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**ASSESSMENT REPORT**

describing

**GEOCHEMICAL SAMPLING AND HAND TRENCHING**

at the

**JEFF PROPERTY**

Jeff 1-16    YD33735-YD33750  
17-20    YC98495-YC98498

NTS 105G/16

Latitude 61°52'N; Longitude 130°19'W

Watson Lake Mining District  
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

**STRATEGIC METALS LTD.**

by

S. Eaton, B.Sc. Geology, GIT  
October 2010

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## **INTRODUCTION**

The Jeff property covers two silver-lead-zinc±copper targets that lie within the Finlayson Lake district of Yukon Territory. The Jeff property is wholly owned by Strategic Metals Ltd.

This report describes a seven day exploration program that was conducted by Archer, Cathro & Associates (1981) Limited in June and July 2010 on behalf of Strategic Metals. The work was performed on June 20, 21, 24, 25 and 27, and July 13 and 17. It comprised property-scale stream sediment sampling, grid soil sampling, prospecting and hand trenching. The author participated in and directed the program, and her Statement of Qualifications is in Appendix I.

## **PROPERTY LOCATION, CLAIM DATA AND ACCESS**

The Jeff property consists of 20 contiguous mineral claims, which are located in south-eastern Yukon at latitude 61°52' north and longitude 130°19' west on NTS map sheet 105G/16 (Figure 1). In March 2010, an initial 16 claims were staked and in July four more claims were added. Collectively the property covers an area of approximately 400 hectares (4 sq km). The claims are all registered with the Watson Lake Mining Recorder in the name of Archer Cathro, which holds them in trust for Strategic Metals. Specifics concerning claim registration are tabulated below, while the locations of individual claims are shown on Figure 2.

| <u>Claim Name</u> | <u>Grant Number</u> | <u>Expiry Date*</u> |
|-------------------|---------------------|---------------------|
| Jeff 1-16         | YD33735-YD33750     | March 9, 2011       |
| 17-20             | YC98495-YC98498     | July 2, 2011        |

\* Expiry dates do not include 2010 work that has not yet been filed for assessment credit.

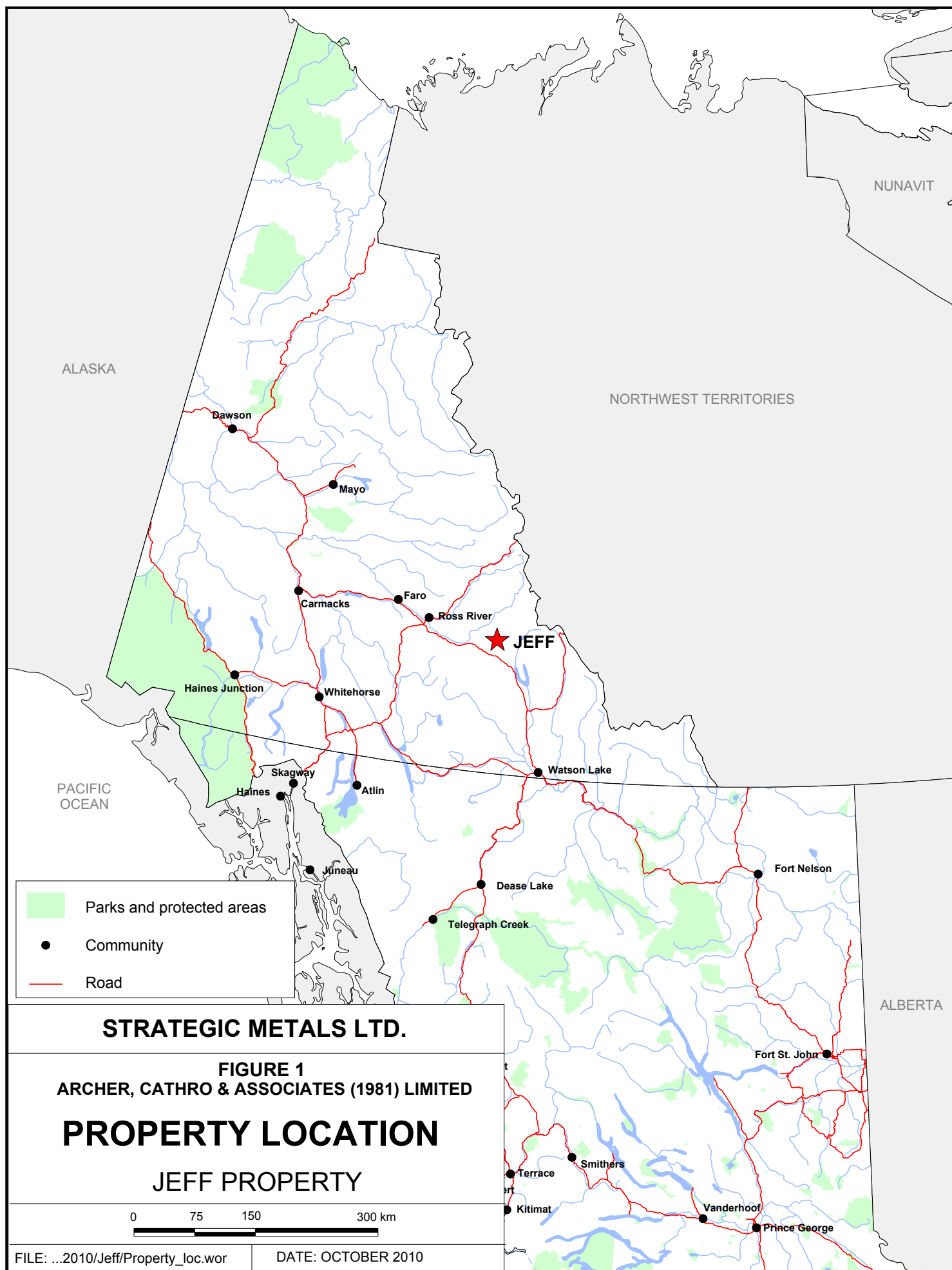
Daily access to and from the property was provided by a Hughes 500D helicopter operated by Kluane Airways from the Inconnu Fishing Lodge on McEvoy Lake, located 10 km to the southeast.

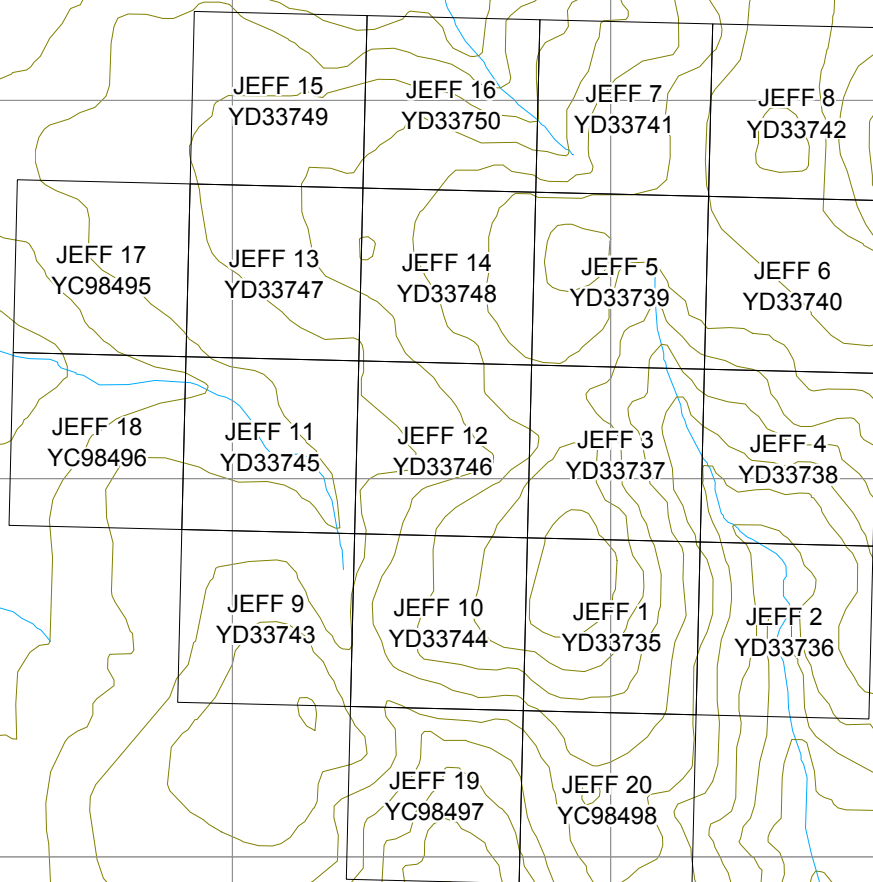
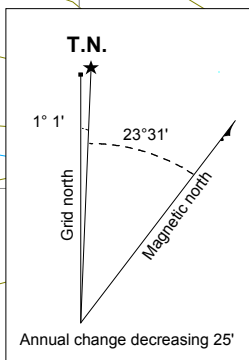
The Jeff property lies 115 km east-southeast of Ross River, the nearest supply centre. The closest road access is from the Robert Campbell Highway at the east end of Finlayson Lake. This point is about 132 km southeast of Ross River and 28 km by air south-southwest of the property. Ross River and Finlayson Lake can be reached in all seasons by two wheel drive vehicles using the Yukon highway system.

## **HISTORY AND PREVIOUS WORK**

In 1987, the Geological Survey of Canada completed a regional stream sediment sampling program on NTS map sheet 105G (Friske et al, 2008). A sample from a creek draining the southern portion of the Jeff property returned strongly anomalous values for silver and lead and a moderately elevated value for zinc.

In 1991, Cominco Ltd. staked the Jeff 1-4 claims to cover a silver-lead-zinc occurrence discovered during a regional exploration program (Schultze, 1992). Prospecting revealed a set of galena-, sphalerite- and tetrahedrite-bearing quartz veins in silicified Earn Group mudstones and





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FIGURE 2  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

### CLAIM LOCATIONS

JEFF PROPERTY

0 500 1000 m

UTM Zone 9, NAD83, NTS sheet 105 G/16

FILE: .../2010/JEFF\_claim\_loc.WOR

DATE: OCTOBER 2010

siltstones. The mineralized veins are exposed obliquely over a 5 m interval within a shallow gully. Chip sampling across the showing yielded values ranging from 22 g/t silver, 0.2% lead and 0.89% zinc over 0.3 m to 1560 g/t silver, 24% lead and 13.5% zinc over 1 m (Schultze, 1992). Soil sampling that year reportedly defined a southwest to northeast trending geochemical anomaly extending outwards from the showing (no report is available for this work).

In 1992, soil grids were established over what was thought to be the trace of the mineralized vein system (Schultze, 1992). Cominco did not consider the results to be significantly encouraging and subsequently allowed the claims to lapse.

### **GEOMORPHOLOGY AND CLIMATE**

The Jeff property is situated in the Selwyn Mountains and is drained by creeks that flow into McEvoy Lake, which ultimately connects to the Arctic Ocean via the Frances, Liard and MacKenzie Rivers.

Local topography is alpine to subalpine. Elevations range from about 1450 to 1700 m above sea level (asl). Outcrop exposure is sparse and is generally restricted to ridge tops and creek cuts. Most of the property lies above treeline, which is at approximately 1500 m above sea level. Slopes above that elevation are vegetated primarily with low lying grasses and staghorn moss along with stunted alder in wet areas. The density and size of vegetation gradually increases on lower slopes, and the valley floors are well treed with mature black spruce. Understorey consists of low shrubs and moss.



Typical terrain and vegetation at the Jeff property

The climate in the Jeff property area is typical of northern continental regions with long, cold winters, truncated fall and spring seasons and short, mild summers. Although summers are relatively mild, arctic cold fronts often cover the area and snowfall can occur in any month. The property is mostly snow free from early June to late September.

### **GEOLOGY**

In 1977, the Geological Survey of Canada published a geological map of the Finlayson lake area (NTS map sheet 105G) at a 1:250,000 scale (Tempelman-Kluit, 1977). In 2002, the Yukon Geological Survey completed a compilation of geology in the Finlayson Lake area and updated the lithological names in the vicinity of the Jeff property (Bond et al, 2002). In 2003, Gordey and Makepeace incorporated this data as part of a Yukon-wide geological compilation. The

following geological descriptions are based on the published data. No geological mapping was carried out in 2010.

The Jeff property is located within Selwyn Basin (Figure 3), a tectonic element comprising deep water clastic rocks, chert and minor carbonate accumulated along the North American continental margin during Paleozoic time (Pigage, 2004). Regionally, this miogeoclinal package is weakly deformed and slightly metamorphosed. In the Jeff area, the package comprises Siluro-Devonian McEvoy Formation siltstone, carbonate and quartzite and Devonian-Mississippian Earn Group shale and limestone (Figure 4). Detailed descriptions of both units are provided in Table I.

**Table I – Lithological Units (after Gordey and Makepeace, 2003)**

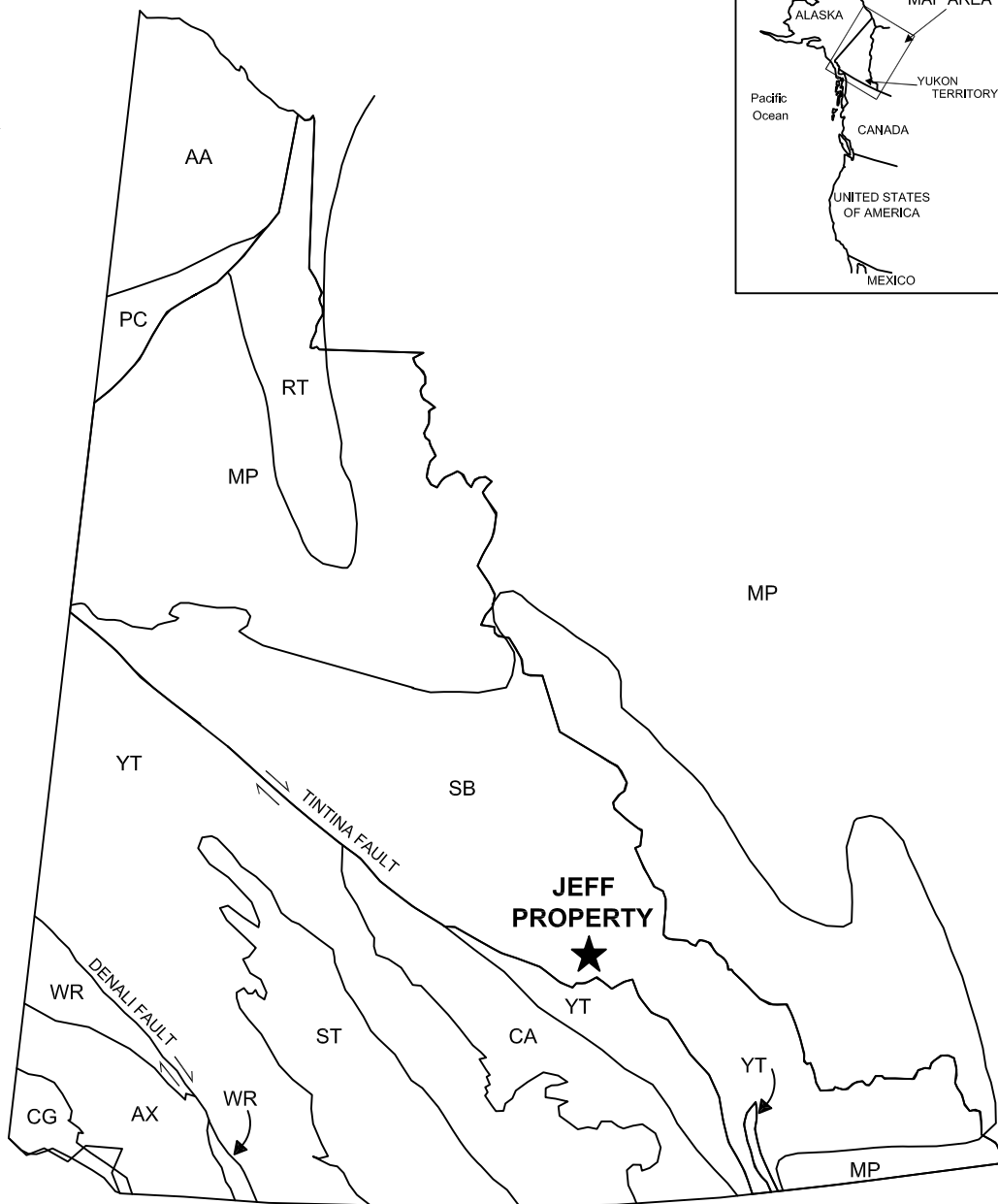
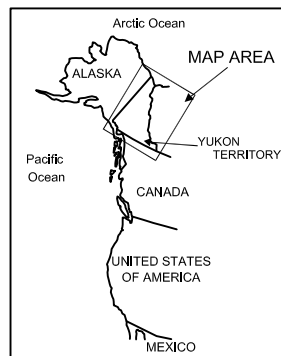
| Unit Name        | Map Name               | Age                         | Description                                                                                                                                                                                                                                               |
|------------------|------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Earn Group       | DME1                   | Devonian and Mississippian  | Thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke; thick members of chert pebble conglomerate; black siliceous siltstone; nodular and bedded barite; rare limestone.                    |
| McEvoy Formation | SDM (undifferentiated) | Silurian to Middle Devonian | Buff, platy siltstone (1) overlain by carbonate and quartzite (2).                                                                                                                                                                                        |
|                  | SDM1                   | Silurian to Middle Devonian | Buff, brown and grey laminated, platy, calcareous or dolomitic siltstone, grey orthoquartzite, and minor black, argillaceous limestone; silty dolomite, dolomite.                                                                                         |
|                  | SDM2                   | Silurian to Middle Devonian | Medium grey, medium bedded to massive, laminated to sucrose, dolomite and sandy dolomite; dark grey, fetid, platy limestone; silvery white weathering, resistant, medium bedded, medium grained, mature orthoquartzite forms interbeds and thick members. |

The Inconnu Thrust Fault, which separates Selwyn Basin rocks from accreted units of the Yukon-Tanana Terrane, lies 10 km southwest of the property. No faults have been mapped on the property.

The closest mapped intrusions are a series of Selwyn Suite mid-Cretaceous quartz monzonite stocks and plugs that form an arcuate belt, six kilometres east of the property.

### **MINERALIZATION AND HAND TRENCHING**

The only mineralization known on the property prior to 2010 was the set of galena-, sphalerite- and tetrahedrite-bearing veins discovered by Cominco in 1991. Mineralization comprises lensy massive galena and sphalerite with pyrite and traces of chalcopyrite and tetrahedrite in quartz gangue. Cominco suspected that the veins parallel foliation at 225/65° NW.



#### ANCESTRAL NORTH AMERICA

- |    |                    |
|----|--------------------|
| MP | Mackenzie Platform |
| SB | Selwyn Basin       |
| RT | Richardson Trough  |

#### TERRANES Displaced Continental Margin

- |    |               |
|----|---------------|
| AA | Arctic Alaska |
| CA | Cassiar       |
| PC | Porcupine     |

#### Pericratonic Terranes

- |    |                               |
|----|-------------------------------|
| YT | Yukon-Tanana / Slide Mountain |
|----|-------------------------------|

#### ACCRETED TERRANES

- |    |                        |
|----|------------------------|
| ST | Stikinia / Cache Creek |
| AX | Alexander              |
| WR | Wrangellia             |
| CG | Chugach                |

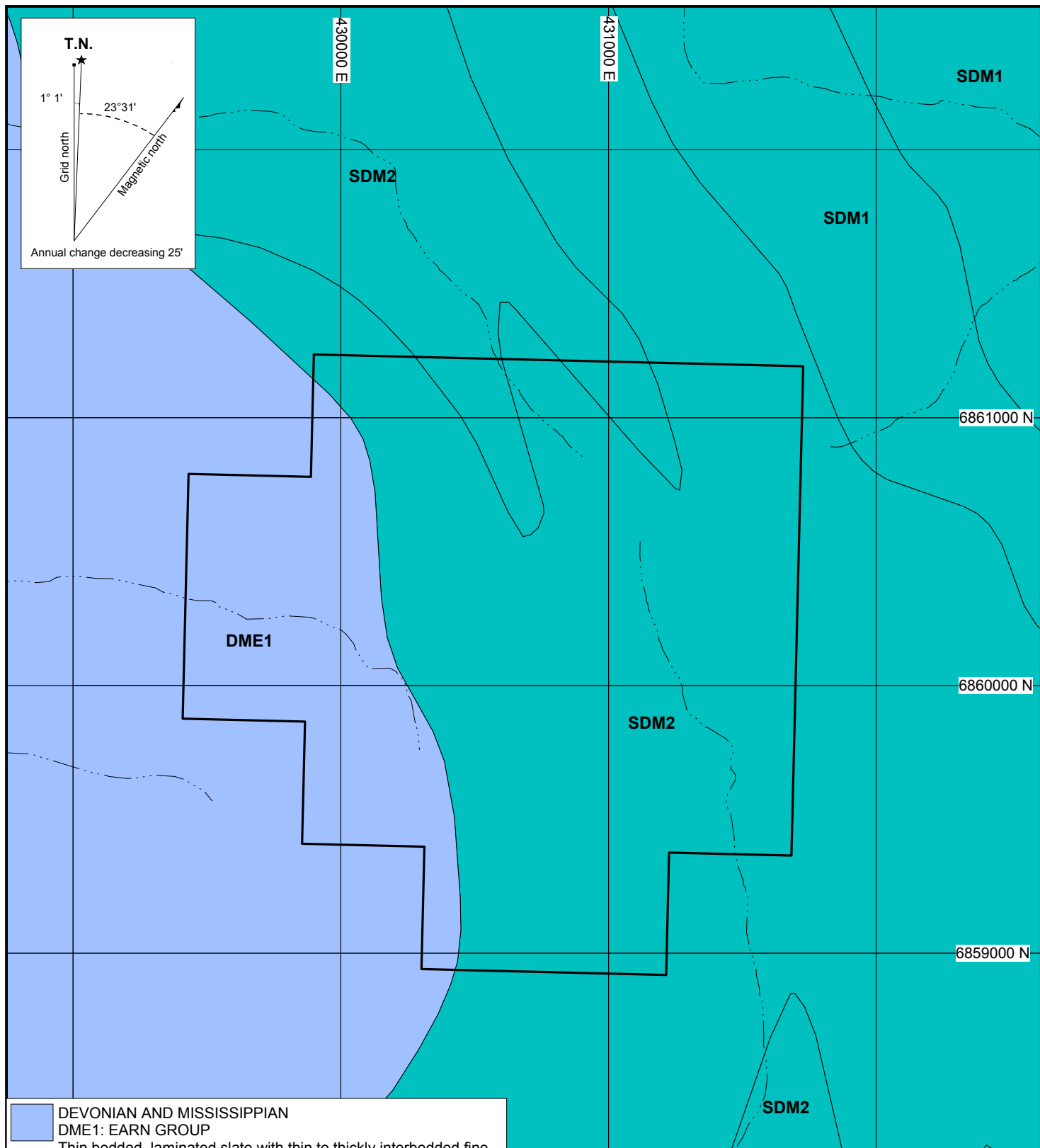
## STRATEGIC METALS LTD.

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

FIGURE 3

# TECTONIC SETTING JEFF PROPERTY

0 100 200 km



- DEVONIAN AND MISSISSIPPIAN**  
**DME1: EARN GROUP**  
 Thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke; thick members of chert pebble conglomerate; black siliceous siltstone; nodular and bedded barite; rare limestone
- SILURIAN TO MIDDLE DEVONIAN**  
**SDM: MCEVOY**  
 Buff, platy siltstone (1) overlain by carbonate and quartzite (2)  
 1. buff, brown and grey laminated, platy, calcareous or dolomitic siltstone, grey orthoquartzite, and minor black, argillaceous limestone; silty dolomite, dolomite  
 2. medium grey, medium bedded to massive, laminated to sucrose, dolomite and sandy dolomite; dark grey, fetid, platy limestone; silvery white weathering, resistant, medium bedded, medium grained, mature orthoquartzite forms interbeds and thick members

*After Gordey and Makepeace (2003)*

## STRATEGIC METALS LTD.

**FIGURE 4**  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

## GEOLOGY

JEFF PROPERTY

0 500 1000 m

UTM Zone 9, NAD83, NTS sheet 105 G/16

FILE: .../2010/JEFF\_geology.WOR

DATE: OCTOBER 2010

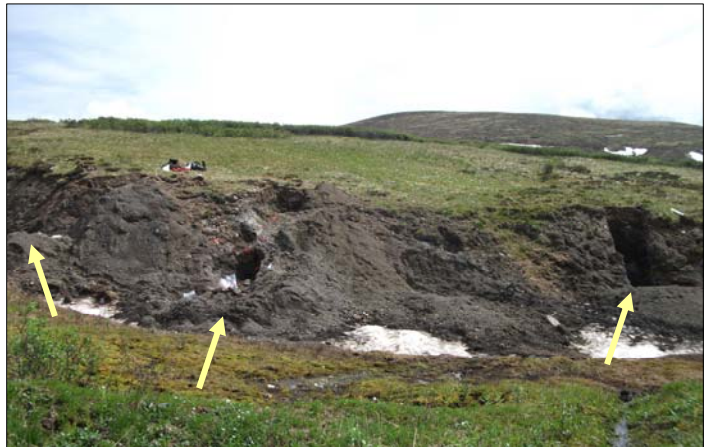
In 2010, the Cominco veins (Jefferson Showing) were relocated and a new mineralized area (Starship Showing) was discovered about 1600 m to the southeast. A total of 16 rock samples were collected, including five chip samples from one of three trenches that were dug at the Jefferson Showing. Trench and rock sample locations and results for silver, lead, zinc and copper are plotted on Figures 5 to 9, respectively. Detailed trench mapping is illustrated on Figures 10 and 11. Sampling and Analytical Procedures are explained in Appendix II, Rock Sample Descriptions are provided in Appendix III and Certificates of Analysis are given in Appendix IV.

Cominco's description of mineralization at the Jefferson Showing is accurate, although the vein orientation could not be determined. Three hand trenches were dug in the vicinity of this showing. The trenches were oriented to cut Cominco's suspected foliation trend. Trench data is listed in Table II.

**Table II – Hand Trench Data**

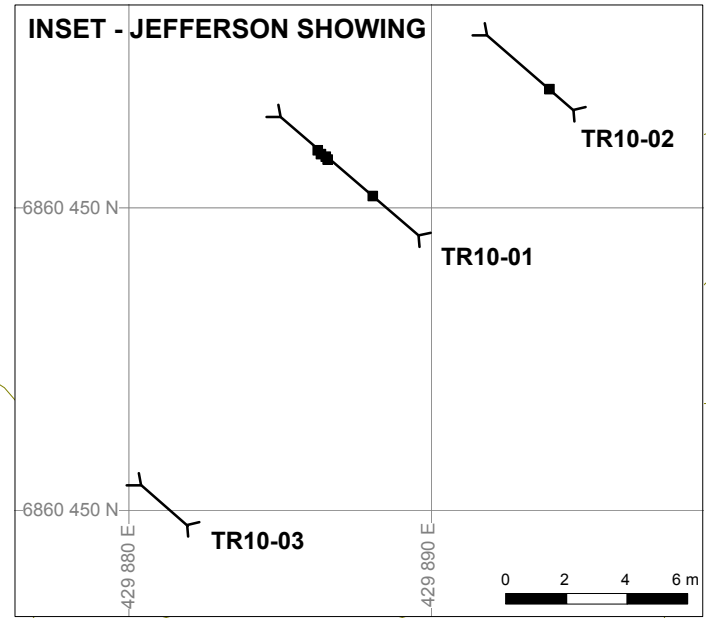
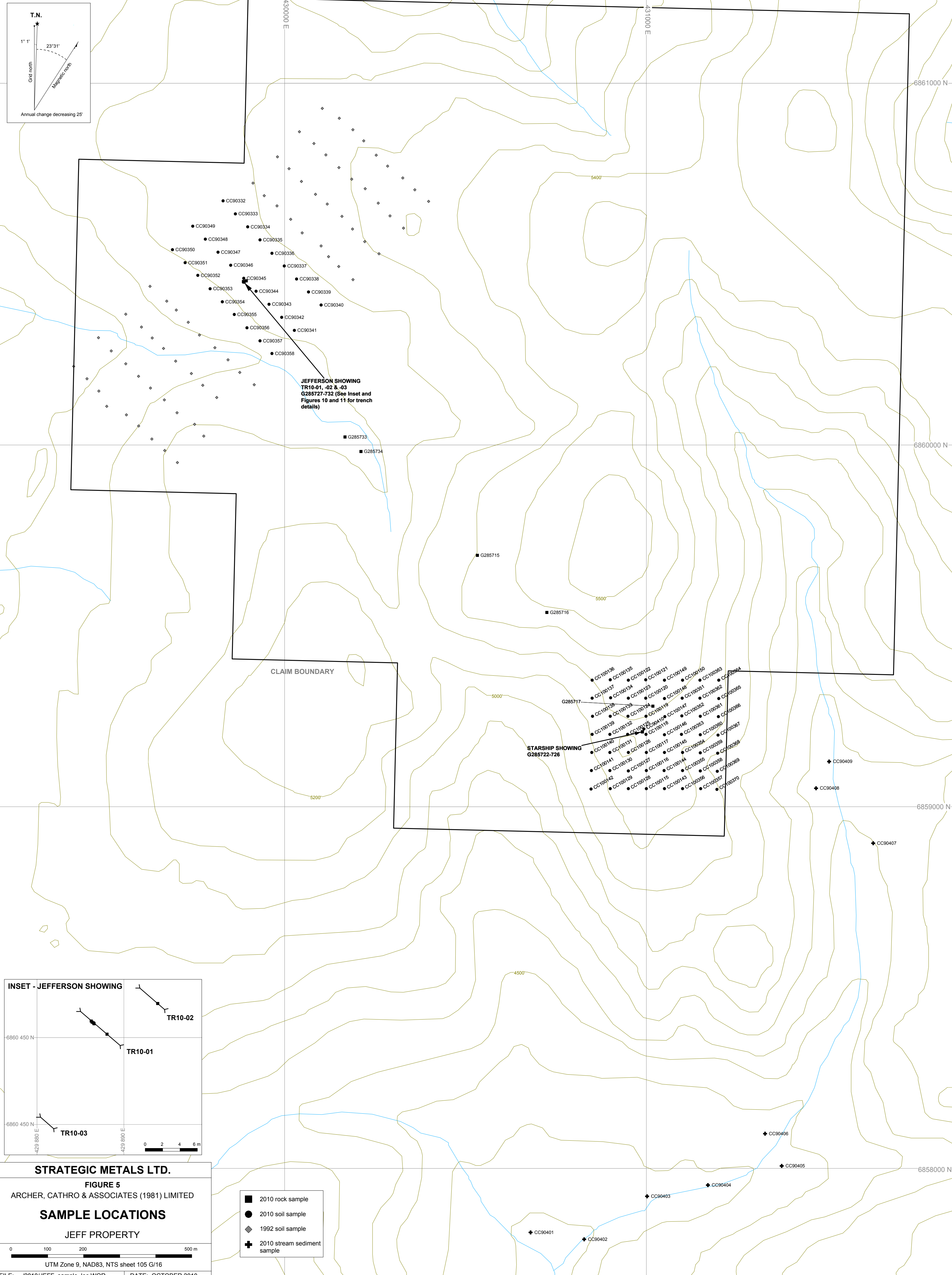
| <b>Trench</b> | <b>Length (m)</b> | <b>Azimuth (°)</b> |
|---------------|-------------------|--------------------|
| TR-JF10-01    | 6.0               | 130                |
| TR-JF10-02    | 3.7               | 130                |
| TR-JF10-03    | 2.0               | 130                |

TR10-01 was excavated across an area where abundant mineralized blocks were found at surface. Four chip samples were taken as a continuous section up a face exposed on the floor of the trench. They returned strong results for silver, lead, zinc and antimony, and weak to moderate copper and gold values. Only one of these samples appeared to be strongly mineralized, with nearly massive galena, sphalerite and minor tetrahedrite with quartz gangue. The other samples comprised shattered black shale and strongly decomposed limonite with minor residual fine grained sulphides and malachite. The four contiguous samples returned a weighted average of 404 g/t silver, 13.08% lead, 2.48% zinc, 0.28% copper, 333 ppm antimony and 0.058 g/t gold over 1.23 m. A fifth sample taken two metres to the southeast along the trench consisted of silicified black mudstone with minor disseminated to blebby pyrite. It yielded 35.9 g/t silver and 0.37% lead, with weak values for the other elements. The lower boundary of the massive galena, sphalerite and tetrahedrite was not exposed due to snow and frozen overburden; therefore the vein system remains open to the northwest, at depth and along strike in both directions.



From left to right: TR10-02, TR10-01 and TR10-03

TR10-02 and TR10-03 did not reach bedrock. One cobble of galena-, sphalerite- and pyrite-bearing quartz vein was found near surface at the southeast end of TR10-02. This cobble



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FIGURE 5  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SAMPLE LOCATIONS

JEFF PROPERTY

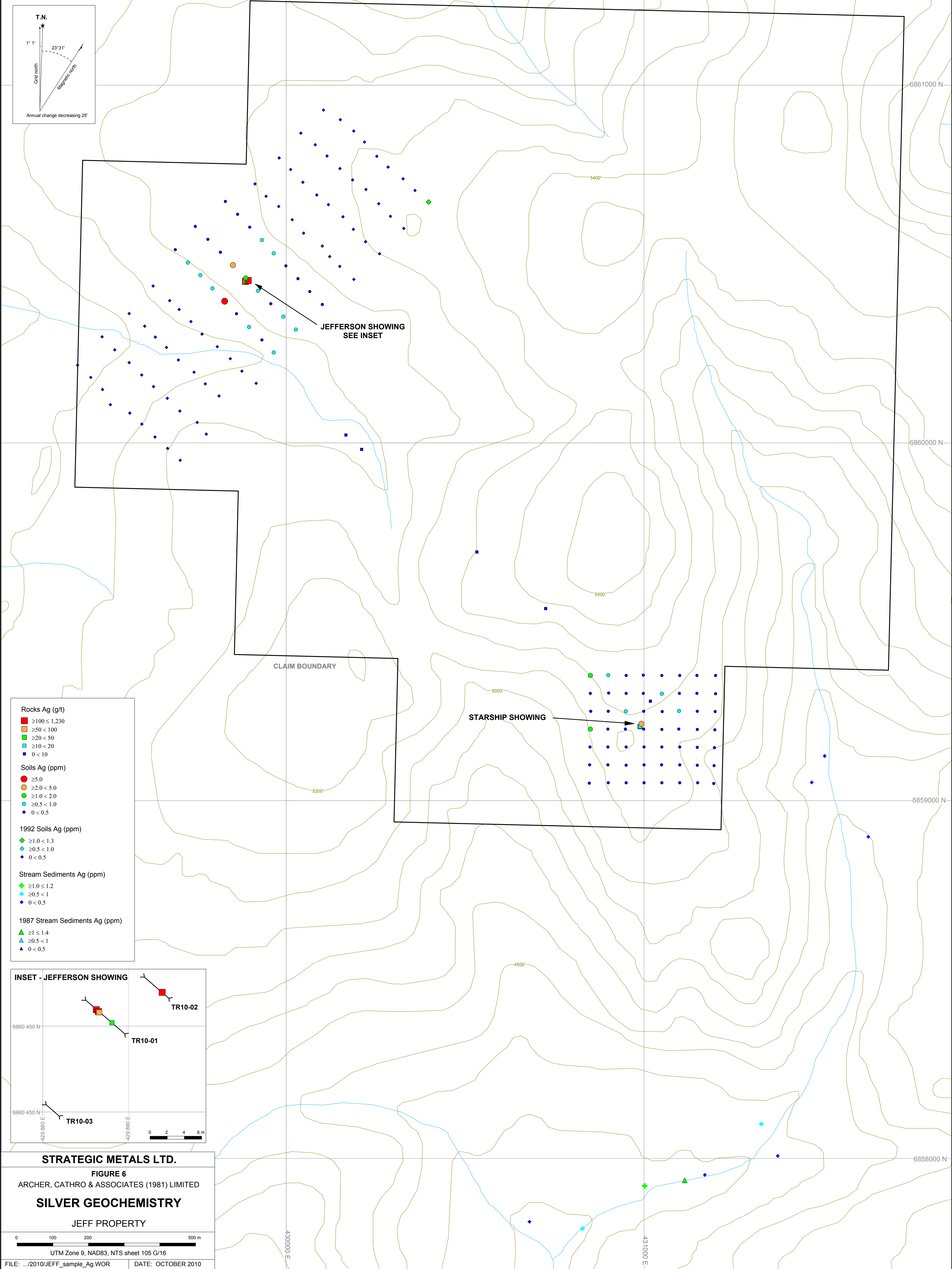
0100200500 m

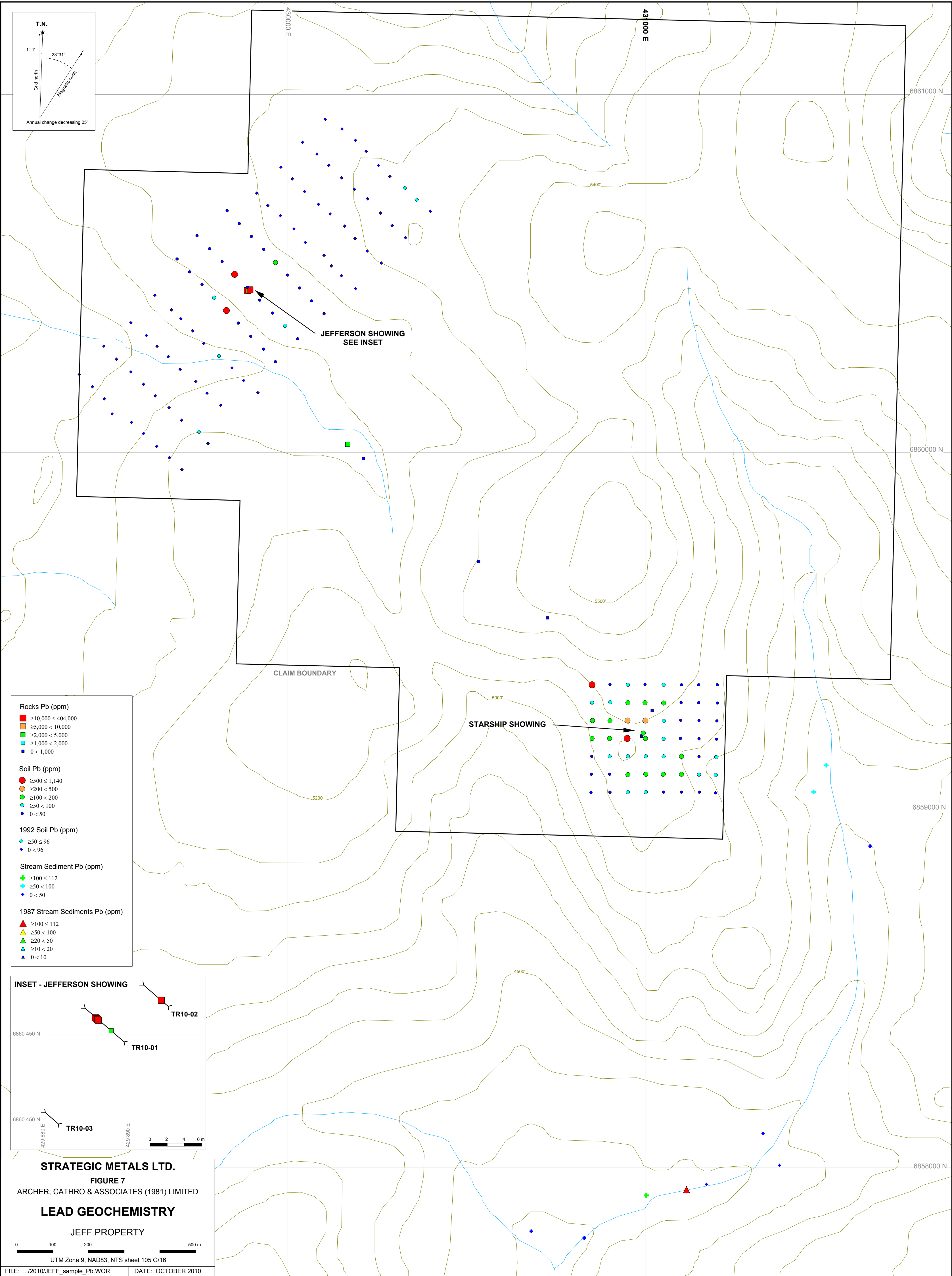
UTM Zone 9, NAD83, NTS sheet 105 G/16

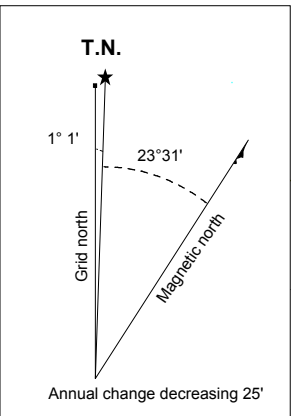
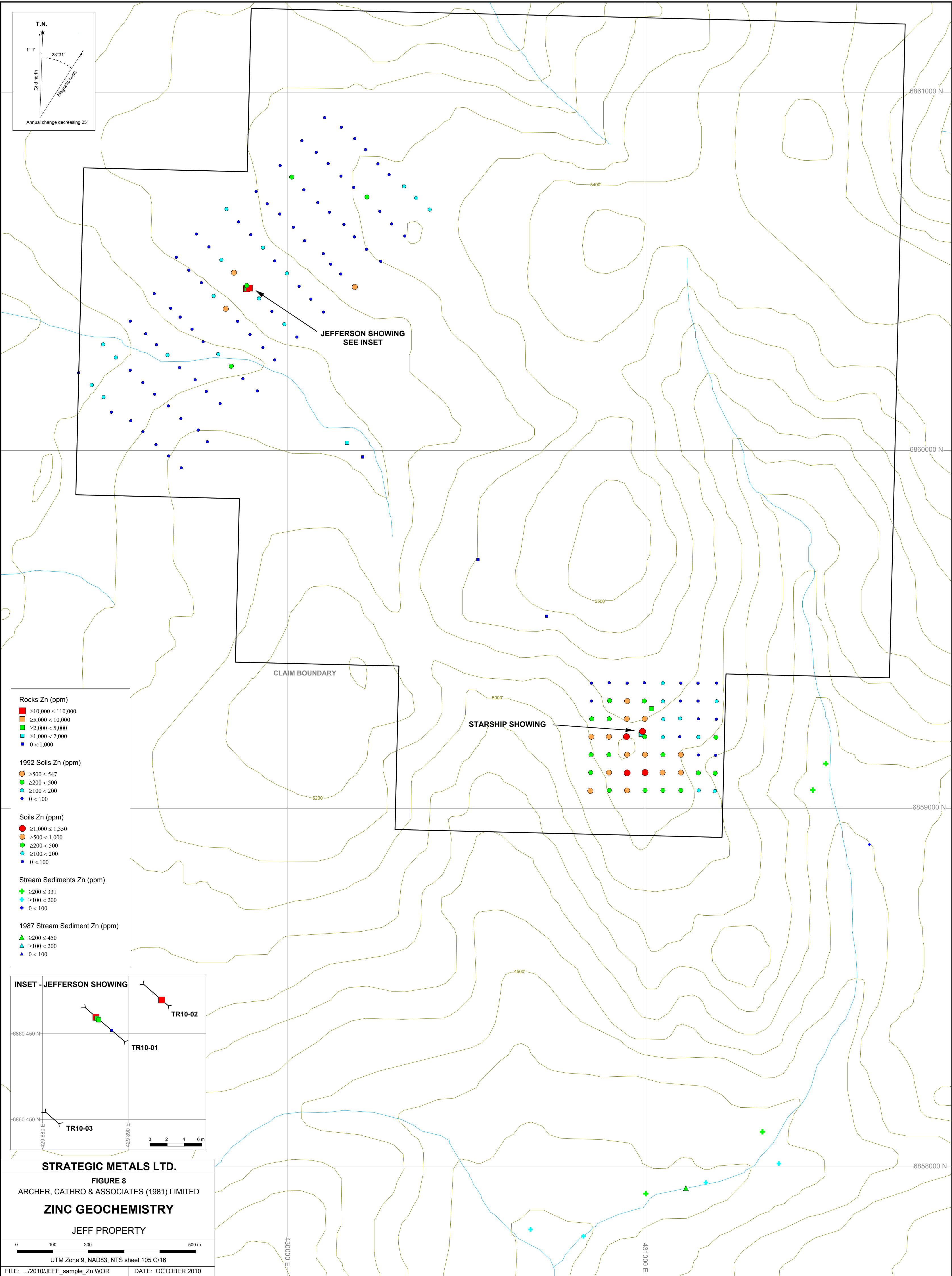
FILE: .../2010/JEFF\_sample\_loc.WOR

DATE: OCTOBER 2010

- 2010 rock sample
- 2010 soil sample
- 1992 soil sample
- 2010 stream sediment sample







**Rocks Zn (ppm)**

- Red square:  $\geq 10,000 \leq 110,000$
- Orange square:  $\geq 5,000 < 10,000$
- Green square:  $\geq 2,000 < 5,000$
- Cyan square:  $\geq 1,000 < 2,000$
- Blue square:  $0 < 1,000$

**1992 Soils Zn (ppm)**

- Orange circle:  $\geq 500 \leq 547$
- Green circle:  $\geq 200 < 500$
- Cyan circle:  $\geq 100 < 200$
- Blue circle:  $0 < 100$

**Soils Zn (ppm)**

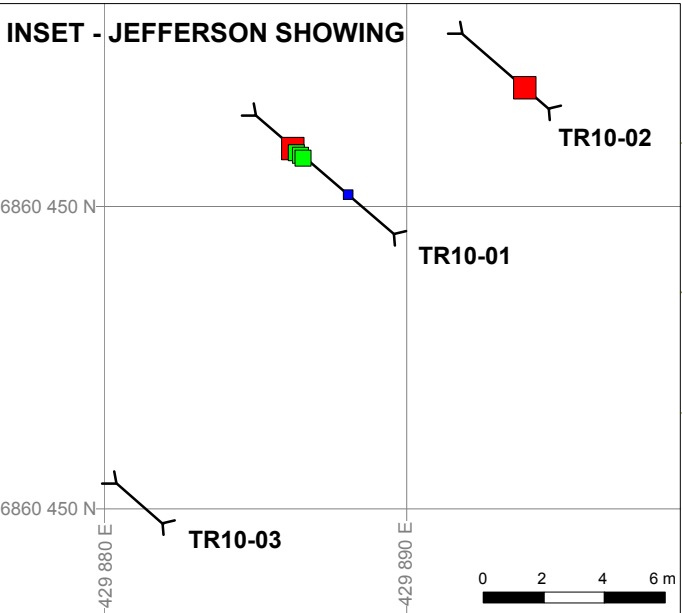
- Red circle:  $\geq 1,000 \leq 1,350$
- Orange circle:  $\geq 500 < 1,000$
- Green circle:  $\geq 200 < 500$
- Cyan circle:  $\geq 100 < 200$
- Blue circle:  $0 < 100$

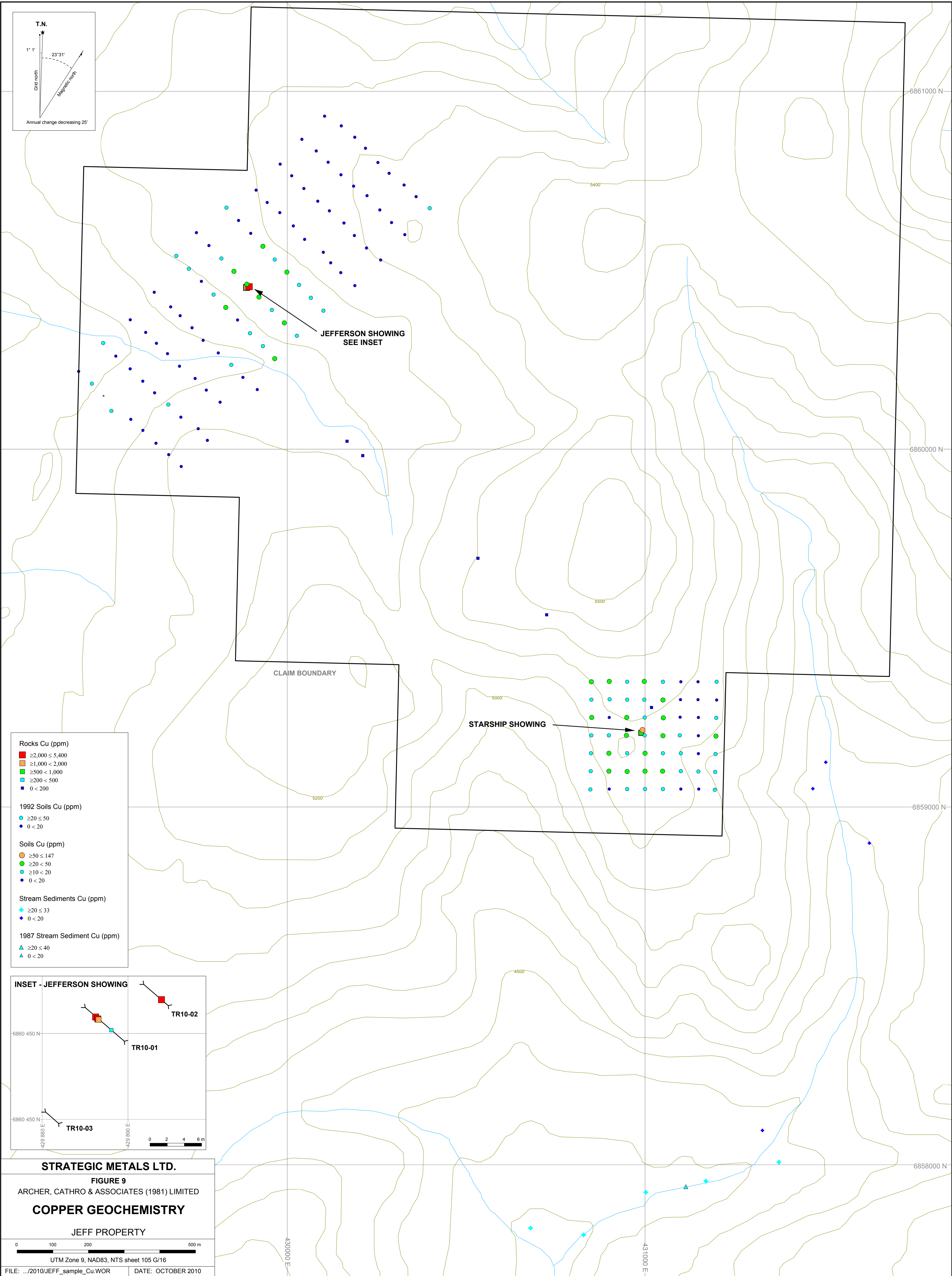
**Stream Sediments Zn (ppm)**

- Green plus:  $\geq 200 \leq 331$
- Cyan plus:  $\geq 100 < 200$
- Blue plus:  $0 < 100$

**1987 Stream Sediment Zn (ppm)**

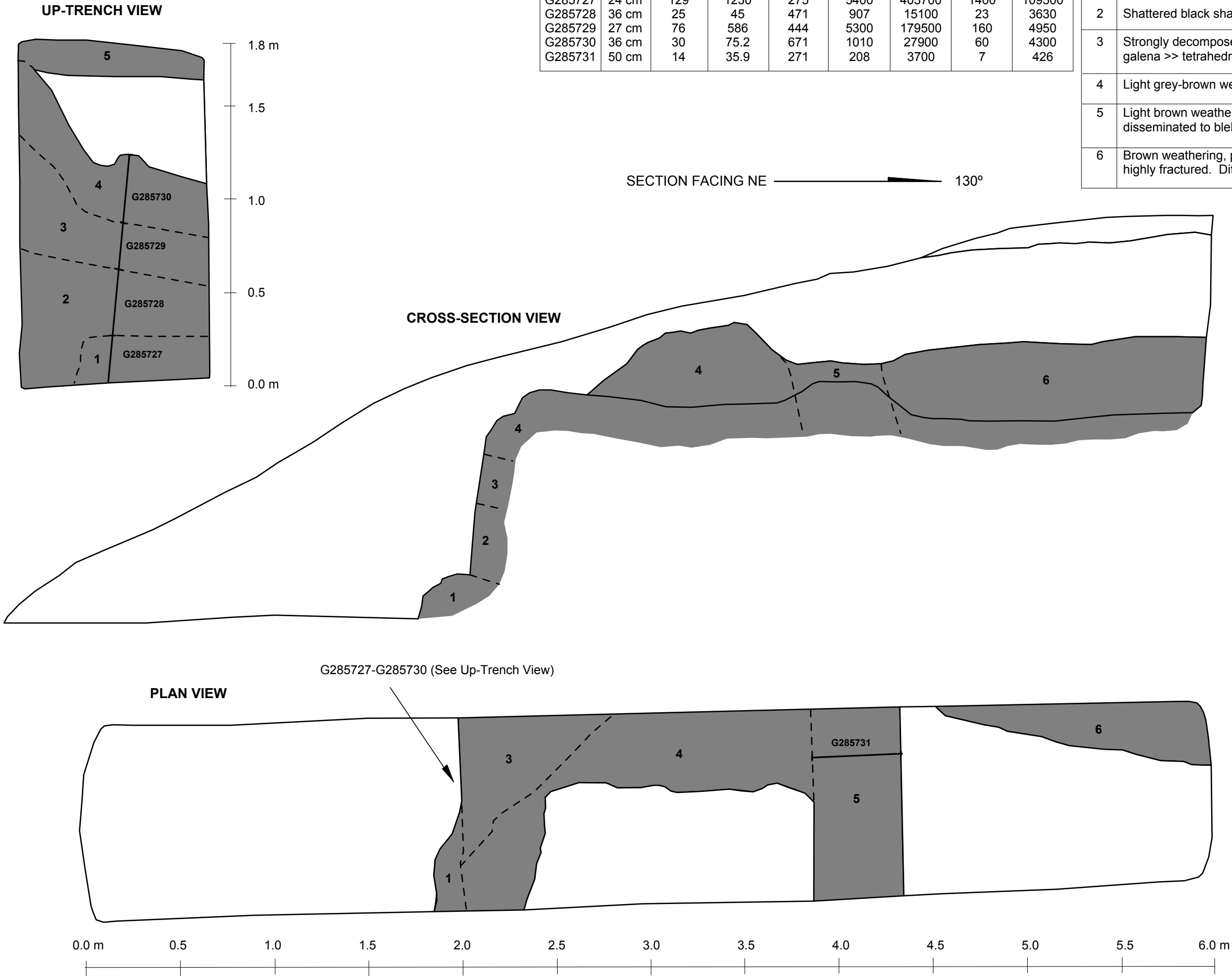
- Green triangle:  $\geq 200 \leq 450$
- Cyan triangle:  $\geq 100 < 200$
- Blue triangle:  $0 < 100$





| Sample  | Length | Au (ppb) | Ag (ppm) | As (ppm) | Cu (ppm) | Pb (ppm) | Sb (ppm) | Zn (ppm) |
|---------|--------|----------|----------|----------|----------|----------|----------|----------|
| G285727 | 24 cm  | 129      | 1230     | 275      | 5400     | 403700   | 1400     | 109500   |
| G285728 | 36 cm  | 25       | 45       | 471      | 907      | 15100    | 23       | 3630     |
| G285729 | 27 cm  | 76       | 586      | 444      | 5300     | 179500   | 160      | 4950     |
| G285730 | 36 cm  | 30       | 75.2     | 671      | 1010     | 27900    | 60       | 4300     |
| G285731 | 50 cm  | 14       | 35.9     | 271      | 208      | 3700     | 7        | 426      |

|   |                                                                                                                                     |
|---|-------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Massive, fine grained galena >> sphalerite and tetrahedrite with rare quartz. Limonite on oxidized surfaces. Appears to be lensy.   |
| 2 | Shattered black shale. Often very decomposed and frozen. Not gougey.                                                                |
| 3 | Strongly decomposed, rusty and black limonite with residual fine grained galena >> tetrahedrite and sphalerite with rare malachite. |
| 4 | Light grey-brown weathering, very weak argillite(?).                                                                                |
| 5 | Light brown weathering, medium grey, silicified black argillite(?) with minor disseminated to blebby pyrite.                        |
| 6 | Brown weathering, purple-grey, fine grained chert(?). No sulphides visible, highly fractured. Difficult to get fresh surface.       |



**STRATEGIC METALS LTD.**

**FIGURE 10**

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**TR10-01**

JEFFERSON SHOWING - JEFF PROPERTY

0 0.5 1.0 1.5 m

UTM Zone 9, NAD83, NTS sheet 105 G/16

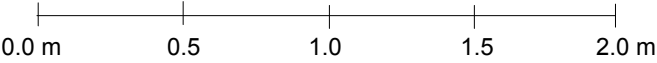
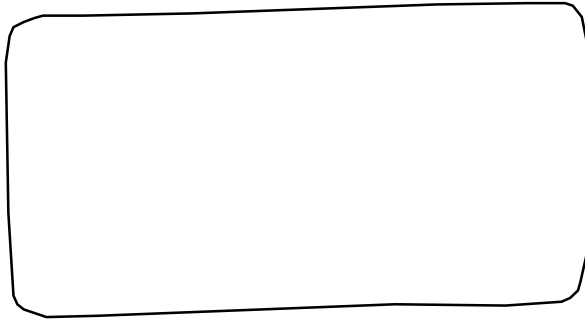
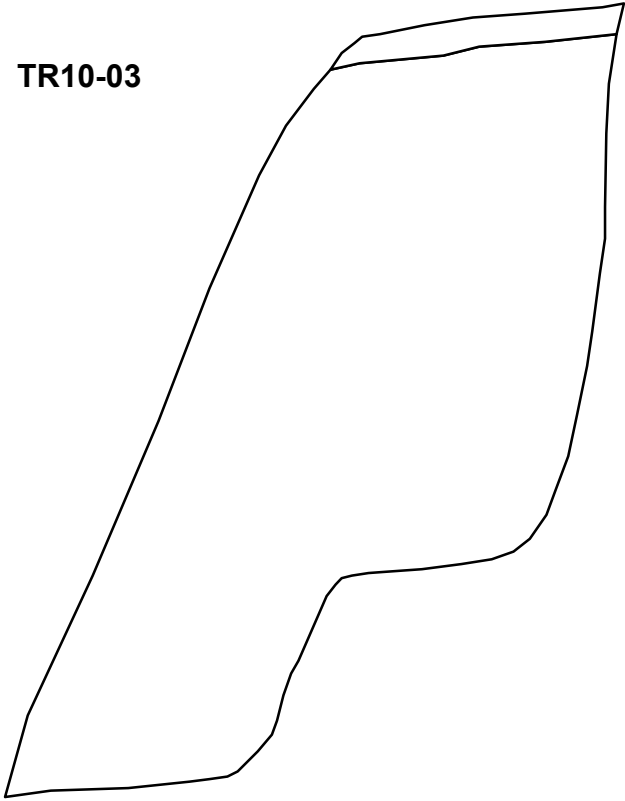
FILE: .../2010/JEFF\_TR10-01.WOR DATE: OCTOBER 2010

| Sample  | Type  | Au (ppb) | Ag (ppm) | As (ppm) | Cu (ppm) | Pb (ppm) | Sb (ppm) | Zn (ppm) |
|---------|-------|----------|----------|----------|----------|----------|----------|----------|
| G285732 | Float | 70       | 461      | 242      | 3090     | 351500   | 282      | 50500    |

|         |                                                           |
|---------|-----------------------------------------------------------|
| G285732 | Cobble of semi-massive galena >> pyrite with quartz vein. |
|---------|-----------------------------------------------------------|

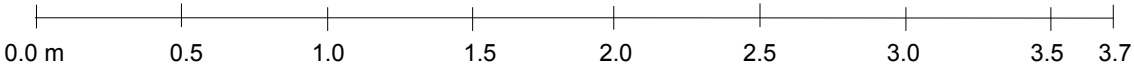
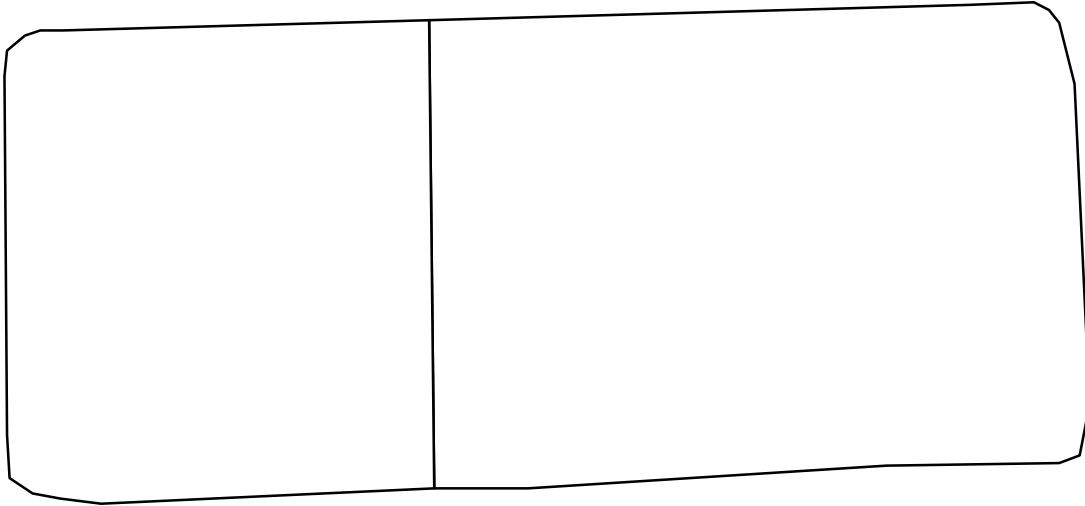
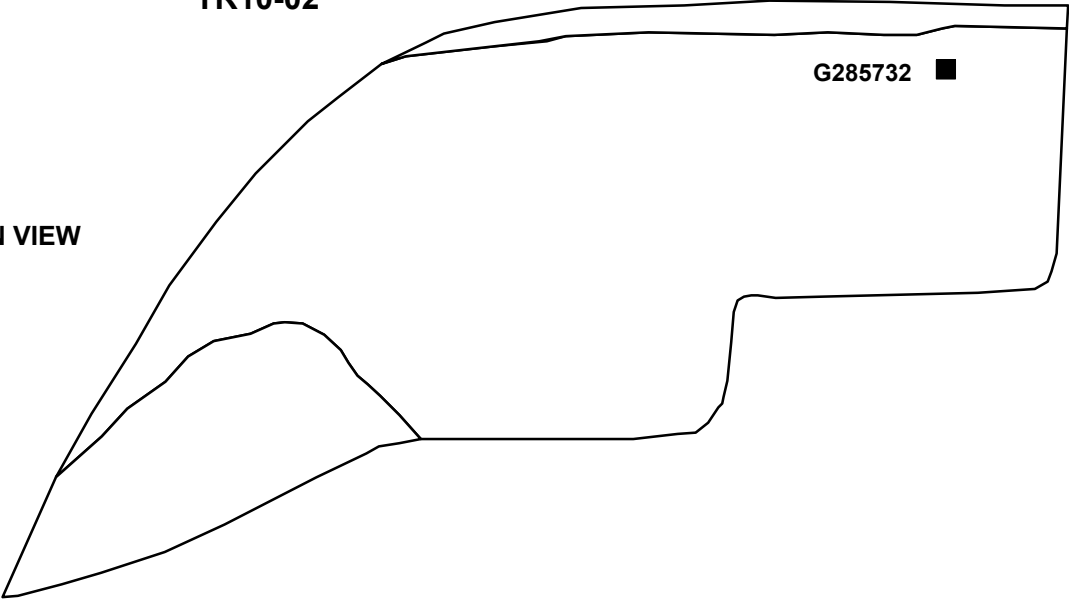
SECTION FACING NE  130°

TR10-03



SECTION FACING NE  130°

TR10-02



CROSS-SECTION VIEW

PLAN VIEW

-  Organics
-  Overburden
-  Shattered, loosely-consolidated shale

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FIGURE 11  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**TR10-02 & TR10-03**  
JEFFERSON SHOWING - JEFF PROPERTY

00.51.01.5

UTM Zone 9, NAD83, NTS sheet 105 G/16

FILE: ../2010/JEFF\_TR10-02/3.WORDATE: OCTOBER 2010

returned 461 g/t silver, 35.15% lead, 5.05% zinc, 0.31% copper, 282 ppm antimony and 0.070 g/t gold.

The Starship Showing was discovered in 2010 within a linear gully on a ridge top in the southern part of the property. This showing comprises locally abundant goethite with quartz vein. Five float samples were collected within a 10 by 10 m area. They returned weak to moderate values for silver, lead, zinc and copper, with strong bismuth, weak antimony and weak gold results. These five samples averaged 16.3 g/t silver, 421 ppm lead, 1839 ppm zinc, 956 ppm copper and 808 ppm bismuth. A sixth sample was taken 75 m north of the Starship Showing. It comprised orange-brown weathering, fine grained, decomposed sandstone(?) with minor dense goethitic patches. This sample yielded 2230 ppm zinc, with weak values for the other elements of interest.



Linear gully at Starship Showing



Quartz vein with goethite at Starship Showing

Four scattered float samples were collected between the two showings. One sample of silicified mudstone returned 9.4 g/t silver, 3279 ppm lead and 1355 ppm zinc. The other three samples comprised weakly limonitic quartz vein and silicified mudstone. They yielded background values for all elements of interest.

## **STREAM SEDIMENT AND SOIL GEOCHEMISTRY**

### **Stream Sediment Sampling**

The 1987 GSC reconnaissance stream sediment survey reports 99<sup>th</sup> percentile silver and lead values and a 90<sup>th</sup> percentile zinc value for a sample taken from a stream draining south from the Jeff property (Friske et al, 2008). A second sample, collected from a creek that drains northwest from the property, yielded background values for the elements of interest. Silver, lead, zinc and copper results for the GSC samples are shown on Figures 6 through 9, while Sampling and Analytical Procedures are described in Appendix II. Table III lists percentile ranges for the elements of interest for the GSC samples (regional background levels for these elements are based on the 80<sup>th</sup> percentile values from the GSC survey).

**Table III – Regional Stream Sediment Percentile Thresholds (NTS 105G)**

| <b>Percentile</b> | <b>Lead (ppm)</b> | <b>Zinc (ppm)</b> | <b>Silver (ppm)</b> | <b>Copper (ppm)</b> |
|-------------------|-------------------|-------------------|---------------------|---------------------|
| 80 <sup>th</sup>  | 23                | 241               | 0.3                 | 42                  |
| 90 <sup>th</sup>  | 33                | 322               | 0.4                 | 54                  |
| 95 <sup>th</sup>  | 45                | 504               | 0.7                 | 69                  |
| 98 <sup>th</sup>  | 60                | 773               | 0.9                 | 94                  |
| 99 <sup>th</sup>  | 90                | 1065              | 1.1                 | 123                 |
| Max.              | 135               | 2140              | 4.3                 | 4510                |

During the 2010 program, 9 stream sediment samples were collected from the anomalous GSC stream and its tributaries to better define the source of the metals. Sample locations and silver, lead, zinc and copper results for these samples are shown on Figures 5 through 9, respectively. Sampling and Analytical Procedures are provided in Appendix II and Certificates of Analysis are given in Appendix IV. Table IV shows the distribution of the 2010 samples statistically using GSC percentile thresholds.

**Table IV – 2010 Stream Sediment Sample Statistics**

| <b>Percentile</b> | <b>Number of Samples by Element</b> |             |               |               |
|-------------------|-------------------------------------|-------------|---------------|---------------|
|                   | <b>Lead</b>                         | <b>Zinc</b> | <b>Silver</b> | <b>Copper</b> |
| Background        | 4                                   | 6           | 3             | 9             |
| 80 <sup>th</sup>  | 1                                   | 2           | 1             | 0             |
| 90 <sup>th</sup>  | 1                                   | 1           | 4             | 0             |
| 95 <sup>th</sup>  | 1                                   | 0           | 0             | 0             |
| 98 <sup>th</sup>  | 0                                   | 0           | 0             | 0             |
| 99 <sup>th</sup>  | 2                                   | 0           | 1             | 0             |
| Max.              | 112                                 | 331         | 1.2           | 33            |

The peak 2010 stream sediment values correspond well to those from the anomalous 1987 GSC sample.

### **Soil Sampling**

In 1991, soil sampling reportedly defined a southwest to northeast trending geochemical anomaly extending outwards from the showing (Schultz, 1992 - no assessment report is available for this work).

In 1992, a total of 71 soil samples were collected by Cominco on its Jeff claims. In 2010, Strategic Metals collected an additional 27 grid soil samples in the vicinity of the Jefferson Showing and 57 samples centred over the Starship Showing. Sample locations and results for silver, lead, zinc and copper are plotted on Figures 5 to 9. Sampling and Analytical Procedures for all samples are provided in Appendix II, while Certificates of Analysis for 2010 samples are given in Appendix IV. Table V lists the ranges of values that define background, weak, moderate and strong soil anomalies.

**Table V –Soil Sample Thresholds**

| <b>Percentile</b> | <b>Background</b> | <b>Weak</b> | <b>Moderate</b> | <b>Strong</b> | <b>Peak</b> |
|-------------------|-------------------|-------------|-----------------|---------------|-------------|
| Lead (ppm)        | < 50              | ≥ 50 < 200  | ≥ 200 < 500     | ≥ 500         | 1,140       |
| Zinc (ppm)        | < 100             | ≥ 100 < 500 | ≥ 500           | n/a           | 547         |
| Copper (ppm)      | < 10              | ≥ 10 < 50   | ≥ 50            | n/a           | 147         |
| Silver (ppm)      | < 0.5             | ≥ 0.5 < 2.0 | ≥ 2.0 < 5.0     | ≥ 5.0         | 5.0         |

Samples within the 1992 Cominco grids generally yielded background to weak values for all elements of interest. The 2010 samples were positioned between the historical grids and returned a higher proportion of anomalous values. Two samples that lie west of the Jefferson Showing are moderately to strongly anomalous for silver, lead and zinc. These samples are surrounded by a broader, weakly anomalous copper halo. Based on the soil geochemistry, it appears as though the vein set trends between north and northeast.

The grid in the vicinity of the Starship Showing yielded numerous weakly to strongly anomalous values for lead, zinc and copper, with rare elevated silver values. This anomaly is most pronounced in the southwest portion of that grid.

### **DISCUSSION AND CONCLUSIONS**

Soil geochemical sampling at the Jeff property outlined two coincident silver-lead-zinc±copper anomalies, both of which are in the vicinity of known showings.

One of the hand trenches at the Jefferson Showing exposed a set of lensy galena-sphalerite±tetrahedrite rich veins, a composite chip sample across part of which returned encouraging results, averaging 404 g/t silver, 13.08% lead and 2.48% zinc over 1.23 m. This trench should be extended and the other trenches deepened so that the entire width of the vein is exposed. Samples should also be taken from both hangingwall and footwall rocks.

Soil sampling appears to be an effective tool for identifying buried mineralization. As such, future work at the Jefferson Showing should consist of infill sampling on the 2010 grid with closely spaced soil samples (25 x 25 m) in order to ascertain the orientation of the veins. After results of the infill soil sampling are received, additional hand trenches should be excavated at strongly anomalous sample sites to determine the length, width, orientation and grade variability of the veins.

The soil grid at the Starship Showing should be extended to the northwest, west and south to better constrain that anomaly. Systematic prospecting and hand trenching of the showing should also be carried out.

Prior to the future field work, airphotos should be examined to locate possible faults and vein structures. Their location should then be compared to the soil geochemical anomalies to define probable source areas and fault offsets.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Sarah Eaton, B.Sc. Geology, GIT

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**APPENDIX I**  
**STATEMENT OF QUALIFICATIONS**

## **STATEMENT OF QUALIFICATIONS**

I, Sarah Eaton, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in North Vancouver, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 2007 with a B.Sc. in Honours Geological Sciences.
2. From 2002 to present, I have been actively engaged in mineral exploration in Yukon Territory, British Columbia and Northwest Territories.
3. I am a Geoscientist in Training (GIT) with the Association of Professional Engineers and Geoscientists of British Columbia (Member Number 154922).
4. I have personally participated in the field work reported herein and have interpreted all data resulting from this work.

Sarah Eaton, B.Sc. (Hon.) Geology, GIT

**APPENDIX II**

**SAMPLING AND ANALYTICAL PROCEDURES**

## **2010 Rock, Stream Sediment and Soil Geochemical Samples**

### **Rock Samples**

Rock geochemical sample sites and chip sample intervals were marked with orange flagging tape labelled with the sample number. The location of each sample was determined using a handheld GPS unit.

Multi-element analyses for rock samples were carried out at ALS Chemex in North Vancouver, B.C. Each sample was dried, fine crushed to better than 70% passing 2mm and then a 250 g split was pulverized to better than 85% passing 75 micron. The fine fraction was then analyzed for gold using fire assay with inductively coupled plasma-atomic emission spectroscopy finish (Au-ICP21) and for 35 other elements using an aqua regia digestion and inductively coupled plasma-atomic emission spectroscopy analysis (ME-ICP41).

### **Stream Sediment Samples**

Stream sediment samples were collected by hand and placed in individually pre-numbered Kraft paper bags. The locations were marked with orange flagging labelled with the sample number. Locations were recorded using hand-held GPS.

The stream sediment samples were shipped to ALS Chemex, where they were dried and sieved to -180 microns. They were then dissolved in aqua regia solution and then analyzed for 35 elements using ME-ICP41. An additional 30 g charge was further analysed for gold by Au-ICP21.

### **Soil Samples**

All 2010 soil sample locations were recorded using hand-held GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Soil samples were collected from 10 to 40 cm deep holes dug by hand-held auger. They were placed into individually pre-numbered Kraft paper bags.

The soil samples were sent to ALS Chemex, where they were dried, screened to -180 microns, and then analyzed for 35 elements using ME-ICP41. An additional 30 g charge was further analysed for gold by Au-ICP21.

### **1992 Soil Samples (Schultze, 1992)**

Soil samples were collected at 50 m intervals along 350 m long lines spaced 100 m apart. Hip chains and compasses were used for control. The B-horizon was sampled in all but seven samples. Samples were collected in large Kraft paper envelopes, air dried and shipped to Cominco's Exploration Research Lab in Vancouver, B.C. for analysis. At the lab, the samples were sieved to -80 mesh fraction and digested in hot nitric acid solution and then analyzed by sequential ICP for eight elements.

### **1987 Stream Sediment Samples (Friske et al, 2008)**

During the summer of 1987, helicopter and truck-supported stream sediment and water sampling was carried out in the Finlayson Lake area, southeast Yukon. Samples were collected at 914 sites at an average density of one sample per 13 km<sup>2</sup> throughout the 11,900 km<sup>2</sup> survey area (NTS map sheet 105G). Sample site duplicate samples were routinely collected in each analytical block of twenty samples. The data are published in Geological Survey of Canada Open File 1648.

The stream silt sediment samples were reanalyzed by ICP-MS in 2008 and published in GSC Open File 5696.

**APPENDIX III**  
**ROCK SAMPLE DESCRIPTIONS**

| Rock Sample Descriptions                                                                                                                                                                                                  |            |          | Project: <u>Finlayson Lake</u> | Property: <u>Jeff</u> | NAD83 Zone 9           | June 27, 2010               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|--------------------------------|-----------------------|------------------------|-----------------------------|
| Sample Number:                                                                                                                                                                                                            | Grid East: | E        | Grid North:                    | N                     | Type: <u>Float</u>     | Dimension:                  |
| G285715                                                                                                                                                                                                                   | UTM:       | 430533 E | UTM:                           | 6859695 N             | Sample Width:          | Abundance:                  |
|                                                                                                                                                                                                                           | Elevation: | m        |                                |                       |                        |                             |
| Comments: 1 block of quartz vein with local rusty staining and trace limonite. Exposed on grassy slope.                                                                                                                   |            |          |                                |                       |                        |                             |
| Sample Number:                                                                                                                                                                                                            | Grid East: | E        | Grid North:                    | N                     | Type: <u>Float</u>     | Dimension:                  |
| G285716                                                                                                                                                                                                                   | UTM:       | 430725 E | UTM:                           | 6859537 N             | Sample Width:          | Abundance:                  |
|                                                                                                                                                                                                                           | Elevation: | m        |                                |                       |                        |                             |
| Comments: 10 fragments of weakly rusty, vuggy quartz vein with minor limonite exposed on shale slope with abundant quartz vein (about 25%).                                                                               |            |          |                                |                       |                        |                             |
| Sample Number:                                                                                                                                                                                                            | Grid East: | E        | Grid North:                    | N                     | Type: <u>Float</u>     | Dimension:                  |
| G285717                                                                                                                                                                                                                   | UTM:       | 431018 E | UTM:                           | 6859278 N             | Sample Width:          | Abundance:                  |
|                                                                                                                                                                                                                           | Elevation: | m        |                                |                       |                        |                             |
| Comments: 1 block of orange-brown weathering, fine grained and grainy, non-calcareous soft rock with some denser, darker (goethitic?) patches. At base of talus slope with abundant "punky" beige sandy rock (??).        |            |          |                                |                       |                        |                             |
| Sample Number:                                                                                                                                                                                                            | Grid East: | E        | Grid North:                    | N                     | Type: <u>Composite</u> | Dimension:                  |
| G285722                                                                                                                                                                                                                   | UTM:       | 430989 E | UTM:                           | 6859207 N             | Sample Width:          | Abundance:                  |
|                                                                                                                                                                                                                           | Elevation: | m        |                                |                       |                        |                             |
| Comments: 6 cm wide orange-white weathering quartz vein with minor light orange limonite. The quartz vein is sandwiched between goethitic margins. Goethite is dense with minor orange limonite. In float in broad gully. |            |          |                                |                       |                        |                             |
| Sample Number:                                                                                                                                                                                                            | Grid East: | E        | Grid North:                    | N                     | Type: <u>Float</u>     | Dimension:                  |
| G285723                                                                                                                                                                                                                   | UTM:       | 430989 E | UTM:                           | 6859207 N             | Sample Width:          | Abundance:                  |
|                                                                                                                                                                                                                           | Elevation: | m        |                                |                       |                        |                             |
| Comments: 20 x 20 x 20 cm block of orange-purple weathering, quartz veined sedimentary rock (fine grained, beige, slightly "punky"). Oxidized throughout.                                                                 |            |          |                                |                       |                        |                             |
| Sample Number:                                                                                                                                                                                                            | Grid East: | E        | Grid North:                    | N                     | Type: <u>Float</u>     | Dimension:                  |
| G285724                                                                                                                                                                                                                   | UTM:       | 430989 E | UTM:                           | 6859207 N             | Sample Width:          | Abundance: <u>plentiful</u> |
|                                                                                                                                                                                                                           | Elevation: | m        |                                |                       |                        |                             |
| Comments: 1 block of dark purple-brown weathering, purple brown with spotty orange, moderately vuggy goethite with local quartz stringers. Attached to a larger quartz vein.                                              |            |          |                                |                       |                        |                             |

| Rock Sample Descriptions                                                                                                                                                                                         |            |          | Project: <u>Finlayson Lake</u> | Property: <u>Jeff</u> | NAD83 Zone 9        | June 27, 2010 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|--------------------------------|-----------------------|---------------------|---------------|
| Sample Number:                                                                                                                                                                                                   | Grid East: | E        | Grid North:                    | N                     | Type: Composite     | Dimension:    |
| G285725                                                                                                                                                                                                          | UTM:       | 430989 E | UTM:                           | 6859207 N             | Sample Width:       | Abundance:    |
|                                                                                                                                                                                                                  | Elevation: | m        |                                |                       |                     |               |
| Comments: 8 fragments of dark purple, dense goethite with minor orange limonite pockets. Taken within 1 x 2 m area with abundant fragments of this type.                                                         |            |          |                                |                       |                     |               |
| Sample Number:                                                                                                                                                                                                   | Grid East: | E        | Grid North:                    | N                     | Type: Composite     | Dimension:    |
| G285726                                                                                                                                                                                                          | UTM:       | 430989 E | UTM:                           | 6859207 N             | Sample Width:       | Abundance:    |
|                                                                                                                                                                                                                  | Elevation: | m        |                                |                       |                     |               |
| Comments: Several very small fragments of rusty-orange weathering boxwork limonite. In the same area as G285725. Weak quartz blebs to stringers within the limonite. Float train is very localized (30 x 30 cm). |            |          |                                |                       |                     |               |
| Sample Number:                                                                                                                                                                                                   | Grid East: | E        | Grid North:                    | N                     | Type: Chip          | Dimension:    |
| G285727                                                                                                                                                                                                          | UTM:       | 429885 E | UTM:                           | 6860453 N             | Sample Width: 24 cm | Abundance:    |
|                                                                                                                                                                                                                  | Elevation: | m        |                                |                       |                     |               |
| Comments: Massive, fine grained galena >> sphalerite and tetrahedrite with rare quartz. Limonite on oxidized surfaces. Appears to be lensey - could not trace it along strike. Right at base of trench.          |            |          |                                |                       |                     |               |
| Sample Number:                                                                                                                                                                                                   | Grid East: | E        | Grid North:                    | N                     | Type: Chip          | Dimension:    |
| G285728                                                                                                                                                                                                          | UTM:       | 429885 E | UTM:                           | 6860453 N             | Sample Width: 36 cm | Abundance:    |
|                                                                                                                                                                                                                  | Elevation: | m        |                                |                       |                     |               |
| Comments: Shattered black shale. Often very decomposed and frozen. Not gougey.                                                                                                                                   |            |          |                                |                       |                     |               |
| Sample Number:                                                                                                                                                                                                   | Grid East: | E        | Grid North:                    | N                     | Type: Chip          | Dimension:    |
| G285729                                                                                                                                                                                                          | UTM:       | 429885 E | UTM:                           | 6860453 N             | Sample Width: 27 cm | Abundance:    |
|                                                                                                                                                                                                                  | Elevation: | m        |                                |                       |                     |               |
| Comments: Strongly decomposed, rusty and black limonite with residual fine grained galena >> sphalerite and tetrahedrite with rare malachite.                                                                    |            |          |                                |                       |                     |               |
| Sample Number:                                                                                                                                                                                                   | Grid East: | E        | Grid North:                    | N                     | Type: Chip          | Dimension:    |
| G285730                                                                                                                                                                                                          | UTM:       | 429885 E | UTM:                           | 6860453 N             | Sample Width: 36 cm | Abundance:    |
|                                                                                                                                                                                                                  | Elevation: | m        |                                |                       |                     |               |
| Comments: Light grey-brown weathering, very weak argillite?                                                                                                                                                      |            |          |                                |                       |                     |               |

| Rock Sample Descriptions                                                                                                                                                                                                                                                                  |            |          | Project: <u>Finlayson Lake</u> | Property: <u>Jeff</u> | NAD83 Zone 9        | June 27, 2010        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|--------------------------------|-----------------------|---------------------|----------------------|
| Sample Number:                                                                                                                                                                                                                                                                            | Grid East: | E        | Grid North:                    | N                     | Type: Chip          | Dimension:           |
| G285731                                                                                                                                                                                                                                                                                   | UTM:       | 429885 E | UTM:                           | 6860453 N             | Sample Width: 50 cm | Abundance: plentiful |
|                                                                                                                                                                                                                                                                                           | Elevation: | m        |                                |                       |                     |                      |
| Comments: Light brown weathering, medium grey, silicified black argillite(?) with minor disseminated to blebby pyrite. Occurs as a band of more resistant rock. Sample may not be oriented perpendicular to bedding width - too hard to tell if in bedding or if structurally controlled. |            |          |                                |                       |                     |                      |
| Sample Number:                                                                                                                                                                                                                                                                            | Grid East: | E        | Grid North:                    | N                     | Type: Trench float  | Dimension:           |
| G285732                                                                                                                                                                                                                                                                                   | UTM:       | 429893 E | UTM:                           | 6860452 N             | Sample Width:       | Abundance:           |
|                                                                                                                                                                                                                                                                                           | Elevation: | m        |                                |                       |                     |                      |
| Comments: At very top of Jeff-TR10-02, one cobble of semi-massive galena >> pyrite with moderate quartz vein. In float just below organics. No other mineralization (in bedrock or float) was found elsewhere in trench.                                                                  |            |          |                                |                       |                     |                      |
| Sample Number:                                                                                                                                                                                                                                                                            | Grid East: | E        | Grid North:                    | N                     | Type: Float         | Dimension:           |
| G285733                                                                                                                                                                                                                                                                                   | UTM:       | 430167 E | UTM:                           | 6860022 N             | Sample Width:       | Abundance:           |
|                                                                                                                                                                                                                                                                                           | Elevation: | m        |                                |                       |                     |                      |
| Comments: 1 small cobble of rusty-grey, greasy shale/phyllite with quartz vein and limonite. Limonite occurs within quartz vein and along fracture faces. On southern side of creek.                                                                                                      |            |          |                                |                       |                     |                      |
| Sample Number:                                                                                                                                                                                                                                                                            | Grid East: | E        | Grid North:                    | N                     | Type: Float         | Dimension:           |
| G285734                                                                                                                                                                                                                                                                                   | UTM:       | 430211 E | UTM:                           | 6859982 N             | Sample Width:       | Abundance:           |
|                                                                                                                                                                                                                                                                                           | Elevation: | m        |                                |                       |                     |                      |
| Comments: Strongly silicified black mudstone with weakly to moderately abundant limonite with rare residual pyrite. Limonite is within the quartz vein. From southern side of creek.                                                                                                      |            |          |                                |                       |                     |                      |

**APPENDIX IV**  
**CERTIFICATES OF ANALYSIS**



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

2103 Dollarton Hwy

North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: STRATEGIC METALS LTD.

C/O ARCHER, CATHRO & ASSOCIATES (1981)

LIMITED

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Page: 1

Finalized Date: 25-JUL-2010

Account: MTT

## CERTIFICATE VA10098078

Project: JEFF

P.O. No.:

This report is for 56 Soil samples submitted to our lab in Vancouver, BC, Canada on 19-JUL-2010.

The following have access to data associated with this certificate:

JOAN MARIACHER

BILL WENGZYNOWSKI

## SAMPLE PREPARATION

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

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION                   | INSTRUMENT |
|----------|-------------------------------|------------|
| ME-ICP41 | 35 Element Aqua Regia ICP-AES | ICP-AES    |

To: STRATEGIC METALS LTD.  
ATTN: JOAN MARIACHER  
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:

Colin Ramshaw, Vancouver Laboratory Manager



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

2103 Dollarton Hwy

North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: STRATEGIC METALS LTD.

C/O ARCHER, CATHRO & ASSOCIATES (1981)

LIMITED

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Project: JEFF

Page: 2 - A

Total # Pages: 3 (A - C)

Finalized Date: 25-JUL-2010

Account: MTT

## CERTIFICATE OF ANALYSIS VA10098078

| Sample Description | Method                  | WEI-21                  | ME-ICP41         | ME-ICP41        | ME-ICP41       | ME-ICP41       | ME-ICP41        | ME-ICP41         | ME-ICP41       | ME-ICP41        | ME-ICP41         | ME-ICP41       | ME-ICP41       | ME-ICP41       | ME-ICP41        | ME-ICP41        |
|--------------------|-------------------------|-------------------------|------------------|-----------------|----------------|----------------|-----------------|------------------|----------------|-----------------|------------------|----------------|----------------|----------------|-----------------|-----------------|
|                    | Analyte<br>Units<br>LOR | Recvd Wt.<br>kg<br>0.02 | Ag<br>ppm<br>0.2 | Al<br>%<br>0.01 | As<br>ppm<br>2 | B<br>ppm<br>10 | Ba<br>ppm<br>10 | Be<br>ppm<br>0.5 | Bi<br>ppm<br>2 | Ca<br>%<br>0.01 | Cd<br>ppm<br>0.5 | Co<br>ppm<br>1 | Cr<br>ppm<br>1 | Cu<br>ppm<br>1 | Fe<br>%<br>0.01 | Ga<br>ppm<br>10 |
| CC100115           |                         | 0.22                    | <0.2             | 1.09            | 9              | <10            | 130             | 0.6              | <2             | 1.51            | 3.9              | 4              | 16             | 10             | 1.51            | <10             |
| CC100116           |                         | 0.26                    | 0.2              | 0.75            | 14             | <10            | 120             | 0.9              | 3              | 7.5             | 12.3             | 4              | 10             | 30             | 1.60            | <10             |
| CC100117           |                         | 0.18                    | 0.3              | 1.25            | 17             | <10            | 110             | 0.5              | 6              | 0.24            | 3.2              | 7              | 22             | 23             | 3.05            | 10              |
| CC100118           |                         | 0.16                    | 0.3              | 0.82            | 4              | <10            | 110             | 0.5              | <2             | 0.77            | 3.8              | 2              | 6              | 17             | 0.68            | <10             |
| CC100119           |                         | 0.24                    | 0.3              | 0.46            | 10             | <10            | 50              | 0.5              | <2             | 1.03            | 4.7              | 2              | 5              | 16             | 0.65            | <10             |
| CC100120           |                         | 0.20                    | <0.2             | 0.85            | 6              | <10            | 260             | 0.5              | <2             | 0.06            | 0.7              | 2              | 7              | 11             | 1.11            | <10             |
| CC100121           |                         | 0.24                    | <0.2             | 0.91            | 9              | <10            | 100             | 0.5              | <2             | 0.02            | <0.5             | 4              | 14             | 22             | 1.98            | <10             |
| CC100122           |                         | 0.30                    | <0.2             | 1.19            | 18             | <10            | 190             | 0.6              | <2             | 0.20            | 0.5              | 15             | 18             | 19             | 2.91            | <10             |
| CC100123           |                         | 0.26                    | 0.2              | 0.76            | 12             | <10            | 130             | 0.9              | <2             | 5.86            | 6.7              | 3              | 8              | 12             | 1.04            | <10             |
| CC100124           |                         | 0.28                    | 0.7              | 0.50            | 12             | <10            | 370             | 0.8              | <2             | 9.8             | 12.4             | 5              | 5              | 33             | 0.89            | <10             |
| CC100125           |                         | 0.38                    | 0.3              | 0.17            | 25             | <10            | 50              | 0.5              | <2             | 14.6            | 24.1             | 8              | 4              | 40             | 3.65            | <10             |
| CC100126           |                         | 0.28                    | 0.2              | 1.44            | 6              | <10            | 90              | 0.8              | <2             | 2.78            | 7.7              | 5              | 17             | 14             | 1.69            | <10             |
| CC100127           |                         | 0.30                    | <0.2             | 0.95            | 8              | <10            | 60              | 0.9              | 3              | 6.45            | 12.1             | 3              | 10             | 25             | 1.24            | <10             |
| CC100128           |                         | 0.38                    | <0.2             | 0.59            | 7              | <10            | 80              | 0.7              | 2              | 1.63            | 11.7             | 3              | 9              | 14             | 1.29            | <10             |
| CC100129           |                         | 0.22                    | <0.2             | 0.73            | 6              | <10            | 90              | 0.8              | 2              | 0.42            | 5.2              | 5              | 12             | 9              | 1.30            | <10             |
| CC100130           |                         | 0.16                    | 0.3              | 0.87            | 9              | <10            | 60              | <0.5             | 2              | 0.51            | 7.7              | 3              | 9              | 22             | 1.28            | <10             |
| CC100131           |                         | 0.24                    | <0.2             | 1.20            | 4              | <10            | 100             | 0.5              | <2             | 0.18            | 1.6              | 3              | 17             | 21             | 2.02            | <10             |
| CC100132           |                         | 0.30                    | 0.4              | 0.28            | 9              | <10            | 70              | <0.5             | <2             | 14.1            | 7.0              | 8              | 6              | 15             | 1.45            | <10             |
| CC100133           |                         | 0.16                    | 0.2              | 0.37            | 7              | <10            | 110             | <0.5             | <2             | 11.8            | 2.1              | 4              | 9              | 9              | 2.68            | <10             |
| CC100134           |                         | 0.24                    | 0.2              | 0.91            | <2             | <10            | 170             | <0.5             | <2             | 1.50            | 3.5              | 3              | 11             | 13             | 1.28            | <10             |
| CC100135           |                         | 0.30                    | 0.8              | 0.96            | 33             | <10            | 300             | 0.7              | <2             | 0.02            | <0.5             | 5              | 11             | 36             | 2.60            | <10             |
| CC100136           |                         | 0.18                    | 1.2              | 1.02            | 41             | <10            | 80              | <0.5             | 2              | 0.02            | <0.5             | 2              | 16             | 30             | 2.80            | <10             |
| CC100137           |                         | 0.26                    | 0.3              | 1.26            | 10             | <10            | 80              | <0.5             | <2             | 0.03            | <0.5             | 2              | 20             | 14             | 3.21            | 10              |
| CC100138           |                         | 0.30                    | 0.3              | 1.26            | 21             | <10            | 170             | 0.7              | <2             | 0.71            | 3.3              | 6              | 18             | 21             | 2.37            | <10             |
| CC100139           |                         | 0.22                    | 1.0              | 1.27            | 22             | <10            | 180             | 1.0              | <2             | 0.46            | 6.2              | 5              | 18             | 18             | 2.52            | <10             |
| CC100140           |                         | 0.16                    | 0.3              | 1.11            | 6              | <10            | 130             | 0.5              | <2             | 1.03            | 6.4              | 3              | 13             | 13             | 1.46            | <10             |
| CC100141           |                         | 0.22                    | <0.2             | 0.91            | 6              | <10            | 110             | 0.8              | <2             | 1.61            | 5.1              | 4              | 21             | 16             | 1.80            | <10             |
| CC100142           |                         | 0.24                    | 0.3              | 1.03            | 5              | <10            | 90              | 0.7              | 4              | 0.45            | 7.3              | 4              | 16             | 18             | 1.70            | <10             |
| CC100143           |                         | 0.24                    | <0.2             | 1.07            | 7              | <10            | 210             | 0.7              | 2              | 4.83            | 1.3              | 5              | 16             | 13             | 1.56            | <10             |
| CC100144           |                         | 0.26                    | 0.3              | 0.85            | 18             | <10            | 110             | 0.7              | 6              | 6.85            | 7.4              | 4              | 13             | 25             | 1.98            | <10             |
| CC100145           |                         | 0.26                    | 0.4              | 0.98            | 10             | <10            | 130             | 0.6              | 3              | 5.14            | 4.5              | 5              | 17             | 12             | 1.79            | <10             |
| CC100146           |                         | 0.14                    | 0.3              | 1.18            | 5              | <10            | 300             | 0.6              | <2             | 0.37            | 1.4              | 2              | 8              | 20             | 0.99            | <10             |
| CC100147           |                         | 0.28                    | 0.2              | 0.61            | 16             | <10            | 60              | 0.5              | 2              | 0.03            | 0.5              | 2              | 9              | 38             | 1.27            | <10             |
| CC100148           |                         | 0.22                    | 0.6              | 1.42            | 17             | <10            | 90              | 0.5              | 11             | 0.08            | 0.8              | 6              | 20             | 40             | 2.59            | <10             |
| CC100149           |                         | 0.20                    | 0.2              | 1.56            | 15             | <10            | 170             | <0.5             | <2             | 0.07            | 0.5              | 5              | 18             | 14             | 2.35            | <10             |
| CC100150           |                         | 0.26                    | <0.2             | 1.70            | <2             | <10            | 1520            | 0.6              | <2             | 1.91            | 0.5              | 3              | 18             | 6              | 0.87            | <10             |
| CC100351           |                         | 0.22                    | <0.2             | 2.89            | 2              | <10            | 880             | 0.8              | <2             | 1.73            | 0.6              | 3              | 27             | 6              | 1.13            | <10             |
| CC100352           |                         | 0.24                    | 0.5              | 3.18            | <2             | <10            | 430             | 0.7              | 2              | 0.14            | 1.4              | 3              | 26             | 9              | 1.06            | 10              |
| CC100353           |                         | 0.20                    | <0.2             | 0.68            | 12             | <10            | 60              | <0.5             | 2              | 0.02            | <0.5             | 4              | 12             | 13             | 1.74            | <10             |
| CC100354           |                         | 0.22                    | 0.4              | 0.68            | 6              | <10            | 110             | 0.5              | <2             | 9.4             | 6.7              | 3              | 11             | 15             | 1.23            | <10             |



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Project: JEFF

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Finalized Date: 25-JUL-2010

Account: MTT

## CERTIFICATE OF ANALYSIS VA10098078

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 |
|--------------------|-----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                    |                                   | Hg       | K        | La       | Mg       | Mn       | Mo       | Na       | Ni       | P        | Pb       | S        | Sb       | Sc       | Sr       |
|                    |                                   | ppm      | %        | ppm      | %        | ppm      | ppm      | %        | ppm      | ppm      | ppm      | %        | ppm      | ppm      | ppm      |
|                    |                                   | 1        | 0.01     | 10       | 0.01     | 5        | 1        | 0.01     | 1        | 10       | 2        | 0.01     | 2        | 1        | 1        |
| CC100115           |                                   | <1       | 0.03     | 20       | 1.36     | 399      | <1       | 0.01     | 18       | 560      | 54       | 0.02     | <2       | 2        | 18       |
| CC100116           |                                   | <1       | 0.03     | 20       | 4.94     | 935      | <1       | 0.01     | 63       | 490      | 169      | <0.01    | <2       | 2        | 61       |
| CC100117           |                                   | <1       | 0.04     | 10       | 0.38     | 548      | 1        | <0.01    | 25       | 780      | 92       | 0.01     | <2       | 1        | 14       |
| CC100118           |                                   | <1       | 0.02     | 10       | 0.70     | 126      | <1       | 0.02     | 11       | 820      | 122      | 0.05     | <2       | 1        | 11       |
| CC100119           |                                   | 1        | 0.01     | 10       | 1.25     | 602      | <1       | <0.01    | 18       | 330      | 453      | 0.01     | <2       | 1        | 7        |
| CC100120           |                                   | <1       | 0.02     | 10       | 0.76     | 279      | <1       | 0.01     | 27       | 740      | 107      | 0.02     | <2       | 1        | 5        |
| CC100121           |                                   | <1       | 0.04     | 10       | 0.26     | 236      | 1        | <0.01    | 15       | 1140     | 27       | 0.04     | <2       | <1       | 8        |
| CC100122           |                                   | <1       | 0.05     | 20       | 0.45     | 647      | 2        | <0.01    | 34       | 1300     | 82       | 0.04     | 2        | <1       | 20       |
| CC100123           |                                   | <1       | 0.02     | 10       | 4.51     | 1055     | <1       | 0.01     | 85       | 510      | 175      | 0.02     | <2       | 2        | 34       |
| CC100124           |                                   | <1       | 0.02     | 10       | 6.84     | 1075     | <1       | 0.01     | 45       | 260      | 398      | <0.01    | <2       | 1        | 76       |
| CC100125           |                                   | <1       | 0.01     | 10       | 9.01     | 464      | <1       | 0.01     | 36       | 280      | 843      | <0.01    | <2       | 1        | 50       |
| CC100126           |                                   | <1       | 0.03     | 10       | 2.73     | 564      | <1       | <0.01    | 36       | 420      | 60       | <0.01    | <2       | 2        | 17       |
| CC100127           |                                   | <1       | 0.02     | 20       | 5.08     | 790      | <1       | 0.01     | 81       | 620      | 112      | <0.01    | <2       | 2        | 34       |
| CC100128           |                                   | <1       | 0.03     | 10       | 1.20     | 561      | <1       | <0.01    | 22       | 490      | 52       | 0.02     | <2       | 1        | 26       |
| CC100129           |                                   | <1       | 0.02     | 20       | 0.71     | 768      | <1       | <0.01    | 14       | 500      | 37       | 0.02     | <2       | 2        | 5        |
| CC100130           |                                   | <1       | 0.01     | 10       | 0.90     | 521      | <1       | <0.01    | 11       | 600      | 49       | 0.03     | <2       | 1        | 7        |
| CC100131           |                                   | <1       | 0.03     | 10       | 0.65     | 354      | <1       | 0.01     | 26       | 740      | 62       | 0.04     | <2       | <1       | 6        |
| CC100132           |                                   | <1       | 0.02     | 10       | 9.55     | 823      | <1       | 0.02     | 37       | 410      | 193      | 0.01     | <2       | 1        | 73       |
| CC100133           |                                   | <1       | 0.01     | 20       | 7.85     | 1650     | <1       | 0.02     | 13       | 860      | 137      | 0.03     | <2       | <1       | 39       |
| CC100134           |                                   | <1       | 0.03     | 10       | 1.18     | 444      | <1       | 0.02     | 18       | 640      | 56       | 0.04     | <2       | <1       | 15       |
| CC100135           |                                   | <1       | 0.12     | 30       | 0.28     | 54       | 6        | 0.01     | 23       | 760      | 33       | 0.19     | 2        | 1        | 68       |
| CC100136           |                                   | <1       | 0.05     | 20       | 0.37     | 146      | 2        | 0.01     | 12       | 1230     | 580      | 0.09     | <2       | <1       | 16       |
| CC100137           |                                   | <1       | 0.05     | 10       | 0.29     | 149      | 2        | 0.01     | 11       | 1480     | 57       | 0.05     | <2       | <1       | 8        |
| CC100138           |                                   | <1       | 0.05     | 20       | 0.62     | 590      | 1        | 0.02     | 24       | 1570     | 166      | 0.08     | <2       | 3        | 14       |
| CC100139           |                                   | <1       | 0.04     | 30       | 0.66     | 702      | 1        | 0.01     | 27       | 1490     | 195      | 0.06     | <2       | 2        | 14       |
| CC100140           |                                   | <1       | 0.03     | 10       | 1.06     | 619      | <1       | 0.02     | 13       | 750      | 43       | 0.03     | <2       | 1        | 13       |
| CC100141           |                                   | <1       | 0.04     | 20       | 1.20     | 672      | <1       | 0.02     | 19       | 830      | 20       | 0.04     | <2       | 2        | 17       |
| CC100142           |                                   | <1       | 0.03     | 20       | 0.98     | 449      | <1       | 0.01     | 18       | 540      | 46       | 0.03     | <2       | 2        | 8        |
| CC100143           |                                   | <1       | 0.04     | 20       | 3.71     | 428      | <1       | 0.02     | 19       | 860      | 46       | 0.02     | <2       | 2        | 46       |
| CC100144           |                                   | <1       | 0.03     | 20       | 5.06     | 629      | <1       | 0.02     | 31       | 630      | 100      | 0.01     | <2       | 2        | 50       |
| CC100145           |                                   | <1       | 0.03     | 20       | 3.51     | 491      | <1       | 0.02     | 21       | 980      | 67       | 0.02     | <2       | 2        | 41       |
| CC100146           |                                   | <1       | 0.03     | 10       | 0.27     | 254      | <1       | 0.02     | 13       | 1390     | 50       | 0.06     | <2       | <1       | 9        |
| CC100147           |                                   | <1       | 0.02     | 10       | 0.32     | 331      | <1       | 0.01     | 15       | 320      | 91       | <0.01    | <2       | 1        | 3        |
| CC100148           |                                   | <1       | 0.04     | 10       | 0.36     | 240      | 1        | 0.01     | 20       | 630      | 101      | 0.02     | <2       | 1        | 8        |
| CC100149           |                                   | <1       | 0.05     | 20       | 0.36     | 251      | <1       | 0.01     | 16       | 490      | 61       | 0.02     | <2       | 1        | 8        |
| CC100150           |                                   | <1       | 0.08     | 10       | 2.77     | 203      | <1       | 0.02     | 12       | 610      | 20       | 0.04     | <2       | 3        | 16       |
| CC100351           |                                   | <1       | 0.08     | 10       | 3.96     | 244      | <1       | 0.04     | 14       | 620      | 33       | 0.02     | <2       | 3        | 24       |
| CC100352           |                                   | <1       | 0.04     | 10       | 2.30     | 309      | <1       | 0.01     | 11       | 580      | 11       | 0.02     | <2       | 2        | 5        |
| CC100353           |                                   | <1       | 0.05     | 10       | 0.30     | 131      | <1       | 0.01     | 12       | 440      | 20       | 0.02     | <2       | 1        | 4        |
| CC100354           |                                   | <1       | 0.03     | 20       | 6.41     | 586      | <1       | 0.03     | 21       | 790      | 195      | 0.03     | <2       | 1        | 67       |



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Account: MTT

## CERTIFICATE OF ANALYSIS VA10098078

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 |
|--------------------|-----------------------------------|----------|----------|----------|----------|----------|----------|
|                    |                                   | Ti       | Ti       | U        | V        | W        | Zn       |
|                    |                                   | %        | ppm      | ppm      | ppm      | ppm      | ppm      |
|                    |                                   | 0.01     | 10       | 10       | 1        | 10       | 2        |
| CC100115           |                                   | 0.02     | <10      | <10      | 27       | <10      | 216      |
| CC100116           |                                   | 0.01     | <10      | <10      | 19       | <10      | 1010     |
| CC100117           |                                   | 0.03     | <10      | <10      | 47       | <10      | 673      |
| CC100118           |                                   | 0.01     | <10      | <10      | 10       | <10      | 451      |
| CC100119           |                                   | 0.01     | <10      | <10      | 7        | <10      | 562      |
| CC100120           |                                   | 0.01     | <10      | <10      | 14       | <10      | 400      |
| CC100121           |                                   | 0.01     | <10      | <10      | 33       | <10      | 92       |
| CC100122           |                                   | 0.01     | <10      | <10      | 38       | <10      | 81       |
| CC100123           |                                   | <0.01    | <10      | <10      | 10       | <10      | 833      |
| CC100124           |                                   | <0.01    | <10      | <10      | 8        | <10      | 774      |
| CC100125           |                                   | <0.01    | <10      | <10      | 10       | <10      | 1280     |
| CC100126           |                                   | 0.01     | <10      | <10      | 23       | <10      | 795      |
| CC100127           |                                   | 0.01     | <10      | <10      | 14       | <10      | 1220     |
| CC100128           |                                   | 0.01     | <10      | <10      | 13       | <10      | 861      |
| CC100129           |                                   | 0.01     | <10      | <10      | 13       | <10      | 310      |
| CC100130           |                                   | 0.01     | <10      | <10      | 14       | <10      | 653      |
| CC100131           |                                   | 0.02     | <10      | <10      | 30       | <10      | 310      |
| CC100132           |                                   | <0.01    | <10      | <10      | 12       | <10      | 588      |
| CC100133           |                                   | 0.01     | <10      | <10      | 16       | <10      | 269      |
| CC100134           |                                   | 0.01     | <10      | <10      | 19       | <10      | 228      |
| CC100135           |                                   | <0.01    | <10      | <10      | 33       | <10      | 46       |
| CC100136           |                                   | 0.01     | <10      | <10      | 38       | <10      | 61       |
| CC100137           |                                   | <0.01    | <10      | <10      | 46       | <10      | 94       |
| CC100138           |                                   | 0.01     | <10      | <10      | 33       | <10      | 315      |
| CC100139           |                                   | 0.01     | <10      | <10      | 28       | <10      | 554      |
| CC100140           |                                   | 0.02     | <10      | <10      | 24       | <10      | 321      |
| CC100141           |                                   | 0.01     | <10      | <10      | 25       | <10      | 236      |
| CC100142           |                                   | 0.02     | <10      | <10      | 23       | <10      | 660      |
| CC100143           |                                   | 0.02     | <10      | <10      | 27       | <10      | 249      |
| CC100144           |                                   | 0.02     | <10      | <10      | 22       | <10      | 775      |
| CC100145           |                                   | 0.02     | <10      | <10      | 33       | <10      | 367      |
| CC100146           |                                   | <0.01    | <10      | <10      | 18       | <10      | 155      |
| CC100147           |                                   | 0.01     | <10      | <10      | 16       | <10      | 167      |
| CC100148           |                                   | 0.03     | <10      | <10      | 42       | <10      | 168      |
| CC100149           |                                   | 0.03     | <10      | <10      | 41       | <10      | 116      |
| CC100150           |                                   | 0.07     | <10      | <10      | 16       | <10      | 49       |
| CC100351           |                                   | 0.08     | <10      | <10      | 26       | <10      | 52       |
| CC100352           |                                   | 0.06     | <10      | <10      | 22       | <10      | 185      |
| CC100353           |                                   | 0.02     | <10      | <10      | 31       | <10      | 79       |
| CC100354           |                                   | 0.01     | <10      | <10      | 20       | <10      | 645      |



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## CERTIFICATE OF ANALYSIS VA10098078

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI-21    | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 |
|--------------------|-----------------------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                    |                                   | Recvd Wt. | Ag       | Al       | As       | B        | Ba       | Be       | Bi       | Ca       | Cd       | Co       | Cr       | Cu       | Fe       | Ga       |
|                    |                                   | kg        | ppm      | %        | ppm      | ppm      | ppm      | ppm      | ppm      | %        | ppm      | ppm      | ppm      | ppm      | %        | ppm      |
|                    |                                   | 0.02      | 0.2      | 0.01     | 2        | 10       | 10       | 0.5      | 2        | 0.01     | 0.5      | 1        | 1        | 1        | 0.01     | 10       |
| CC100355           |                                   | 0.28      | <0.2     | 0.38     | 27       | <10      | 60       | 0.7      | 2        | 2.42     | 8.4      | 2        | 5        | 13       | 1.26     | <10      |
| CC100356           |                                   | 0.24      | 0.3      | 0.95     | 7        | <10      | 110      | 0.7      | <2       | 3.02     | 4.5      | 4        | 15       | 9        | 1.67     | <10      |
| CC100357           |                                   | 0.22      | <0.2     | 0.85     | 4        | <10      | 100      | 0.6      | <2       | 1.95     | 3.8      | 3        | 12       | 8        | 1.45     | <10      |
| CC100358           |                                   | 0.30      | 0.3      | 0.75     | 7        | <10      | 100      | 0.5      | <2       | 3.98     | 7.4      | 2        | 10       | 12       | 1.14     | <10      |
| CC100359           |                                   | 0.20      | <0.2     | 0.37     | 8        | <10      | 50       | <0.5     | <2       | 0.03     | 0.5      | 1        | 6        | 6        | 0.85     | <10      |
| CC100360           |                                   | 0.18      | 0.4      | 1.33     | 15       | <10      | 90       | 0.5      | <2       | 0.10     | 1.1      | 5        | 19       | 7        | 1.53     | <10      |
| CC100361           |                                   | 0.24      | <0.2     | 0.67     | 4        | <10      | 170      | <0.5     | <2       | 0.06     | <0.5     | 3        | 9        | 9        | 1.30     | <10      |
| CC100362           |                                   | 0.28      | <0.2     | 1.35     | <2       | <10      | 110      | 0.5      | <2       | 0.20     | <0.5     | 3        | 15       | 4        | 1.14     | <10      |
| CC100363           |                                   | 0.18      | <0.2     | 0.48     | 2        | <10      | 90       | <0.5     | <2       | 0.06     | <0.5     | 2        | 4        | 6        | 1.00     | <10      |
| CC100364           |                                   | 0.26      | <0.2     | 0.98     | 6        | <10      | 120      | <0.5     | <2       | 0.11     | <0.5     | 3        | 10       | 11       | 1.38     | <10      |
| CC100365           |                                   | 0.28      | 0.3      | 0.99     | 17       | <10      | 80       | <0.5     | <2       | 0.07     | 0.5      | 3        | 16       | 9        | 1.71     | <10      |
| CC100366           |                                   | 0.24      | 0.3      | 0.80     | 11       | <10      | 90       | <0.5     | <2       | 0.05     | <0.5     | 3        | 13       | 16       | 1.76     | 10       |
| CC100367           |                                   | 0.26      | <0.2     | 1.58     | 23       | <10      | 60       | <0.5     | 3        | 0.06     | 0.8      | 5        | 19       | 21       | 2.04     | <10      |
| CC100368           |                                   | 0.32      | <0.2     | 1.13     | 15       | <10      | 100      | <0.5     | 2        | 0.04     | 0.6      | 4        | 13       | 11       | 1.61     | <10      |
| CC100369           |                                   | 0.32      | 0.2      | 1.38     | 17       | <10      | 110      | 0.5      | 4        | 0.33     | 1.9      | 4        | 17       | 15       | 1.21     | <10      |
| CC100370           |                                   | 0.20      | <0.2     | 0.72     | 20       | <10      | 50       | <0.5     | 2        | 0.04     | 0.6      | 4        | 13       | 11       | 1.75     | <10      |
|                    |                                   |           |          |          |          |          |          |          |          |          |          |          |          |          |          |          |



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Finalized Date: 25-JUL-2010

Account: MTT

## CERTIFICATE OF ANALYSIS VA10098078

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 |
|--------------------|-----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                    |                                   | Hg       | K        | La       | Mg       | Mn       | Mo       | Na       | Ni       | P        | Pb       | S        | Sb       | Sc       | Sr       |
|                    |                                   | ppm      | %        | ppm      | %        | ppm      | ppm      | %        | ppm      | ppm      | ppm      | %        | ppm      | ppm      | ppm      |
|                    |                                   | 1        | 0.01     | 10       | 0.01     | 5        | 1        | 0.01     | 1        | 10       | 2        | 0.01     | 2        | 1        | 1        |
| CC100355           |                                   | <1       | 0.03     | 20       | 1.81     | 495      | <1       | 0.01     | 23       | 320      | 155      | <0.01    | <2       | 2        | 18       |
| CC100356           |                                   | 1        | 0.04     | 20       | 2.24     | 512      | <1       | 0.02     | 18       | 580      | 43       | 0.03     | <2       | 2        | 26       |
| CC100357           |                                   | <1       | 0.03     | 10       | 1.48     | 442      | <1       | 0.01     | 14       | 640      | 25       | 0.03     | <2       | 1        | 19       |
| CC100358           |                                   | <1       | 0.03     | 10       | 3.01     | 599      | <1       | 0.02     | 16       | 650      | 75       | 0.02     | <2       | 1        | 31       |
| CC100359           |                                   | <1       | 0.03     | 10       | 0.17     | 50       | <1       | 0.02     | 4        | 530      | 14       | 0.01     | <2       | <1       | 4        |
| CC100360           |                                   | <1       | 0.08     | 10       | 1.51     | 430      | <1       | 0.01     | 14       | 520      | 17       | <0.01    | <2       | 1        | 5        |
| CC100361           |                                   | <1       | 0.05     | 10       | 0.26     | 144      | <1       | 0.01     | 9        | 590      | 14       | 0.02     | <2       | <1       | 5        |
| CC100362           |                                   | <1       | 0.10     | 10       | 1.84     | 254      | <1       | 0.01     | 9        | 330      | 37       | <0.01    | <2       | 1        | 5        |
| CC100363           |                                   | <1       | 0.05     | 10       | 0.12     | 206      | <1       | 0.02     | 5        | 510      | 6        | 0.02     | <2       | <1       | 5        |
| CC100364           |                                   | <1       | 0.05     | 10       | 0.60     | 149      | <1       | 0.01     | 12       | 450      | 25       | 0.01     | <2       | <1       | 6        |
| CC100365           |                                   | <1       | 0.05     | 10       | 0.81     | 208      | <1       | 0.01     | 11       | 300      | 17       | 0.01     | <2       | 1        | 6        |
| CC100366           |                                   | <1       | 0.06     | 10       | 0.31     | 182      | 1        | 0.01     | 11       | 520      | 23       | 0.03     | <2       | <1       | 6        |
| CC100367           |                                   | <1       | 0.03     | 20       | 1.62     | 206      | 1        | <0.01    | 18       | 490      | 38       | 0.02     | <2       | 1        | 6        |
| CC100368           |                                   | <1       | 0.03     | 10       | 0.59     | 196      | <1       | <0.01    | 7        | 470      | 80       | 0.03     | <2       | <1       | 13       |
| CC100369           |                                   | <1       | 0.03     | 10       | 1.95     | 375      | <1       | <0.01    | 10       | 580      | 58       | 0.02     | 2        | 1        | 8        |
| CC100370           |                                   | <1       | 0.03     | 10       | 0.29     | 124      | 1        | <0.01    | 12       | 400      | 24       | 0.01     | <2       | 1        | 6        |



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## CERTIFICATE OF ANALYSIS VA10098078

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 |
|--------------------|-----------------------------------|----------|----------|----------|----------|----------|----------|
|                    |                                   | Ti       | Ti       | U        | V        | W        | Zn       |
|                    |                                   | %        | ppm      | ppm      | ppm      | ppm      | ppm      |
|                    |                                   | 0.01     | 10       | 10       | 1        | 10       | 2        |
| CC100355           |                                   | <0.01    | <10      | <10      | 7        | <10      | 987      |
| CC100356           |                                   | 0.01     | <10      | <10      | 25       | <10      | 242      |
| CC100357           |                                   | 0.01     | <10      | <10      | 21       | <10      | 196      |
| CC100358           |                                   | 0.01     | <10      | <10      | 16       | <10      | 470      |
| CC100359           |                                   | <0.01    | <10      | <10      | 13       | <10      | 78       |
| CC100360           |                                   | 0.02     | <10      | <10      | 24       | <10      | 188      |
| CC100361           |                                   | 0.01     | <10      | <10      | 23       | <10      | 57       |
| CC100362           |                                   | 0.02     | <10      | <10      | 16       | <10      | 34       |
| CC100363           |                                   | 0.01     | <10      | <10      | 11       | <10      | 40       |
| CC100364           |                                   | 0.02     | <10      | <10      | 20       | <10      | 54       |
| CC100365           |                                   | 0.04     | <10      | <10      | 29       | <10      | 164      |
| CC100366           |                                   | 0.02     | <10      | <10      | 34       | <10      | 92       |
| CC100367           |                                   | 0.03     | <10      | <10      | 30       | <10      | 204      |
| CC100368           |                                   | 0.02     | <10      | <10      | 26       | <10      | 95       |
| CC100369           |                                   | 0.02     | <10      | <10      | 21       | <10      | 267      |
| CC100370           |                                   | 0.02     | <10      | <10      | 31       | <10      | 148      |



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Finalized Date: 20-JUL-2010

Account: MTT

## CERTIFICATE VA10089858

Project: JEFF

P.O. No.:

This report is for 16 Rock samples submitted to our lab in Vancouver, BC, Canada on 3-JUL-2010.

The following have access to data associated with this certificate:

JOAN MARIACHER

BILL WENGZYNOWSKI

## SAMPLE PREPARATION

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

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION                    | INSTRUMENT |
|----------|--------------------------------|------------|
| ME-OG46  | Ore Grade Elements - AquaRegia | ICP-AES    |
| Pb-OG46  | Ore Grade Pb - Aqua Regia      | VARIABLE   |
| Zn-OG46  | Ore Grade Zn - Aqua Regia      | VARIABLE   |
| Pb-VOL70 | Pb by Titration                |            |
| Au-ICP21 | Au 30g FA ICP-AES Finish       | ICP-AES    |
| ME-ICP41 | 35 Element Aqua Regia ICP-AES  | ICP-AES    |
| Ag-OG46  | Ore Grade Ag - Aqua Regia      | VARIABLE   |

To: **STRATEGIC METALS LTD.**  
**ATTN: JOAN MARIACHER**  
**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:

Colin Ramshaw, Vancouver Laboratory Manager



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## CERTIFICATE OF ANALYSIS VA10089858

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI-21    | Au-ICP21 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 |
|--------------------|-----------------------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                    |                                   | Recvd Wt. | Au       | Ag       | Al       | As       | B        | Ba       | Be       | Bi       | Ca       | Cd       | Co       | Cr       | Cu       |
|                    |                                   | kg        | ppm      | ppm      | %        | ppm      | ppm      | ppm      | ppm      | ppm      | %        | ppm      | ppm      | ppm      | ppm      |
|                    |                                   | 0.02      | 0.001    | 0.2      | 0.01     | 2        | 10       | 10       | 0.5      | 2        | 0.01     | 0.5      | 1        | 1        | 1        |
| G285715            |                                   | 1.12      | 0.001    | <0.2     | 0.06     | 176      | <10      | 10       | <0.5     | <2       | 0.14     | <0.5     | 2        | 8        | 5        |
| G285716            |                                   | 0.68      | <0.001   | <0.2     | 0.09     | 4        | <10      | 10       | <0.5     | <2       | 0.01     | <0.5     | 2        | 8        | 5        |
| G285717            |                                   | 0.86      | 0.001    | 0.4      | 0.32     | 19       | <10      | 1510     | 1.0      | 11       | <0.01    | 3.7      | <1       | 6        | 87       |
| G285722            |                                   | 0.84      | 0.015    | 41.3     | 0.11     | 253      | <10      | 670      | <0.5     | 648      | 0.05     | 8.0      | <1       | 6        | 1205     |
| G285723            |                                   | 0.56      | <0.001   | 1.6      | 0.17     | 221      | <10      | 50       | <0.5     | 32       | 0.05     | 14.6     | <1       | 11       | 441      |
| G285724            |                                   | 0.60      | <0.001   | 3.1      | 0.06     | 1400     | <10      | 110      | <0.5     | 1720     | 0.10     | 15.5     | <1       | 9        | 913      |
| G285725            |                                   | 0.72      | 0.028    | 17.7     | 0.06     | 912      | <10      | 340      | <0.5     | 685      | 0.09     | 7.3      | <1       | 27       | 1515     |
| G285726            |                                   | 0.12      | 0.053    | 18.0     | 0.09     | 1370     | <10      | 130      | <0.5     | 954      | 0.14     | 8.0      | <1       | 4        | 706      |
| G285727            |                                   | 0.52      | 0.129    | >100     | 0.04     | 275      | <10      | 10       | <0.5     | 4        | 0.16     | 735      | 1        | 1        | 5400     |
| G285728            |                                   | 0.44      | 0.025    | 45.0     | 0.43     | 471      | <10      | 460      | 0.8      | 35       | 0.19     | 19.1     | 17       | 6        | 907      |
| G285729            |                                   | 0.76      | 0.076    | >100     | 0.12     | 444      | <10      | 30       | <0.5     | 24       | 0.13     | 25.4     | 1        | 1        | 5300     |
| G285730            |                                   | 0.60      | 0.030    | 75.2     | 0.34     | 671      | <10      | 230      | <0.5     | 4        | 0.06     | 28.4     | 6        | 4        | 1010     |
| G285731            |                                   | 0.50      | 0.014    | 35.9     | 0.27     | 271      | <10      | 280      | <0.5     | 6        | 0.08     | 1.0      | 1        | 4        | 208      |
| G285732            |                                   | 0.42      | 0.070    | >100     | 0.05     | 242      | <10      | 10       | <0.5     | 9        | 0.03     | 350      | <1       | 1        | 3090     |
| G285733            |                                   | 0.10      | <0.001   | 9.4      | 1.53     | 14       | <10      | 110      | <0.5     | 7        | 0.07     | 5.9      | 11       | 14       | 98       |
| G285734            |                                   | 0.28      | <0.001   | <0.2     | 0.07     | 5        | <10      | 40       | <0.5     | 2        | 0.02     | <0.5     | 2        | 9        | 14       |



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Account: MTT

## CERTIFICATE OF ANALYSIS VA10089858

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-ICP41  | ME-ICP41 | ME-ICP41  | ME-ICP41  | ME-ICP41  | ME-ICP41 | ME-ICP41 | ME-ICP41  | ME-ICP41 | ME-ICP41  | ME-ICP41 | ME-ICP41  | ME-ICP41 | ME-ICP41 |
|--------------------|-----------------------------------|-----------|----------|-----------|-----------|-----------|----------|----------|-----------|----------|-----------|----------|-----------|----------|----------|
|                    |                                   | Ga        | Hg       | K         | La        | Mg        | Mn       | Mo       | Na        | Ni       | P         | Pb       | S         | Sb       | Sc       |
|                    |                                   | ppm<br>10 | ppm<br>1 | %<br>0.01 | ppm<br>10 | %<br>0.01 | ppm<br>5 | ppm<br>1 | %<br>0.01 | ppm<br>1 | ppm<br>10 | ppm<br>2 | %<br>0.01 | ppm<br>2 | ppm<br>1 |
| G285715            |                                   | <10       | <1       | 0.01      | <10       | 0.07      | 146      | <1       | <0.01     | 3        | 120       | 10       | 0.01      | <2       | <1       |
| G285716            |                                   | <10       | <1       | 0.01      | <10       | 0.03      | 70       | <1       | <0.01     | 4        | 140       | <2       | <0.01     | <2       | <1       |
| G285717            |                                   | <10       | 1        | <0.01     | <10       | 0.13      | 17       | <1       | 0.01      | <1       | 720       | 23       | 0.07      | <2       | 1        |
| G285722            |                                   | <10       | 2        | <0.01     | <10       | 0.16      | 37       | <1       | 0.01      | <1       | 310       | 417      | 0.07      | <2       | <1       |
| G285723            |                                   | <10       | <1       | <0.01     | <10       | 0.39      | 105      | <1       | 0.01      | 2        | 400       | 119      | 0.02      | 4        | <1       |
| G285724            |                                   | <10       | 1        | <0.01     | <10       | 0.11      | 29       | 5        | 0.01      | <1       | 1830      | 275      | 0.04      | 11       | <1       |
| G285725            |                                   | <10       | 2        | <0.01     | <10       | 0.14      | <5       | 3        | 0.01      | <1       | 1640      | 487      | 0.29      | 4        | <1       |
| G285726            |                                   | <10       | 1        | <0.01     | <10       | 0.17      | <5       | 4        | 0.01      | <1       | 1080      | 805      | 0.04      | 10       | <1       |
| G285727            |                                   | <10       | 2        | 0.02      | 40        | 0.04      | 2180     | <1       | 0.01      | 8        | 150       | >10000   | >10.0     | 1400     | 1        |
| G285728            |                                   | <10       | <1       | 0.22      | 20        | 0.03      | 8490     | 3        | 0.02      | 34       | 1330      | >10000   | 0.19      | 23       | 4        |
| G285729            |                                   | <10       | 1        | 0.04      | 30        | 0.01      | 21300    | <1       | 0.01      | 1        | 1050      | >10000   | 3.31      | 160      | 5        |
| G285730            |                                   | <10       | <1       | 0.18      | 10        | 0.02      | 4020     | 3        | 0.01      | 6        | 1350      | >10000   | 0.71      | 60       | 2        |
| G285731            |                                   | <10       | <1       | 0.11      | 10        | 0.01      | 834      | 1        | 0.01      | 2        | 750       | 3700     | 0.18      | 7        | 1        |
| G285732            |                                   | <10       | 1        | 0.02      | 30        | 0.01      | 785      | <1       | <0.01     | 2        | 420       | >10000   | >10.0     | 282      | 1        |
| G285733            |                                   | <10       | <1       | 0.09      | 10        | 0.82      | 1005     | 1        | 0.01      | 46       | 370       | 3270     | 0.12      | 7        | 2        |
| G285734            |                                   | <10       | <1       | 0.03      | <10       | 0.01      | 70       | 1        | 0.01      | 8        | 160       | 274      | 0.01      | <2       | <1       |



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## CERTIFICATE OF ANALYSIS VA10089858

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | Ag-OG46 | Pb-OG46 | Zn-OG46 | Pb-VOL70 |
|--------------------|-----------------------------------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|----------|
|                    |                                   | Th       | Ti       | Ti       | U        | V        | W        | Zn       | Ag      | Pb      | Zn      | Pb       |
|                    |                                   | ppm      | %        | ppm      | ppm      | ppm      | ppm      | ppm      | ppm     | %       | %       | %        |
|                    |                                   | 20       | 0.01     | 10       | 10       | 1        | 10       | 2        | 1       | 0.001   | 0.001   | 0.01     |
| G285715            |                                   | <20      | <0.01    | <10      | <10      | 2        | <10      | 39       |         |         |         |          |
| G285716            |                                   | <20      | <0.01    | <10      | <10      | 2        | <10      | 41       |         |         |         |          |
| G285717            |                                   | <20      | <0.01    | <10      | <10      | 14       | <10      | 2230     |         |         |         |          |
| G285722            |                                   | <20      | <0.01    | <10      | <10      | 5        | <10      | 1070     |         |         |         |          |
| G285723            |                                   | <20      | <0.01    | <10      | <10      | 13       | <10      | 2190     |         |         |         |          |
| G285724            |                                   | <20      | <0.01    | <10      | 10       | 16       | <10      | 2710     |         |         |         |          |
| G285725            |                                   | <20      | <0.01    | <10      | <10      | 20       | <10      | 1345     |         |         |         |          |
| G285726            |                                   | <20      | <0.01    | <10      | <10      | 29       | <10      | 1880     |         |         |         |          |
| G285727            |                                   | <20      | <0.01    | <10      | <10      | 8        | 20       | >10000   | 1230    | >20.0   | 10.95   | 40.37    |
| G285728            |                                   | <20      | <0.01    | <10      | <10      | 17       | <10      | 3630     |         | 1.510   |         |          |
| G285729            |                                   | <20      | <0.01    | <10      | <10      | 16       | <10      | 4950     | 586     | 17.95   |         |          |
| G285730            |                                   | <20      | <0.01    | <10      | <10      | 13       | <10      | 4300     |         | 2.79    |         |          |
| G285731            |                                   | <20      | <0.01    | <10      | <10      | 7        | <10      | 426      |         |         |         |          |
| G285732            |                                   | <20      | <0.01    | <10      | <10      | 5        | 20       | >10000   | 461     | >20.0   | 5.05    | 35.15    |
| G285733            |                                   | <20      | <0.01    | <10      | <10      | 30       | <10      | 1355     |         |         |         |          |
| G285734            |                                   | <20      | <0.01    | <10      | <10      | 4        | <10      | 72       |         |         |         |          |



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## CERTIFICATE VA10089859

Project: JEFF

P.O. No.:

This report is for 37 Soil samples submitted to our lab in Vancouver, BC, Canada on 3-JUL-2010.

The following have access to data associated with this certificate:

JOAN MARIACHER

BILL WENGZYNOWSKI

## SAMPLE PREPARATION

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

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION                   | INSTRUMENT |
|----------|-------------------------------|------------|
| Au-ICP21 | Au 30g FA ICP-AES Finish      | ICP-AES    |
| ME-ICP41 | 35 Element Aqua Regia ICP-AES | ICP-AES    |

To: STRATEGIC METALS LTD.  
ATTN: JOAN MARIACHER  
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:

Colin Ramshaw, Vancouver Laboratory Manager



# ALS Chemex

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Project: JEFF

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Finalized Date: 12-JUL-2010

Account: MTT

## CERTIFICATE OF ANALYSIS VA10089859

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI-21    | Au-ICP21 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 |
|--------------------|-----------------------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                    |                                   | Recvd Wt. | Au       | Ag       | Al       | As       | B        | Ba       | Be       | Bi       | Ca       | Cd       | Co       | Cr       | Cu       | Fe       |
|                    |                                   | kg        | ppm      | ppm      | %        | ppm      | ppm      | ppm      | ppm      | ppm      | %        | ppm      | ppm      | ppm      | ppm      | %        |
|                    |                                   | 0.02      | 0.001    | 0.2      | 0.01     | 2        | 10       | 10       | 0.5      | 2        | 0.01     | 0.5      | 1        | 1        | 1        | 0.01     |
| CC90332            |                                   | 0.08      | <0.001   | 0.4      | 1.20     | 12       | <10      | 100      | 0.5      | <2       | 0.12     | 0.6      | 3        | 20       | 15       | 1.51     |
| CC90333            |                                   | 0.14      | <0.001   | 0.2      | 0.39     | 15       | <10      | 60       | <0.5     | <2       | 0.03     | <0.5     | 3        | 7        | 7        | 1.14     |
| CC90334            |                                   | 0.14      | <0.001   | <0.2     | 0.37     | 3        | <10      | 30       | <0.5     | <2       | 0.03     | <0.5     | 1        | 3        | 4        | 0.36     |
| CC90335            |                                   | 0.12      | NSS      | 0.5      | 0.46     | 36       | <10      | 40       | <0.5     | 2        | 0.03     | <0.5     | 3        | 10       | 20       | 1.63     |
| CC90336            |                                   | 0.12      | NSS      | 0.5      | 1.70     | 16       | <10      | 170      | 1.0      | <2       | 0.33     | 1.2      | 7        | 17       | 11       | 1.94     |
| CC90337            |                                   | 0.14      | 0.004    | <0.2     | 0.53     | 15       | <10      | 80       | <0.5     | <2       | 0.03     | <0.5     | 4        | 15       | 22       | 1.99     |
| CC90338            |                                   | 0.10      | <0.001   | 0.3      | 0.62     | 19       | <10      | 190      | <0.5     | 3        | 0.36     | 0.7      | 3        | 12       | 17       | 1.75     |
| CC90339            |                                   | 0.14      | <0.001   | 0.3      | 0.53     | 11       | <10      | 100      | <0.5     | <2       | 0.08     | 1.0      | 3        | 9        | 12       | 1.17     |
| CC90340            |                                   | 0.14      | <0.001   | 0.2      | 0.61     | 4        | <10      | 50       | <0.5     | <2       | 0.01     | <0.5     | 2        | 8        | 15       | 0.94     |
| CC90341            |                                   | 0.12      | <0.001   | 0.5      | 0.68     | 27       | <10      | 100      | <0.5     | <2       | 0.09     | 0.5      | 4        | 10       | 14       | 1.74     |
| CC90342            |                                   | 0.16      | <0.001   | 0.8      | 0.87     | 41       | <10      | 60       | 0.5      | <2       | 0.02     | <0.5     | 11       | 12       | 31       | 3.89     |
| CC90343            |                                   | 0.14      | <0.001   | 0.4      | 0.56     | 14       | <10      | 120      | <0.5     | <2       | 0.03     | <0.5     | 3        | 9        | 16       | 2.05     |
| CC90344            |                                   | 0.16      | <0.001   | 0.5      | 1.06     | 21       | <10      | 120      | 0.6      | <2       | 0.03     | <0.5     | 10       | 12       | 32       | 3.92     |
| CC90345            |                                   | 0.14      | 0.006    | 1.4      | 0.77     | 155      | <10      | 200      | 0.5      | <2       | 0.22     | 0.9      | 4        | 9        | 36       | 2.52     |
| CC90346            |                                   | 0.12      | 0.008    | 4.8      | 1.40     | 191      | <10      | 710      | 0.8      | <2       | 0.69     | 13.9     | 12       | 10       | 47       | 2.98     |
| CC90347            |                                   | 0.14      | <0.001   | 0.4      | 0.76     | 59       | <10      | 110      | <0.5     | 4        | 0.10     | 1.5      | 3        | 16       | 11       | 1.76     |
| CC90348            |                                   | 0.20      | <0.001   | 0.2      | 0.56     | 22       | <10      | 70       | <0.5     | <2       | 0.03     | <0.5     | 2        | 10       | 9        | 1.16     |
| CC90349            |                                   | 0.16      | <0.001   | <0.2     | 2.59     | 4        | <10      | 100      | 0.6      | <2       | 0.23     | <0.5     | 2        | 26       | 5        | 1.05     |
| CC90350            |                                   | 0.16      | <0.001   | <0.2     | 1.70     | 9        | <10      | 110      | 0.5      | <2       | 0.22     | 0.6      | 3        | 20       | 11       | 1.05     |
| CC90351            |                                   | 0.12      | <0.001   | 0.5      | 1.00     | 5        | <10      | 150      | <0.5     | <2       | 1.07     | 5.5      | 2        | 6        | 11       | 0.62     |
| CC90352            |                                   | 0.14      | <0.001   | 0.8      | 0.66     | 36       | <10      | 130      | <0.5     | <2       | 0.08     | <0.5     | 2        | 7        | 7        | 1.01     |
| CC90353            |                                   | 0.20      | <0.001   | 0.5      | 0.59     | 26       | <10      | 220      | <0.5     | 2        | 0.18     | 0.9      | 7        | 10       | 14       | 1.34     |
| CC90354            |                                   | 0.20      | 0.008    | 5.0      | 0.76     | 190      | <10      | 250      | 0.6      | <2       | 0.35     | 2.6      | 6        | 7        | 37       | 3.23     |
| CC90355            |                                   | 0.20      | <0.001   | 0.3      | 0.64     | 8        | <10      | 70       | <0.5     | <2       | 0.02     | <0.5     | 2        | 6        | 9        | 1.05     |
| CC90356            |                                   | 0.16      | <0.001   | 0.5      | 0.72     | 14       | <10      | 50       | <0.5     | <2       | 0.06     | <0.5     | 3        | 9        | 11       | 1.48     |
| CC90357            |                                   | 0.18      | <0.001   | 0.3      | 0.75     | 10       | <10      | 120      | <0.5     | <2       | 0.04     | <0.5     | 4        | 10       | 12       | 1.50     |
| CC90358            |                                   | 0.16      | 0.001    | 0.7      | 1.11     | 48       | <10      | 350      | 0.8      | <2       | 0.23     | 0.5      | 5        | 9        | 25       | 2.57     |
| CC90410            |                                   | 0.16      | 0.020    | 2.5      | 2.76     | 60       | <10      | 240      | 0.6      | 40       | 1.53     | 9.1      | 8        | 30       | 147      | 5.21     |
| CC90401            |                                   | 0.18      | 0.001    | 0.4      | 1.12     | 10       | <10      | 280      | 0.5      | <2       | 0.73     | 1.1      | 7        | 15       | 33       | 2.14     |
| CC90402            |                                   | 0.20      | 0.001    | 0.5      | 0.81     | 20       | <10      | 1090     | <0.5     | <2       | 2.23     | 2.1      | 6        | 12       | 22       | 1.71     |
| CC90403            |                                   | 0.32      | 0.007    | 1.2      | 0.79     | 10       | <10      | 810      | <0.5     | 3        | 3.54     | 3.4      | 6        | 11       | 32       | 1.69     |
| CC90404            |                                   | 0.24      | 0.001    | 0.2      | 1.17     | 10       | <10      | 220      | 0.5      | <2       | 0.97     | 0.8      | 7        | 17       | 22       | 1.90     |
| CC90405            |                                   | 0.28      | 0.009    | 0.2      | 1.19     | 15       | <10      | 260      | 0.5      | 3        | 0.91     | 1.4      | 5        | 15       | 20       | 1.59     |
| CC90406            |                                   | 0.38      | <0.001   | 0.5      | 0.63     | 22       | <10      | 1880     | <0.5     | <2       | 3.57     | 2.9      | 5        | 9        | 17       | 1.52     |
| CC90407            |                                   | 0.24      | <0.001   | 0.2      | 1.04     | 6        | <10      | 210      | <0.5     | <2       | 0.52     | 0.5      | 4        | 15       | 14       | 1.71     |
| CC90408            |                                   | 0.22      | <0.001   | 0.4      | 1.41     | 34       | <10      | 150      | 0.5      | 5        | 0.37     | 2.2      | 5        | 19       | 16       | 1.57     |
| CC90409            |                                   | 0.18      | 0.001    | 0.3      | 1.49     | 18       | <10      | 1670     | 0.5      | <2       | 1.67     | 1.8      | 5        | 20       | 16       | 1.50     |



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Project: JEFF

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Total # Pages: 2 (A - C)

Plus Appendix Pages

Finalized Date: 12-JUL-2010

Account: MTT

## CERTIFICATE OF ANALYSIS VA10089859

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-ICP41  | ME-ICP41 | ME-ICP41  | ME-ICP41  | ME-ICP41  | ME-ICP41 | ME-ICP41 | ME-ICP41  | ME-ICP41 | ME-ICP41  | ME-ICP41 | ME-ICP41  | ME-ICP41 | ME-ICP41 |
|--------------------|-----------------------------------|-----------|----------|-----------|-----------|-----------|----------|----------|-----------|----------|-----------|----------|-----------|----------|----------|
|                    |                                   | Ga        | Hg       | K         | La        | Mg        | Mn       | Mo       | Na        | Ni       | P         | Pb       | S         | Sb       | Sc       |
|                    |                                   | ppm<br>10 | ppm<br>1 | %<br>0.01 | ppm<br>10 | %<br>0.01 | ppm<br>5 | ppm<br>1 | %<br>0.01 | ppm<br>1 | ppm<br>10 | ppm<br>2 | %<br>0.01 | ppm<br>2 | ppm<br>1 |
| CC90332            |                                   | <10       | <1       | 0.06      | 10        | 0.61      | 119      | 2        | 0.02      | 15       | 1360      | 12       | 0.09      | <2       | <1       |
| CC90333            |                                   | <10       | <1       | 0.04      | 20        | 0.04      | 87       | 3        | 0.01      | 13       | 600       | 8        | 0.03      | <2       | <1       |
| CC90334            |                                   | <10       | <1       | 0.02      | <10       | 0.05      | 17       | <1       | 0.03      | 1        | 660       | 5        | 0.04      | <2       | <1       |
| CC90335            |                                   | <10       | <1       | 0.04      | 20        | 0.17      | 72       | 3        | 0.01      | 12       | 540       | 29       | 0.03      | 2        | <1       |
| CC90336            |                                   | <10       | <1       | 0.04      | 10        | 0.44      | 1830     | 2        | 0.02      | 11       | 3680      | 130      | 0.27      | <2       | <1       |
| CC90337            |                                   | <10       | <1       | 0.06      | 20        | 0.11      | 243      | 3        | 0.01      | 16       | 1190      | 18       | 0.06      | <2       | <1       |
| CC90338            |                                   | <10       | <1       | 0.09      | 20        | 0.33      | 172      | 2        | 0.02      | 13       | 580       | 16       | 0.04      | <2       | 1        |
| CC90339            |                                   | <10       | <1       | 0.05      | 10        | 0.18      | 150      | 2        | 0.02      | 8        | 950       | 20       | 0.06      | <2       | <1       |
| CC90340            |                                   | <10       | <1       | 0.04      | 20        | 0.11      | 63       | 2        | 0.01      | 7        | 730       | 4        | 0.03      | <2       | <1       |
| CC90341            |                                   | 10        | <1       | 0.06      | 10        | 0.07      | 246      | 1        | 0.02      | 11       | 1300      | 14       | 0.05      | <2       | <1       |
| CC90342            |                                   | <10       | <1       | 0.07      | 20        | 0.14      | 357      | 2        | 0.01      | 25       | 1190      | 77       | 0.04      | 2        | 1        |
| CC90343            |                                   | <10       | <1       | 0.06      | 10        | 0.05      | 117      | 2        | 0.01      | 13       | 720       | 17       | 0.03      | <2       | <1       |
| CC90344            |                                   | <10       | <1       | 0.06      | 10        | 0.18      | 261      | 1        | 0.02      | 28       | 890       | 46       | 0.08      | <2       | 1        |
| CC90345            |                                   | <10       | <1       | 0.05      | 20        | 0.20      | 63       | 3        | 0.02      | 22       | 810       | 48       | 0.05      | 5        | 1        |
| CC90346            |                                   | <10       | <1       | 0.07      | 10        | 0.15      | 8250     | 6        | 0.04      | 35       | 1740      | 1140     | 0.21      | 6        | 2        |
| CC90347            |                                   | <10       | <1       | 0.05      | 10        | 0.32      | 296      | 1        | 0.02      | 13       | 570       | 27       | 0.02      | <2       | 1        |
| CC90348            |                                   | <10       | <1       | 0.05      | 10        | 0.16      | 60       | 2        | 0.01      | 8        | 420       | 13       | 0.03      | <2       | <1       |
| CC90349            |                                   | 10        | <1       | 0.05      | 10        | 3.17      | 146      | 1        | 0.01      | 16       | 270       | 13       | 0.02      | <2       | 2        |
| CC90350            |                                   | <10       | <1       | 0.07      | 10        | 1.74      | 133      | 1        | 0.01      | 18       | 440       | 16       | 0.01      | <2       | 2        |
| CC90351            |                                   | <10       | <1       | 0.04      | 10        | 0.21      | 372      | 1        | 0.03      | 6        | 1790      | 13       | 0.19      | <2       | <1       |
| CC90352            |                                   | <10       | <1       | 0.04      | 10        | 0.05      | 278      | 1        | 0.02      | 6        | 1370      | 26       | 0.09      | <2       | <1       |
| CC90353            |                                   | <10       | <1       | 0.06      | 10        | 0.07      | 613      | 1        | 0.01      | 10       | 1850      | 50       | 0.10      | <2       | 1        |
| CC90354            |                                   | <10       | <1       | 0.05      | 20        | 0.18      | 334      | 2        | 0.01      | 22       | 780       | 774      | 0.04      | 3        | 2        |
| CC90355            |                                   | <10       | <1       | 0.04      | 10        | 0.03      | 134      | 1        | 0.02      | 5        | 1050      | 10       | 0.05      | <2       | <1       |
| CC90356            |                                   | <10       | <1       | 0.04      | 10        | 0.09      | 116      | 1        | 0.02      | 9        | 720       | 12       | 0.05      | <2       | <1       |
| CC90357            |                                   | <10       | <1       | 0.05      | 10        | 0.07      | 284      | 1        | 0.02      | 8        | 1250      | 11       | 0.09      | <2       | <1       |
| CC90358            |                                   | <10       | <1       | 0.05      | 20        | 0.09      | 224      | 2        | 0.02      | 24       | 2890      | 20       | 0.15      | <2       | 3        |
| CC90410            |                                   | 10        | <1       | 0.05      | 20        | 2.80      | 226      | <1       | 0.02      | 25       | 500       | 130      | 0.02      | 2        | 5        |
| CC90401            |                                   | <10       | <1       | 0.06      | 20        | 0.49      | 600      | 1        | 0.02      | 28       | 860       | 15       | 0.07      | <2       | 2        |
| CC90402            |                                   | <10       | <1       | 0.06      | 20        | 1.38      | 351      | 2        | 0.03      | 27       | 900       | 31       | 0.09      | <2       | 2        |
| CC90403            |                                   | <10       | <1       | 0.05      | 10        | 2.10      | 468      | 2        | 0.03      | 27       | 750       | 112      | 0.08      | <2       | 2        |
| CC90404            |                                   | <10       | <1       | 0.07      | 10        | 0.45      | 334      | 2        | 0.02      | 26       | 800       | 14       | 0.11      | <2       | 2        |
| CC90405            |                                   | <10       | <1       | 0.05      | 10        | 0.68      | 665      | 2        | 0.02      | 16       | 950       | 11       | 0.10      | <2       | 1        |
| CC90406            |                                   | <10       | <1       | 0.05      | 10        | 2.32      | 381      | 3        | 0.03      | 29       | 850       | 43       | 0.09      | <2       | 1        |
| CC90407            |                                   | <10       | <1       | 0.05      | 20        | 0.51      | 228      | 1        | 0.02      | 20       | 960       | 9        | 0.05      | <2       | 1        |
| CC90408            |                                   | <10       | <1       | 0.04      | 10        | 1.30      | 357      | 1        | 0.02      | 18       | 690       | 94       | 0.04      | <2       | 1        |
| CC90409            |                                   | <10       | <1       | 0.06      | 10        | 2.36      | 331      | 2        | 0.03      | 31       | 950       | 56       | 0.11      | <2       | 2        |



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|--------------------|-----------------------------------|-----------|-----------|-----------|-----------|----------|-----------|----------|
|                    |                                   | Th        | Ti        | Ti        | U         | V        | W         | Zn       |
|                    |                                   | ppm<br>20 | %<br>0.01 | ppm<br>10 | ppm<br>10 | ppm<br>1 | ppm<br>10 | ppm<br>2 |
| CC90332            |                                   | <20       | <0.01     | <10       | <10       | 28       | <10       | 119      |
| CC90333            |                                   | <20       | <0.01     | <10       | <10       | 29       | <10       | 90       |
| CC90334            |                                   | <20       | <0.01     | <10       | <10       | 7        | <10       | 12       |
| CC90335            |                                   | <20       | 0.01      | <10       | <10       | 35       | <10       | 142      |
| CC90336            |                                   | <20       | <0.01     | <10       | <10       | 30       | <10       | 69       |
| CC90337            |                                   | <20       | <0.01     | <10       | <10       | 42       | <10       | 108      |
| CC90338            |                                   | <20       | 0.02      | <10       | <10       | 51       | <10       | 94       |
| CC90339            |                                   | <20       | <0.01     | <10       | <10       | 26       | <10       | 82       |
| CC90340            |                                   | <20       | <0.01     | <10       | <10       | 27       | <10       | 54       |
| CC90341            |                                   | <20       | <0.01     | <10       | <10       | 29       | <10       | 76       |
| CC90342            |                                   | <20       | <0.01     | <10       | <10       | 24       | <10       | 150      |
| CC90343            |                                   | <20       | <0.01     | <10       | <10       | 37       | <10       | 94       |
| CC90344            |                                   | <20       | <0.01     | <10       | <10       | 18       | <10       | 144      |
| CC90345            |                                   | <20       | <0.01     | <10       | <10       | 20       | <10       | 230      |
| CC90346            |                                   | <20       | <0.01     | <10       | <10       | 21       | <10       | 506      |
| CC90347            |                                   | <20       | 0.02      | <10       | <10       | 41       | <10       | 187      |
| CC90348            |                                   | <20       | 0.01      | <10       | <10       | 44       | <10       | 73       |
| CC90349            |                                   | <20       | 0.08      | <10       | <10       | 47       | <10       | 54       |
| CC90350            |                                   | <20       | 0.07      | <10       | <10       | 44       | <10       | 85       |
| CC90351            |                                   | <20       | 0.01      | <10       | <10       | 11       | <10       | 98       |
| CC90352            |                                   | <20       | <0.01     | <10       | <10       | 23       | <10       | 59       |
| CC90353            |                                   | <20       | <0.01     | <10       | <10       | 26       | <10       | 103      |
| CC90354            |                                   | <20       | <0.01     | <10       | <10       | 17       | <10       | 911      |
| CC90355            |                                   | <20       | <0.01     | <10       | <10       | 16       | <10       | 38       |
| CC90356            |                                   | <20       | 0.01      | <10       | <10       | 19       | <10       | 43       |
| CC90357            |                                   | <20       | <0.01     | <10       | <10       | 21       | <10       | 53       |
| CC90358            |                                   | <20       | <0.01     | <10       | <10       | 15       | <10       | 98       |
| CC90410            |                                   | <20       | <0.01     | <10       | <10       | 50       | <10       | 1345     |
| CC90401            |                                   | <20       | 0.01      | <10       | <10       | 21       | <10       | 139      |
| CC90402            |                                   | <20       | 0.01      | <10       | <10       | 20       | <10       | 178      |
| CC90403            |                                   | <20       | 0.01      | <10       | <10       | 18       | <10       | 331      |
| CC90404            |                                   | <20       | 0.01      | <10       | <10       | 21       | <10       | 102      |
| CC90405            |                                   | <20       | 0.02      | <10       | <10       | 24       | <10       | 111      |
| CC90406            |                                   | <20       | 0.01      | <10       | <10       | 19       | <10       | 261      |
| CC90407            |                                   | <20       | 0.01      | <10       | <10       | 28       | <10       | 83       |
| CC90408            |                                   | <20       | 0.03      | <10       | <10       | 26       | <10       | 305      |
| CC90409            |                                   | <20       | 0.02      | <10       | <10       | 28       | <10       | 220      |



**ALS Chemex**

*EXCELLENCE IN ANALYTICAL CHEMISTRY*

ALS Canada Ltd.

2103 Dollarton Hwy

North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: STRATEGIC METALS LTD.

C/O ARCHER, CATHRO & ASSOCIATES (1981)

LIMITED

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Project: JEFF

Page: Appendix 1

Total # Appendix Pages: 1

Finalized Date: 12-JUL-2010

Account: MTT

**CERTIFICATE OF ANALYSIS VA10089859**

| Method      | CERTIFICATE COMMENTS          |
|-------------|-------------------------------|
| ALL METHODS | NSS is non-sufficient sample. |

QL26906



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

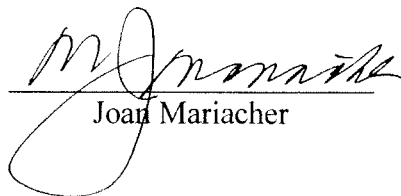
Telephone: 604-688-2568

Fax: 604-688-2578

AFFIDAVIT

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 Jeff 1-20 mineral claims  
on claim sheet 105G/16 is accurate.

  
Joan Mariacher

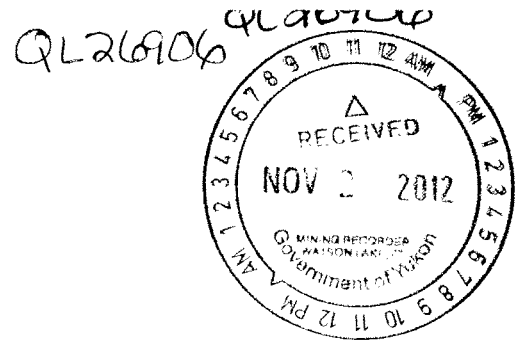
Sworn before me at Vancouver, B.C.

this 26th day of October 2012.

  
Barrister & Solicitor

**IAN J. TALBOT**  
Barrister & Solicitor  
281 East 5th Street  
North Vancouver  
British Columbia  
Canada V7L 1L8

Statement of Expenditures  
Jeff 1-20 Mineral Claims  
October 26, 2012



Labour

S. Gibson - August 2012 – 6 days @ \$425.00/day \$ 2,856.00

Expenses

|                                            |                    |
|--------------------------------------------|--------------------|
| Field room and board – 12 days @ \$180/day | 2,419.20           |
| 15317 Yukon                                | 9,867.38           |
| Kluane Airways                             | 6,457.52           |
| Inconnu Lodge                              | 1,855.38           |
| ALS Chemex                                 | <u>5,186.32</u>    |
|                                            | 25,785.80          |
| Total                                      | <u>\$28,641.80</u> |