

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

Telephone: 604-688-2568

Fax: 604-688-2578

**ASSESSMENT REPORT**

describing

**GEOLOGICAL MAPPING, HAND TRENCHING AND PROSPECTING**

Field work performed on June 6 to 13, 2018

at the

**STAFF PROPERTY**

Staff 7-24	YD111678-YD111704	108	YD111788
32	YD111712	121-134	YD111801-YD111814
34-52	YD111714-YD111732	150	YD111830
64	YD111744	152	YD111832
66	YD111746	154-162	YD111834-YD111842
68-82	YD114748-YD111762	179-184	YD111859-YD111864
95-106	YD111775-YD111786	343-346	YE55201-YE55204

NTS 106D/02, 03, 06 and 07  
Latitude 64°16'N; Longitude 134°54'W

in the

Mayo Mining District  
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

**STRATEGIC METALS LTD.**

By

K. Willms, B.Sc. GIT

April 2019

## **CONTENTS**

INTRODUCTION	1
PROPERTY LOCATION, CLAIM DATA AND ACCESS	1
HISTORY AND PREVIOUS WORK	2
GEOMORPHOLOGY	3
REGIONAL GEOLOGY	3
PROPERTY GEOLOGY	5
MINERALIZATION	6
SOIL GEOCHEMISTRY	7
DISCUSSION AND CONCLUSIONS	8
REFERENCES	10

## **APPENDICES**

I	STATEMENT OF QUALIFICATIONS
II	STATEMENT OF EXPENDITURES
III	CERTIFICATES OF ANALYSIS
IV	ROCK SAMPLE DESCRIPTIONS
V	TRENCH MAPS

## **FIGURES**

<b><u>No.</u></b>	<b><u>Description</u></b>	<b><u>Follows Page</u></b>
1	Property Location	1
2	Claim Locations	1
3	Tectonic Setting	3
4	Regional Geology	3
5	Property Geology	5
6	Central Area Detailed Geology	In pocket
7	South Area Detailed Geology	In pocket
8	2018 Rock Sample Locations	6
9	Gold Rock Geochemistry	6
10	Silver Rock Geochemistry	6
11	Lead Rock Geochemistry	6
12	Zinc Rock Geochemistry	6
13	Gold Soil Geochemistry	7
14	Arsenic Soil Geochemistry	7
15	Lead Soil Geochemistry	7

## **TABLES**

I	Regional Lithological Units	4
II	Threshold and Peak Values for Soil Samples	8

## INTRODUCTION

The Staff property covers three zones of strongly elevated gold geochemistry. It is located in central Yukon, within a district of precious metal enriched, replacement-style, volcanogenic massive sulphide (VMS) and vein occurrences, which include ATAC Resources Ltd.'s Tiger and Ocelot deposits, Glencore Canada Corp.'s Craig deposit, Golden Predator Mining Corp.'s Marg deposit, Blind Creek Resources Ltd.'s Blende deposit, Victoria Gold Corp.'s Dublin Gulch deposit and Alexco Resource Corp.'s Keno Hill deposits. The Staff property is one of several claim blocks comprising Strategic Metals Ltd.'s wholly owned Midas Touch Project.

This report describes geological mapping, hand trenching and prospecting conducted from June 6 to 13, 2018 by Archer, Cathro & Associates (1981) Limited on behalf of Strategic Metals. The author did not participate in the program, but interpreted all results from this work. His Statement of Qualifications is in Appendix I. A Statement of Expenditures is in Appendix II.

## PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Staff property comprises 103 mineral claims, which are located in central Yukon at latitude 64°16' north and longitude 134°54' west on NTS map sheets 106D/02, 03, 06 and 07 (Figure 1). The property covers an area of approximately 2100 ha (21 km<sup>2</sup>). The claims are registered in the name of Archer Cathro, which holds them in trust for Strategic Metals. Details concerning the claims are listed below, and the locations of individual claims are shown on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Staff 7-24	YD111678-YD111704	March 15, 2022
32	YD111712	March 15, 2022
34-52	YD111714-YD111732	March 15, 2022
64	YD111744	March 15, 2022
66	YD111746	March 15, 2022
68-82	YD111748-YD111762	March 15, 2022
95-106	YD111775-YD111786	March 15, 2022
108	YD111788	March 15, 2022
121-134	YD111801-YD111814	March 15, 2022
150	YD111830	March 15, 2022
152	YD111832	March 15, 2022
154-162	YD111834-YD111842	March 15, 2022
179-184	YD111859-YD111864	March 15, 2022
343-346	YE55201-YE55204	March 15, 2022

\* Expiry dates include 2019 work that has been filed for assessment credit, but has not yet been accepted.

The Staff property lies 90 km northeast of the town of Mayo, the nearest supply centre. The closest road access is at McQuesten Lake, 30 km southwest of the property.

Access to and from the property in 2018 was provided by a Hughes 500D helicopter owned by Fireweed Helicopters and operated from ATAC Resources' Rau camp, which is located approximately 17 km east of the Staff property. The crew was mobilized using fixed wing aircraft from Mayo to the Rau airstrip followed by helicopter from the airstrip to the camp.

### **HISTORY AND PREVIOUS WORK**

In 1977, the Geological Survey of Canada (GSC) conducted a low-density stream sediment and water sampling survey on NTS map sheet 106D (Friske et al., 1990). Eleven samples were taken from creeks draining the property. The best sample, collected in the southern part of the property, yielded 6 ppb gold, 66 ppm copper, 148 ppm arsenic and 98 ppm zinc.

In 2008, ATAC followed up a nearby GSC gold anomaly and discovered the Tiger carbonate-hosted gold deposit, located 20 km east of the Staff property (Dumala, 2009). In 2009, ATAC followed up elevated arsenic anomalies that were identified by the GSC in streams located 100 km east of the Tiger deposit and discovered anomalous gold-in-soil results. Since 2010, drilling in this area has outlined several Carlin-type gold deposits, collectively referred to as the Nadaleen Trend.

In November 2009, after ATAC had staked a very large claim block connecting the Tiger deposit to the Nadaleen Trend, Strategic Metals purchased ATAC's regional exploration data base. Starting in 2010, Strategic Metals staked the Staff property and several other properties, which make up the hanging wall stratigraphy of ATAC's discoveries, looking for leakage anomalies that could indicate buried deposits.

In 2011, Strategic Metals conducted reconnaissance-scale soil geochemical sampling, prospecting and geological mapping on the Staff property. Encouraging results from stream sediment and soil samples outlined three areas of interest for gold (Zones A, B and C) and a separate zone of interest for zinc and copper (Zone D) (Mitchell, 2012).

In 2012, Strategic Metals conducted a three-day exploration program involving prospecting and grid soil sampling around Zone A and B, in the east-central and southern portions of the property, respectively. This program successfully expanded the size and tenor of the two anomalous zones (Morton and Drechsler, 2013).

In 2013, Strategic Metals performed another eleven days of detailed geological mapping, prospecting and geochemical sampling on the property. This work expanded the size of Zone A, and discovered gold-enriched vein float (Morton, 2014).

In 2014, Strategic Metals carried out more prospecting and soil geochemistry. Grid soil sampling was done near Zones A and C, and in the west-central part of the property (Zone E) (Morton, 2015).

In 2015, Strategic Metals conducted more soil geochemical sampling on the property. A total of 184 samples were collected around Zones A and D. Results from this program were generally low, and did not expand either zone (Mitchell, 2016).

Following work conducted in 2018, claims covering Zones C and D were allowed to lapse.

Results from all of the work performed by Strategic Metals are further described in the appropriate sections of this report.

### **GEOMORPHOLOGY**

The Staff property is situated on the southwestern flank of the Selwyn Mountains. Creeks draining the property flow northeasterly and southwesterly into the Beaver River, which connects to the Pacific Ocean via the Stewart and Yukon rivers.

The northern part of the property covers a series of isolated peaks, while the central and southern parts encompass northeasterly trending ridges and valleys. Elevations on the property range from about 915 m on the valley floors to 1800 m on the highest ridge. Treeline is at approximately 1400 m and about 25% of the property lies above that elevation. Grass-, moss-, and talus-covered slopes and cliffs characterize alpine terrain. Sub-alpine areas are typically devoid of outcrop and are well vegetated with dwarf birch, wild blueberry, hellebore and stands of stunted black spruce and willow. Valley bottoms are densely treed with mature spruce.

The climate in the vicinity of the Staff property is typical of northern continental regions with long, cold winters, truncated fall and spring seasons and short, mild summers. Although summers are relatively mild, snowfall can occur in any month. The property is mostly snow free from mid-June to late September.

### **REGIONAL GEOLOGY**

The Staff property straddles the Dawson Thrust Fault, a crustal break that probably formed the northern edge of Selwyn Basin in Cambrian time and later reactivated as a north-directed thrust (Pyle et al., 2007). The Dawson Thrust Fault juxtaposes rocks of Selwyn Basin to the south against Mackenzie Platform to the north (Figure 3). Selwyn Basin stratigraphy consists of regionally metamorphosed, basinal sediments of Neoproterozoic to Paleozoic age. Mackenzie Platform stratigraphy comprises dominantly shallow water carbonate and clastic sediments that were deposited from Mid-Proterozoic through Paleozoic times. Both packages of sediments were deposited on the western margin of ancestral North America.

In the early 1990s, the Geological Survey of Canada performed geological mapping in the vicinity of the Staff property at 1:250,000 scale (Wheeler and McFeely, 1991). The Yukon Geological Survey has incorporated this work into a Yukon-wide geological compilation and updated the lithological unit names in the Staff property area (Yukon Geological Survey, 2013).

Stratigraphy in the area of the property comprises a southeasterly trending package of clastic sedimentary rocks with lesser volcanic and carbonate units (Figure 4). This package consists of Upper Proterozoic to Lower Cambrian Hyland Group, which is juxtaposed by the Dawson Thrust Fault against Upper Cambrian to Lower Devonian Bouvette Formation and Mississippian Keno Hill Quartzite to the northeast. Bedrock is locally blanketed by unconsolidated Quaternary

sediments. The lithological units that occur in the immediate vicinity of the Staff property are described in Table I.

**Table I – Lithological Units (after Yukon Geological Survey, 2015)**

Map Suite	Age	Map Unit	Description
Quaternary	Quaternary	Q	Unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; silt, sand, and gravel; volcanic ash; soil and organic deposits.
Galena Suite	Triassic	TrG	Massive, medium-grained hornblende diorite and gabbro sills; massive chloritic and locally serpentized greenstone (diorite, gabbro and altered equivalents) sills; minor occurrences of possible Mid- to Late Paleozoic age.
Tsuchu Group (Keno Hill FM)	Mississippian	CT2	Massive to thick bedded quartz arenite; thin to medium bedded quartz arenite interstratified with black shale or carbonaceous phyllite; local scour surfaces and shale intraclasts; locally foliated and lineated.
Marmot Group	Cambrian to Silurian	CSM8	Grey- to dark grey weathering, dark volcanic rocks, many partly serpentized, brown-weathering grey-green limy tuff and argillite, and thin-bedded brown limestone.
Bouvette Formation	Upper Cambrian to Lower Devonian	CDB1	Grey and buff weathering; medium to thick bedded dolomite and limestone; white to light grey weathering, massive dolomite; minor platy black argillaceous limestone, limestone conglomerate, and black shale; and massive bluish-grey weathering dolostone.
Hyland Group	Upper Proterozoic to Lower Cambrian	PCH6	Consists upwards of coarse turbiditic clastics (1), limestone (2) and fine clastics typified by maroon and green shale (3); may include younger (4) units; includes scattered mafic volcanic rocks (5).
		PCH7	Grey weathering, dark grey to grey white, thin to thick bedded, very fine crystalline limestone, locally sandy; calc-silicate and marble.
Hart River	Middle Proterozoic	mPH2	Resistant dark weathering diorite and gabbro sills and dikes.
Gillespie Lake Group	Lower Proterozoic	IPG	Dolostone and silty dolostone, locally stromatolitic, locally with chert nodules and sparry karst infillings, interbedded with lesser black siltstone and shale, laminated mudstone, and quartzose sandstone; locale dolomite boulder conglomerate.
Quartet Group	Lower	IPQ	Black weathering shale, finely laminated dark grey weathering siltstone, and thin to thickly interbedded

	Proterozoic		planar to cross laminated light grey weathering siltstone and fine grained sandstone; minor interbeds of orange weather dolostone in upper part.
--	-------------	--	--

### **PROPERTY GEOLOGY**

In 2011, Strategic Metals conducted cursory geological mapping across the entire property (Figure 5). Detailed mapping of the central part of the property was completed at 1:2500 scale in 2013. In 2014, Strategic Metals performed geological mapping in a southern portion of the property, at the same scale. In 2018, geological mapping at 1:10,000 scale was completed in the central part of the property, at Zone A. Detailed geological maps of the central and southern parts of the property are shown on Figures 6 and 7, respectively. Geological features mapped by Strategic Metals are discussed below.

The property is cut by the Dawson Thrust Fault, which separates Hyland Group stratigraphy to the southwest from younger rocks to the northeast.

Three sub-units are identified within Hyland Group rocks – Algae Lake Formation carbonates (PCHa), Yusezyu Formation siliciclastics (PCHy) and Hyland Group volcanics (PCHv). Lenses of Algae Lake Formation are surrounded by grits and shales that are interpreted to belong to Yusezyu Formation. Algae Lake Formation is grey, thinly bedded limestone to silty limestone, while Yusezyu Formation comprises tan to light grey, medium-grained arenite and arkose sandstone, rare quartz-rich pebble conglomerate and abundant dark green and dark purple siltstone and shale. The southwestern corner of the claim block hosts a package of volcanics and volcanoclastic rocks that are assigned to Hyland Group. This unit consists of green, fine to medium grained volcanoclastic sandstone and laminated siltstone interlayered with lesser, fine to medium grained basalt. Hyland Group volcanics are bound to the north by a steeply dipping fault that strikes west-northwesterly. This fault separates the volcanic rocks from Algae Lake and Yusezyu formations.

A quartz-rich sedimentary package that has been mapped regionally as Keno Hill Formation (Tsichu Group) (CT2) lies immediately northeast of the Dawson Thrust Fault. Within the property, this unit is broadly typified by fine to medium grained arenite, thin bedded sandstone, siltstone, and shale. Locally, this unit has been divided into two sub-units – MK1 and MK2. MK1 comprises tan to brown weathering, dark grey, siliceous and variably carbonaceous, thin bedded shale, slate and phyllite. MK2 consists of light grey resistive- and blocky-weathering, dark grey, fine to medium grained, quartz arenite to siltstone.

Further to the northeast, deformed, calcareous, green-grey volcanic breccia (MKv?) is interbedded with a dark grey siltstone and shale (MKs?) that may correlate with MK1. These horizons have been interpreted as sub-units of Keno Hill Quartzite, which includes minor volcanic rocks elsewhere in the region.

Bedding and foliation on the property generally strikes southeasterly and northwesterly, and dips steeply to the southwest and northeast. Stratigraphy has been deformed into tight and open folds



with shallow to moderate southeasterly plunging hinges. Small parasitic folds are present that commonly form S- and Z-type folds relative to larger scale deformation. Folding is best observed in Hyland Group carbonates where fold hinges are evident in ridge-top outcrops. Within Keno Hill Quartzite folding is inferred from periodic changes in the dip of bedding and symmetry of units across strike. Quartz and quartz-carbonate veins, as well as gullies and linears observed along ridge-tops, are aligned sub-parallel to bedding and foliation. Veins observed within Keno Hill Quartzite are typically boudinaged and discontinuous.

### **MINERALIZATION AND HAND TRENCHING**

In 2011, Strategic Metals collected 28 rock samples in conjunction with geological mapping to characterize a variety of rock types across the Staff property (Mitchell, 2012). In 2012, Strategic Metals performed limited prospecting and collected a total of 17 rock samples within two zones of anomalous soil geochemistry. Most pre-2013 rock samples from the property yielded background to weakly elevated values for the elements of interest. The highest arsenic value of 3460 ppm was obtained from a sample of rusty-grey weathering, limonitic quartz vein collected as float in the east-central portion of the property, but this sample returned a low gold value (Morton and Drechsler, 2013).

In 2013, Strategic Metals collected another 58 rock samples from the property. Most of these samples were rusty weathering rocks and limonitic quartz vein material found in talus, some of which contains residual grains of pyrite, galena, arsenopyrite and/or chalcopyrite. Several rock samples yielded elevated gold values, with the best sample grading 1.295 g/t. Values for other metals were generally low and showed little correlation with gold (Morton, 2014).

In 2014, Strategic Metals took 59 more rock samples from the property. The majority of these samples consisted of limonitic and brecciated quartz vein, found as float and in outcrop. A few samples contained medium to coarse grained sphalerite with trace pyrite and chalcopyrite, the best of which returned 3.52% zinc. Values for gold were generally low (Morton, 2015).

No rock samples were collected in 2015.

In 2018, Strategic Metals completed hand trenching and prospecting in areas with high gold-in-soil values in the central part of the property, around Zone A. A total of 22 rock and 18 chip samples were collected. Rock sample and trench locations are shown on Figure 8. Thematic results for gold, silver, lead and zinc are shown on Figures 9 to 12, respectively.

The 2018 rock sample sites were marked with orange flagging tape labelled with their respective sample number. The location of each sample was determined using a hand-held GPS unit. All chip samples collected from hand trenches were marked with orange flagging tape and recorded with a GPS before the trenches were re-filled. Sample preparation for 2018 rock samples was carried out by ALS Minerals in Whitehorse and then sent to North Vancouver, where the samples were 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 analysed for gold using fire assay followed by inductively coupled plasma-atomic emission spectroscopy analysis (ME-ICP41). For all of the samples, an additional 30 g charge was further analyzed for gold by

fire assay with inductively coupled plasma and atomic emission spectroscopy finish (Au-ICP21). Certificates of Analysis for 2018 rock samples and Rock Sample Descriptions can be found in Appendix III and Appendix IV, respectively.

A total of six hand trenches were dug in the area of Zone A, exposing grey to green, carbonaceous to phyllitic shale with minor quartz veining and limonitic to hematitic fractures. The best trench sample was a two metre chip sample across siliceous phyllitic shale (18TR-6), which returned 0.763 g/t gold. All other trench and rock samples from this program returned low values for elements of interest.

### **SOIL GEOCHEMISTRY**

In 2011, Strategic Metals collected 104 stream sediment and 484 contour samples from the property. This work identified three main areas of interest for gold – Zones A to C – as defined by stream sediment values ranging from 134 to 164 ppb and soil values between 20 and 101 ppb. Stream sediment sampling also detected a fourth zone that is principally anomalous for zinc and copper (Zone D) in a drainage to the northwest of the gold-bearing zones (Mitchell, 2012).

In 2012, a total of 551 soil samples were taken from two grids encompassing Zones A and B. The 2012 sampling expanded the size of the two anomalous zones and identified higher gold (597 ppb), copper (849 ppm), arsenic (358 ppm) and silver (5.32 ppm) values than were obtained from previous work (Morton and Drechsler, 2013).

In 2013, Strategic Metals collected another 345 soil samples, chiefly to extend the Zone A soil grid to the southeast. This work successfully expanded the size of Zone A, but geochemical values did not exceed the previous maximums for any of the metals. Anomalous results were also returned from Zone D, located 2.5 km northwest of Zone A along the Dawson Thrust Fault (Morton, 2014).

In 2014, an additional 373 grid soil samples were collected to improve coverage along the Dawson Thrust Fault near Zones A and B, and in the headwaters of a drainage that had previously produced strongly elevated gold-in-silt values. A lead and zinc soil anomaly (Zone E), located between Zones A and C, was identified during this program (Morton, 2015).

In 2015, a total of 184 contour soil samples were collected at 50 m intervals along contour lines located south of Zone A, and within and around Zone D. Results from this program identified low values for most elements of interest, soil sampling failed to explain anomalous silt results at Zone D.

Thematic results from all programs for gold, arsenic and lead are plotted on Figures 13 to 15, respectively. Thresholds and peak values are shown on Table II.

**Table II – Threshold and Peak Values for Soil Samples**

<b>Element</b>	<b>Weak</b>	<b>Moderate</b>	<b>Strong</b>	<b>Very Strong</b>	<b>Historical Peak Values</b>
Gold (ppb)	$\geq 20 < 50$	$\geq 50 < 100$	$\geq 100 < 200$	$\geq 200$	597
Copper (ppm)	$\geq 100 < 200$	$\geq 200 < 500$	$\geq 500$	-	849
Arsenic (ppm)	$\geq 50 < 100$	$\geq 100 < 200$	$\geq 200 < 500$	$\geq 500$	527
Silver (ppm)	$\geq 2 < 5$	$\geq 5$	-	-	5.32
Lead (ppm)	$\geq 50 < 100$	$\geq 100 < 200$	$\geq 200 < 500$	$\geq 500$	1120
Zinc (ppm)	$\geq 200 < 500$	$\geq 500 < 1000$	$\geq 1000 < 2000$	$\geq 2000$	3860

Three zones of interest have been identified by soil sampling on the current Staff property. Descriptions of these zones are as follows:

**Zone A** comprises three relatively linear, sub-parallel, southeasterly trending clusters with moderate to very strong gold-in-soil and moderate to strong copper-in-soil support (Clusters I, II, and III). Cluster I also has moderate to strong arsenic and silver signatures and weak to moderate zinc and lead response. The peak values for gold, copper and silver were obtained within Zone A. The clusters of anomalous values cross a northeasterly trending ridge and an adjacent steep north-facing slope. Geochemical response is subdued on the south side of the ridge where the slope is shallower and soil cover is thicker. In 2015, soil samples were collected adjacent to this zone, on the south side of the Dawson Thrust Fault. The 2015 samples returned subdued results for all elements of interest. All of the anomalous values within Zone A are underlain by clastic rocks of Keno Hill Quartzite on the north side of the Dawson Thrust Fault.

**Zone B** lies 4000 m southeast of Zone A. It comprises several moderately to very strongly anomalous gold values that form a southwesterly trending band in the immediate hanging wall of the Dawson Thrust Fault. The anomaly is approximately 400 by 1300 m and is supported by weak, sporadic, moderately elevated copper, arsenic and silver values. Scattered, strong to very strong gold-in-soil values from samples taken to the northwest along the surface trace of the Dawson Thrust Fault, may be an extension of Zone B.

**Zone E** lies about 1000 m west of Zone A, and is located in the immediate footwall of the Dawson Thrust Fault. The anomaly covers moderately to very strongly anomalous lead values plus a very strongly anomalous zinc point value. In 2014, soil sampling within this zone returned the property's strongest response for lead (1120 ppm) and zinc (3860 ppm). A single strong gold-in-soil value is located at the northern edge of the anomalous area.

## **DISCUSSION AND CONCLUSIONS**

The Staff property is located in a district of advanced exploration projects, which include the nearby Tiger carbonate replacement-style gold deposit, Dublin Gulch stockwork gold vein deposit, and Keno Hill silver-bearing vein deposits.

Hand trenching and prospecting conducted in 2018 returned low values for all elements of interest, except for a single chip sample which returned 0.764 g/t gold over 2 m. The program did not adequately explain the anomalous gold-in-soil values in the area of Zone A. The presence of deep snow on most hills and ridges limited the effectiveness of follow up hand trenching and prospecting. Previous prospecting at Zones A and B have also failed to adequately explain the elevated gold-in-soil responses.

Future work on the property is warranted. Some areas of the property with strong soil geochemical response have not been systematically prospected, and no prospecting has been performed at Zone E. Additional hand trenching should be conducted uphill of strongly anomalous soil sites to target mineralized structures that may have weathered recessively. This work should be conducted in the mid to late summer, after the snowpack has melted in alpine areas.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



K. Willms, B.Sc. GIT

## REFERENCES

- Colpron, M. and Nelson, J. L.  
 2011 A Digital atlas of terranes for the Northern Cordillera; Yukon Geological Survey and BC Geology Survey, BCGS GeoFile 2011-11 ([http://www.geology.gov.yk.ca/pdf/CanCord\\_terranes\\_2011.pdf](http://www.geology.gov.yk.ca/pdf/CanCord_terranes_2011.pdf)).
- Dumala, M.  
 2009 Assessment report describing geological mapping, prospecting, soil geochemistry, diamond drilling and geophysical surveys at the Rau property; prepared for ATAC Resources Ltd. by Archer, Cathro & Associates (1981) Limited.
- Friske, P.W.B., Hornbrook, E.H.W., Lynch, J.J., McCurdy, M.W., Gross, H., Galletta, A.C., Durham, C.C.  
 1990 National Geochemical Reconnaissance stream sediment and water geochemical data, east central Yukon (NTS 106D; parts of 106C, 106E and 106F); Geological Survey of Canada, Open File 2175.
- Mitchell, A.  
 2012 Assessment report describing prospecting, mapping, and geochemical sampling on the Staff property, Mayo Mining District; report prepared for Strategic Metals Ltd. by Archer, Cathro & Associates (1981) Limited.
- 2016 Assessment report describing soil geochemical sampling on the Staff property, Mayo Mining District; report prepared for Strategic Metals Ltd. by Archer, Cathro & Associates (1981) Limited.
- Morton, J.  
 2015 Assessment report describing prospecting and geochemical sampling, Mayo Mining District; report prepared for Strategic Metals Ltd. by Archer, Cathro & Associates (1981) Limited.
- Morton, J.  
 2014 Assessment report describing geological mapping, prospecting and geochemical sampling, Mayo Mining District; report prepared for Strategic Metals Ltd. by Archer, Cathro & Associates (1981) Limited.
- Morton, J. and Drechsler, S.  
 2013 Assessment report describing geochemical sampling and prospecting at the Staff property, Mayo Mining District; report prepared for Strategic Metals Ltd. by Archer, Cathro & Associates (1981) Limited.

Pyle, L., Roots, C., Allen, T., Fraser, T., Bond, J., Jones, A. and Gal, L.

2007 Roadside Geology of the Dempster Highway, Northwest Territories and Yukon: A traveller's guide to the Geology of Canada's most north-western road; Yukon Geological Survey; Department of Energy, Mines and Resources, YGS Open File 2007-10 ([http://www.geology.gov.yk.ca/pdf/of2007\\_10.pdf](http://www.geology.gov.yk.ca/pdf/of2007_10.pdf)).

Wheeler, J.O. and McFeely, P.

1991 Bedrock geology (including structure) and mineral occurrences are briefly described and taken largely from the referenced, most recent 1:250,000 geological map with additional contributions from Wheeler and McFeely (1991), and Yukon MINFILE (1993).

Yukon Geological Survey

2013 MapMaker Online; available at: <http://mapservices.gov.yk.ca/YGS/WebMap.aspx>

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

## **STATEMENT OF QUALIFICATIONS**

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

1. I graduated from the University of British Columbia in 2016 with a B.Sc in Earth and Environmental Sciences.
2. From 2015 to present, I have been actively engaged in mineral exploration in the Yukon Territory, British Columbia, Nevada and Mexico.
3. I am registered and active as a geologist in training (GIT) with the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC).
4. I have interpreted all data resulting from work described in this report.



K. Willms, B.Sc., GIT.



**APPENDIX II**  
**STATEMENT OF EXPENDITURES**

**Statement of Expenditures  
Staff Property  
January 18, 2019**

**Labour**

Employee	Job Description	Hours	Time Period	Rate/hr	Total
Doug Eaton	Sr. Geologist	3	March 16 to January 15	\$ 120.00	\$ 360.00
Heather Burrell	Sr. Geologist	14	March 16 to January 15	\$ 111.00	\$ 1,554.00
Jack Morton	Sr. Geologist	2	March 16 to January 15	\$ 96.00	\$ 192.00
Jessie Thompson Gladish	Field Labour	64	March 16 to January 15	\$ 64.00	\$ 4,096.00
Kirein McClenahan	Field Labour	64	March 16 to January 15	\$ 49.00	\$ 3,136.00
Liz Smith	Logistics & Field Support	10	March 16 to January 15	\$ 83.00	\$ 830.00
Lorna Corbett	Logistics & Office	14	March 16 to January 15	\$ 83.00	\$ 1,162.00
Scott Newman	Office & Mapping	15	March 16 to January 15	\$ 69.00	\$ 1,035.00
Steve Israel	Sr. Geologist	94	March 16 to January 15	\$ 69.00	\$ 6,486.00
Thomas Rozsypaleck	Field Labour	56	March 16 to January 15	\$ 47.00	\$ 2,632.00
Virgina Cobbett	Support	3	March 16 to January 15	\$ 69.00	\$ 207.00
Wayne Schneider	Logistics & Support	2	March 16 to January 15	\$ 98.00	\$ 196.00
					\$ 21,886.00

**Expenses**

Field room and board	28 mandays	\$ 100.00 /per day	\$ 2,800.00
Whitehorse room and board	4 mandays	\$ 180.00 / per day	\$ 720.00
Fireweed Helicopters, as attached			\$ 5,416.20
Alkan Air, as attached			\$ 1,430.00
ALS Chemex, as attached			\$ 1,238.95
			<u>\$ 11,605.15</u>

Total 2018 expenditures \$ 33,491.15

Cost per sample \$ 858.75

**APPENDIX III**  
**CERTIFICATES OF ANALYSIS**



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

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

Page: 1  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 28-JUN-2018  
 Account: MTT

**CERTIFICATE WH18141288**

Project: STAFF

This report is for 40 Rock samples submitted to our lab in Whitehorse, YT, Canada on 15-JUN-2018.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	ANDREW CARNE	JACK MORTON
---------------------------------	--------------	-------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-QC	Crushing QC Test
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
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

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.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

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

Page: 2 - A  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 28-JUN-2018  
 Account: MTT

Project: STAFF

**CERTIFICATE OF ANALYSIS WH18141288**

Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
W591351		0.36	<0.001	0.13	0.39	6.5	<0.02	<10	10	0.06	0.79	0.07	0.02	8.28	5.9	12
W591352		0.21	0.027	0.23	0.14	119.0	<0.02	<10	120	0.12	0.08	0.09	0.85	29.5	16.5	9
W591353		0.36	<0.001	0.05	0.09	3.6	<0.02	<10	60	0.08	0.05	0.13	0.05	4.51	4.8	11
W591354		0.45	0.002	0.19	0.18	60.0	<0.02	<10	190	0.13	0.38	0.18	0.42	22.7	12.6	3
W591355		0.41	0.001	0.18	0.20	410	<0.02	<10	200	0.17	0.39	0.46	0.14	84.3	25.0	3
W591356		0.96	<0.001	0.07	0.17	11.9	<0.02	<10	110	0.08	0.03	0.02	0.08	17.90	3.3	13
W591357		0.60	0.002	0.18	0.37	3.1	<0.02	<10	340	0.22	0.13	0.02	0.10	42.0	5.6	5
W591358		0.66	<0.001	0.21	0.07	3.0	<0.02	<10	60	<0.05	0.28	0.02	0.10	3.07	4.3	10
W591359		0.99	0.005	0.25	0.08	6.2	<0.02	<10	80	<0.05	0.19	0.08	0.11	4.86	3.0	13
W591901		0.53	<0.001	0.11	0.03	6.4	<0.02	<10	30	<0.05	0.05	<0.01	0.11	2.79	2.5	10
W591902		0.73	<0.001	0.01	0.04	4.9	<0.02	<10	120	<0.05	0.02	8.66	0.04	1.64	2.8	4
W591903		2.53	<0.001	0.01	1.82	27.7	<0.02	<10	70	0.36	0.27	0.07	0.02	78.6	25.3	20
W591904		2.40	<0.001	0.02	1.70	31.8	<0.02	<10	60	0.32	0.52	0.09	0.02	76.0	17.7	21
W591905		2.36	<0.001	0.01	1.75	30.5	<0.02	<10	60	0.32	0.31	0.04	0.03	79.8	15.4	18
W591906		0.38	<0.001	0.03	0.36	9.2	<0.02	<10	30	0.10	1.07	0.07	0.03	16.45	14.5	8
W591907		0.48	<0.001	0.06	0.13	8.6	<0.02	<10	60	0.06	0.05	0.01	0.01	8.35	2.1	12
W591908		0.68	<0.001	0.09	0.03	1.0	<0.02	<10	20	<0.05	0.20	0.01	0.94	0.92	4.2	11
W591909		0.73	0.001	0.15	1.12	5.1	<0.02	<10	240	0.26	0.23	0.04	0.79	43.0	33.1	13
W591910		0.95	<0.001	0.10	0.39	11.2	<0.02	<10	200	0.15	0.10	0.01	0.42	38.2	19.6	4
W591911		1.36	<0.001	0.13	0.27	9.4	<0.02	<10	210	0.11	0.09	0.02	0.48	28.3	12.4	3
W591912		1.63	0.001	0.13	0.81	2.3	<0.02	<10	220	0.20	0.15	0.03	0.19	31.6	7.8	14
W591913		0.36	0.008	0.07	0.32	3.2	<0.02	<10	50	0.09	0.11	0.03	0.24	5.70	4.9	9
W591914		0.41	0.001	0.11	0.25	2.3	<0.02	<10	60	<0.05	0.18	0.01	0.08	7.90	1.5	14
W591915		0.36	<0.001	0.35	0.11	1.6	<0.02	<10	40	<0.05	0.10	<0.01	0.01	5.56	0.6	11
W591916		0.31	<0.001	0.04	0.04	8.6	<0.02	<10	30	<0.05	0.01	<0.01	0.03	2.30	0.5	9
W591917		1.65	0.052	2.01	0.31	56.1	<0.02	<10	340	0.14	0.22	<0.01	0.09	37.5	2.7	11
W591918		2.14	0.073	2.27	0.32	65.2	<0.02	<10	400	0.16	0.24	<0.01	0.12	36.6	2.8	11
W591919		3.20	0.085	1.76	0.29	52.1	<0.02	<10	300	0.13	0.24	<0.01	0.09	39.2	2.1	11
W591920		3.07	0.095	1.51	0.24	53.6	<0.02	<10	210	0.12	0.23	<0.01	0.10	39.1	2.1	10
W591921		3.37	0.051	1.45	0.26	60.9	<0.02	<10	420	0.14	0.26	<0.01	0.13	28.7	5.0	11
W591922		3.38	0.036	1.17	0.25	64.1	<0.02	<10	540	0.15	0.28	<0.01	0.11	26.6	5.1	10
W591923		3.20	0.047	1.18	0.25	63.8	<0.02	<10	290	0.16	0.26	<0.01	0.15	29.1	5.9	11
W591924		2.29	0.008	0.50	0.31	52.1	<0.02	<10	250	0.19	0.19	<0.01	0.16	36.9	5.6	8
W591925		2.24	0.012	0.69	0.29	44.4	<0.02	<10	280	0.19	0.23	<0.01	0.16	31.5	4.8	9
W591926		0.38	0.004	0.25	0.05	2.9	<0.02	<10	30	<0.05	0.19	<0.01	0.03	3.14	1.9	14
W591927		0.50	<0.001	0.04	0.03	1.0	<0.02	<10	10	<0.05	<0.01	<0.01	0.02	0.30	0.2	10
W591928		0.74	0.049	0.14	0.77	15.4	<0.02	<10	260	0.20	0.19	0.23	0.21	51.1	7.8	12
W591929		0.80	0.763	0.31	0.97	25.5	0.25	<10	300	0.23	0.44	0.34	0.23	58.7	11.8	11
W591930		0.32	<0.001	0.04	0.05	0.7	<0.02	<10	20	<0.05	0.02	0.15	0.81	1.83	0.9	11
W591931		0.36	<0.001	0.06	0.04	2.4	<0.02	<10	30	<0.05	0.06	0.18	0.35	2.46	2.3	9



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

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

Page: 2 - B  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 28-JUN-2018  
 Account: MTT

Project: STAFF

**CERTIFICATE OF ANALYSIS WH18141288**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
W591351		0.10	5.5	1.65	1.16	<0.05	<0.02	0.01	<0.005	0.03	3.5	10.9	0.15	998	0.42	<0.01
W591352		0.17	170.0	4.30	0.97	<0.05	0.02	0.02	0.051	0.07	8.5	1.3	0.05	21800	0.32	0.01
W591353		0.08	13.6	0.84	0.27	<0.05	0.02	0.01	<0.005	0.05	1.6	1.0	0.03	1710	0.45	<0.01
W591354		0.12	15.8	4.90	1.12	<0.05	0.13	0.03	0.030	0.10	11.2	1.6	0.03	>50000	2.67	<0.01
W591355		0.15	15.6	9.35	1.53	0.07	0.02	0.01	0.057	0.13	18.8	2.5	1.66	>50000	3.02	0.01
W591356		0.14	21.4	1.58	0.54	<0.05	0.09	0.01	0.007	0.09	9.3	1.0	0.02	349	0.27	0.01
W591357		0.28	63.7	2.41	1.14	0.05	0.13	0.02	0.016	0.20	21.5	2.7	0.03	244	0.22	0.01
W591358		0.07	9.7	1.13	0.25	<0.05	0.04	0.01	0.006	0.03	1.5	0.5	0.01	263	0.42	<0.01
W591359		0.08	14.2	1.29	0.32	<0.05	0.02	0.03	0.007	0.03	2.0	0.6	0.02	485	0.23	<0.01
W591901		<0.05	22.3	1.01	0.17	<0.05	<0.02	0.03	<0.005	0.01	1.2	0.3	0.01	317	0.25	<0.01
W591902		<0.05	2.0	2.91	0.15	<0.05	0.02	0.03	<0.005	<0.01	0.6	1.2	3.62	20200	0.10	<0.01
W591903		0.40	19.0	4.37	4.95	0.08	0.07	0.02	0.014	0.16	34.6	34.2	0.61	1900	0.60	<0.01
W591904		0.37	26.3	4.08	4.66	0.08	0.06	0.02	0.016	0.17	32.4	32.3	0.60	2100	0.40	0.01
W591905		0.32	27.1	4.10	4.72	0.08	0.07	0.02	0.016	0.19	33.7	33.7	0.64	2060	0.26	0.01
W591906		0.13	3.2	1.44	0.71	<0.05	0.04	0.02	0.006	0.04	6.3	5.9	0.08	1390	0.39	0.03
W591907		0.13	15.0	1.04	0.27	<0.05	0.09	0.02	<0.005	0.05	4.1	0.7	0.01	68	0.49	0.02
W591908		0.05	7.5	0.90	0.14	<0.05	0.02	0.02	0.008	0.01	0.4	0.7	0.01	4400	0.27	<0.01
W591909		0.38	77.2	3.18	2.32	0.05	0.10	0.02	0.012	0.19	21.5	12.3	0.36	2140	7.90	<0.01
W591910		0.19	82.0	1.69	0.92	<0.05	0.07	0.01	0.010	0.15	16.8	4.0	0.08	1520	0.56	<0.01
W591911		0.16	58.3	1.36	0.70	<0.05	0.06	0.01	0.007	0.13	12.2	3.3	0.04	2610	0.56	<0.01
W591912		0.30	66.0	1.91	2.11	<0.05	0.16	0.01	0.008	0.16	16.1	9.9	0.34	171	1.74	0.01
W591913		0.15	76.3	2.84	0.71	<0.05	0.07	0.01	<0.005	0.04	3.0	3.3	0.13	154	2.31	<0.01
W591914		0.11	20.0	1.14	0.69	<0.05	0.07	<0.01	<0.005	0.04	4.2	2.9	0.13	56	0.33	0.02
W591915		0.06	20.8	0.76	0.20	<0.05	0.04	0.01	0.005	0.02	2.7	0.4	0.01	49	0.44	<0.01
W591916		0.08	10.4	0.74	0.10	<0.05	0.05	<0.01	<0.005	0.02	1.2	0.5	<0.01	47	0.97	<0.01
W591917		0.34	50.5	3.24	1.00	0.06	0.16	0.13	0.025	0.11	22.3	1.6	0.02	47	6.02	<0.01
W591918		0.36	62.6	3.51	1.06	0.07	0.17	0.13	0.030	0.12	21.8	1.5	0.02	51	6.82	0.01
W591919		0.35	48.3	3.06	1.08	0.07	0.14	0.15	0.024	0.10	24.0	1.4	0.02	44	6.82	<0.01
W591920		0.41	57.0	2.77	0.99	0.08	0.14	0.16	0.023	0.08	23.6	1.4	0.01	40	6.92	<0.01
W591921		0.35	73.4	3.44	0.95	0.07	0.20	0.08	0.032	0.13	16.6	2.3	0.01	71	12.60	0.01
W591922		0.31	94.8	3.04	0.85	0.06	0.20	0.05	0.031	0.11	14.4	2.2	0.01	107	4.60	0.01
W591923		0.33	92.1	3.56	0.91	0.08	0.26	0.06	0.033	0.10	17.2	2.1	0.01	156	8.04	<0.01
W591924		0.30	134.5	3.00	0.87	0.06	0.20	0.02	0.031	0.12	19.0	2.8	0.02	272	3.10	<0.01
W591925		0.31	111.0	2.71	0.84	0.06	0.23	0.02	0.033	0.13	16.1	2.7	0.02	135	3.18	0.01
W591926		0.07	8.6	0.75	0.18	<0.05	<0.02	<0.01	<0.005	0.03	1.5	0.6	0.01	105	0.31	<0.01
W591927		<0.05	8.5	0.50	0.07	<0.05	<0.02	0.01	<0.005	<0.01	<0.2	0.2	<0.01	60	0.21	<0.01
W591928		1.82	72.7	2.26	2.41	0.08	<0.02	0.03	0.010	0.27	26.6	9.5	0.31	598	1.32	<0.01
W591929		1.76	63.5	2.51	2.88	0.08	<0.02	0.02	0.011	0.33	29.8	10.4	0.36	474	2.01	<0.01
W591930		0.07	23.1	0.61	0.16	<0.05	0.06	0.02	<0.005	0.01	1.1	0.5	0.01	259	0.47	<0.01
W591931		0.05	22.4	0.68	0.15	<0.05	0.03	0.02	<0.005	0.02	1.7	0.3	0.01	412	0.29	<0.01



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

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

Page: 2 - C  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 28-JUN-2018  
 Account: MTT

Project: STAFF

**CERTIFICATE OF ANALYSIS WH18141288**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
W591351		<0.05	8.7	120	61.2	1.3	<0.001	0.01	0.05	0.6	<0.2	<0.2	6.7	<0.01	0.08	1.0
W591352		0.06	42.5	440	10.5	2.8	<0.001	0.06	1.39	1.7	<0.2	<0.2	26.9	<0.01	0.10	1.8
W591353		<0.05	7.8	160	8.3	1.9	<0.001	0.03	0.12	0.3	<0.2	<0.2	26.1	<0.01	0.04	0.3
W591354		<0.05	43.6	1100	31.0	3.6	<0.001	<0.01	0.97	1.7	0.3	<0.2	194.5	<0.01	0.21	1.3
W591355		0.10	123.0	440	45.6	5.1	<0.001	0.01	0.79	3.5	0.5	<0.2	32.6	<0.01	0.32	3.2
W591356		<0.05	11.4	190	2.5	3.5	<0.001	0.02	0.34	0.7	0.3	<0.2	12.2	<0.01	0.02	2.7
W591357		<0.05	27.0	340	6.0	8.0	<0.001	0.01	0.59	1.4	0.5	<0.2	8.7	<0.01	0.05	5.7
W591358		<0.05	14.0	140	3.0	1.2	<0.001	0.01	0.78	0.6	<0.2	<0.2	7.5	<0.01	0.03	0.4
W591359		<0.05	10.6	450	9.0	1.5	<0.001	0.01	2.10	0.6	<0.2	<0.2	28.3	<0.01	0.12	0.5
W591901		<0.05	11.5	10	1.9	0.6	<0.001	0.01	0.87	0.3	<0.2	<0.2	1.0	<0.01	0.01	0.3
W591902		<0.05	8.4	210	2.7	0.1	<0.001	<0.01	0.13	1.6	<0.2	<0.2	1710	<0.01	0.03	<0.2
W591903		<0.05	39.6	260	30.5	5.7	<0.001	<0.01	0.09	1.8	<0.2	<0.2	16.3	<0.01	0.04	11.0
W591904		<0.05	34.9	350	37.6	6.1	<0.001	<0.01	0.08	1.8	<0.2	<0.2	19.4	<0.01	0.08	10.2
W591905		<0.05	35.2	260	18.5	6.6	<0.001	<0.01	0.10	1.8	<0.2	<0.2	11.3	<0.01	0.06	10.5
W591906		<0.05	16.5	270	105.0	1.5	<0.001	<0.01	0.07	0.8	<0.2	<0.2	18.7	<0.01	0.10	2.5
W591907		<0.05	5.8	200	3.2	2.2	<0.001	0.05	0.44	0.4	0.3	<0.2	18.0	<0.01	0.02	1.3
W591908		<0.05	30.3	70	33.4	0.7	<0.001	0.02	0.25	0.3	<0.2	<0.2	12.1	<0.01	0.07	<0.2
W591909		0.05	107.5	570	14.7	8.5	0.001	0.04	0.91	1.5	0.6	<0.2	27.0	<0.01	0.14	5.2
W591910		<0.05	47.8	200	5.2	5.9	<0.001	0.02	0.25	0.8	0.3	<0.2	6.2	<0.01	0.04	4.2
W591911		<0.05	41.7	180	4.5	5.1	<0.001	0.01	0.21	0.7	<0.2	<0.2	10.1	<0.01	0.03	2.9
W591912		<0.05	24.4	460	7.4	6.7	0.002	0.04	0.43	1.0	0.7	<0.2	23.6	<0.01	0.04	4.1
W591913		<0.05	18.8	400	6.2	1.6	<0.001	0.02	0.85	0.5	0.6	<0.2	10.0	<0.01	0.04	0.9
W591914		<0.05	7.1	180	14.3	1.6	<0.001	0.03	0.40	0.3	0.2	<0.2	9.4	<0.01	0.04	1.2
W591915		<0.05	6.6	240	6.3	1.1	<0.001	0.02	0.25	0.3	0.2	<0.2	16.4	<0.01	0.03	0.7
W591916		<0.05	8.1	60	1.4	0.8	<0.001	0.01	0.74	0.3	0.2	<0.2	2.8	<0.01	0.01	0.3
W591917		<0.05	17.8	660	15.2	5.2	0.018	0.15	3.95	0.7	7.8	<0.2	84.9	<0.01	0.19	4.0
W591918		<0.05	19.6	690	17.3	5.4	0.011	0.18	4.31	0.8	8.8	<0.2	101.0	<0.01	0.23	4.0
W591919		<0.05	14.7	550	20.5	4.7	0.007	0.11	5.10	0.7	8.4	<0.2	70.0	<0.01	0.23	4.1
W591920		<0.05	14.6	470	21.4	4.1	0.007	0.05	5.50	0.6	10.0	<0.2	34.0	<0.01	0.28	4.0
W591921		<0.05	45.0	650	10.6	5.9	0.021	0.21	3.76	1.0	11.4	<0.2	126.0	<0.01	0.19	3.6
W591922		<0.05	40.6	690	7.8	5.2	0.011	0.17	2.71	1.1	8.8	<0.2	99.2	<0.01	0.12	4.0
W591923		<0.05	47.9	640	9.0	4.7	0.019	0.10	4.02	1.1	10.9	<0.2	62.3	<0.01	0.20	4.0
W591924		<0.05	37.6	530	2.8	5.0	0.009	0.07	1.33	1.3	6.7	<0.2	33.2	<0.01	0.06	4.9
W591925		<0.05	37.5	620	4.1	5.4	0.013	0.11	1.52	1.5	6.0	<0.2	67.0	<0.01	0.08	4.6
W591926		0.05	2.0	60	8.9	1.2	<0.001	0.01	0.29	0.1	0.8	<0.2	6.4	<0.01	0.07	0.6
W591927		<0.05	1.3	50	<0.2	0.2	<0.001	<0.01	0.18	0.2	0.5	<0.2	3.0	<0.01	<0.01	<0.2
W591928		0.48	18.5	1340	7.5	18.7	<0.001	0.04	0.89	1.0	1.5	<0.2	48.4	<0.01	0.09	5.6
W591929		0.37	25.2	1820	11.3	20.5	<0.001	0.03	0.91	1.4	1.0	<0.2	59.5	<0.01	0.17	6.9
W591930		<0.05	14.4	710	1.4	0.6	<0.001	<0.01	0.49	0.4	0.4	<0.2	25.1	<0.01	0.02	0.2
W591931		<0.05	13.9	650	7.3	0.7	<0.001	<0.01	0.53	0.2	0.6	<0.2	27.2	<0.01	0.03	0.3



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

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

Page: 2 - D  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 28-JUN-2018  
 Account: MTT

Project: STAFF

**CERTIFICATE OF ANALYSIS WH18141288**

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
W591351		<0.005	<0.02	0.11	3	<0.05	1.06	26	0.5
W591352		0.006	0.02	0.14	3	0.24	3.16	111	0.9
W591353		<0.005	0.02	0.25	2	0.05	1.02	7	1.0
W591354		<0.005	0.02	0.96	7	0.08	8.34	110	7.2
W591355		0.012	0.02	0.14	3	0.42	4.57	63	0.6
W591356		<0.005	0.03	0.24	2	<0.05	1.30	33	4.0
W591357		<0.005	0.05	0.35	6	<0.05	2.23	65	5.5
W591358		<0.005	<0.02	0.15	1	<0.05	1.02	40	2.1
W591359		<0.005	<0.02	0.14	2	<0.05	2.07	26	1.2
W591901		<0.005	<0.02	0.23	1	<0.05	0.29	35	0.5
W591902		<0.005	<0.02	0.10	6	<0.05	5.27	16	0.6
W591903		<0.005	0.04	0.72	12	<0.05	2.81	89	3.3
W591904		<0.005	0.04	0.49	11	<0.05	2.95	82	2.9
W591905		<0.005	0.04	0.31	10	<0.05	2.68	85	2.8
W591906		<0.005	<0.02	0.44	3	<0.05	1.53	33	1.8
W591907		<0.005	0.02	0.32	2	<0.05	0.85	13	3.5
W591908		<0.005	<0.02	0.23	<1	<0.05	1.73	119	0.7
W591909		0.007	0.07	2.93	17	0.08	9.49	241	5.8
W591910		<0.005	0.05	0.40	3	<0.05	2.08	85	2.6
W591911		<0.005	0.03	0.28	3	<0.05	2.28	69	2.2
W591912		<0.005	0.05	0.90	14	<0.05	2.93	72	7.6
W591913		<0.005	<0.02	0.60	6	<0.05	1.99	90	3.4
W591914		<0.005	<0.02	0.20	5	<0.05	0.99	30	2.5
W591915		<0.005	<0.02	0.22	2	<0.05	0.55	17	1.8
W591916		<0.005	<0.02	0.11	1	<0.05	0.27	49	2.3
W591917		<0.005	0.07	1.45	22	<0.05	2.69	181	9.2
W591918		<0.005	0.10	1.59	25	0.05	2.71	196	9.8
W591919		<0.005	0.09	1.74	23	<0.05	2.51	161	8.4
W591920		<0.005	0.07	1.55	21	<0.05	2.25	159	7.8
W591921		<0.005	0.04	1.84	25	0.07	2.72	256	10.9
W591922		<0.005	0.06	1.58	14	0.05	2.26	162	10.8
W591923		<0.005	0.05	2.04	21	0.06	3.01	265	14.2
W591924		<0.005	0.04	1.49	13	<0.05	2.55	158	10.3
W591925		<0.005	0.05	1.67	12	<0.05	2.28	143	11.4
W591926		<0.005	<0.02	0.26	1	<0.05	0.22	8	0.6
W591927		<0.005	<0.02	0.38	1	<0.05	0.28	6	<0.5
W591928		0.029	0.17	2.12	12	0.08	5.63	69	<0.5
W591929		0.034	0.17	2.07	12	0.11	6.69	78	1.0
W591930		<0.005	<0.02	0.81	3	<0.05	4.48	66	2.1
W591931		<0.005	<0.02	1.36	1	<0.05	3.44	58	1.3





ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
www.alsglobal.com/geochemistry

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

Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 28-JUN-2018  
Account: MTT

Project: STAFF

**CERTIFICATE OF ANALYSIS WH18141288**

### CERTIFICATE COMMENTS

#### ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).  
ME-MS41

#### LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.  
CRU-31 CRU-QC LOG-21 PUL-31  
PUL-QC SPL-21 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 ME-MS41

**APPENDIX IV**  
**ROCK SAMPLE DESCRIPTIONS**

---

**Rock Sample Descriptions**Property: Staff

---

Sample Number: W591351 UTM: 505370 mE Nad83, Zone 8  
Elevation: 1251 m UTM: 7124671 mN  
Comments:

---

Sample Number: W591352 UTM: 506349 mE Nad83, Zone 8  
Elevation: 1506 m UTM: 7126085 mN  
Comments: qtz vein in gully near anomalous soil sample, limonite, rusty

---

Sample Number: W591353 UTM: 506349 mE Nad83, Zone 8  
Elevation: 1253 m UTM: 7126085 mN  
Comments: qtz vein in gully near anomalous soil sample, limonite, rusty

---

Sample Number: W591354 UTM: 506158 mE Nad83, Zone 8  
Elevation: 1567 m UTM: 7126058 mN  
Comments: shaley dark rock, tiny sulphides?

---

Sample Number: W591355 UTM: 506159 mE Nad83, Zone 8  
Elevation: 1246 m UTM: 7126058 mN  
Comments: shaley dark rock, tiny sulphides?

---

Sample Number: W591356 UTM: 506015 mE Nad83, Zone 8  
Elevation: 1587 m UTM: 7125575 mN  
Comments: qtz sample on ridgetop, looks in place, vein.

---

Sample Number: W591357 UTM: 505839 mE Nad83, Zone 8  
Elevation: 1486 m UTM: 7125659 mN  
Comments: soil sample is under snow, dug small pit sampled rock, qtz vein still here.

---

---

**Rock Sample Descriptions**

---

Property: Staff

Sample Number: W591358 UTM: 505930 mE Nad83, Zone 8  
Elevation: 1527 m UTM: 7125580 mN

Comments: at soil sample ZZ02839, frozen ground. Samples of qtz not too deep in ground because frozen.

---

Sample Number: W591359 UTM: 505839 mE Nad83, Zone 8  
Elevation: 1251 m UTM: 7125659 mN

Comments: qtz sample at soil location, sulphides? Tiny if so. Frozen ground below surface. Same vein all the way from ridge?

---

Sample Number: W591901 UTM: 506177 mE Nad83, Zone 8  
Elevation: m UTM: 7125379 mN

Comments: Float, vuggy quartz boulder, limonitic and manganese staining on fractures

---

Sample Number: W591902 UTM: 505703 mE Nad83, Zone 8  
Elevation: m UTM: 7125233 mN

Comments: Float, vuggy quartz -carbonate vein within a dark brown, re-crystallized carbonate boulder

---

Sample Number: W591903 UTM: 505369 mE Nad83, Zone 8  
Elevation: m UTM: 7124663 mN

Comments: Chip sample, 18TR-1: 0 to 0.8 m, grey/green shale with minor quartz veining

---

Sample Number: W591904 UTM: 505369 mE Nad83, Zone 8  
Elevation: m UTM: 7124663 mN

Comments: Chip sample, 18TR-1: 2.8 to 6 m, grey/green shale within minor quartz veining

---

Sample Number: W591905 UTM: 505369 mE Nad83, Zone 8  
Elevation: m UTM: 7124663 mN

Comments: Chip sample, 18TR-1: 6 to 9.8 m, grey/green shale within minor quartz veining

---

---

**Rock Sample Descriptions**

---

Property: Staff

Sample Number: W591906 UTM: 505365 mE Nad83, Zone 8  
Elevation: m UTM: 7124666 mN

Comments: Quartz vein from ~3.8 m in 18TR-1, rusty to brownish alteration, limonitic staining, slightly vuggy

---

Sample Number: W591907 UTM: 506018 mE Nad83, Zone 8  
Elevation: m UTM: 7125572 mN

Comments: Fractured, slightly vuggy quartz vein with limonite along fractures, dark grey/black wall rock fragments within

---

Sample Number: W591908 UTM: 506127 mE Nad83, Zone 8  
Elevation: m UTM: 7125746 mN

Comments: Float, vuggy quartz vein train running along bench, bright orange limonitic and goethitic FeOxide patches and blueish manganese staining

---

Sample Number: W591909 UTM: 506544 mE Nad83, Zone 8  
Elevation: m UTM: 7125899 mN

Comments: Chip sample, 18TR-2: 0 to 3 m, grey phyllitic shale, limonitic alteration along cleavage common

---

Sample Number: W591910 UTM: 506544 mE Nad83, Zone 8  
Elevation: m UTM: 7125899 mN

Comments: Chip sample, 18TR-2: 3 to 6 m, grey phyllitic shale, with occasional 1-2 cm carbonaceous shale interbeds

---

Sample Number: W591911 UTM: 506544 mE Nad83, Zone 8  
Elevation: m UTM: 7125899 mN

Comments: Chip sample, 18TR-2: 6 to 9 m, grey phyllitic shale, occasional 1-2 cm carbonaceous shale interbeds

---

Sample Number: W591912 UTM: 506544 mE Nad83, Zone 8  
Elevation: m UTM: 7125899 mN

Comments: Chip sample, 18TR-2: 9 to 12 m, grey phyllitic shale, quartz vein fragments at 9.5 m and 10 m

---

---

**Rock Sample Descriptions**

---

Property: Staff

Sample Number: W591913 UTM: 506544 mE Nad83, Zone 8  
Elevation: m UTM: 7125899 mN

Comments: Grab sample of rusty weathered, limonitic stained vuggy quartz vein in 18TR-2 at 9.5 m

---

Sample Number: W591914 UTM: 506544 mE Nad83, Zone 8  
Elevation: m UTM: 7125899 mN

Comments: Grab sample of rusty weathered, limonitic stained vuggy quartz vein in 18TR-2 at 10 m

---

Sample Number: W591915 UTM: 506653 mE Nad83, Zone 8  
Elevation: m UTM: 7126365 mN

Comments: Float sample of rusty weathered, vuggy quartz vein, float train runs down saddle

---

Sample Number: W591916 UTM: 506668 mE Nad83, Zone 8  
Elevation: m UTM: 7126384 mN

Comments: Float sample of rusty, vuggy quartz vein, enclosed fragments of wall rock throughout

---

Sample Number: W591917 UTM: 506692 mE Nad83, Zone 8  
Elevation: m UTM: 7126303 mN

Comments: Chip sample, 18TR-3: 0 to 4 m, carbonaceous shale with bright yellow and orange hematite and limonite coating fractures

---

Sample Number: W591918 UTM: 506692 mE Nad83, Zone 8  
Elevation: m UTM: 7126303 mN

Comments: Chip sample, 18TR-3: 4 to 8 m, carbonaceous shale with bright yellow and orange limonite and hematite coating fractures

---

Sample Number: W591919 UTM: 506692 mE Nad83, Zone 8  
Elevation: m UTM: 7126303 mN

Comments: Chip sample, 18TR-3: 8 to 12 m, carbonaceous shale with bright yellow and orange limonite and hematite coating fractures

---

---

**Rock Sample Descriptions**

---

Property: Staff

Sample Number: W591920 UTM: 506692 mE Nad83, Zone 8  
Elevation: m UTM: 7126303 mN

Comments: Chip sample, 18TR-3: 12 to 15 m, carbonaceous shale with bright yellow and orange limonite and hematite coating fractures

---

Sample Number: W591921 UTM: 506642 mE Nad83, Zone 8  
Elevation: m UTM: 7126381 mN

Comments: Chip sample, 18TR-4: 0 to 3 m, carbonaceous shale with bright yellow and orange limonite and hematite coated fractures

---

Sample Number: W591922 UTM: 506642 mE Nad83, Zone 8  
Elevation: m UTM: 7126381 mN

Comments: Chip sample, 18TR-4: 3 to 6 m, carbonaceous shale with bright yellow and orange limonite and hematite coated fractures

---

Sample Number: W591923 UTM: 506642 mE Nad83, Zone 8  
Elevation: m UTM: 7126381 mN

Comments: Chip sample, 18TR-4: 6 to 10 m, carbonaceous shale with bright yellow and orange limonite and hematite coated fractures

---

Sample Number: W591924 UTM: 506644 mE Nad83, Zone 8  
Elevation: m UTM: 7126383 mN

Comments: Chip sample, 18TR-5: 0 to 2.2 m, mixed carbonaceous black shale and grey phyllite

---

Sample Number: W591925 UTM: 506644 mE Nad83, Zone 8  
Elevation: m UTM: 7126383 mN

Comments: Chip sample, 18TR-5: 3 to 5 m, brown to grey phyllite

---

Sample Number: W591926 UTM: 506528 mE Nad83, Zone 8  
Elevation: m UTM: 7125721 mN

Comments: Grab sample from discontinuous, rusty weathered, slightly vuggy quartz vein in outcrop

---

---

**Rock Sample Descriptions**Property: Staff

---

Sample Number: W591927 UTM: 506316 mE Nad83, Zone 8  
Elevation: m UTM: 7125903 mN

Comments: Float sample of white quartz vein with some rusty patches and purplish manganese staining, from near anomalous Au soil sample

---

Sample Number: W591928 UTM: 506039 mE Nad83, Zone 8  
Elevation: m UTM: 7126008 mN

Comments: Chip sample, 18TR-6: 0 to 1.5 m, grey to brown, siliceous phyllitic shale

---

Sample Number: W591929 UTM: 506039 mE Nad83, Zone 8  
Elevation: m UTM: 7126008 mN

Comments: Chip sample, 18TR-6: 1.5 to 3.5 m, grey to brown, siliceous phyllitic shale

---

Sample Number: W591931 UTM: 506041 mE Nad83, Zone 8  
Elevation: m UTM: 7126008 mN

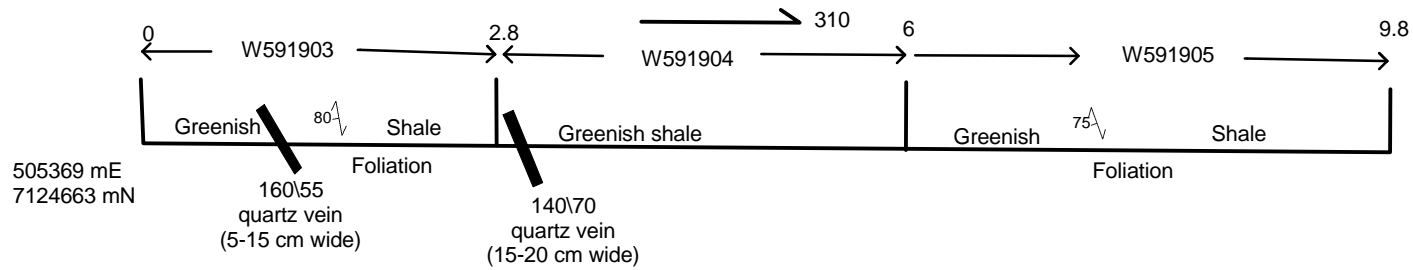
Comments: Grab sample of rusty, limonitic stained quartz vein dug up from within 18TR-6

---

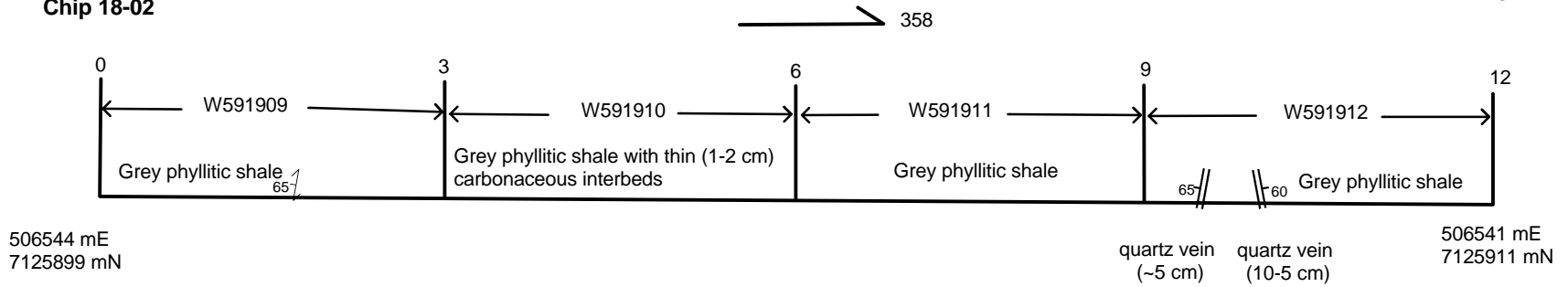


**APPENDIX V**  
**TRENCH MAPS**

**Chip 18-01**



**Chip 18-02**

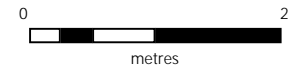


**STRATEGIC METALS LTD.**

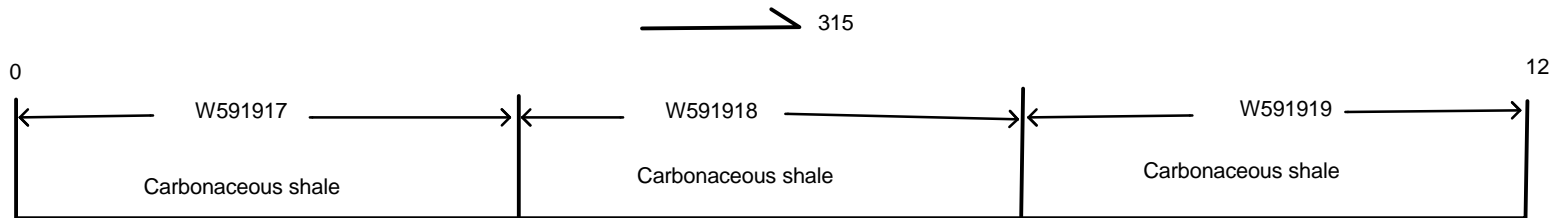
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**TRENCH 18-01, 02**

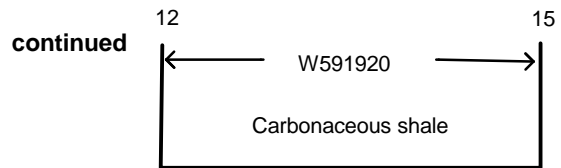
STAFF PROPERTY



**Chip sample 18-03**

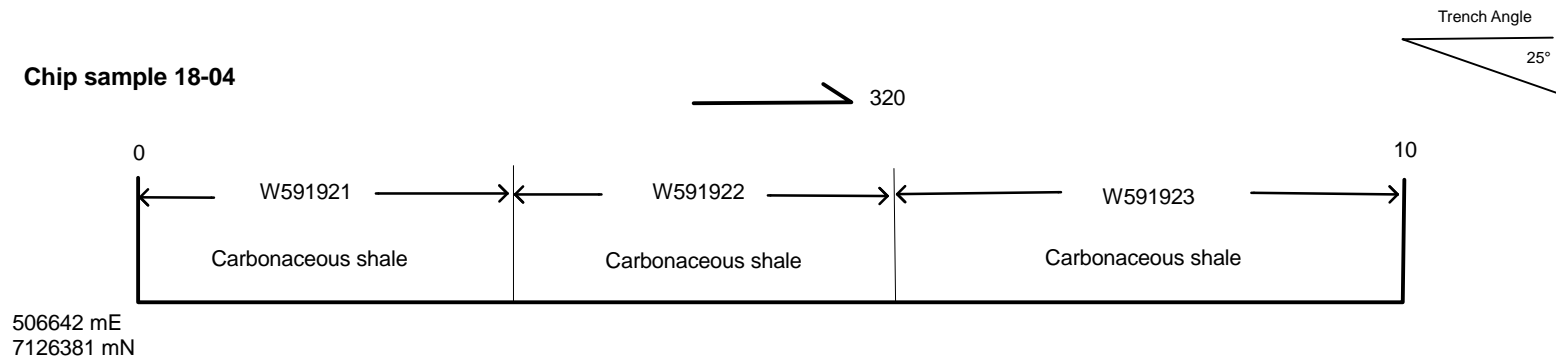


506692 mE  
7126303 mN

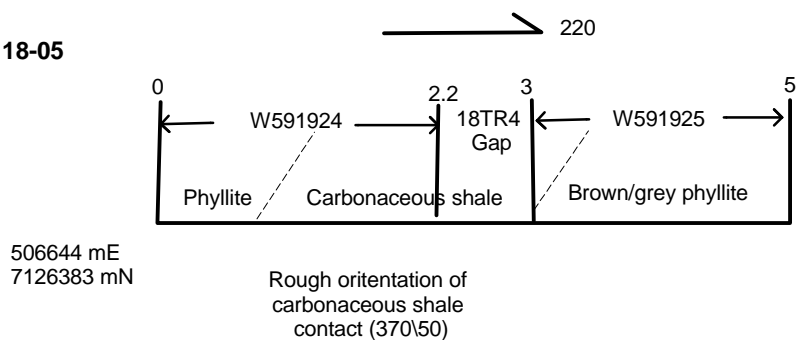


<b>STRATEGIC METALS LTD.</b>	
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
<b>TRENCH 18-03</b>	
STAFF PROPERTY	
FILE: ...2018\STAFF	DATE: APRIL 2019

**Chip sample 18-04**



**Chip sample 18-05**

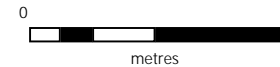


**STRATEGIC METALS LTD.**

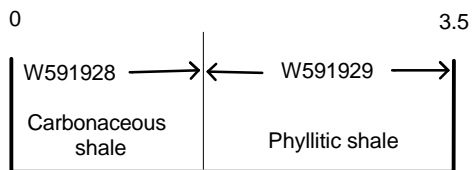
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**TRENCH 18-04, 05**

STAFF PROPERTY



Chip sample 18-06

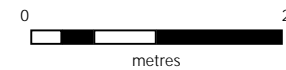


506039 mE  
7126012 mN

**STRATEGIC METALS LTD.**

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**TRENCH 18-06**  
STAFF PROPERTY



FILE: ..2018\STAFF

DATE: APRIL 2019

**STRATEGIC METALS LTD.**

FIGURE 1  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**PROPERTY LOCATION**

STAFF PROPERTY

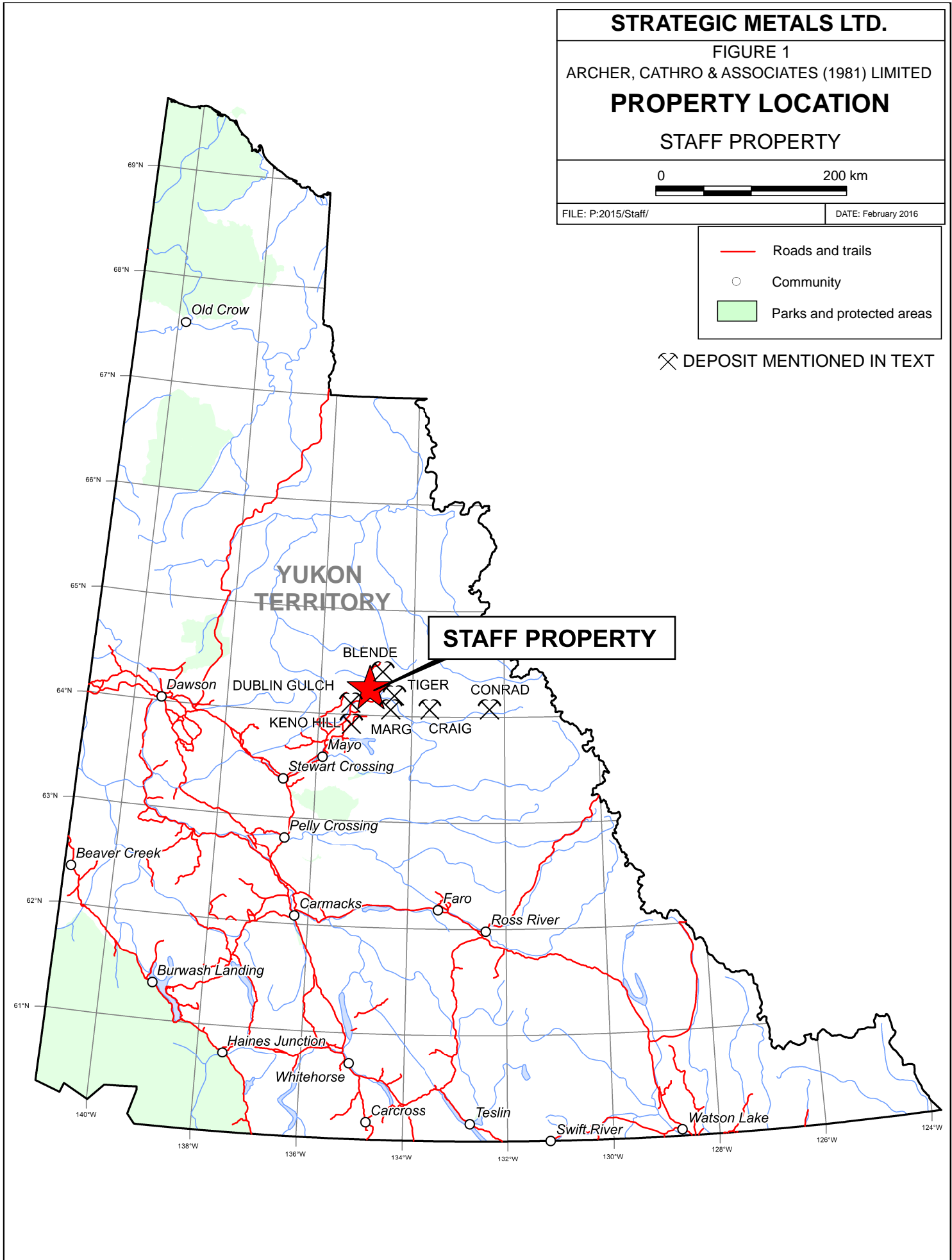


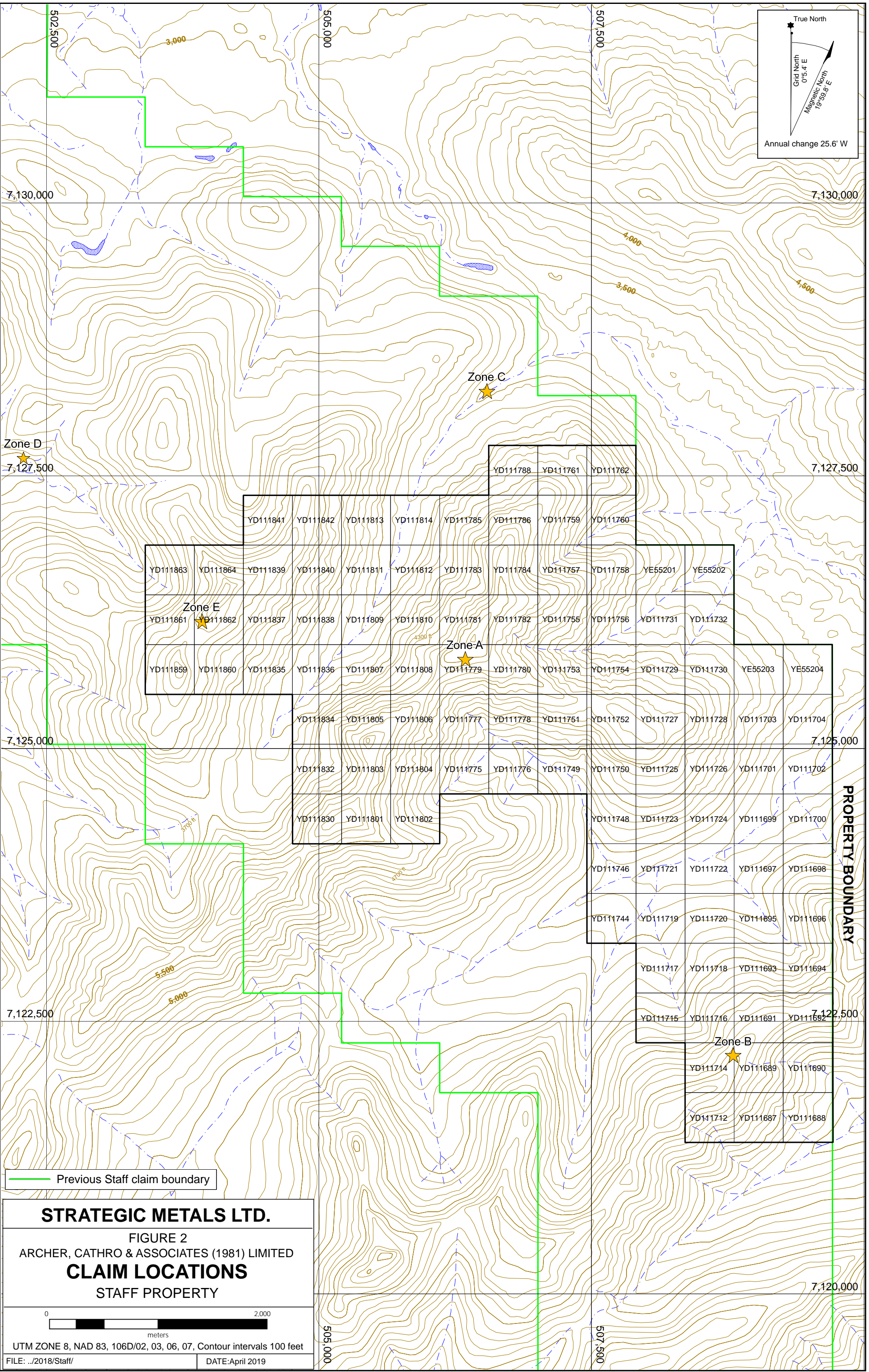
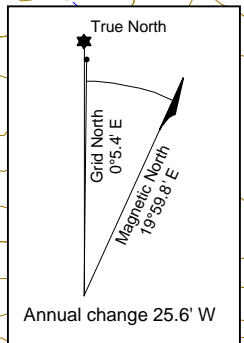
FILE: P:2015/Staff/

DATE: February 2016

- Roads and trails
- Community
- Parks and protected areas

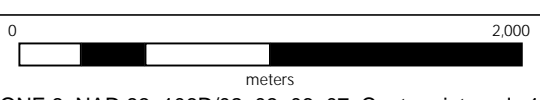
⊗ DEPOSIT MENTIONED IN TEXT





**STRATEGIC METALS LTD.**

FIGURE 2  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**CLAIM LOCATIONS**  
STAFF PROPERTY



UTM ZONE 8, NAD 83, 106D/02, 03, 06, 07, Contour intervals 100 feet

FILE: ../2018/Staff/

DATE: April 2019

# STRATEGIC METALS LTD.

FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

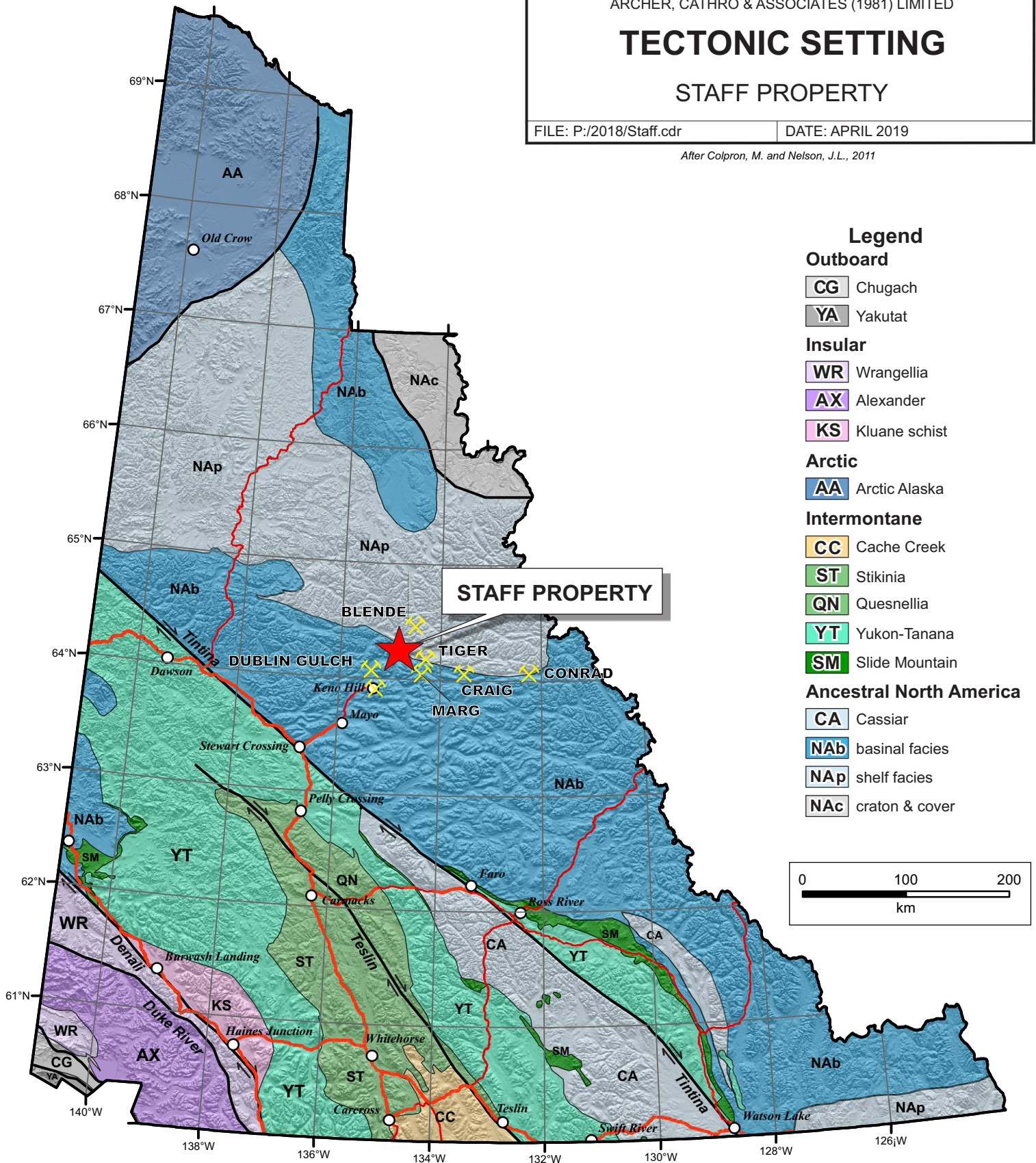
## TECTONIC SETTING

STAFF PROPERTY

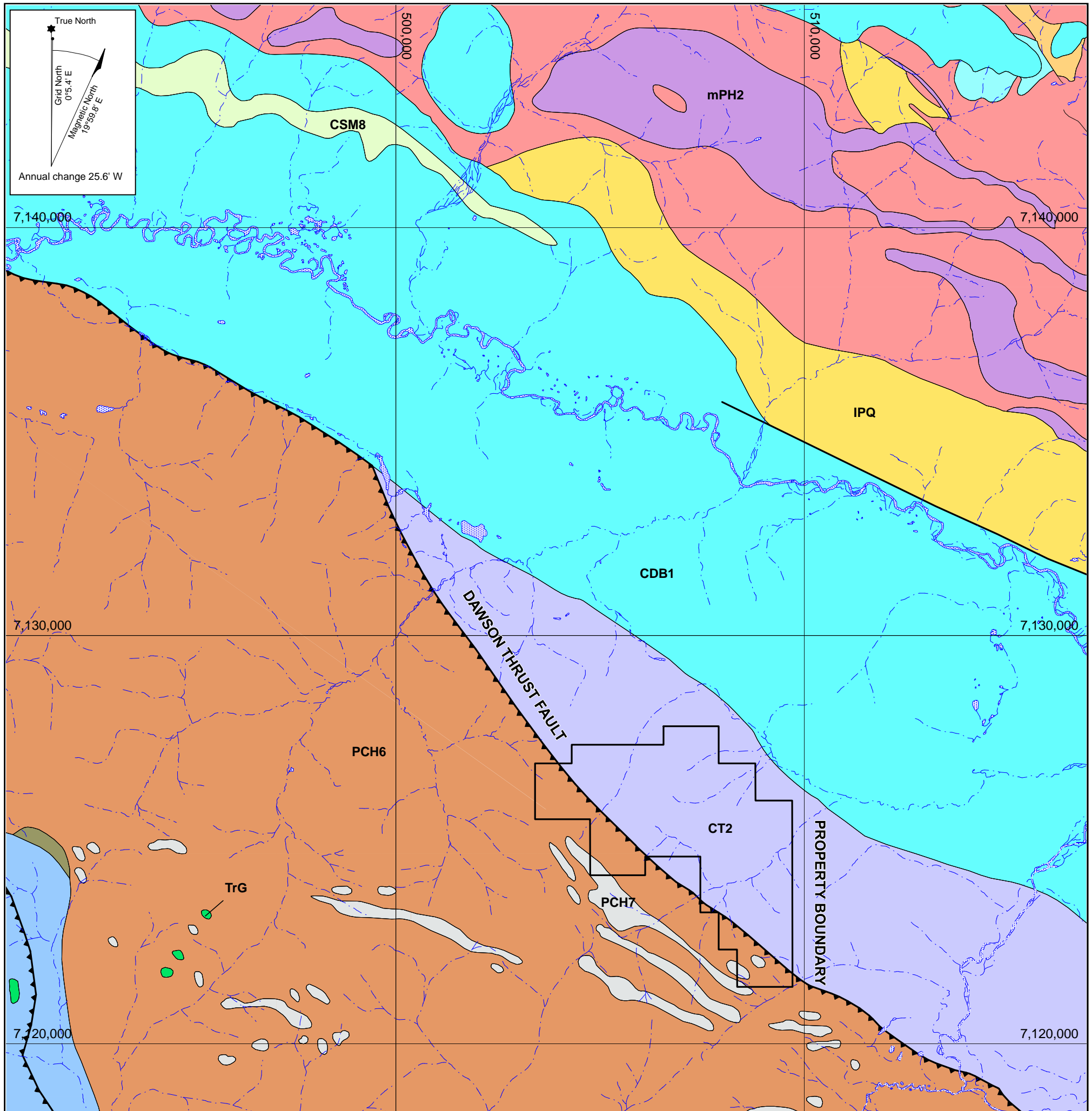
FILE: P:/2018/Staff.cdr

DATE: APRIL 2019

After Colpron, M. and Nelson, J.L., 2011







TRIASSIC	
<b>TrG</b>	Galena Suite - Massive, medium-grained hornblende diorite and gabbro sills; massive chloritic and locally serpentinized greenstone (diorite, gabbro, and altered equivalents) sills; minor occurrences of possible mid- to Late Paleozoic age.
MISSISSIPPIAN	
<b>CT2</b>	Tsichu Group (Keno Hill FM) - Black to silvery shale or carbonaceous phyllite.
CAMBRIAN TO SILURIAN	
<b>CSM8</b>	Marmot Group - Grey to dark grey weathering, dark volcanic rocks, many partly serpentinized, brown-weathering, grey-green, limy tuff and argillite, and thin-bedded brown limestone.
UPPER CAMBRIAN TO LOWER DEVONIAN	
<b>CDB1</b>	Bouvette Formation - Grey and buff-weathering dolomite and limestone, medium to thick bedded; white to light grey weathering, massive dolomite; minor platy black argillaceous limestone, limestone conglomerate, and black shale; massive bluish-grey weathering dolostone.
UPPER PROTEROZOIC TO LOWER CAMBRIAN	
<b>PCH6</b>	Hyland Group (Yusezyu FM) - Brown to pale green shale, quartz-rich sandstone, grit, pebble conglomerate.
<b>PCH7</b>	Hyland Group (Algae FM) - Grey weathering, very fine crystalline limestone, locally sandy.
MIDDLE PROTEROZOIC	
<b>mPH2</b>	Hart River Sills - Resistant dark weathering diorite and gabbro sills and dikes.
LOWER PROTEROZOIC	
<b>IPG</b>	Gillespie Lake Group - Dolostone and silty dolostone, locally stromatolitic, locally with chert nodules and sparry karst inclusions, interbedded with lesser black siltstone and shale, laminated mudstone, and quartzose sandstone; local dolomite boulder conglomerate.
<b>IPQ</b>	Quartet Group - Black weathering shale, finely laminated dark grey weathering siltstone, and thin to thickly interbedded planar to cross laminated light grey weathering siltstone and fine grained sandstone; minor interbeds of orange weathering dolostone in upper part.

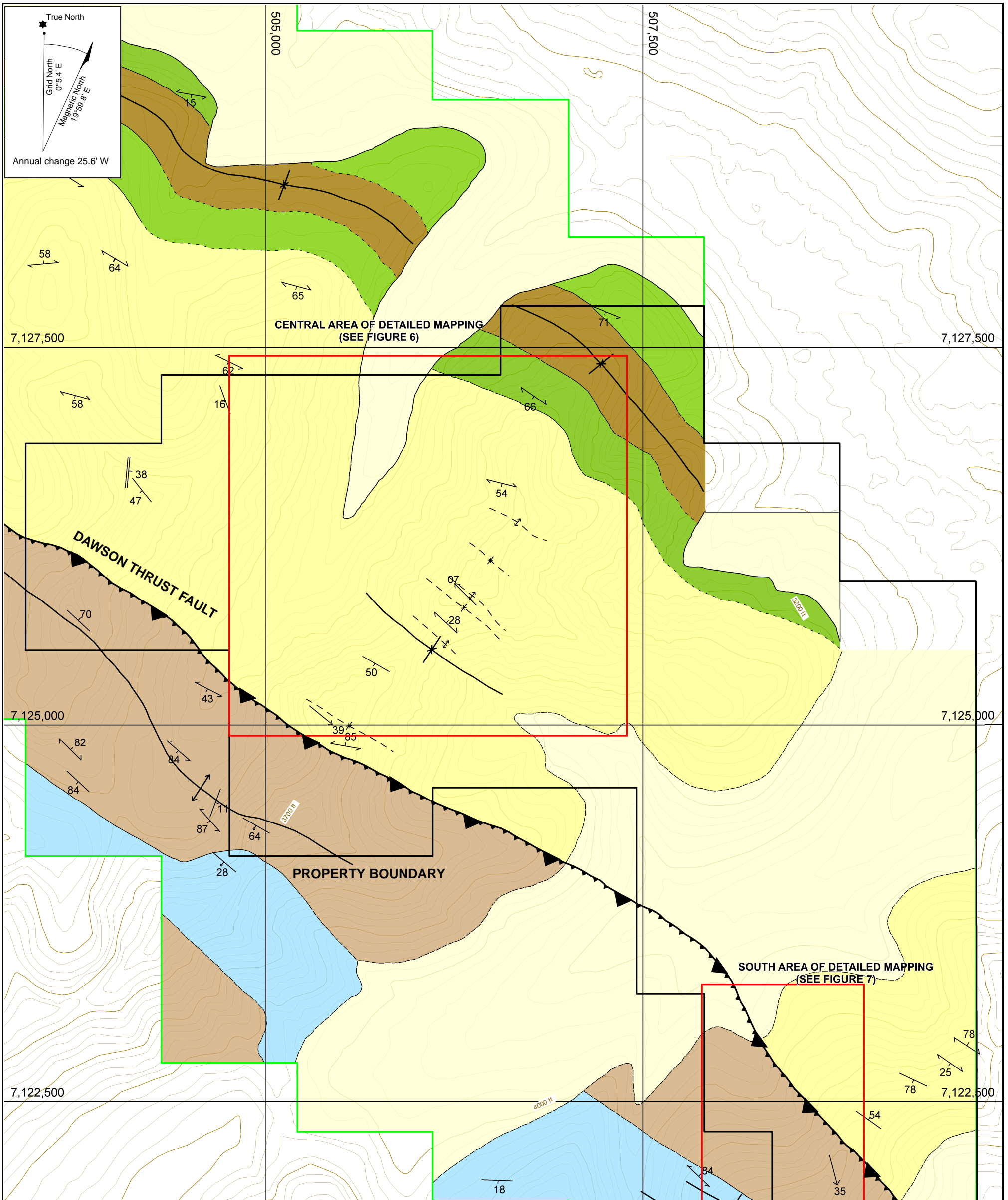
**STRATEGIC METALS LTD.**

FIGURE 4  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**REGIONAL GEOLOGY**  
 STAFF PROPERTY

0 5,000  
 meters

UTM ZONE 8, NAD 83, 106D/02,  
 FILE: ../Staff/Figures/ DATE: February 2016

After Yukon Geological Survey, 2015



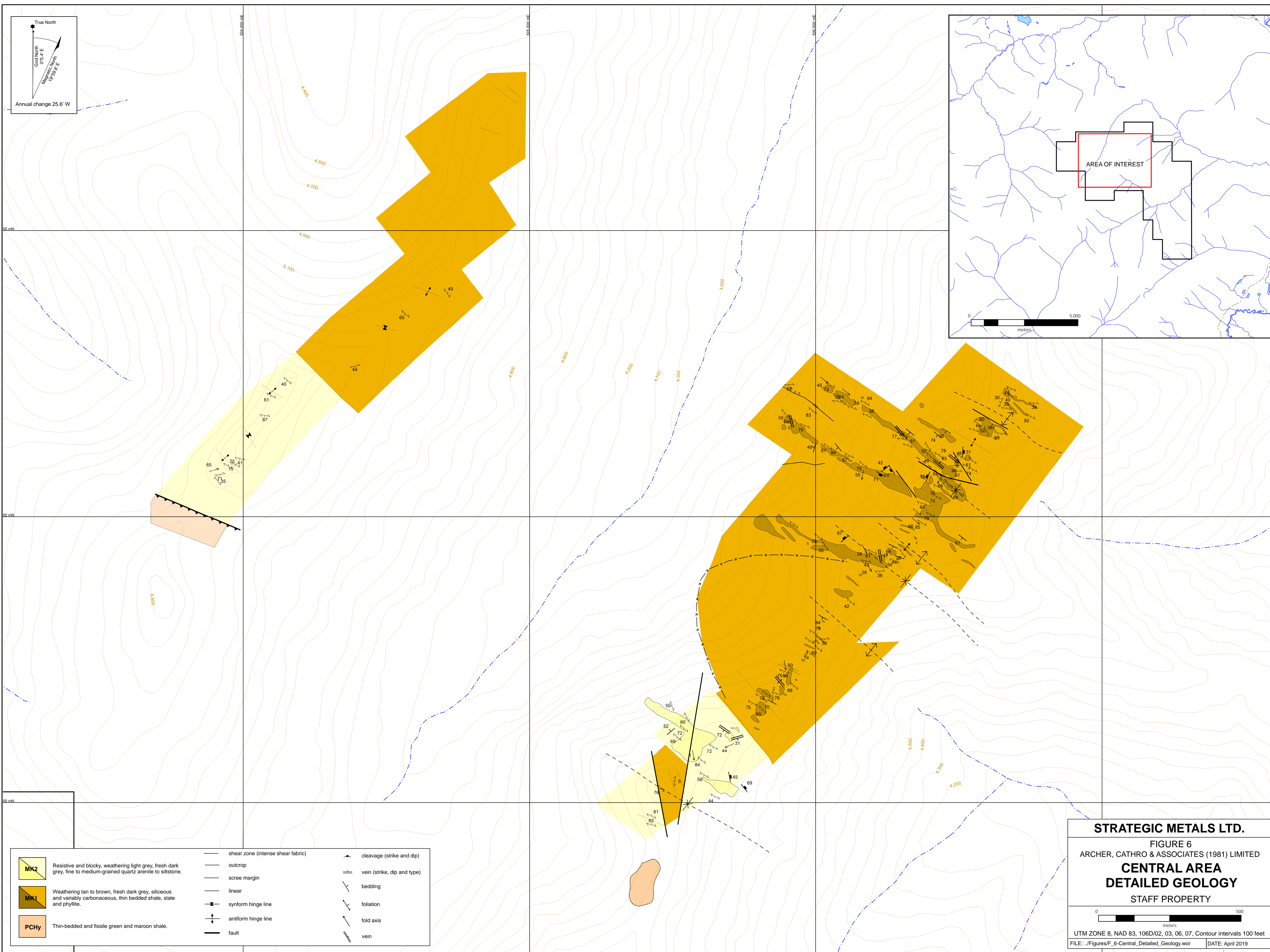
<b>Q</b>	Quaternary		Previous Staff claim boundary
<b>CTs?</b>	Dark grey siltstone and shale		bedding
<b>MKv?</b>	Deformed, calcareous, green-grey, fine grained volcaniclastic rock; deformed, chloritized volcanic breccia		upright bedding
<b>CT</b>	White weathered, fine to medium grained arenite, thin bedded, light to dark grey and grey-brown, fine grained very siliceous sandstone to siltstone, and grey-green to dark grey shale		overturned bedding
<b>PCHy</b>	Tan to light grey, medium-grained arenite and arkose sandstone, rare quartz-rich pebble conglomerate and abundant dark green and dark purple siltstone and shale		foliation
<b>PCHa</b>	Grey, thinly bedded limestone to silty limestone		fold axis
<b>PCHv</b>	Green, fine to medium grained volcaniclastic sandstone and laminated siltstone interlayered with fine to medium grained basalt		vein
			defined contact
			approximate contact
			inferred contact
			synform hinge line
			antiform hinge line
			fault

**STRATEGIC METALS LTD.**

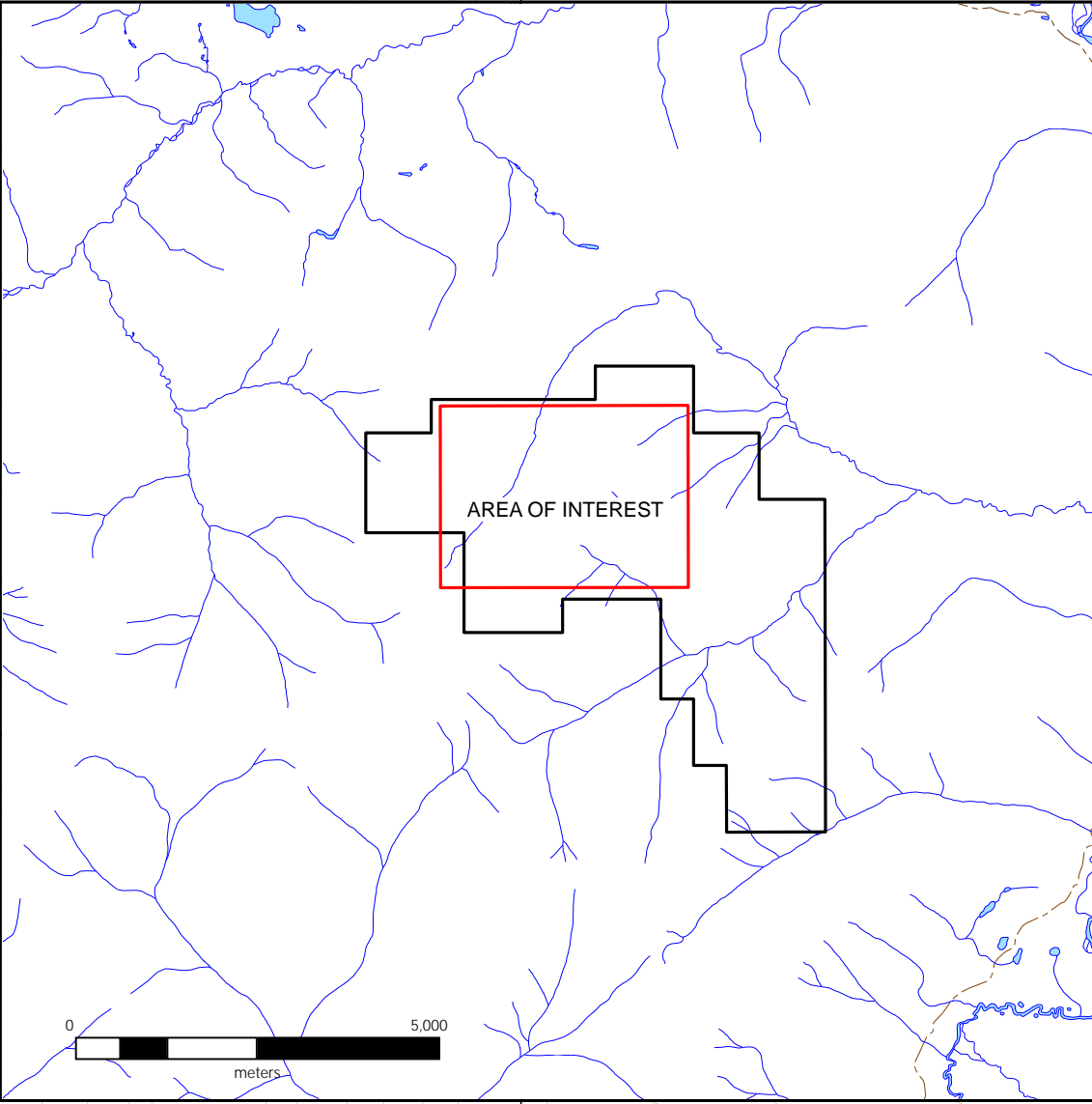
FIGURE 5  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**PROPERTY GEOLOGY**  
 STAFF PROPERTY

0 2,000  
 meters

UTM ZONE 8, NAD 83, 106D/02, 03, 06, 07, Contour intervals 100 feet  
 FILE: ../Staff/ DATE: February 2016



True North  
 Grid North 0°5.4' E  
 Magnetic North 12°38.8' E  
 Annual change 25.6' W



**MK2** Resistive and blocky, weathering light grey, fresh dark grey, fine to medium-grained quartz arenite to siltstone.

**MK1** Weathering tan to brown, fresh dark grey, siliceous and variably carbonaceous, thin bedded shale, slate and phyllite.

**PCHy** Thin-bedded and fissile green and maroon shale.

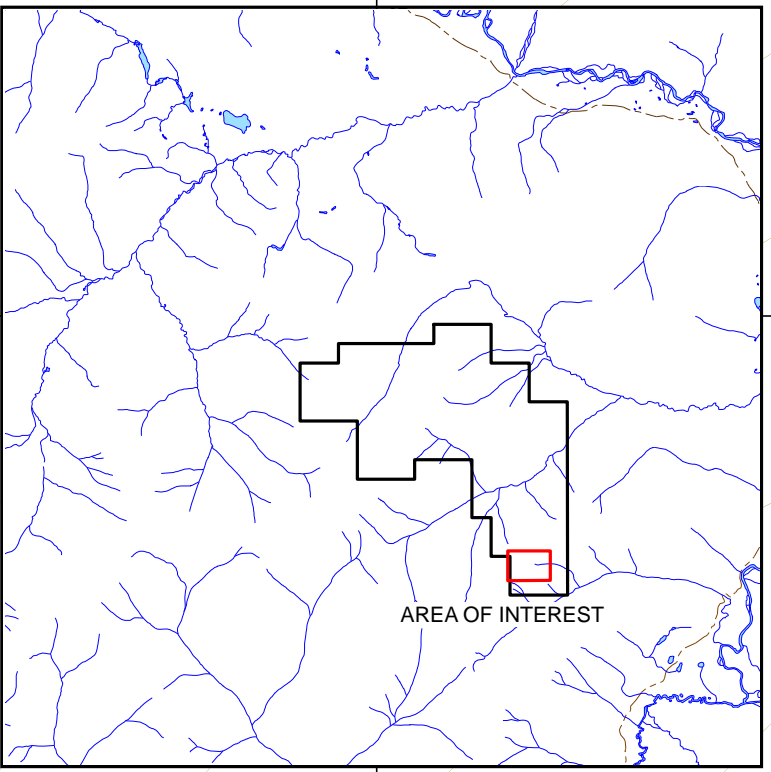
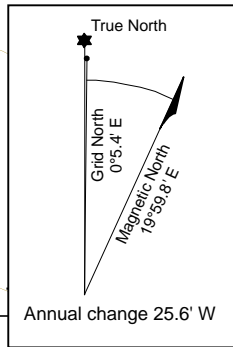
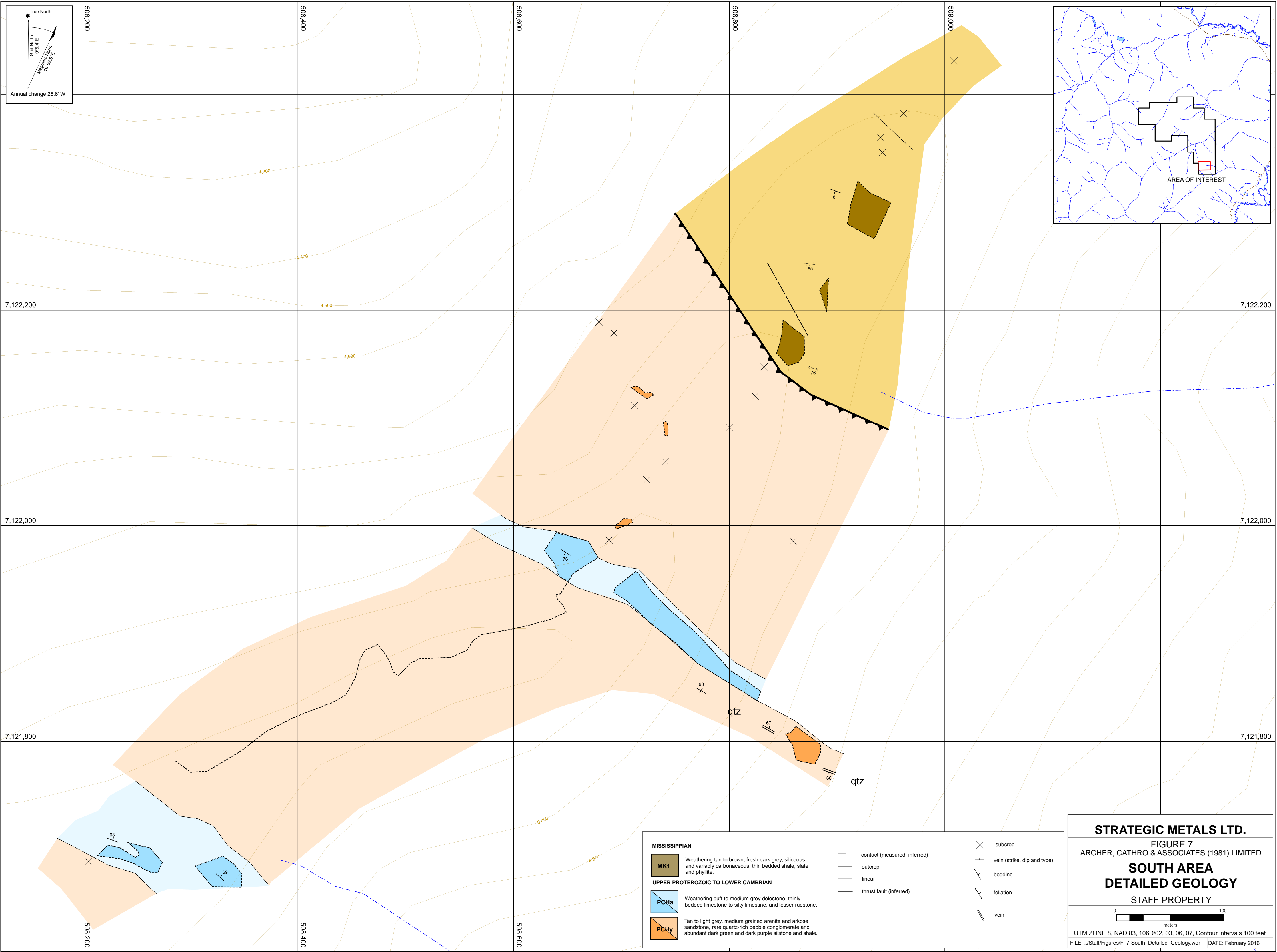
- |                                     |                               |
|-------------------------------------|-------------------------------|
| — shear zone (intense shear fabric) | — cleavage (strike and dip)   |
| — outcrop                           | — vein (strike, dip and type) |
| — scree margin                      | — bedding                     |
| — linear                            | — foliation                   |
| — synform hinge line                | — fold axis                   |
| — antiform hinge line               | — vein                        |
| — fault                             |                               |

**STRATEGIC METALS LTD.**

FIGURE 6  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**CENTRAL AREA  
 DETAILED GEOLOGY**  
 STAFF PROPERTY

0 500  
 meters

UTM ZONE 8, NAD 83, 106D/02, 03, 06, 07, Contour intervals 100 feet  
 FILE: \\Figures\F\_6-Central\_Detailed\_Geology.wor DATE: April 2019



**MISSISSIPPIAN**

**MK1** Weathering tan to brown, fresh dark grey, siliceous and variably carbonaceous, thin bedded shale, slate and phyllite.

**UPPER PROTEROZOIC TO LOWER CAMBRIAN**

**PCHa** Weathering buff to medium grey dolostone, thinly bedded limestone to silty limestone, and lesser rudstone.

**PCHy** Tan to light grey, medium grained arenite and arkose sandstone, rare quartz-rich pebble conglomerate and abundant dark green and dark purple siltstone and shale.

— contact (measured, inferred)  
 — outcrop  
 — linear  
 — thrust fault (inferred)

× subcrop  
 = vein (strike, dip and type)  
 / bedding  
 \ foliation  
 // vein

**STRATEGIC METALS LTD.**

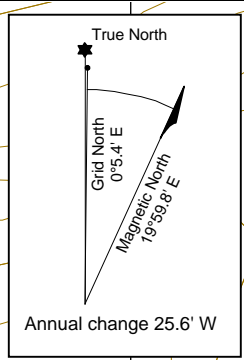
FIGURE 7  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**SOUTH AREA  
 DETAILED GEOLOGY**

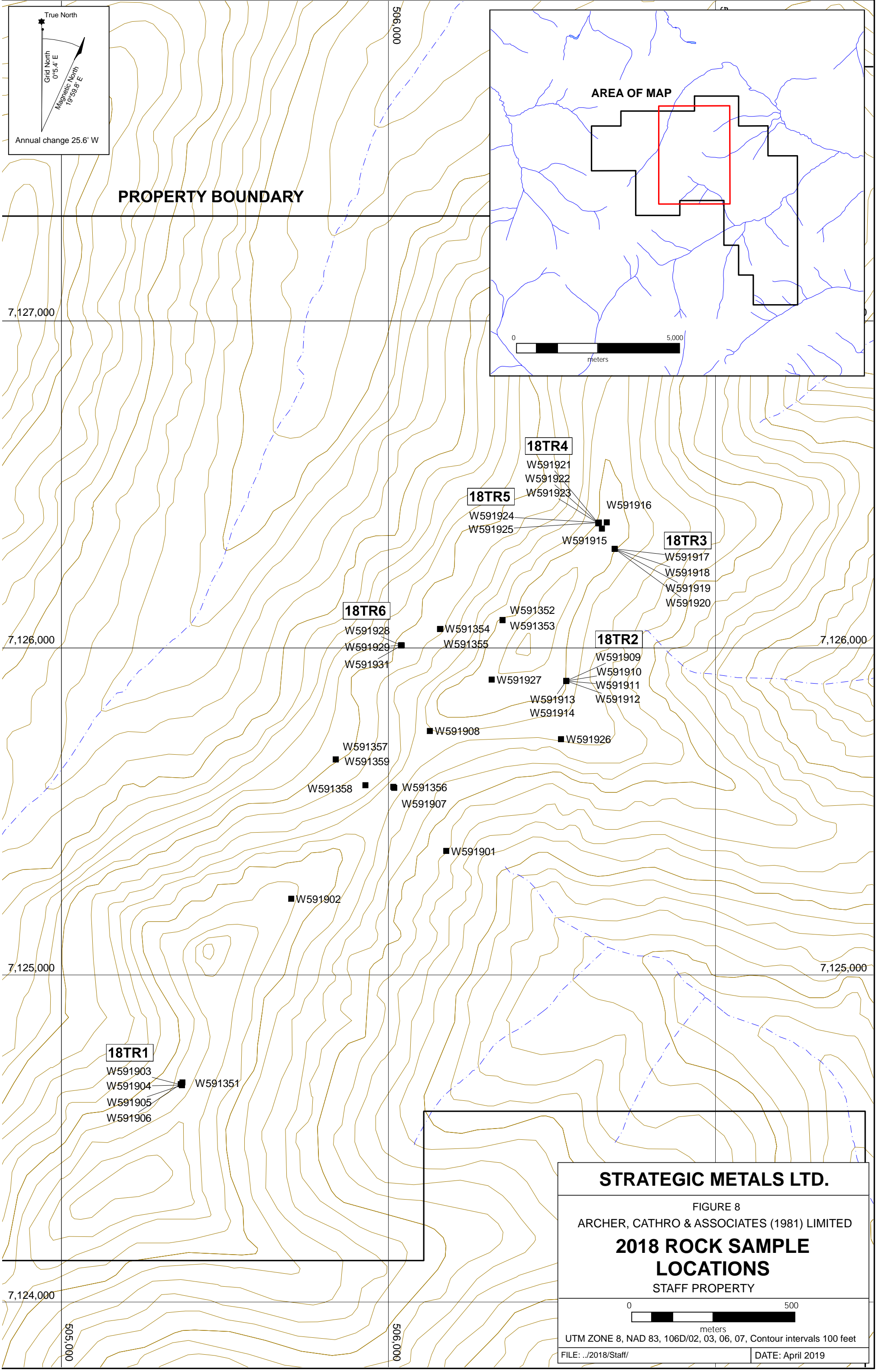
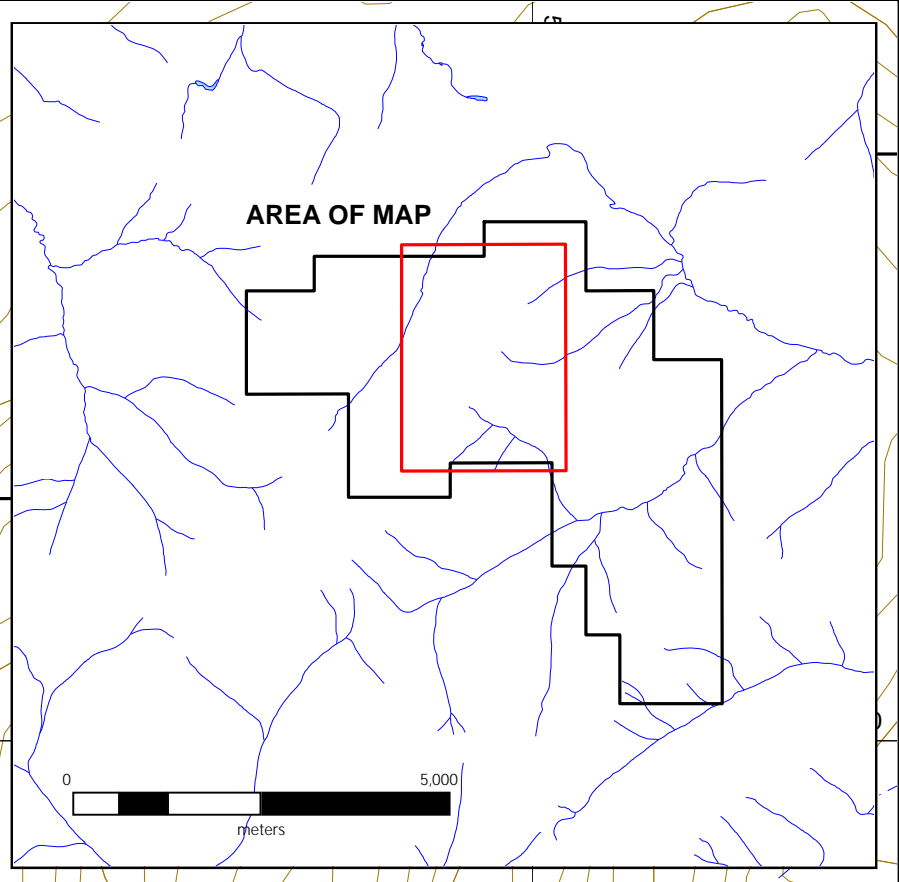
STAFF PROPERTY

0 100  
 meters

UTM ZONE 8, NAD 83, 106D/02, 03, 06, 07, Contour intervals 100 feet  
 FILE: .../Staff/Figures/F\_7-South\_Detailed\_Geology.wor DATE: February 2016



**PROPERTY BOUNDARY**



**18TR1**  
W591903  
W591904  
W591905  
W591906

W591351

**18TR6**  
W591928  
W591929  
W591931

**18TR5**  
W591924  
W591925

**18TR4**  
W591921  
W591922  
W591923

**18TR3**  
W591917  
W591918  
W591919  
W591920

**18TR2**  
W591909  
W591910  
W591911  
W591912

**STRATEGIC METALS LTD.**

FIGURE 8  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

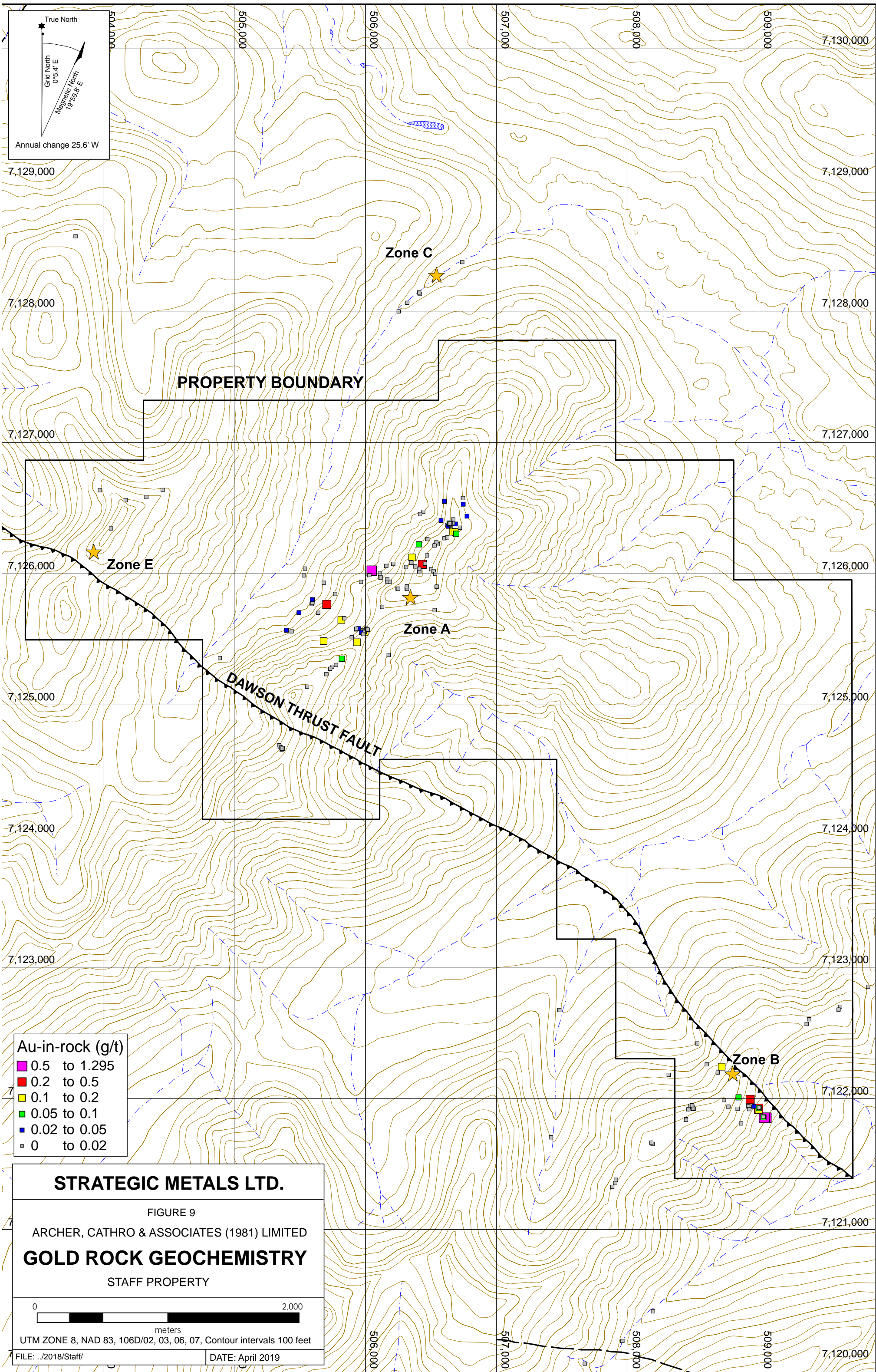
**2018 ROCK SAMPLE LOCATIONS**

STAFF PROPERTY

0 500  
meters

UTM ZONE 8, NAD 83, 106D/02, 03, 06, 07, Contour intervals 100 feet

FILE: ../2018/Staff/ DATE: April 2019



True North  
 Grid North 0°5.4' E  
 Magnetic North 19°59.8' E  
 Annual change 25.6' W

**PROPERTY BOUNDARY**

**Zone C**

**Zone E**

**Zone A**

**DAWSON THRUST FAULT**

**Zone B**

**Au-in-rock (g/t)**

■	0.5 to 1.295
■	0.2 to 0.5
■	0.1 to 0.2
■	0.05 to 0.1
■	0.02 to 0.05
□	0 to 0.02

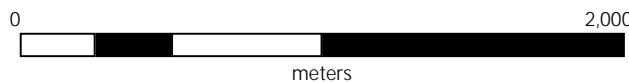
**STRATEGIC METALS LTD.**

FIGURE 9

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**GOLD ROCK GEOCHEMISTRY**

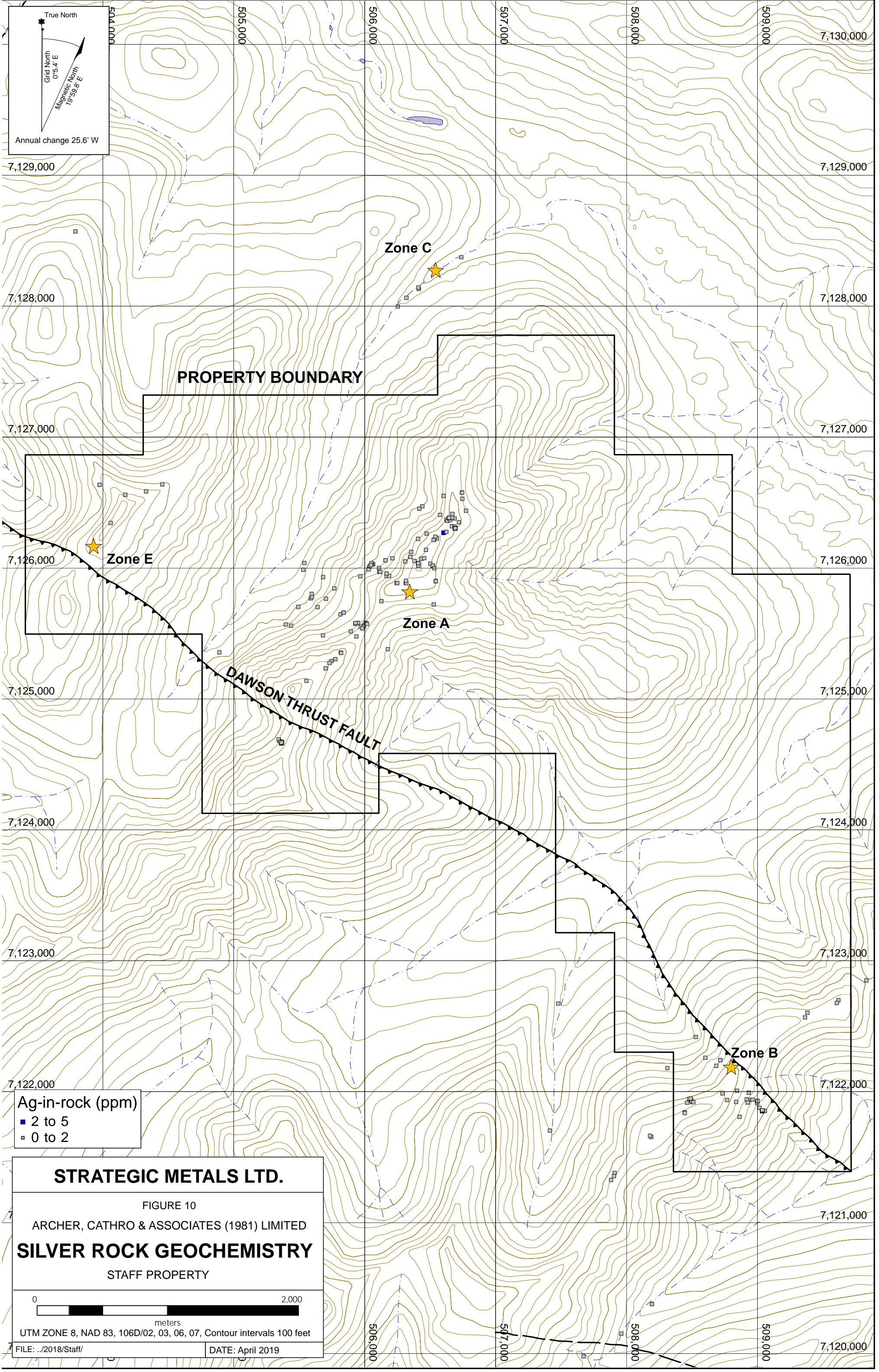
STAFF PROPERTY



UTM ZONE 8, NAD 83, 106D/02, 03, 06, 07, Contour intervals 100 feet

FILE: ../2018/Staff/

DATE: April 2019



**PROPERTY BOUNDARY**

**Zone C**

**Zone E**

**Zone A**

**DAWSON THRUST FAULT**

**Zone B**

**Ag-in-rock (ppm)**  
 ■ 2 to 5  
 □ 0 to 2

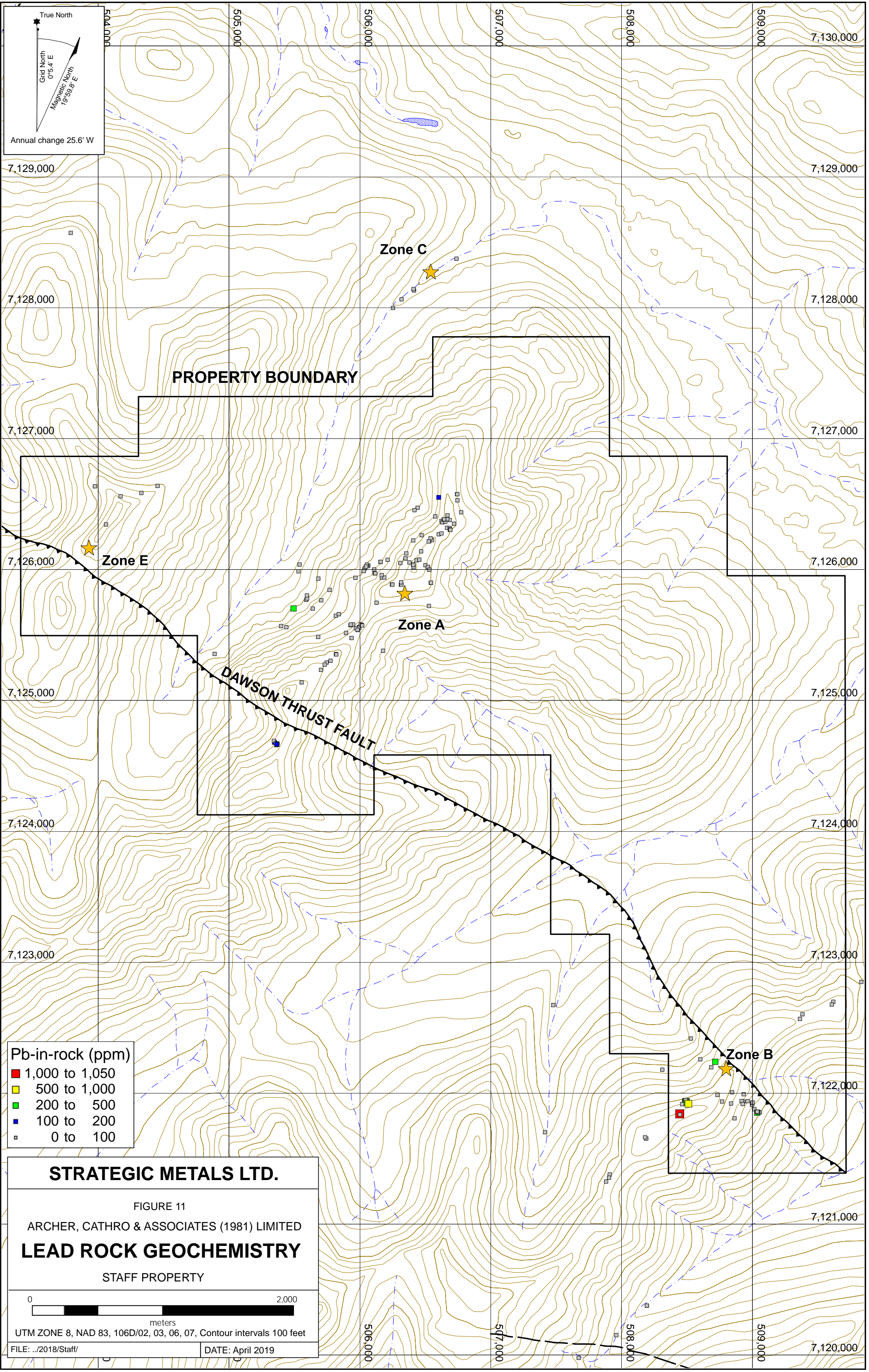
**STRATEGIC METALS LTD.**

FIGURE 10  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**SILVER ROCK GEOCHEMISTRY**  
 STAFF PROPERTY

0 2,000  
 meters

UTM ZONE 8, NAD 83, 106D/02, 03, 06, 07, Contour intervals 100 feet

FILE: ../2018/Staff/ DATE: April 2019



True North  
 Grid North 0°5.4' E  
 Magnetic North 19°59.8' E  
 Annual change 25.6' W

**PROPERTY BOUNDARY**

**Zone C**

**Zone E**

**Zone A**

**DAWSON THRUST FAULT**

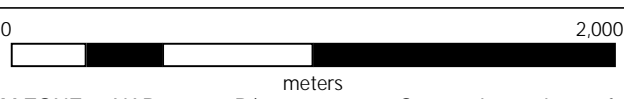
**Zone B**

**Pb-in-rock (ppm)**

■	1,000 to 1,050
■	500 to 1,000
■	200 to 500
■	100 to 200
□	0 to 100

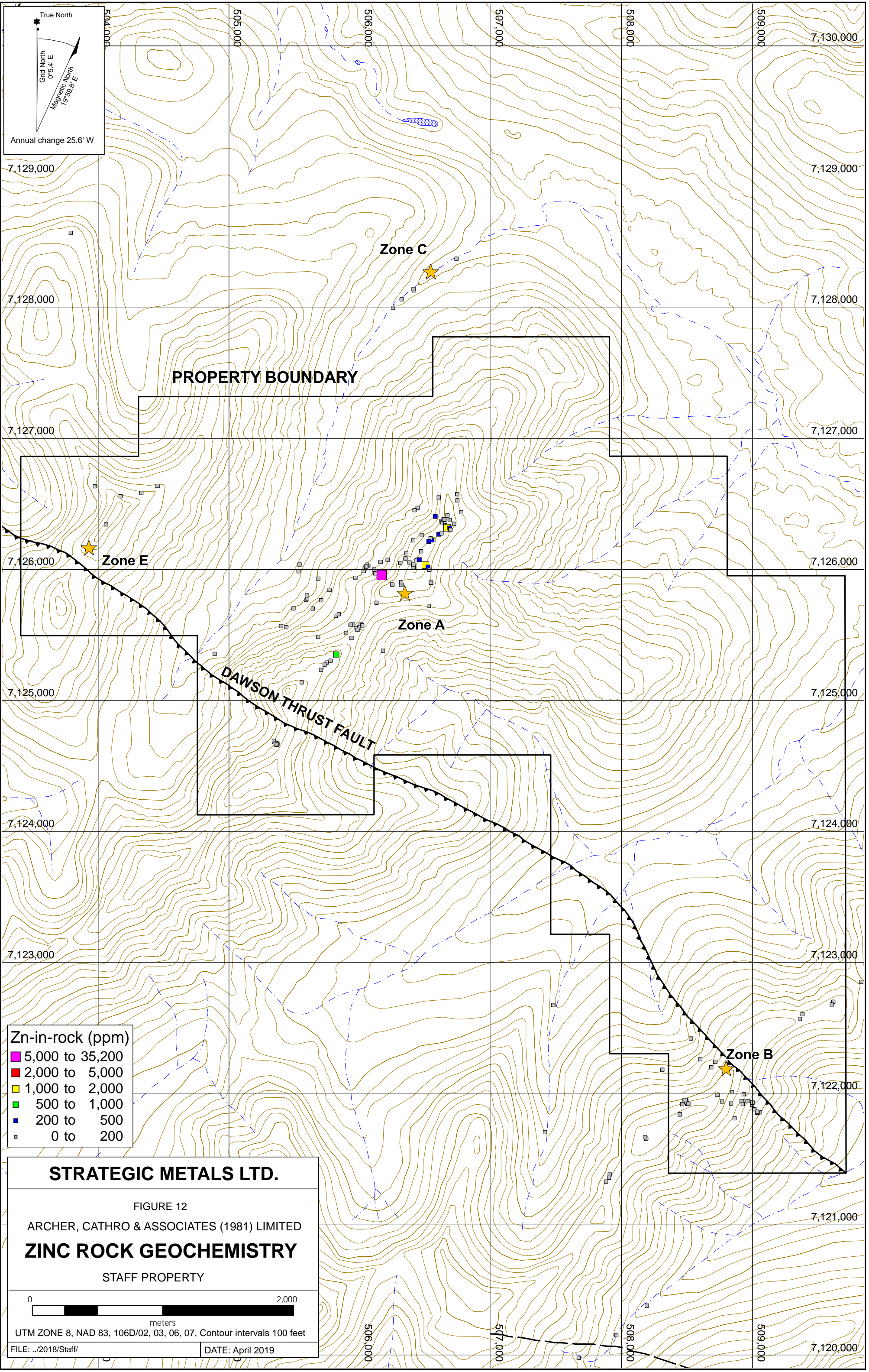
**STRATEGIC METALS LTD.**

FIGURE 11  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**LEAD ROCK GEOCHEMISTRY**  
 STAFF PROPERTY



UTM ZONE 8, NAD 83, 106D/02, 03, 06, 07, Contour intervals 100 feet  
 FILE: ../2018/Staff/ DATE: April 2019





True North  
 Grid North 0°5.4' E  
 Magnetic North 19°59.8' E  
 Annual change 25.6' W

**PROPERTY BOUNDARY**

**Zone C**

**Zone E**

**Zone A**

**DAWSON THRUST FAULT**

**Zone B**

Zn-in-rock (ppm)	
<span style="color: magenta;">■</span>	5,000 to 35,200
<span style="color: red;">■</span>	2,000 to 5,000
<span style="color: yellow;">■</span>	1,000 to 2,000
<span style="color: green;">■</span>	500 to 1,000
<span style="color: blue;">■</span>	200 to 500
<span style="color: grey;">■</span>	0 to 200

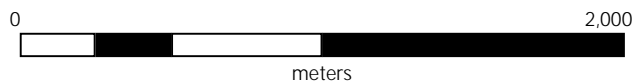
**STRATEGIC METALS LTD.**

FIGURE 12

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**ZINC ROCK GEOCHEMISTRY**

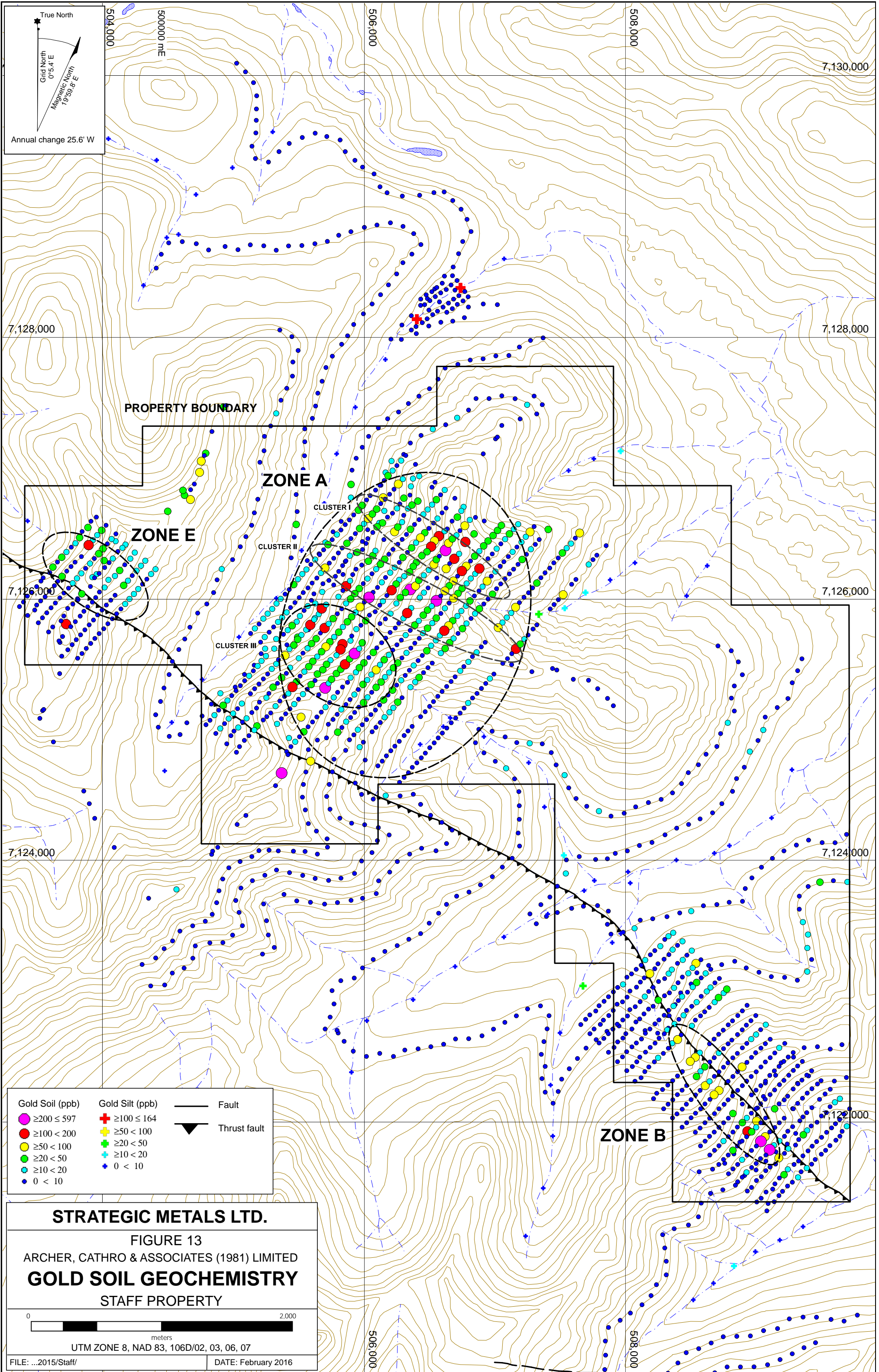
STAFF PROPERTY

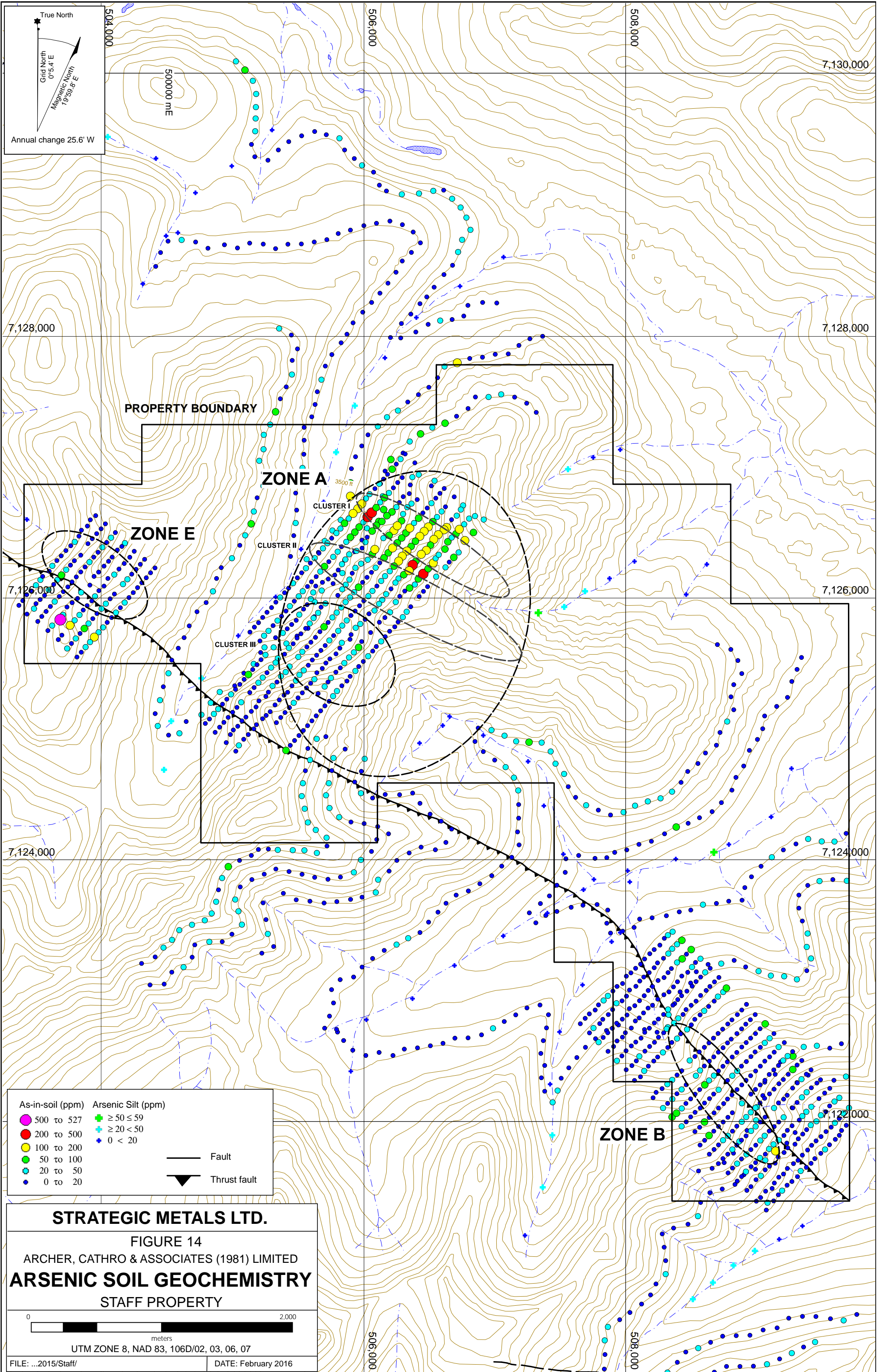


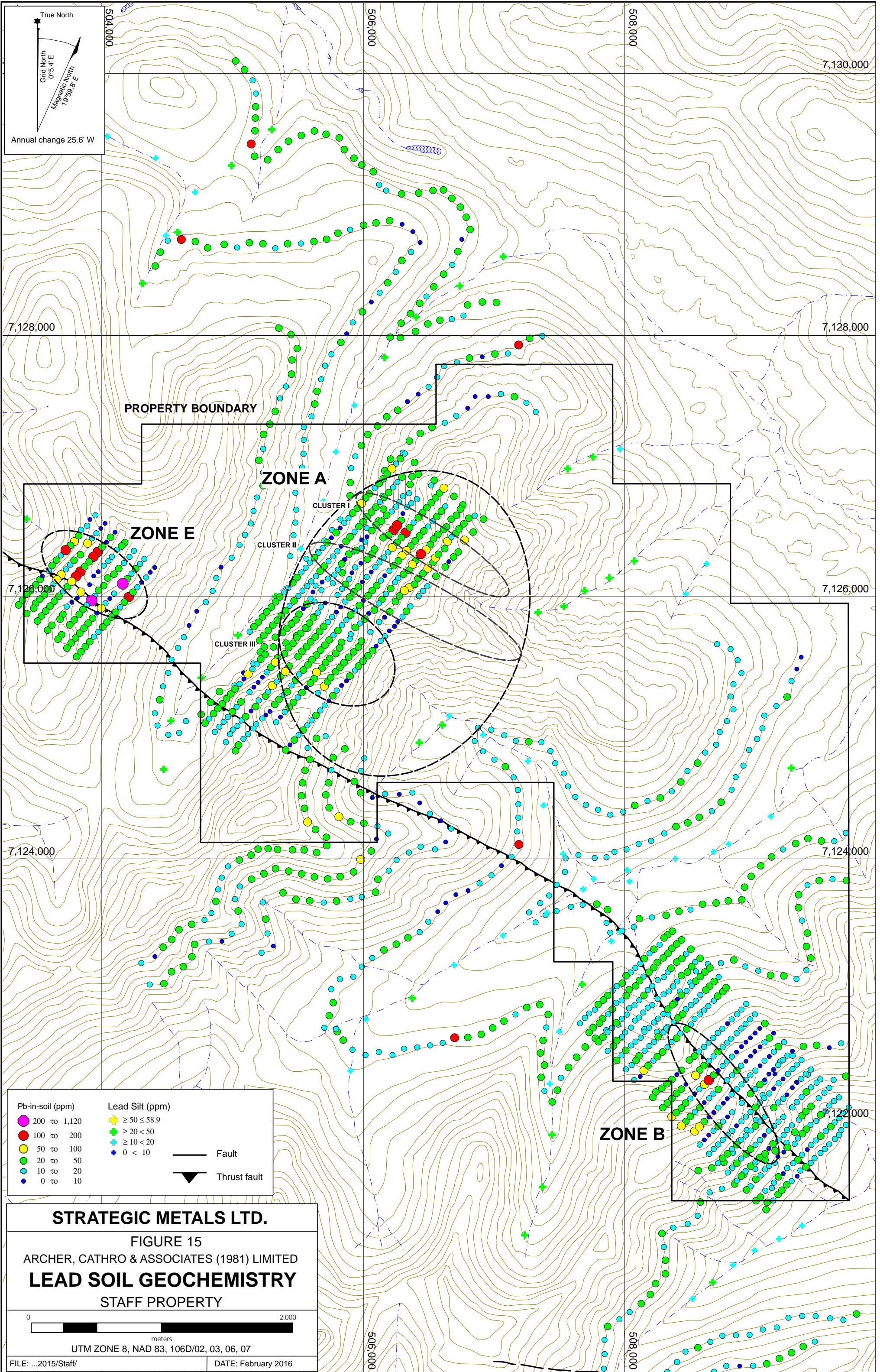
UTM ZONE 8, NAD 83, 106D/02, 03, 06, 07, Contour intervals 100 feet

FILE: ../2018/Staff/

DATE: April 2019







True North  
 Grid North 0°5.4' E  
 Magnetic North 19°58.8' E  
 Annual change 25.6' W

PROPERTY BOUNDARY

ZONE A

ZONE E

CLUSTER I

CLUSTER II

CLUSTER III

ZONE B

Pb-in-soil (ppm)	Lead Silt (ppm)	— Fault
200 to 1,120	≥ 50 ≤ 58.9	▲ Thrust fault
100 to 200	≥ 20 < 50	
50 to 100	≥ 10 < 20	
20 to 50	0 < 10	
10 to 20		
0 to 10		

**STRATEGIC METALS LTD.**  
 FIGURE 15  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**LEAD SOIL GEOCHEMISTRY**  
 STAFF PROPERTY

0 2,000  
 meters

UTM ZONE 8, NAD 83, 106D/02, 03, 06, 07

FILE: ...2015/Staff/ DATE: February 2016