16	0.17	0.4	228	0.4
CC05695		31.5	<0.002	0.03	0.54	2	1.4	74.3	0.31	0.33	3.4	0.241	0.21	0.8	223	0.7
CC05696		15.4	<0.002	0.02	0.16	1	0.7	15.3	0.06	0.21	0.5	0.127	0.1	0.2	268	0.2

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



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## CERTIFICATE OF ANALYSIS VA04060616

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61
		Y	Zn	Zr
		ppm 0.1	ppm 2	ppm 0.5
CC05657		9.1	150	12.9
CC05658		7.3	139	7.9
CC05659		7.2	213	3.7
CC05660		7.1	148	7.9
CC05661		9.5	157	12.4
CC05662		8.7	205	8.5
CC05663		10.6	273	11.1
CC05664		9.8	347	13.6
CC05665		6	163	3
CC05666		6.9	120	11.3
CC05667		6.8	174	3.2
CC05668		11.2	112	7.1
CC05669		7.6	198	8.5
CC05670		7.5	174	6.8
CC05671		4.9	172	3.1
CC05672		6.4	180	5
CC05673		4.6	192	2.2
CC05674		7.1	194	2
CC05675		5.4	178	2
CC05676		6	184	3.7
CC05677		7.6	178	15
CC05678		6.6	176	7.2
CC05679		6.2	230	5.8
CC05680		6.7	199	5
CC05681		7.2	214	4.1
CC05682		6.5	153	3.8
CC05683		7.5	134	11.8
CC05684		6.5	108	3.8
CC05685		7.5	205	8.7
CC05686		9.4	142	26.5
CC05687		8.7	132	16.4
CC05688		8	123	10.9
CC05689		6.5	126	11.8
CC05690		8.1	128	3.9
CC05691		9.4	158	26.1
CC05692		10.8	113	35.9
CC05693		8.8	183	14.6
CC05694		7.1	188	11
CC05695		9.2	176	22.9
CC05696		7.4	215	5.6

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



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Finalized Date: 20-SEP-2004

Account: EMP

## CERTIFICATE OF ANALYSIS VA04060616

Sample Description	Method Analyte Units LOR	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
		Recvd Wt. kg 0.02	Ag ppm 0.01	Al % 0.01	As ppm 0.2	Ba ppm 10	Be ppm 0.05	Bi ppm 0.01	Ca % 0.01	Cd ppm 0.02	Ce ppm 0.01	Co ppm 0.1	Cr ppm 1	Cs ppm 0.05	Cu ppm 0.2	Fe % 0.01
CC05697		0.54	0.06	7.22	1.2	330	1.4	0.35	3.05	0.14	5.14	44.4	636	23.9	135.5	8.27
CC05698		0.56	0.02	6.74	1.5	310	1.31	0.32	2.76	0.11	12.65	38.8	604	13.95	143	7.35
CC05699		0.58	0.05	6.79	1.2	250	1.01	0.32	2.74	0.12	9.79	34.8	582	13.65	96.1	6.94
CC05700		0.62	0.1	7.29	1.2	280	1.03	0.4	2.66	0.13	6.28	48.8	571	13.8	169	8.2
CC05701		0.62	0.17	7.45	0.4	220	0.31	0.44	2.88	0.12	1.9	40.9	559	9.38	92.7	8.78
CC05702		0.70	0.08	7.4	2.5	480	1.4	0.37	2.03	0.18	21.6	88.7	542	12.2	404	7.89
CC05703		0.60	0.09	7.2	4.2	490	1.99	0.18	2.81	0.25	33.1	33.8	400	19.9	240	5.67
CC05704		0.60	0.11	6.96	2.2	330	1.5	0.34	2.82	0.2	17.5	60.4	528	23.4	145.5	6.52
CC05705		0.70	0.16	7.24	0.8	130	2.68	0.62	2.61	0.15	2.36	58.4	683	7.64	224	10.5
CC05706		0.62	0.18	8.06	0.8	200	2.42	0.93	2.79	0.2	3.12	44.7	709	8.13	253	11.35
CC05707		0.60	0.04	6.93	0.3	460	0.47	0.28	2.77	0.11	3.27	34.8	460	20.5	137	7.42
CC05708		0.56	0.04	7.15	1.1	270	1.32	0.28	2.68	0.12	7.63	48.7	576	22.3	118	7.53
CC05709		0.56	0.04	6.37	2.8	340	2.63	0.27	2.47	0.16	22.2	48.4	465	17.8	124.5	6.69
CC05710		0.66	0.04	5.08	2.6	100	1.66	0.26	2.85	0.1	4.34	71.7	760	5.18	67.5	8.4
CC05711		0.62	0.09	7.25	1.5	220	1.06	0.38	2.84	0.13	9.81	45.7	732	17.45	137	8.1
CC05712		0.64	0.11	7.1	1.2	250	0.8	0.31	2.66	0.12	8.99	54.5	566	20.6	137.5	7.6
CC05713		0.66	0.11	6.81	0.2	180	0.74	0.4	2.81	0.09	1.36	51.9	647	17.75	152.5	8.24
CC05714		0.66	0.08	6.76	0.7	90	2.18	0.4	2.27	0.16	2.66	67.6	747	5.69	189	8.8
CC05715		0.58	0.06	6.98	2.6	380	3.41	0.31	2.62	0.22	23.3	50.3	546	16.3	139.5	6.61
CC05716		0.56	0.05	6.57	2.6	300	1.16	0.2	3.11	0.23	20.1	35.9	409	21.8	123	6.02
CC05717		0.66	0.07	6.11	2.7	340	1.1	0.23	2.28	0.16	20.7	60.3	436	15.4	226	6.52
CC05718		0.60	0.07	7.65	0.6	280	3.76	0.41	3.86	0.22	5.22	73.2	700	16.2	130.5	8.69
CC05719		0.56	0.09	7.58	1.4	310	2.3	0.47	3.3	0.13	13.75	49.6	690	18.15	195.5	7.39
CC05720		0.60	0.03	8.67	<0.2	60	1.76	0.37	1.79	0.06	1.31	70.5	623	2.87	84.8	10.3
CC05721		0.60	0.08	7.36	0.4	200	1.47	0.44	2.68	0.1	6.4	49.9	618	12.45	158	8.16
CC05722		0.56	0.13	7.26	0.6	240	3.51	0.64	3.04	0.12	10.35	50.6	621	25.2	253	7.83
CC05723		0.62	0.08	7.79	0.2	130	0.99	0.53	1.52	0.06	3.35	67	670	8.24	215	12.05
CC05724		0.62	0.12	8.45	<0.2	30	0.68	0.69	0.91	0.03	1.66	71.2	686	2.39	253	12.7
CC05725		0.70	0.06	7.35	<0.2	80	1.32	0.55	1.75	0.06	1.76	69.5	742	5.34	160.5	11.65
CC05726		0.56	0.14	7.69	<0.2	80	3.05	0.87	1.05	0.08	1.96	76.8	760	5.47	484	11.95
CC05727		0.58	0.06	5.04	<0.2	110	1.5	0.27	4.8	0.14	6.65	67.6	901	8.53	99.5	7.01
CC05728		0.70	0.13	7.98	0.5	210	1.57	0.71	2.4	0.08	2.56	84.9	576	12.25	463	11.35
CC05729		0.64	0.1	8.2	0.2	310	5.49	0.71	1.2	0.15	3.5	141.5	741	20.3	778	13.05
CC05730		0.68	0.12	7.27	<0.2	100	1.74	0.6	1.85	0.11	3.16	223	946	11	1800	18.65
CC05731		0.72	0.06	6.86	0.4	100	2.73	0.36	1.79	0.1	2.77	124.5	736	10.5	302	12.9
CC05732		0.66	0.07	7.69	<0.2	170	2.44	0.41	2.71	0.1	5.7	119.5	826	9.72	313	11.1
CC05733		0.72	0.06	6.81	0.3	100	2.15	0.41	2.99	0.1	4.57	125.5	838	12.35	435	11.3
CC05734		0.62	0.09	6.41	1.1	310	1.86	0.3	4.83	0.29	13.95	58.5	567	19.75	210	6.81
CC05735		0.66	0.06	6.96	<0.2	310	0.85	0.3	4.05	0.2	1.84	52.6	710	11.9	251	9.11
CC05736		0.62	0.1	7.89	<0.2	100	1.08	0.46	1.17	0.08	2.22	133.5	768	13.75	906	17.2

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



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Finalized Date: 20-SEP-2004

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## CERTIFICATE OF ANALYSIS VA04060616

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	
		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
CC05697		12.25	0.13	0.3	0.055	0.27	2.5	113	9.72	1465	0.77	0.78	1	226	150	2.1
CC05698		12.25	0.16	0.6	0.053	0.39	6.3	105.5	8.6	1265	0.86	0.7	2.6	197	150	3.2
CC05699		11.9	0.17	0.5	0.051	0.31	5.1	96.8	8.24	1245	1.04	0.84	2.2	172.5	160	3.2
CC05700		12.4	0.15	0.4	0.062	0.29	3.1	104	9.08	1345	0.55	0.75	1.4	222	120	2.4
CC05701		12.95	0.16	0.2	0.06	0.13	0.9	105.5	10.4	1485	0.12	0.66	0.3	222	90	1
CC05702		13.2	0.15	0.9	0.059	0.62	10	101	7.05	1325	1.9	0.85	4.2	251	330	5.6
CC05703		14.1	0.13	1.2	0.055	0.82	18.4	80.7	5.11	1055	0.93	1.37	6.5	157	430	9.2
CC05704		13.25	0.18	0.8	0.048	0.53	9	94.8	7.07	1300	0.93	1.01	3.6	267	280	6.4
CC05705		12.65	0.17	0.3	0.062	0.1	1.1	100	10.55	1505	1.26	0.28	1.2	360	80	1
CC05706		13.2	0.22	0.3	0.062	0.16	1.4	106	10.9	1480	0.81	0.39	0.9	238	100	1.5
CC05707		12.1	0.16	0.3	0.055	0.3	1.5	124.5	8.76	1360	0.23	1.16	0.7	179	90	2
CC05708		12.75	0.13	0.4	0.058	0.29	3.8	112.5	9.41	1385	0.65	0.78	1.9	254	110	2.6
CC05709		12.95	0.19	0.9	0.048	0.55	10.6	76.7	6.2	1150	0.87	0.92	4.4	184.5	160	5.7
CC05710		10.6	0.29	0.3	0.04	0.13	2	75.8	9.11	1395	0.73	0.26	1.1	362	120	1.9
CC05711		12.35	0.16	0.5	0.05	0.31	5.1	96.5	9.17	1425	1.12	0.74	2.3	235	190	3.6
CC05712		12.7	0.13	0.5	0.052	0.29	4.7	114	9.55	1370	0.73	0.72	1.7	288	140	2.8
CC05713		12.2	0.18	0.2	0.043	0.13	0.6	119.5	10.1	1355	0.84	0.62	0.2	286	50	1.2
CC05714		12.8	0.24	0.3	0.037	0.11	1.2	83.5	10.15	1435	1.72	0.37	0.7	413	70	1.9
CC05715		13.45	0.15	1.1	0.049	0.59	11.8	81.1	6.93	1205	1.06	0.98	4.7	241	270	6
CC05716		12.7	0.16	0.9	0.045	0.52	10.6	78.7	6.01	1270	0.64	1.18	4.2	150.5	290	6.3
CC05717		13.8	0.22	0.9	0.046	0.57	10.1	102.5	6.55	1170	1.1	0.97	4.2	219	170	5.9
CC05718		13.45	0.23	0.3	0.048	0.27	2.4	98.1	9.85	1700	1.22	0.52	1.4	378	60	2.6
CC05719		13.7	0.19	0.6	0.057	0.42	6.9	90.3	7.87	1315	1.33	0.85	3.7	262	150	4.5
CC05720		15.4	0.24	0.2	0.06	0.04	0.5	73.2	10.25	1590	0.61	0.16	0.8	301	100	0.8
CC05721		12.55	0.17	0.3	0.048	0.24	3.2	96.5	9.05	1405	1.29	0.6	1.6	288	120	2.2
CC05722		14.5	0.21	0.4	0.049	0.37	5	76.9	7.68	1385	1.37	0.77	3.5	265	110	3.9
CC05723		14.75	0.23	0.2	0.06	0.13	1.6	57.8	8.01	1205	0.61	0.25	1.2	204	80	1.6
CC05724		16.6	0.26	0.2	0.063	0.02	0.7	70.4	8.86	1110	0.42	0.12	0.6	238	50	0.8
CC05725		15.05	0.24	0.2	0.064	0.09	0.8	60.2	8.84	1455	0.8	0.19	0.9	281	70	1.5
CC05726		13.9	0.2	0.2	0.059	0.04	1	58.6	8.23	1280	3.9	0.18	1.1	243	70	1.4
CC05727		9.09	0.16	0.2	0.036	0.18	3.3	46.4	10.1	1340	0.69	0.44	1.4	542	80	2.2
CC05728		14.55	0.23	0.2	0.062	0.18	1	75.8	8.54	1465	3.63	0.32	0.7	269	80	1.8
CC05729		14.55	0.25	0.1	0.08	0.24	1.5	91.6	8.34	1745	3.69	0.14	1.6	448	50	1.1
CC05730		24.8	0.34	0.2	0.14	0.1	1.3	88.5	8.62	2170	5.26	0.21	0.8	392	70	1.8
CC05731		16	0.26	0.2	0.065	0.1	1.2	76.8	7.71	1580	1.66	0.21	0.9	334	120	1.3
CC05732		13.8	0.22	0.2	0.063	0.18	2.5	71.5	9.27	1800	1.66	0.38	1.1	402	110	1.9
CC05733		12.6	0.22	0.2	0.066	0.18	1.8	58.7	9.32	1720	1.36	0.26	1.1	436	80	1.5
CC05734		11.3	0.2	0.5	0.047	0.43	6.9	56.5	8.07	1455	0.8	0.96	2.9	355	210	3.7
CC05735		12.05	0.3	0.1	0.071	0.3	0.8	68.1	8.88	1925	0.58	0.48	0.5	273	70	1.2
CC05736		17.3	0.29	0.2	0.095	0.13	0.9	66.4	7.23	1605	2.67	0.14	0.8	279	90	0.8

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



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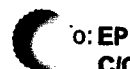
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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb	Re	S	Sb	Se	Sn	Sr	Ta	Te	Th	Tl	Tl	U	V	W
		ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.2	% 0.005	ppm 0.02	ppm 0.1	ppm 1	ppm 0.1
CC05697		25.9	<0.002	0.03	0.17	1	1.2	24.4	0.1	0.19	0.7	0.153	0.17	0.3	267	0.2
CC05698		24.9	0.004	0.02	0.27	1	1.6	44	0.26	0.17	1.7	0.165	0.19	0.5	235	0.4
CC05699		21.4	0.003	0.02	0.21	1	1.3	37.6	0.22	0.16	1.4	0.157	0.13	0.4	231	0.6
CC05700		22.9	0.002	0.02	0.2	2	1.6	32.3	0.13	0.19	0.9	0.153	0.15	0.4	262	0.3
CC05701		14.6	0.003	0.02	0.1	1	0.5	14	<0.05	0.28	<0.2	0.12	0.08	0.2	287	0.1
CC05702		41.7	0.003	0.02	0.48	1	1.3	73.2	0.35	0.24	3.7	0.237	0.23	1	236	0.8
CC05703		39.8	0.002	0.02	0.85	1	2.6	128	0.52	0.12	5.2	0.269	0.24	1.3	198	2.2
CC05704		31.2	<0.002	0.01	0.38	<1	1.9	74.8	0.29	0.12	2.7	0.198	0.22	0.7	223	1.2
CC05705		9.8	0.003	0.01	0.14	1	2.5	8.8	0.36	0.19	0.4	0.179	0.09	0.6	263	0.5
CC05706		14.6	0.003	0.03	0.11	2	2.4	14	0.15	0.24	0.4	0.145	0.11	0.3	268	0.2
CC05707		27.7	0.004	0.06	0.11	1	0.6	30.7	0.09	0.18	0.3	0.126	0.22	0.2	265	0.1
CC05708		23.1	0.002	0.02	0.19	1	1.8	34.4	0.25	0.11	1.1	0.144	0.14	0.4	250	0.3
CC05709		29.8	<0.002	0.01	0.46	1	2.3	76.5	0.39	0.1	3.5	0.204	0.22	1.2	206	0.9
CC05710		8.1	0.002	0.01	0.27	<1	3.4	16.7	0.11	0.07	0.5	0.122	0.1	0.4	213	0.3
CC05711		20	0.004	0.02	0.23	2	1.5	36.7	0.2	0.21	1.5	0.165	0.14	0.4	250	0.4
CC05712		22.5	0.002	0.01	0.22	1	1.2	36.8	0.14	0.15	1.6	0.14	0.15	0.4	246	0.4
CC05713		14.8	0.003	0.04	0.08	2	1.1	13.1	<0.05	0.19	<0.2	0.099	0.11	0.1	253	0.1
CC05714		8.2	0.003	0.01	0.08	1	3.9	16.2	0.1	0.07	0.3	0.101	0.04	0.3	262	0.3
CC05715		32.4	0.002	0.01	0.46	1	4	81.4	0.45	0.14	3.4	0.223	0.19	0.9	209	1
CC05716		25.8	0.002	0.01	0.44	1	2.1	79.7	0.33	0.08	3.2	0.229	0.15	0.8	220	0.9
CC05717		30.8	0.003	0.01	0.43	1	1.4	79.5	0.34	0.13	2.9	0.197	0.19	0.8	216	1
CC05718		26.5	<0.002	0.01	0.23	3	8.6	21.5	0.22	0.15	0.7	0.128	0.21	0.3	250	0.4
CC05719		27	<0.002	0.01	0.31	3	3.4	54.1	0.36	0.15	2	0.186	0.23	0.6	241	0.6
CC05720		3.6	<0.002	0.01	0.21	2	2.4	7.2	0.11	0.14	<0.2	0.291	0.03	0.2	292	0.4
CC05721		17.3	<0.002	0.01	0.16	3	1.6	29.2	0.15	0.21	0.8	0.144	0.12	0.3	251	0.3
CC05722		41.6	<0.002	0.01	0.21	3	7.9	42.2	0.67	0.17	1.5	0.164	0.25	0.5	229	0.6
CC05723		11.1	0.002	0.01	0.11	3	1.8	23.3	0.12	0.32	0.4	0.182	0.1	0.2	262	0.2
CC05724		1.8	0.004	0.01	0.06	4	1	12.7	0.07	0.4	<0.2	0.211	0.02	0.1	283	0.2
CC05725		7.7	0.002	0.01	0.11	2	3.9	13.5	0.1	0.22	0.2	0.214	0.08	0.2	288	0.3
CC05726		4.8	0.005	0.02	0.13	4	5.3	21.3	0.15	0.25	0.2	0.183	0.06	0.2	254	4.2
CC05727		11	<0.002	0.01	0.15	2	1.8	27	0.16	0.14	0.8	0.114	0.07	0.3	180	0.3
CC05728		19.7	0.005	0.03	0.13	4	3.4	22.3	0.08	0.28	0.2	0.164	0.2	0.8	256	0.8
CC05729		40.5	0.002	0.02	0.09	4	8.7	20.2	0.25	0.37	0.2	0.16	0.35	0.6	261	0.5
CC05730		6.7	0.008	0.02	0.16	7	1.9	16.9	0.1	0.55	0.2	0.17	0.24	0.4	342	0.5
CC05731		9.1	<0.002	0.01	0.15	2	2.9	16.5	0.11	0.18	0.2	0.169	0.16	0.2	256	0.3
CC05732		15.7	<0.002	0.01	0.16	2	2	25.7	0.12	0.21	0.6	0.168	0.2	0.4	266	2.4
CC05733		22.7	<0.002	0.01	0.1	2	4.5	16.7	0.17	0.24	0.6	0.143	0.24	0.5	240	5.4
CC05734		23.5	<0.002	0.01	0.28	1	4.4	68.1	0.27	0.1	1.8	0.19	0.18	0.6	225	39.3
CC05735		16.8	<0.002	0.03	0.07	2	0.8	31.2	0.06	0.15	0.2	0.136	0.13	0.2	269	0.4
CC05736		13.1	0.003	0.04	0.09	3	1.8	10.2	0.07	0.45	0.2	0.168	0.16	0.3	291	0.3

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



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## CERTIFICATE OF ANALYSIS VA04060616

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61
		Y	Zn	Zr
		ppm 0.1	ppm 2	ppm 0.5
CC05697		8.4	200	6.5
CC05698		8.1	182	15
CC05699		7.8	184	12.1
CC05700		8.5	196	9.9
CC05701		9.7	200	4.8
CC05702		9.6	182	22.2
CC05703		12.6	136	32.9
CC05704		9	156	21.2
CC05705		8.6	196	5.3
CC05706		7.7	202	6.7
CC05707		9.1	194	5.3
CC05708		8.4	191	10.2
CC05709		9.8	108	24
CC05710		5.7	92	6.3
CC05711		8.1	160	12.6
CC05712		8.2	172	12.4
CC05713		7.1	142	3.3
CC05714		5.7	192	6.4
CC05715		9.5	162	25.9
CC05716		10.2	177	23.2
CC05717		9.6	150	22.4
CC05718		7.6	184	6.9
CC05719		9.2	152	16.1
CC05720		11.6	152	5.1
CC05721		7.6	168	8.8
CC05722		8.4	140	10.8
CC05723		7.2	108	6.2
CC05724		6.4	108	4.1
CC05725		6.9	120	4
CC05726		6.3	114	3.9
CC05727		5	110	6.5
CC05728		7	148	3.7
CC05729		7.5	130	3
CC05730		8.9	156	4.6
CC05731		6.9	100	4.6
CC05732		7.3	121	6.3
CC05733		6.5	121	6.7
CC05734		8.6	124	13
CC05735		6.8	186	2.9
CC05736		6.8	109	4.4

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



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## CERTIFICATE OF ANALYSIS VA04060616

Sample Description	Method Analyte Units LOR	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
		Recvd Wt. kg 0.02	Ag ppm 0.01	Al % 0.01	As ppm 0.2	Ba ppm 10	Be ppm 0.05	Bi ppm 0.01	Ca % 0.01	Cd ppm 0.02	Ce ppm 0.01	Co ppm 0.1	Cr ppm 1	Cs ppm 0.05	Cu ppm 0.2	Fe % 0.01
CC05737		0.74	0.1	7.09	0.3	210	12.7	0.35	1.61	0.07	2.06	123.5	741	20.9	364	12.55
CC05738		0.78	0.08	6.94	4.7	410	2.96	0.82	4.22	0.28	8.57	104.5	650	24.2	281	8.79
CC05739		0.64	0.06	7.06	3.2	710	1.16	0.4	5.32	0.17	11.65	87.7	523	24.1	162	7.39
CC05740		0.78	0.05	6.42	1	210	1.22	0.31	4.66	0.13	3.4	92	973	11.55	239	7.79
CC05741		0.62	0.07	6.13	1.4	190	1.08	0.37	2.81	0.1	3.33	61	780	9.23	436	8.76
CC05742		0.70	0.07	6.82	0.3	180	1.72	0.57	2.55	0.19	1.6	54.8	694	19.8	613	12.5
CC05743		0.70	0.07	7.92	<0.2	240	1.64	0.52	1.19	0.09	3.08	176.5	692	32.1	473	12.6
CC05744		0.68	0.1	8.03	<0.2	100	1.46	0.43	2.03	0.14	3.54	105	774	9.09	587	12.95
CC05745		0.68	0.07	6.81	0.6	290	2.53	0.34	4.1	0.26	5.35	67	628	24.5	288	7.35
CC05746		0.66	0.17	7.54	0.2	330	4.29	0.53	3.55	0.21	4.17	89	675	128.5	327	7.17
CC05747		0.64	0.1	3.49	<0.2	280	1.36	0.46	1.38	0.13	1.64	67.5	796	19.1	593	15.25
CC05748		0.68	0.07	7.74	0.4	430	2.39	0.4	3.17	0.12	2.88	86.3	775	40.1	472	9.9
CC05749		0.62	0.11	7.45	0.2	280	2.44	0.49	2.85	0.17	2.5	92	811	35	301	9.72
CC05750		0.70	0.11	7.49	0.7	380	2.81	0.43	2.65	0.18	3.05	137	810	22.6	717	10.6
CC05751		0.72	0.78	4.93	0.8	420	0.42	1.35	0.82	0.09	1.2	23.7	679	23.1	1080	>25.0
CC05752		0.66	0.06	7.81	1.1	410	2.62	0.51	2.63	0.16	9.95	37.6	663	17.85	150	9.32
CC05753		0.60	0.11	7.54	1.4	380	2.55	0.63	2.62	0.2	13.2	38	684	17.5	158	9.04
CC05754		0.58	0.07	7.1	3.1	560	2.05	0.48	2.44	0.18	20.9	28.5	492	18.45	155	7.17
CC05755		0.62	0.27	5.55	0.7	420	5.41	2.25	2.95	0.22	1.96	16.8	616	19.45	327	16.05
CC05756		0.64	0.09	6.09	0.3	110	14.75	0.26	1.84	0.15	1.24	36.5	312	18.45	216	4.17
CC05757		0.58	0.23	6.23	<0.2	280	6.03	1.7	3.06	0.33	2.15	86.9	582	42.1	818	11.95
CC05758		0.56	0.08	6.58	1.6	320	8.68	0.51	2.57	0.24	10.55	58.6	652	27.3	289	7.72
CC05759		0.66	0.09	7.44	2.5	410	1.52	0.27	2.37	0.21	20.5	50.8	545	13.7	377	7.34
CC05760		0.68	0.13	8.27	4.6	360	1.55	0.2	1.48	0.17	10.25	140.5	662	13.4	795	9.8
CC05761		0.60	0.07	6.98	0.7	390	1.21	0.2	2.2	0.21	8.53	167.5	637	11.15	703	7.37
CC05762		0.76	0.29	7.65	<0.2	120	0.8	1.54	2.49	0.26	1.64	34.9	734	4.56	450	12.65
CC05763		0.62	0.08	7.79	0.2	430	0.87	0.4	2.85	0.18	6.38	43	588	24	147.5	8.17
CC05764		0.62	0.09	6.77	2.6	310	1.86	0.38	3.03	0.33	23.9	42.7	591	13.7	221	6.07
CC05765		0.68	0.08	7.57	2.3	360	1.93	0.34	3.45	0.36	27.9	44.6	562	12.25	260	6.92
CC05766		0.64	0.22	6.83	0.6	360	3.04	0.86	2.48	0.35	5.06	44.8	708	18.95	380	9.29
CC05767		0.66	0.18	7.73	<0.2	350	2.13	0.83	2.5	0.33	4.39	51.9	774	18.9	388	10.2
CC05768		0.70	0.77	7.19	0.8	220	2.45	1.59	2.93	0.25	1.3	54	770	10	680	11.95
CC05769		0.78	0.18	7.39	<0.2	190	1.01	0.63	2.27	0.18	1.16	50.1	627	10.35	218	9.08
CC05770		0.62	0.06	7.07	1.9	360	1.16	0.3	3.11	0.24	20.9	44.1	483	14.2	120	5.87
CC05771		0.54	0.05	5.56	<0.2	150	1.68	0.4	4.25	0.21	3.88	57	775	7.46	133.5	7.41
CC05772		0.56	0.14	7.07	0.9	300	1.29	0.59	2.46	0.2	9.95	49.5	618	18.8	250	7.79
CC05773		0.56	0.13	7.46	0.5	160	2.29	0.6	3.18	0.2	4.32	59.8	732	9.04	182.5	9.24
CC05774		0.62	0.06	4.87	<0.2	80	3.93	0.35	4.09	0.3	1.98	51.3	821	5.02	155.5	8
CC05775		0.56	0.05	5.69	0.8	190	1.71	0.29	4.37	0.23	8.92	61.5	802	9.24	121.5	6.87
CC05776		0.66	0.05	6.18	0.3	60	3.21	0.42	2.47	0.19	0.91	50	625	2.89	198.5	8.67

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



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**CERTIFICATE OF ANALYSIS VA04060616**

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	
		Ga	Ge	Hf	In	K	La	Lj	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm 0.05	ppm 0.05	ppm 0.1	ppm 0.005	% 0.01	ppm 0.5	ppm 0.2	% 0.01	ppm 5	ppm 0.05	% 0.01	ppm 0.1	ppm 0.2	ppm 10	ppm 0.5
CC05737		18.55	0.25	0.1	0.048	0.28	0.7	78.3	7.22	1045	5.36	0.22	1.2	317	160	1.1
CC05738		13.55	0.27	0.4	0.057	0.5	4.2	89	7.62	1540	0.73	0.86	2.4	380	160	3.7
CC05739		13.05	0.22	0.4	0.052	0.61	5.7	91.8	7.39	1730	0.38	1.23	2.4	331	150	4.2
CC05740		10.75	0.22	0.2	0.039	0.23	1.6	74.4	10.15	1555	0.39	0.52	0.9	505	80	1.8
CC05741		11.65	0.22	0.2	0.048	0.19	1.7	71.8	8.07	1235	0.77	0.56	0.8	284	70	1.7
CC05742		13.95	0.28	0.1	0.077	0.2	0.7	74.9	7.65	1455	1.28	0.24	0.6	258	90	1.1
CC05743		15.05	0.29	0.1	0.06	0.26	1	148	8.08	3280	1.85	0.16	0.6	435	90	1.2
CC05744		15.75	0.29	0.2	0.088	0.11	1.5	74.4	8.59	1665	1.77	0.24	0.9	324	100	1.4
CC05745		10.45	0.21	0.2	0.04	0.35	2.4	64.3	8.19	1515	0.89	0.61	1.6	373	140	2.8
CC05746		13.75	0.22	0.2	0.044	0.26	1.5	82.2	7.7	1605	0.77	0.61	1.2	374	170	2.9
CC05747		16.4	0.58	0.1	0.08	0.32	0.7	73.7	5.23	1580	1.77	0.31	0.5	207	80	1.5
CC05748		14.15	0.25	0.1	0.052	0.41	1	103.5	9.38	1675	1.86	0.27	0.7	474	130	1.6
CC05749		14.4	0.24	0.2	0.05	0.31	1	151.5	9.47	1950	2.29	0.42	0.7	400	130	2.4
CC05750		14.55	0.28	0.2	0.062	0.48	1.4	123.5	8.73	1570	2.68	0.55	1.1	409	110	2.1
CC05751		17.9	0.41	0.1	0.519	0.48	<0.5	49	2.89	1180	33.9	1.46	0.4	48.9	60	2.3
CC05752		13.85	0.29	0.4	0.074	0.42	5.1	115.5	8.77	1575	1.08	0.63	2.4	214	160	3
CC05753		15.9	0.28	0.5	0.087	0.42	6.8	115.5	8.11	1515	0.6	0.68	3	187.5	190	3.8
CC05754		12.9	0.27	0.7	0.085	0.76	10.6	72.7	6.04	1175	0.98	0.96	4.9	157.5	180	6.5
CC05755		11.4	0.37	0.2	0.145	0.25	0.9	68.7	7.39	1815	0.27	0.43	0.8	55.8	60	1.6
CC05756		16.1	0.18	0.5	0.024	0.23	0.5	38.2	4.28	694	14.05	0.4	0.5	135	70	4
CC05757		11.95	0.31	0.2	0.056	0.56	1	67.1	7.39	1700	0.98	0.27	0.6	188	80	2.2
CC05758		12.85	0.31	0.4	0.056	0.61	5.2	79.7	7.09	1350	2.19	0.6	2.6	237	190	3.8
CC05759		13.95	0.27	0.7	0.057	0.65	10.6	81.2	6.64	1250	1.14	0.82	4.6	259	330	5.2
CC05760		13.75	0.3	0.4	0.068	0.4	5.2	116	7.7	1575	0.59	0.43	2.3	364	220	3.3
CC05761		11.3	0.25	0.3	0.047	0.47	4	100	8.1	1825	0.91	0.43	1.7	502	130	2.8
CC05762		14.35	0.33	0.2	0.082	0.1	0.7	97	9.41	1450	0.42	0.33	0.5	178	40	1
CC05763		13.8	0.33	0.3	0.062	0.32	3.1	120	8.99	1415	0.4	0.93	1.1	204	120	2.1
CC05764		13.8	0.29	0.7	0.057	0.59	11.6	96.1	5.81	1175	0.79	1.09	4.5	208	430	7
CC05765		13.5	0.25	0.8	0.054	0.63	14.2	87	6.32	1245	1.08	1.24	5.1	217	400	6.9
CC05766		12.4	0.3	0.3	0.097	0.46	2.5	58.9	7.47	1550	1.44	0.52	1.4	254	90	2.7
CC05767		13.7	0.28	0.2	0.111	0.34	2.1	59.1	8.27	1710	1.64	0.41	1.1	260	130	2.3
CC05768		13.75	0.33	0.2	0.081	0.14	0.6	97.5	9.82	1485	1.54	0.29	0.4	348	50	0.9
CC05769		12.95	0.25	0.1	0.065	0.11	0.5	102	9.53	1350	1.03	0.32	0.3	304	40	0.9
CC05770		13	0.23	0.6	0.048	0.61	10.6	73.9	6.18	1205	0.81	1.04	4.1	249	270	5.7
CC05771		9.64	0.21	0.2	0.042	0.15	1.9	53.6	9.46	1340	1.06	0.35	0.9	454	50	1.6
CC05772		12.9	0.22	0.4	0.051	0.35	5.2	94.2	7.89	1280	1	0.69	2.3	271	150	3.1
CC05773		12.55	0.26	0.2	0.06	0.16	2.2	81.6	9.36	1470	0.97	0.44	1.2	317	100	1.8
CC05774		9.31	0.26	0.1	0.042	0.08	0.9	26	10.7	1325	2.33	0.22	0.8	367	50	1.1
CC05775		10.6	0.26	0.3	0.04	0.31	4.5	55.5	9.63	1350	0.76	0.57	2.1	488	130	2.9
CC05776		10.45	0.23	0.1	0.037	0.05	<0.5	33.7	9.53	1175	3.92	0.2	0.8	292	80	1.3

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



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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	
		Rb	Re	S	Sb	Se	Sn	Sr	Ta	Te	Th	Tl	Tl	U	V	W
		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	% 0.005	ppm 0.02	ppm 0.1	ppm 1	ppm 0.1
CC05737		40.8	0.003	0.02	0.06	2	6.4	24.4	0.26	0.19	<0.2	0.137	0.37	0.3	246	0.2
CC05738		39.4	<0.002	0.01	0.23	2	14.4	77.8	0.23	0.11	1	0.191	0.39	0.4	247	4.8
CC05739		34.8	<0.002	0.01	0.26	1	3.5	99.1	0.19	0.09	1.5	0.2	0.25	0.4	237	1.4
CC05740		16.6	<0.002	0.01	0.13	1	4.1	41.3	0.09	0.09	0.4	0.119	0.16	0.2	220	1.1
CC05741		14.3	0.002	0.02	0.16	3	3	52	0.08	0.17	0.3	0.13	0.15	0.2	215	0.8
CC05742		16.5	<0.002	0.03	0.08	4	2.8	17.6	0.07	0.25	0.2	0.138	0.18	0.6	258	1.7
CC05743		29.1	0.002	0.07	0.13	2	2.7	15	0.08	0.29	<0.2	0.162	0.66	0.3	265	0.6
CC05744		10.8	0.003	0.02	0.11	3	1.7	17.4	0.09	0.27	0.3	0.203	0.12	0.3	279	0.4
CC05745		22.3	<0.002	0.01	0.12	1	4.2	48.9	0.18	0.12	0.6	0.142	0.21	0.6	223	3.5
CC05746		18.4	<0.002	0.01	0.2	2	12.9	61.2	0.23	0.19	0.5	0.143	0.18	0.5	228	3.5
CC05747		14.8	<0.002	0.08	0.09	4	2.4	28	0.06	0.47	0.2	0.115	0.17	0.7	266	0.5
CC05748		36.2	<0.002	0.02	0.11	2	3	33.6	0.1	0.2	0.3	0.141	0.29	0.6	229	0.7
CC05749		33.2	0.002	0.02	0.13	2	2.8	37.7	0.11	0.28	0.2	0.173	0.27	0.2	242	0.9
CC05750		45.8	0.002	0.03	0.17	3	5.2	44.2	0.16	0.25	0.3	0.162	0.41	0.3	243	0.7
CC05751		27.1	0.102	0.75	0.07	15	0.8	112.5	<0.05	5.19	<0.2	0.116	0.31	0.2	287	0.1
CC05752		34.4	<0.002	0.03	0.23	3	2.5	36.9	0.32	0.25	1.3	0.18	0.25	0.5	260	1.2
CC05753		33.6	<0.002	0.03	0.27	4	2.6	49.2	0.29	0.2	2.1	0.184	0.29	0.7	245	1.6
CC05754		39.7	<0.002	0.03	0.53	3	2.2	87	0.45	0.18	2.7	0.22	0.34	0.8	210	1
CC05755		26.8	<0.002	0.15	0.11	13	6.3	9.9	0.28	0.72	0.2	0.12	0.31	0.2	259	0.1
CC05756		39.8	<0.002	0.01	0.07	2	33.2	49.7	0.29	0.05	<0.2	0.089	0.32	0.3	152	0.3
CC05757		91	<0.002	0.03	0.14	5	23.4	19.5	0.11	0.26	0.2	0.134	0.79	0.2	319	2.1
CC05758		63	<0.002	0.02	0.27	3	13.6	48.3	0.26	0.12	1.3	0.186	0.51	0.4	213	1.3
CC05759		35.5	<0.002	0.02	0.43	2	3.2	70.5	0.38	0.15	2.6	0.233	0.28	0.8	219	1
CC05760		33.9	<0.002	0.03	0.3	3	1.3	36.7	0.19	0.16	1.3	0.203	0.18	0.5	270	0.6
CC05761		51.4	<0.002	0.01	0.19	2	0.9	32.3	0.15	0.14	0.9	0.176	0.31	0.4	225	0.6
CC05762		7.4	<0.002	0.04	0.06	4	1.1	7.6	0.06	0.43	0.2	0.138	0.09	0.2	279	0.1
CC05763		31.6	<0.002	0.03	0.12	3	1.3	33.4	0.13	0.21	0.7	0.142	0.23	0.3	260	0.2
CC05764		28.4	<0.002	0.03	0.51	2	4	80.4	0.36	0.12	2.8	0.219	0.22	0.8	223	1.5
CC05765		29.7	0.002	0.03	0.55	2	3.9	88	0.45	0.13	3.6	0.244	0.2	0.9	227	1.2
CC05766		48.5	<0.002	0.04	0.13	4	6.6	38.2	0.15	0.35	0.6	0.149	0.52	0.3	245	15.6
CC05767		44.8	0.002	0.05	0.1	4	4.9	26.4	0.11	0.4	0.4	0.167	0.39	0.3	281	13.2
CC05768		14.3	<0.002	0.03	0.14	5	3.9	6.7	0.09	0.48	<0.2	0.124	0.13	0.2	274	0.3
CC05769		13.5	<0.002	0.02	0.07	3	2	8.5	<0.05	0.21	<0.2	0.1	0.1	0.1	248	0.2
CC05770		31	<0.002	0.01	0.37	1	2	81.4	0.35	0.12	2.6	0.21	0.2	0.7	204	0.7
CC05771		10.4	<0.002	0.01	0.1	2	3.8	18.8	0.1	0.14	0.5	0.106	0.08	0.2	198	0.2
CC05772		24.6	<0.002	0.02	0.2	3	2	43.7	0.24	0.18	1.3	0.153	0.2	0.5	224	0.4
CC05773		11.9	<0.002	0.02	0.12	3	4.9	20.1	0.22	0.19	0.5	0.14	0.09	0.3	252	0.2
CC05774		6.6	<0.002	0.01	0.06	3	9	12.1	0.14	0.13	0.3	0.085	0.06	0.1	176	0.1
CC05775		18.3	0.002	0.01	0.2	2	2.7	39.5	0.2	0.14	1.1	0.148	0.12	0.4	191	0.5
CC05776		4.8	0.003	0.01	0.06	3	6	15	0.13	0.15	<0.2	0.15	0.04	0.2	203	0.2

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



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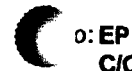
**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1 Canada

Phone: 604 984 0221 Fax: 604 984 0218



O: EP

C/O ARCHER, CATHRO & ASSOCIATES (1981)

LIMITED

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Project: Straw



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Total # Pages: 6 (A - D)

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Account: EMP

## CERTIFICATE OF ANALYSIS VA04060616

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61
		Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
CC05737		4.2	92	3.4
CC05738		8.8	110	10.6
CC05739		8.7	100	10.8
CC05740		5.4	125	4.5
CC05741		5.2	145	4.5
CC05742		5.3	146	3.1
CC05743		8	146	2.7
CC05744		7.8	132	5
CC05745		5.6	142	6.3
CC05746		6.1	144	4.2
CC05747		3.3	143	3.1
CC05748		6.2	153	2.7
CC05749		6.8	139	3.4
CC05750		6.5	156	6.5
CC05751		2.4	96	3.9
CC05752		7.6	225	10.7
CC05753		8.8	223	14.6
CC05754		9	176	21.8
CC05755		6.5	248	3.7
CC05756		3.8	89	5.7
CC05757		6.3	169	3.4
CC05758		7.6	156	12.3
CC05759		8.7	161	22.5
CC05760		6.2	196	12.2
CC05761		6.3	192	8.6
CC05762		6.8	215	5.2
CC05763		8.6	192	7.2
CC05764		9.6	112	24
CC05765		9.7	124	25.7
CC05766		6	334	7.3
CC05767		6.4	331	6.7
CC05768		6.6	211	4.1
CC05769		6.9	185	3.1
CC05770		9.3	148	20.3
CC05771		5.3	115	5.4
CC05772		7.6	156	11.7
CC05773		6.9	161	6
CC05774		5.4	107	3.7
CC05775		6.2	128	9.7
CC05776		4.9	120	4

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



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 Account: EMP

Project: Straw

**CERTIFICATE OF ANALYSIS VA04060616**

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
CC05777	0.62	0.11	7.58	0.5	40	1.74	0.5	2.49	0.18	1.77	94.7	785	4.19	309	10.3
CC05778	0.60	0.07	6.67	0.8	220	2.06	0.38	2.39	0.14	3.18	81.2	707	8.22	305	8.88
CC05779	0.60	0.08	5.87	0.7	60	2.59	0.4	3.2	0.17	2.34	57.4	880	4.47	215	8
CC05780	0.58	0.25	6.51	0.5	110	2.74	0.87	2.39	0.18	3.75	61.5	636	5.6	487	11.05
CC05781	0.60	0.06	7.76	<0.2	170	0.74	0.2	2.93	0.22	3.43	74.3	648	15.15	259	10.2

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



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 Project: Straw



Page: 6 - B  
 Total # Pages: 6 (A - D)  
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 Account: EMP

**CERTIFICATE OF ANALYSIS VA04060616**

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	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
CC05777		15.1	0.32	0.2	0.051	0.04	0.9	65.8	10.85	1330	1.16	0.12	0.7	438	30	0.8
CC05778		12.8	0.32	0.2	0.042	0.17	1.5	65.9	8.57	1310	2.16	0.36	0.9	302	80	2
CC05779		10.75	0.26	0.2	0.039	0.08	1.2	36.7	9.54	1190	1.58	0.23	1	394	70	1.5
CC05780		12.15	0.31	0.2	0.051	0.13	1.9	46.6	8.26	1170	3.02	0.27	1.3	310	90	1.7
CC05781		13.8	0.33	0.2	0.052	0.2	1.8	97.6	8.91	1540	0.62	0.48	1	259	50	1.8

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



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 Account: EMP

Project: Straw

## CERTIFICATE OF ANALYSIS VA04060616

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 % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
CC05777		2.9	<0.002	0.01	0.09	3	2.5	7.3	0.07	0.26	0.2	0.158	0.04	0.5	236	0.4
CC05778		14.7	0.002	0.02	0.1	3	5.8	20.2	0.15	0.18	0.4	0.134	0.14	0.3	216	0.4
CC05779		4.8	<0.002	0.01	0.08	3	5.2	16.9	0.15	0.13	0.3	0.124	0.05	0.3	191	0.3
CC05780		8.8	<0.002	0.02	0.13	4	5.6	20.6	0.13	0.46	0.5	0.21	0.11	0.9	238	0.3
CC05781		19.5	<0.002	0.02	0.09	2	1.6	23.9	0.1	0.16	0.4	0.176	0.14	1	259	0.4

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



# ALS Chemex

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C/O ARCHER, CATHRO & ASSOCIATES (1981)

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1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Project: Straw



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Account: EMP

## CERTIFICATE OF ANALYSIS VA04060616

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61
		Y	Zn	Zr
		ppm	ppm	ppm
		0.1	2	0.5
CC05777		6.6	134	4.8
CC05778		5.5	135	4.7
CC05779		5.6	116	4.6
CC05780		6	111	5.5
CC05781		7.3	138	4.9

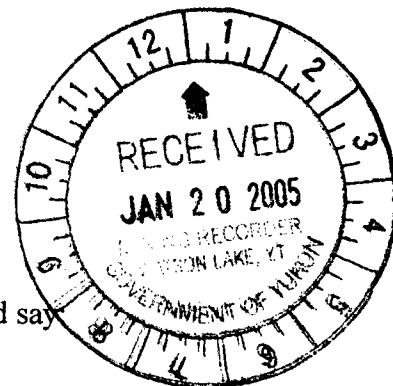
Comments: REE's may not be totally soluble in MS61 method.

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

Telephone: 604-688-2568

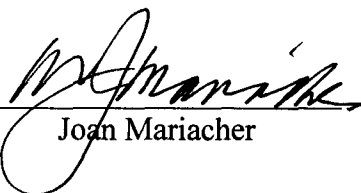
Fax: 604-688-2578

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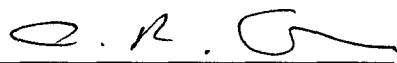
I, Joan Mariacher, of Vancouver, B.C. make oath and say

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

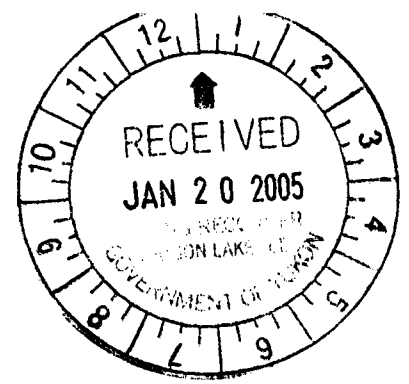
  
Joan Mariacher

Sworn before me at Vancouver, B.C.

this 17th day of January, 2005

  
Notary Public, Yukon Territory

Statement of Expenditures  
Straw 1-43 Mineral Claims  
January 8, 2005



Labour

B. Wengzynowski – geologist – 55 hours July to September at \$70/hr	\$ 4,119.50
G. Downs – field assistant – 27 days August 8 to September 3 at \$336/day	9,707.04
B. Galambos – field assistant – 26 days August 8 to September 2 at \$240/day	6,676.80
I. Korkh – field assistant – 5 days August 8 - 12 at \$224/day	1,198.40
R. Moore – field assistant – 16 days August 12 – 27 at \$224/day	<u>3,834.88</u>
	25,536.62

Expenses

Field room and board – 80 7/8 days at \$125/day	10,817.03
Kluane Airways 1.4 hours Beaver at \$650/hr	973.70
Kluane Airways 10 hours Hughes 500 at \$900/hr plus fuel	10,593.00
ALS Chemex	<u>3,287.33</u>
	25,671.06
	<u>\$51,207.68</u>

# ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

In Account With

Project **FIRESTONE FINLAYSON PROJECT**  
 Date **JULY 1 - AUGUST 31, 2004**

**LABOUR**

Field	A. ARCHER - 3 HR AT 70/HR	210.00	
	B. WENBYNOWSKI - 31 HR AT 70/HR	2170.00	
	G. DOWNS - 24 1/2 DAYS AT 336/DAY	8232.00	
	H. GALANDOS - 24 1/2 DAYS AT 240/DAY	5880.00	
	I. KOLKA - 5 1/2 DAYS AT 224/DAY	1232.00	
	R. MOORE - 15 1/2 DAYS AT 224/DAY	3472.00	

Accounting and Expediting	J. Mariacher- 4 1/2 hrs at \$58/hr	261.00	
	11 1/2	667.00	
	EXPEDITING L. CORBETT 31 HR AT 40/HR	1240.00	23364.00

**OTHER SERVICES**

Fuel and Board in Whitehorse	2 days at \$90/day	180.00	
Field equipment from AC stock	75 DAYS AT 50/DAY + 1 LTR AT 16.95	3766.95	
Printing	Photocopies 26179 @ .15	27.27	
Rentals from AC			
	LOOMIS COURIER - 3 AT 14.25 + 1 @ 20	64.25	4038.95

**EXPENSES**

Petty Cash	9.51 DI	9.51	
Telephone			
	M. DAVIES - DRAFTING	75.00	
	MAC'S FIREWEED	18.32	
	S. McKEOWN	25.00	
	L. CORBETT EXPENSES	44.82	
	KLVANE AIRWAYS	4059.00	
	RIVERTALE SUPER A	1438.92	
	SHAPPEL'S SAW	8.99	
	MAC'S FIREWEED RENTAL - 7.48 DI + 38.24	45.72	
	MAC'S FIREWEED	12.49	
	CORPORATE COURIER	2.26	
	ALKAN AIR	550.25	
	A. ARCHER EXPENSES	11.22	6201.50

COLLECT JULY ADDITION XXX CI-17.65 B-2473. (2440.65)

Management	6% on Expenses	378.09	
	on Field <del>AC</del> CORRECT JULY XXX CHRG 147.25 S/O 0.81	(146.44)	231.65
			3149.45

GST (R100247667)	7% on 3149.45	2204.68	
			33700.13



**KLUANE AIRWAYS LTD.**

BOX 31489  
WHITEHORSE, YUKON Y1A 6K8

0   9   0   2   0   4	
INVOICE DATE	
BVR	MPS
AIRCRAFT TYPE	REGISTRATION

Archer Cathro  
CHARTERER

Straw  
BILLING ADDRESS

No 5263

PHONE: \_\_\_\_\_

FROM	MILES	HOURS	REMARKS/PASSENGER/CARGO
Finlayson			
TO Fire LK		.3	
Fire		.9	
Fire LK		.3	
Finlayson		.7	

SPECIAL INSTRUCTIONS	1.4 @ 650 PER HOUR	910.00
STRAW	@ PER MILE	
DEMOTB	WAITING TIME @ / HR	
	FUEL @ / GAL.	
	PILOT'S EXPENSES	
	OTHER	
	SUB-TOTAL	910.00
CHARTERER'S SIGNATURE	GST	63.70
	2% PER MONTH CHARGES ON ACCOUNTS OVER 30 DAYS	TOTAL \$ 973.70
PILOT'S SIGNATURE	WHITE - OFFICE YELLOW - OFFICE COPY RECORD PINK - CUSTOMER COPY GOLD - BASE COPY (Stays in book.)	WILLOW PRINTERS LTD.

**KLUANE AIRWAYS LTD.**

BOX 31489  
WHITEHORSE, YUKON Y1A 6K8

0181017104	
INVOICE DATE	
17500	1111A
AIRCRAFT TYPE	REGISTRATION

Archer Cathro  
CHARTERER

OZ → Strawn / in  
BILLING ADDRESS

No 5062

PHONE: \_\_\_\_\_

FROM	MILES	HOURS	REMARKS/PASSENGER/CARGO
Pin / Tyson			
TO Strawn			Graham
OZ			Ben
Strawn			111A
OZ			
Strawn			02-1584
OZ			
Strawn			FFP-1584
OZ → Strawn			

SPECIAL INSTRUCTIONS			
	3.2 @ 900 PER HOUR		2880
2 internal	@ PER MILE		
2 net loads	WAITING TIME @ / HR		
OZ FFP	FUEL 320 @ 90¢ / GAL.		288.00
Strawn	PILOT'S EXPENSES		
Graham	OTHER		
<u>[Signature]</u>		SUB-TOTAL	3169.
CHARTERER'S SIGNATURE		GST	221.76
<u>[Signature]</u>		TOTAL \$	3390.76
PILOT'S SIGNATURE			

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08   20   94	
INVOICE DATE	
AS	MEGA
AIRCRAFT TYPE	REGISTRATION

Archer Cathro  
CHARTERER

Strom  
BILLING ADDRESS

No 5293

PHONE: \_\_\_\_\_

FROM	MILES	HOURS	REMARKS/PASSENGER/CARGO
Strom			
Local			Water
Finlayson		<del>1.3</del> .8	

SPECIAL INSTRUCTIONS	.8 @ 900 PER HOUR	720.
Move Water	@ PER MILE	
Barrels	WAITING TIME @ / HR	
Supply groceries	FUEL 80 @ 90 / GAL.	72.
	PILOT'S EXPENSES	
	OTHER	
	SUB-TOTAL	
CHARTERER'S SIGNATURE	GST	792.
	TOTAL \$	55.44
PILOT'S SIGNATURE		847.44

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08   18   94	
INVOICE DATE	
AIRCRAFT TYPE	REGISTRATION

Archer Cathro  
CHARTERER

Strom  
BILLING ADDRESS

No 5285

PHONE: \_\_\_\_\_

FROM	MILES	HOURS	REMARKS/PASSENGER/CARGO
FI			
Strom			16th
Set out			
Monica Brook			
Finlayson		.8	
Fin - Strom		.4	18th
Set out		.2	
FI		.2	↓

SPECIAL INSTRUCTIONS	1.6 @ 900 PER HOUR	1440.00
	@ PER MILE	
	WAITING TIME @ / HR	
	FUEL 160 @ 90.0 / GAL.	144.
	PILOT'S EXPENSES	
	OTHER	
	SUB-TOTAL	1584.00
CHARTERER'S SIGNATURE	GST	110.88
	TOTAL \$	1694.88
PILOT'S SIGNATURE		

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ARCHER CATHO & ASSOC  
CHARTERER

08   26   04	
INVOICE DATE	
H500	FXEA
AIRCRAFT TYPE	REGISTRATION

No 5305

BILLING ADDRESS

PHONE: STRAW

FROM	MILES	HOURS	REMARKS/PASSENGER/CARGO
FIN			
TO STRAW		1.5	GROCERIES IN DOWN TO SITE
LOCAL			1 MAN ON 1
FIN			DROP SAMPLES AT CAMP.

SPECIAL INSTRUCTIONS	1.5 @ 900 PER HOUR	1350
	@ PER MILE	
WAITING TIME @ / HR		
FUEL 150 @ 1.90 / GAL.		135
PILOT'S EXPENSES		
OTHER		
	SUB-TOTAL	1485
	GST	103.95
	TOTAL \$	1588.95

B. W. ...  
CHARTERER'S SIGNATURE

W. ...  
PILOT'S SIGNATURE

WHITE - OFFICE  
YELLOW - OFFICE COPY RECORD  
PINK - CUSTOMER COPY  
GOLD - BASE COPY (Stays in book.)  
WILLOW PRINTERS LTD.

**KLUANE AIRWAYS LTD.**

BOX 31489  
WHITEHORSE, YUKON Y1A 6K8

ARCHER CATHO  
CHARTERER

09   02   04	
INVOICE DATE	
H500	FXEA
AIRCRAFT TYPE	REGISTRATION

No 5315

BILLING ADDRESS

PHONE: STRAW

FROM	MILES	HOURS	REMARKS/PASSENGER/CARGO
FIN			
TO STRAW			GRAHAM ABON
FIRE			and gear
FIN		2.0	DRUMS ETC.

SPECIAL INSTRUCTIONS	2.0 @ 900 PER HOUR	1800
	@ PER MILE	
DEMOD STRAW	WAITING TIME @ / HR	
	FUEL 200 @ .90 / GAL.	180
	PILOT'S EXPENSES	
	OTHER	
	SUB-TOTAL	1980.00
	GST	138.60
	TOTAL \$	2118.60

W. ...  
CHARTERER'S SIGNATURE

W. ...  
PILOT'S SIGNATURE

WHITE - OFFICE  
YELLOW - OFFICE COPY RECORD  
PINK - CUSTOMER COPY  
GOLD - BASE COPY (Stays in book.)  
WILLOW PRINTERS LTD.



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



**INVOICE NUMBER 1132568**

BILLING INFORMATION	
Certificate:	<b>VA04060616</b>
Account:	<b>EMP</b>
Date :	<b>20-SEP-2004</b>
Project:	Straw <i>M</i>
P.O. No.:	
Quote:	
Terms:	<b>Due on Receipt</b> <span style="float: right;">C1</span>
Comments:	

ANALYSED FOR			UNIT	TOTAL
QUANTITY	CODE	DESCRIPTION	PRICE	
165	PREP-41	Dry, Sieve (180 um) Soil	0.94	155.10
102.00	PREP-41	Weight Charge (kg) - Dry, Sieve (180 um) Soil	1.31	133.62
165	ME-MS61	47 element four acid ICP-MS	14.06	2,319.90
165	GEO-4A01	Four Acid Dig - ME-MS61	2.81	463.65

SUBTOTAL (CAD) \$ 3,072.27

GST R100938885 \$ 215.06

**TOTAL PAYABLE (CAD) \$ 3,287.33**

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

Please Remit Payments To :

**ALS Chemex**  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1