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ASSESSMENT REPORT

describing

SOIL GEOCHEMICAL SAMPLING

at the

HARKEN PROPERTY

Harken 1-22 YC71854-YC71875

NTS 105 I/12

Latitude 62°38'N; Longitude 129°52'W

in the

Watson Lake Mining District
Yukon Territory

Field work performed on August 22, 2012

prepared by

Archer, Cathro & Associates (1981) Limited

for

STRATEGIC METALS LTD.

by

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and
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April 2013

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INTRODUCTION

The Harken property hosts soil geochemical anomalies indicative of NiMo-type stratiform zinc-nickel-molybdenum mineralization and Carlin-type gold deposits. The 2012 exploration program focused on the property's Carlin-type potential, due to recent major gold discoveries of this type made by ATAC Resources Ltd. and Anthill Resources Ltd. approximately 230 km to the northwest. The Harken property is located in east-central Yukon and is wholly owned by Strategic Metals Ltd.

This report describes soil geochemical sampling that was conducted on August 22, 2012 by Archer, Cathro & Associates (1981) Limited on behalf of Strategic Metals. The authors' Statements of Qualifications are located in Appendix I, and the statement of expenditures is in Appendix II.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Harken property is located in east-central Yukon, about 18 km west of the Yukon Territory – Northwest Territories border, at a latitude 62°38' north and 129°52' west on NTS map sheet 105 I/12 (Figure 1).

The property consists of 22 contiguous mineral claims that cover an area of approximately 450 ha (4.5 km²). The claims are registered with the Watson Lake Mining Recorder in the name of Archer Cathro, which holds them in trust for Strategic Metals. Claim registration data are listed below, while the locations of individual claims are shown on Figure 2.

<u>Claim Name</u>	<u>Grant Numbers</u>	<u>Expiry Date*</u>
Harken 1-22	YC71854 - YC71875	March 6, 2018

*Expiry date includes 2012 work which has been filed for assessment credit but not yet accepted.

In 2012, access to and from the property was provided by a Hughes 500D helicopter operated by Kluane Airways Ltd. from the Inconnu Fishing Lodge on McEvoy Lake, which is located 95 km to the south. The property lies about 45 km southeast of the North Canol Road. The nearest supply centre is the community of Ross River, located approximately 150 km southwest of the claims.

HISTORY AND PREVIOUS WORK

The Harken target was first staked as the Tam claims in 1972, by Welcome North Mines Ltd., in response to discoveries of significant lead-zinc deposits within the region (notably the Howard's Pass deposit). The claims were subsequently optioned to Selwyn Project (Dynasty Explorations Ltd., Cima Resources Ltd., Precambrian Shield Resources Ltd. and Numac Oil and Gas Ltd.), which conducted programs of geochemical sampling, and geological mapping between 1972 and 1974. The claims were then allowed to lapse, in part due to low lead geochemical response (Deklerk and Traynor, 2005).

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FIGURE 1

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY LOCATION
HARKEN PROPERTY

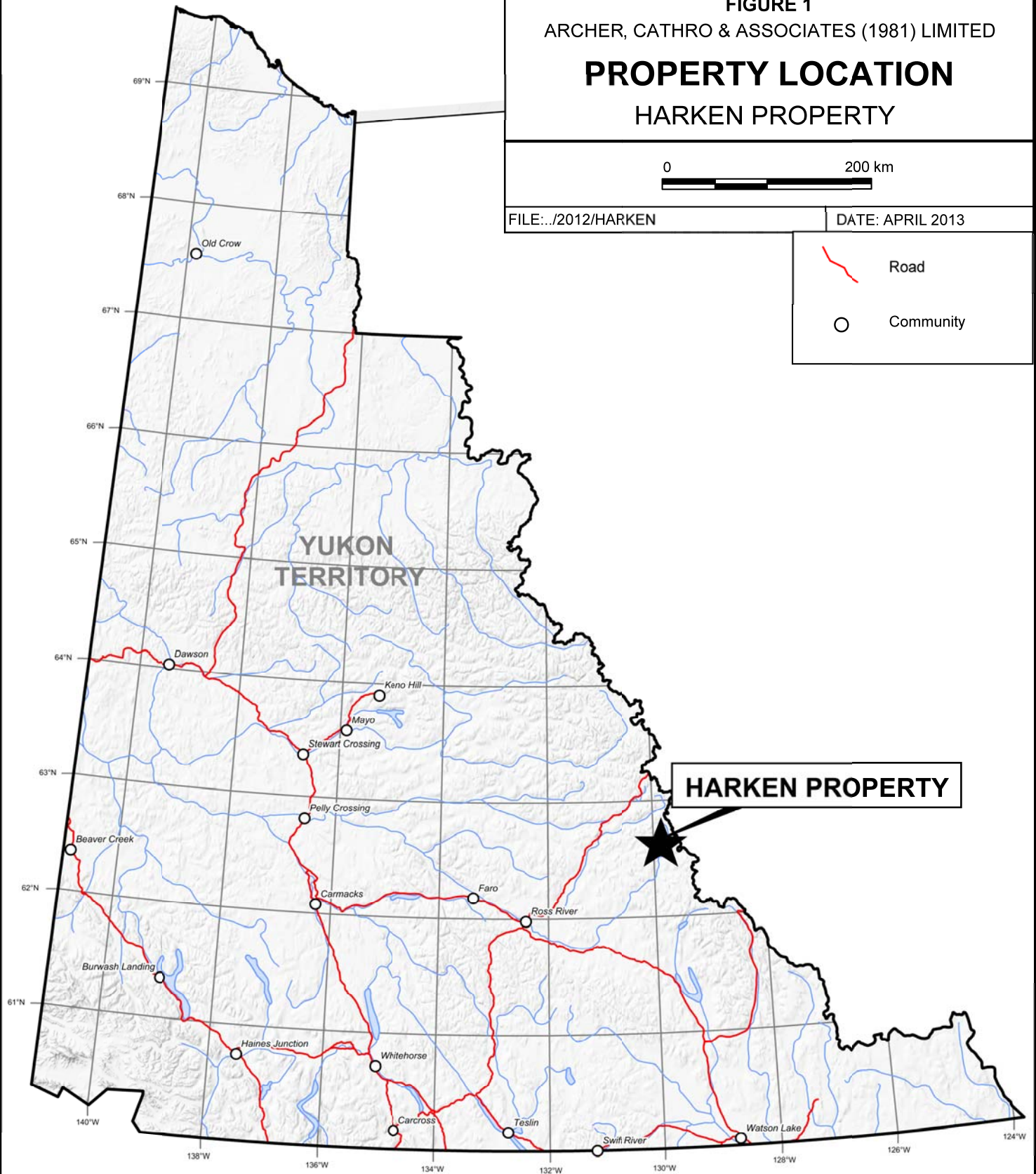
0 200 km

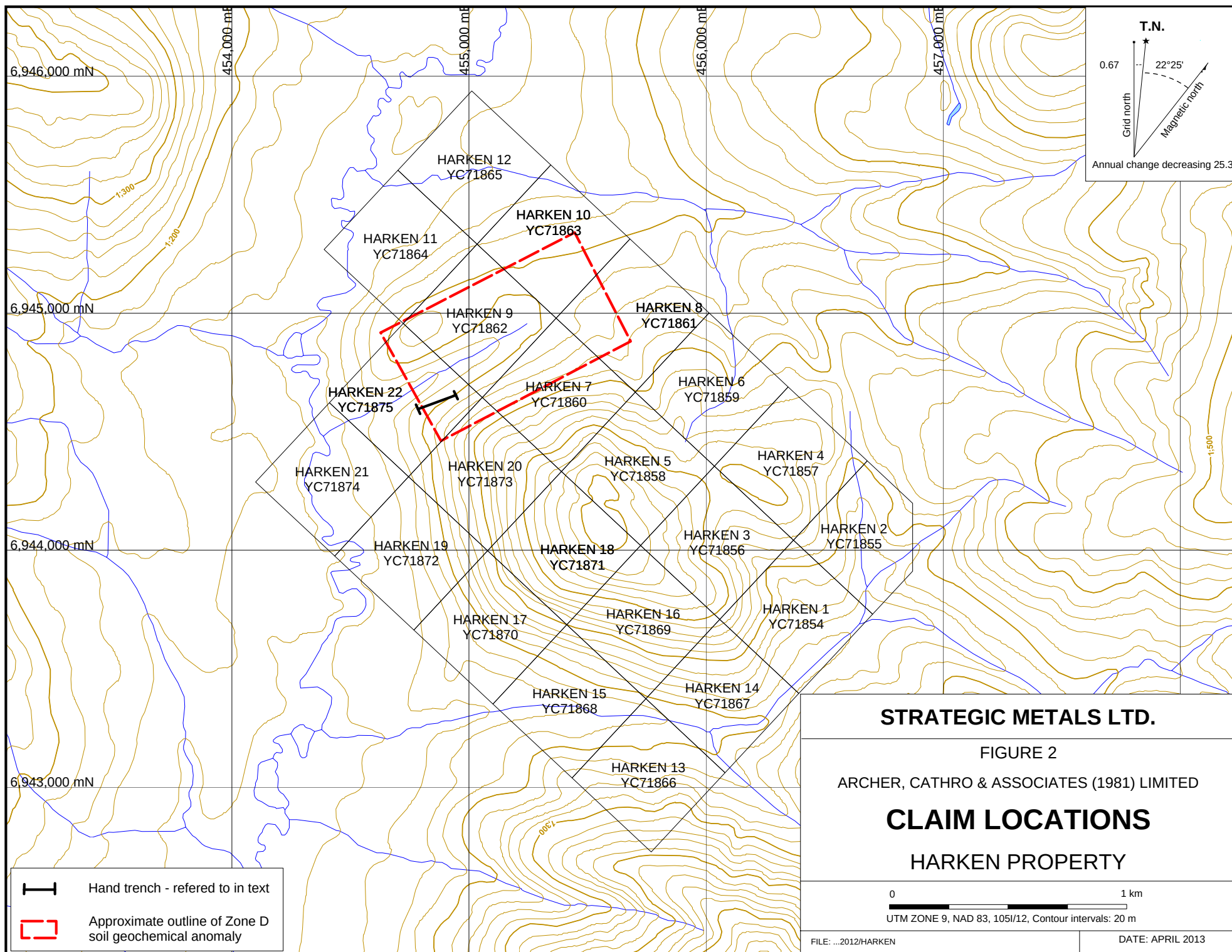
FILE:../2012/HARKEN

DATE: APRIL 2013

-  Road
-  Community

HARKEN PROPERTY





A number of other operators staked claims nearby in 1972 and 1973, including the Pos, Fos, Sam and Mtx claims, all located about 6 km southeast of the Tam claims. Exploration programs for each of these properties drew similar conclusions to those drawn at Tam; zinc-in-soil geochemistry was elevated, however, the lead geochemical response was low and no sulphide mineralization was observed (Deklerk and Traynor, 2005). The geochemical anomalies were attributed to high backgrounds in metaliferous Road River Group shales (Carne, 1991a) and these claims were also allowed to expire.

Exploration interest in the Harken property area was renewed after the 1981 discovery of Lower Devonian sedimentary exhalative zinc-nickel-molybdenum (NiMo-type) deposit in north-central Yukon (Figure 3). The Nick deposit lies within sulphide-bearing, bituminous limestone that intermittently occurs at the contact between 'starved basin' calcareous or dolomitic shale and mudstone stratigraphy near the contact between the Ordovician to Lower Devonian Road River Group and overlying siliclastic turbidite and debris flow deposits of the Middle Devonian to Mississippian Earn Group (Carne, 1991b).

In 1982 and 1984 the Geological Survey of Canada (GSC) conducted stream sediment and soil sampling in the Harken area. This resulted in the discovery of a large zone of mound-forming tufa with secondary zinc mineralization (smithsonite, zincian calcite and hemimorphite). Analysis of this material ranges up to 18.5% Zn and 0.9% Ni. The source was attributed to hydromorphic dispersion from a nearby undiscovered base metal deposit (Carne, 1991a).

In the spring of 1990 NDU Resources Ltd. staked the Falcon claims to cover anomalous GSC samples in local drainages (Carne, 1991a). Additional claims were staked as part of a 1991 exploration program that was funded by Falconbridge Ltd. under an option agreement with NDU Resources. The Falcon claims comprised an east-west trending contiguous block, roughly 15 km long, which covered the majority of the current Harken claims. Falconbridge collected 478 soil, silt and rock samples as part of its 1991 field program, and identified seven NiMo-type soil anomalies on the property. The multi-element geochemical response was attributed to a favourable horizon at a Lower Devonian contact between Road River Group and Earn Group sedimentary rocks. Zone D had the strongest geochemical response and is located on the Harken property (Figure 2). Peak values from soil samples in Zone D were: 1100 ppm nickel, 4710 ppm barium, 1105 ppm copper, 105 ppm arsenic, 984 ppm vanadium, 6.0 ppm silver, 69 ppm molybdenum, and greater than 1% zinc (Carne, 1991b).

In the summer of 1992, Falconbridge conducted a field program consisting of detailed geological mapping and rock and soil geochemical sampling. A total of 1342 soil samples and 97 rock samples were collected from areas of the property that lie outside of the Harken claims. Falconbridge identified a 1.4 kilometre long soil anomaly southeast of the Harken property, containing up to 2600 ppm nickel and 3.1% zinc, coincident with the Road River Group – Earn Group stratigraphic contact. Rock geochemical analysis indicated that Road River Group shales had only background to weakly anomalous responses for zinc and nickel (Edwards, 1992).

In 1994, NDU Resources excavated four hand trenches on the Falcon claims, but each trench failed to reach bedrock due to frozen ground. Soil samples were collected along the floors of all four trenches. The most significant geochemical response was from the trench at Zone D, which

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FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

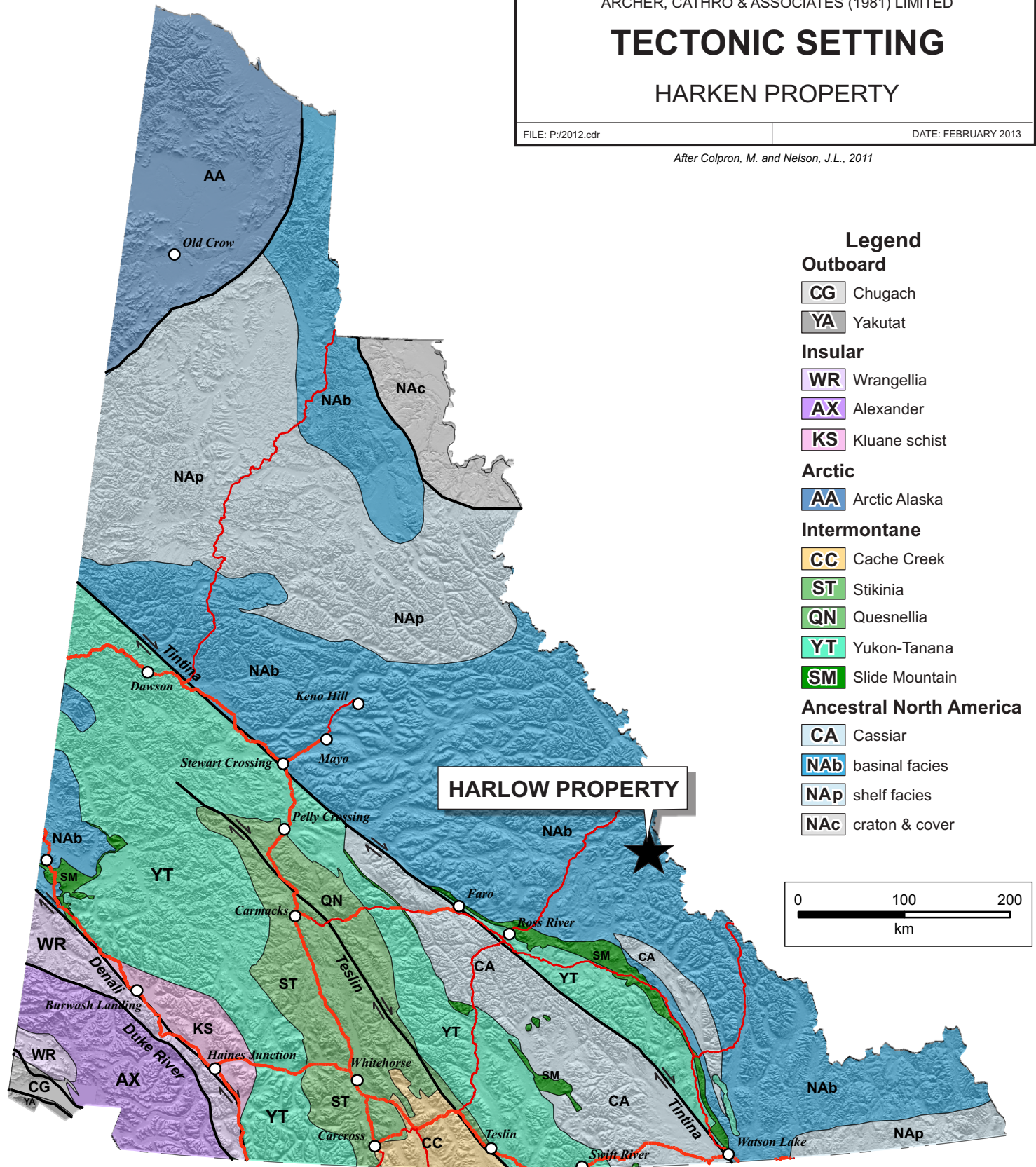
TECTONIC SETTING

HARKEN PROPERTY

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DATE: FEBRUARY 2013

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



is located on the Harken property. This trench was oriented perpendicular to the favourable contact between Road River Group and Earn Group. Results included values of 4190 ppm zinc, 729 ppm nickel, and 378 ppm copper (Carne, 1995). Following the 1994 field season, two blocks totaling thirty claims that protected the most significant prospects were kept in good standing, while the remaining 136 claims were allowed to lapse (Gish, 1999).

In March 1998, NDU Resources optioned the Falcon property to Expatriate Resources Ltd., before NDU Resources merged with United Keno Hill Mines Ltd. Expatriate's 1998 exploration program consisted of re-excavating the Zone D trench in an attempt to reach bedrock and expose the source of the anomalous geochemistry. Bedrock was intermittently exposed; but the favourable contact was not reached because it was covered by frozen overburden exceeding 1.5 m in depth. Exposed bedrock in the trench was mapped and chip sampled at 2.5 metre intervals, but sampling failed to reproduce the previously elevated results, returning near background values for all elements (Gish, 1999). The claims were subsequently allowed to expire.

In 2007 the Harken property was staked by Strategic Metals Ltd. in order to cover the Zone D anomaly of the former Falcon claim block. The Harken property was one of five projects Strategic Metals explored that year for stratiform NiMo-type mineralization. The field program at Harken was limited to a single day of geological mapping, soil sampling and prospecting. Grid soil sampling was undertaken in the area of the historical geochemical anomalies and confirmed the previous results. The best geochemical values were obtained at, or along strike of, a barite horizon within the Earn Group. Peak values were 14.2% zinc, 1200 ppm nickel, 5.9 ppm silver, 91.6 ppm molybdenum, 79.3 ppm arsenic, 55.2 ppm antimony 3.2 ppm thallium, and 1.12 ppb mercury (Gregory, 2008). Results from the 2007 program are discussed in more detail in the Soil Geochemistry section below.

GEOMORPHOLOGY

The Harken property covers a rolling hill within the Selwyn Mountains. Creeks on the property drain into the Pelly River, which is part of the Yukon River watershed.

Local elevations range from 1130 m above sea level in creek valleys to a maximum of 1515 m on top of the hill. Topographic relief is moderate on the flanks of the hill and relatively gentle elsewhere.

The property is vegetated by thick stands of black spruce around the base of the hill and thickets of arctic black birch on the flanks and top.

REGIONAL GEOLOGY

The Harken property lies within Selwyn Basin (Figure 3), a tectonic element composed of deep water clastic sediments, chert and minor carbonate accumulated along the North American continental margin during Paleozoic time (Pigage, 2004).

In 1992, the GSC published a geological map of the Little Nahanni River map area (NTS 105I) at a 1:250,000 scale (Gordey, 1992). In 2003, Gordey and Makepeace incorporated this data as

part of a Yukon-wide geological compilation and updated the lithological names in the vicinity of the Harken property. Yukon Geological Survey maintains an on-line geological database, which is revised as new information become available (YGS, 2013). The following geological descriptions are based on the published data.

Stratigraphy in the region consists of an Upper Proterozoic to Permian package of clastic sedimentary rocks with lesser volcanic and carbonate units, which are locally blanketed by Quaternary sediments (Figure 4). Units comprising this package are described in Table I.

Table I – Lithological Units (YGS, 2013)

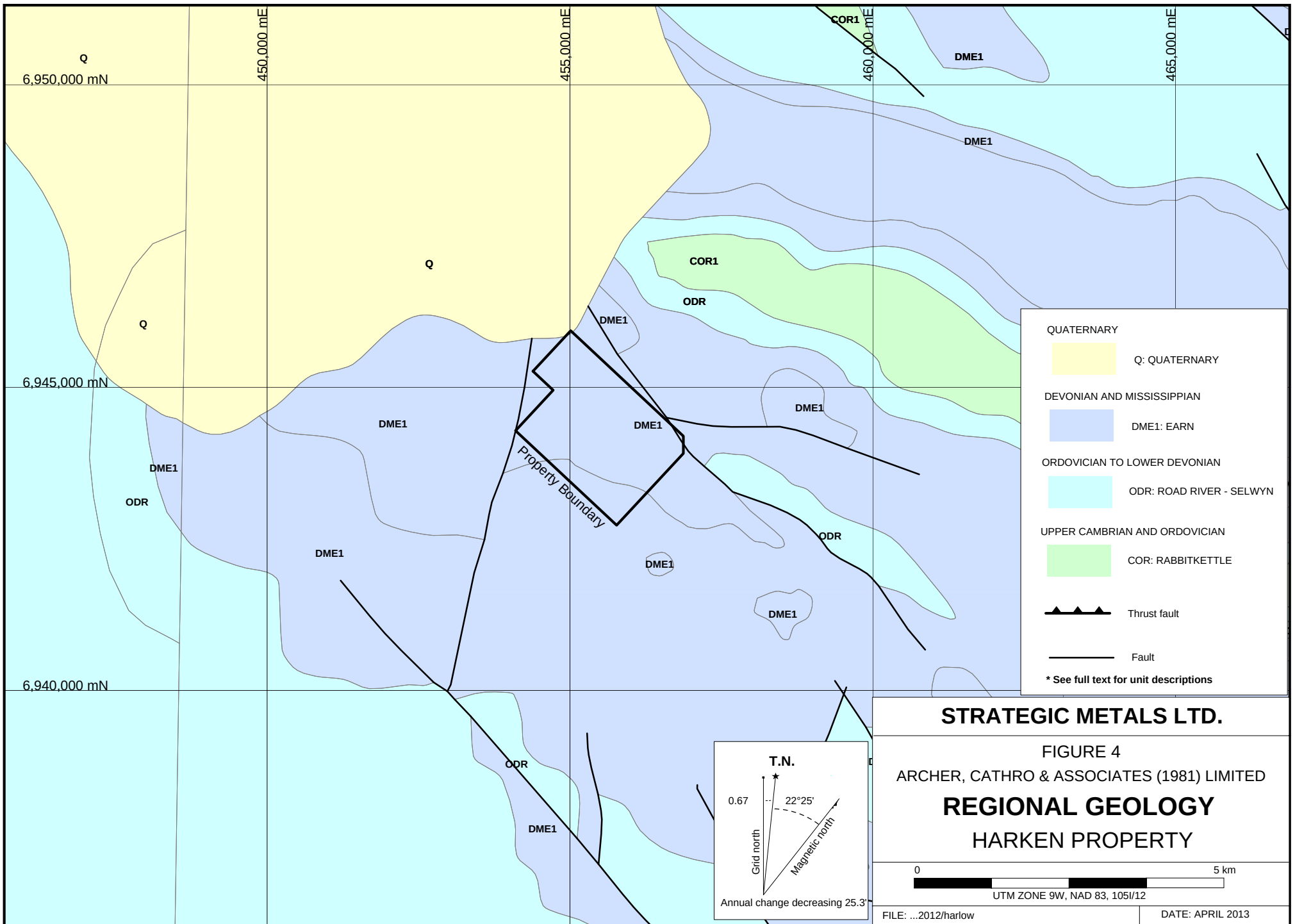
Unit Name	Map Name	Age	Description
Quaternary	Q	Quaternary	Unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvatile silt, sand, and gravel; in part with cover of soil and organic deposits.
Earn Group – Portrait Lake Formation	DME1	Devonian and Mississippian	Thin bedded, laminated 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.
Road River Group	ODR	Ordovician to Lower Devonian	Black shale and chert overlain by orange siltstone or buff platy limestone.
Rabbitkettle Formation	COR1	Upper Cambrian to Ordovician	Thin bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite; limestone intraclast breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia, and tuff.

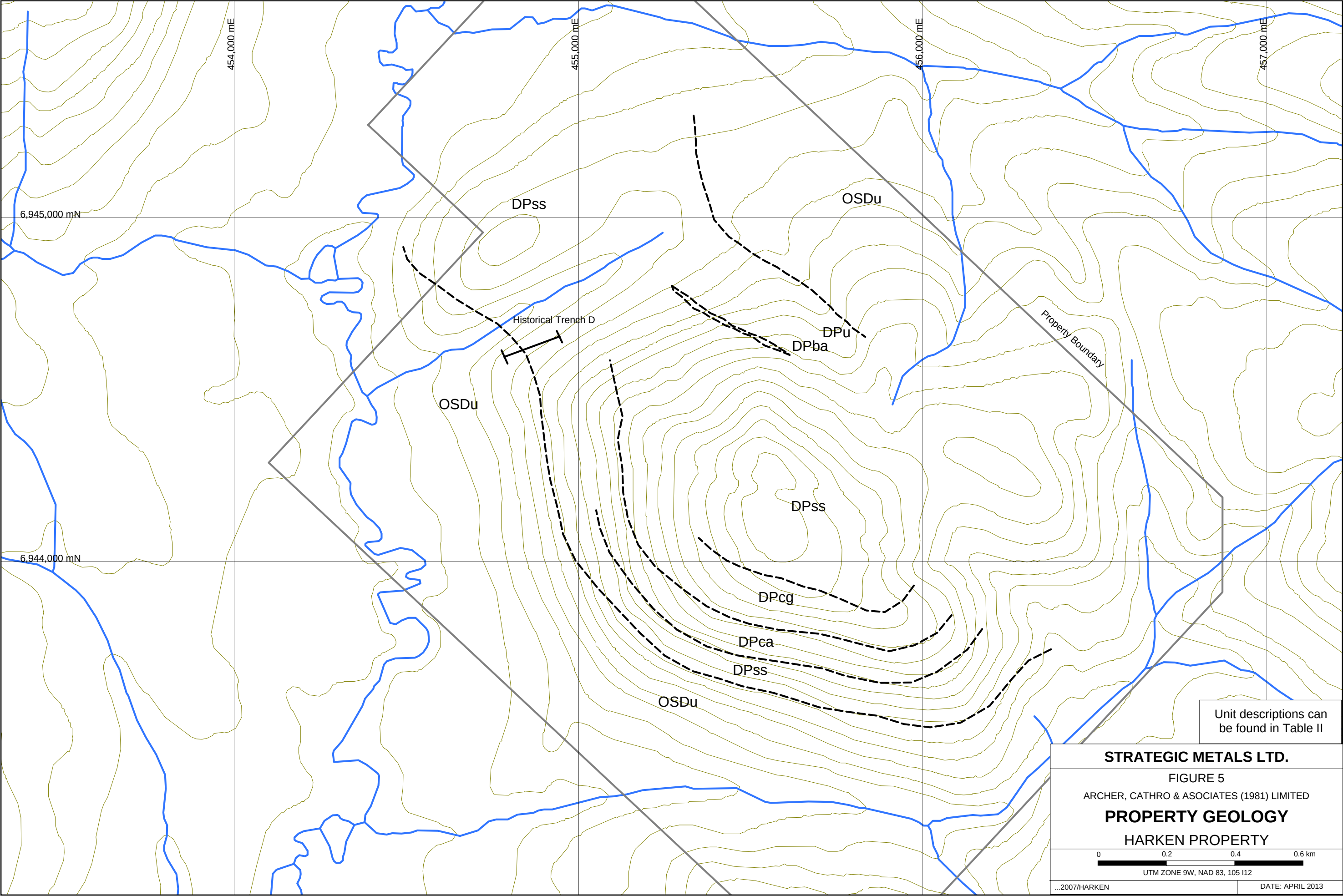
Geology of the Little Nahanni Lake map sheet is characterized by southeast trending regional structures, but smaller-scale, northeasterly striking faults have also been identified. The property is all mapped as Earn Group on regional-scale maps, but a series of southeast trending, upright to slightly overturned folds expose Road River Group and Rabbitkettle Formation sedimentary rock to the east and northeast. Thick quaternary cover fills valley bottoms and lowlands, northwest of the claims.

The property lies within an area of Selwyn Basin that has been cut by numerous Mid-Cretaceous Selwyn Suite intrusive bodies. The nearest mapped pluton lies 13 km to the northwest.

PROPERTY GEOLOGY

Property-scale mapping done by NDU Resources (Carne 1991b) is illustrated on Figure 5. Table II provides descriptions of geological units shown on Figure 5.





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FIGURE 5	
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
PROPERTY GEOLOGY	
HARKEN PROPERTY	
00.20.40.6 km	
UTM ZONE 9W, NAD 83, 105 112	
...2007/HARKEN	DATE: APRIL 2013

Table II – Property-Scale Unit Descriptions

Group	Age	Map Name	Description
Lower Earn Group - Portrait Lake Formation	Middle to Upper Devonian	DPcg	Dark grey to black weathering chert pebble conglomerate and thick bedded chert with silty shale interbeds (debris flows and proximal turbidites).
	Middle to Upper Devonian	DPba	Dark grey laminated barite, nodular barite, barium carbonate lenses.
	Middle to Upper Devonian	DPca	Black chert, cherty argillite.
	Middle to Upper Devonian	DPss	Grey to rusty-grey weathering silty black shale.
	Middle to Upper Devonian	DPu	Undivided Earn Group.
Road River Group	Ordovician to Lower Devonian	OSDu	Undivided Road River Group.

The Harken property covers a package of sedimentary rocks that are assigned to Road River Group and Earn Group (Figure 5). The oldest rocks exposed on the Harken property are medium grey to buff, pyritic, dolomitic shales and carbonaceous mudstones of the Ordovician to Lower Devonian Road River Group (Gregory, 2008). Road River Group lithologies are generally recessive, and as a result there are few bedrock exposures of the unit on the property.

The remainder of the property comprises Middle to Upper Devonian Earn Group, fine to coarse grained siliciclastic rocks. The lowest member of the Earn Group conformably overlies Road River Group lithologies and consists of grey to rusty-grey weathering, silty black shale (DPss), interbedded with resistant black chert and cherty argillite beds 2 mm to 2 cm in thickness (DPca). Overlying this unit is a resistant, massive chert pebble conglomerate and thick bedded chert with silty shale interbeds (DPcg) that were deposited as debris flows and proximal facies turbidites (Carne, 1991b; Gregory, 2008). Dark grey, laminated, bedded barite (DPba) is exposed in the northern half of the property as a lens with a maximum thickness of about 30 m (Carne, 1991b).

SOIL GEOCHEMISTRY

Several operators have performed soil sampling within the area now covered by the Harken property. Many of the samples were only analysed for a limited suite of elements (zinc, lead, copper, silver and barium), and the maps on which they were plotted have limited control points,

which makes accurate digitization of the data impossible. As such, they have not been included in this report, but the general outline of the anomalous area is shown on Figure 2.

In 2012, Strategic Metals collected a total of 148 grid soil samples across the central part of the property. Most of these samples were collected stratigraphically above the Road River – Earn Group contact. The 2012 sample locations are illustrated on Figure 6, while 2007 and 2012 results for zinc, nickel, barium, molybdenum, copper, silver, gold, arsenic, thallium, antimony and mercury are illustrated thematically on Figures 7 to 18, respectively.

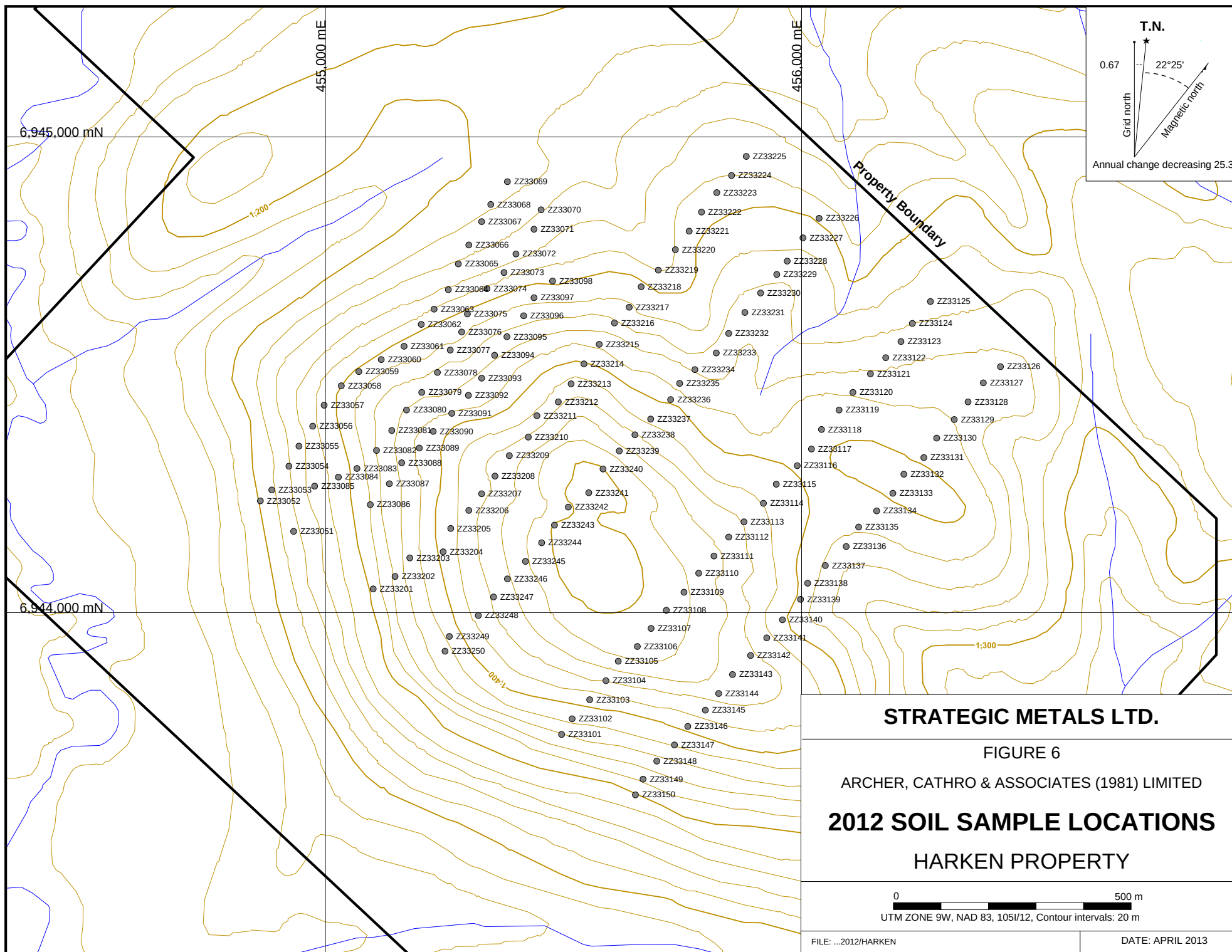
All 2012 soil sample locations were recorded using hand-held GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Soil samples were collected from 10 to 70 cm deep holes dug by mattock or hand-held auger. They were placed into individually pre-numbered Kraft paper bags.

The soil samples were sent to ALS Minerals in Whitehorse, Yukon, where they were dried, screened to -180 microns. The samples were then shipped to ALS Minerals in North Vancouver where they were analyzed for 51 elements using aqua regia digestion followed by inductively coupled plasma and mass spectroscopy techniques (ME-MS41). An additional 30 g charge was further analysed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21). Over limit zinc values were determined using aqua regia digestion with inductively coupled plasma and either atomic emission spectroscopy or atomic absorption spectroscopy (Zn-OG46). Certificates of Analysis are given in Appendix III, while anomalous thresholds values for the elements of interest are listed in Table III.

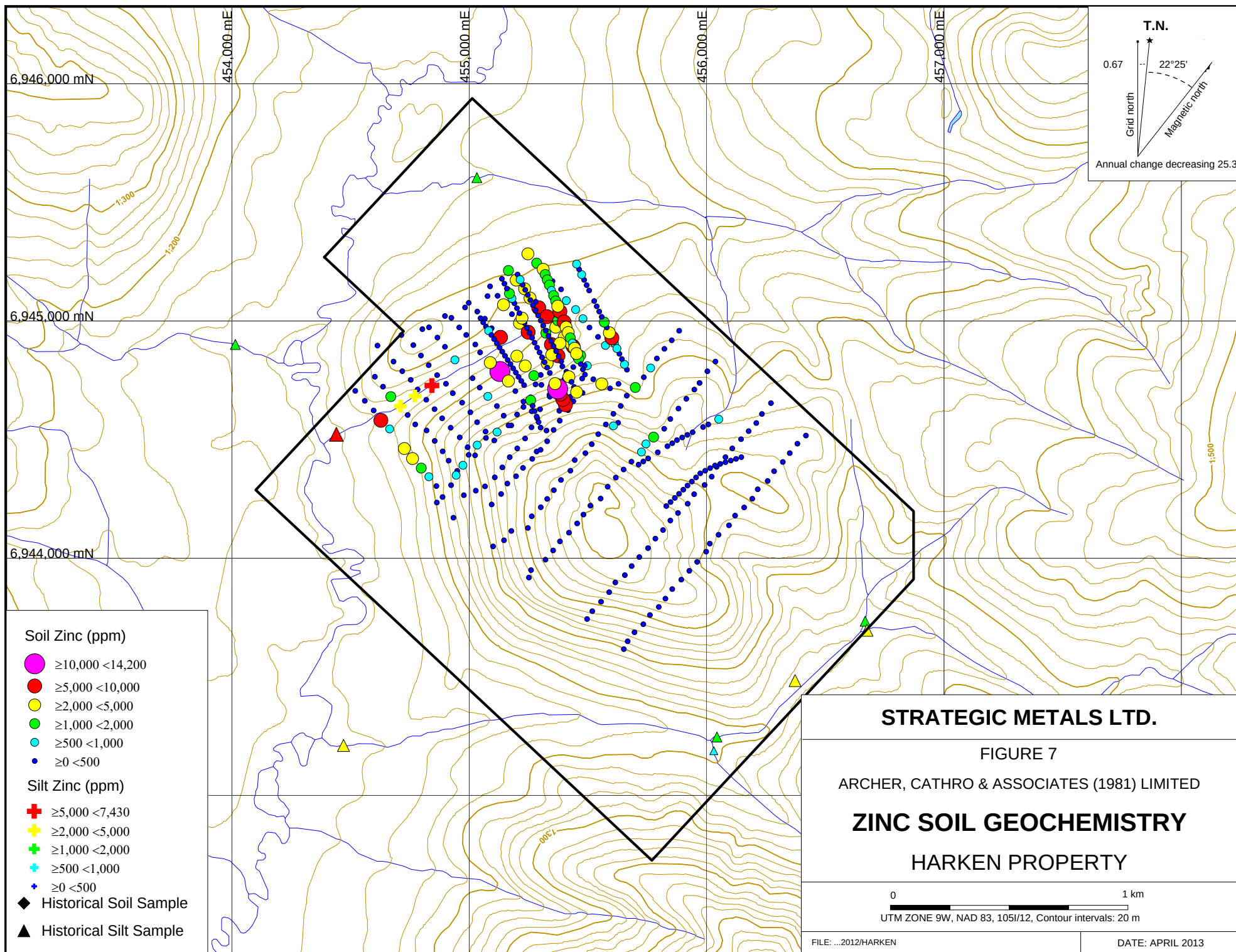
Table III – Threshold Values for Soil Samples

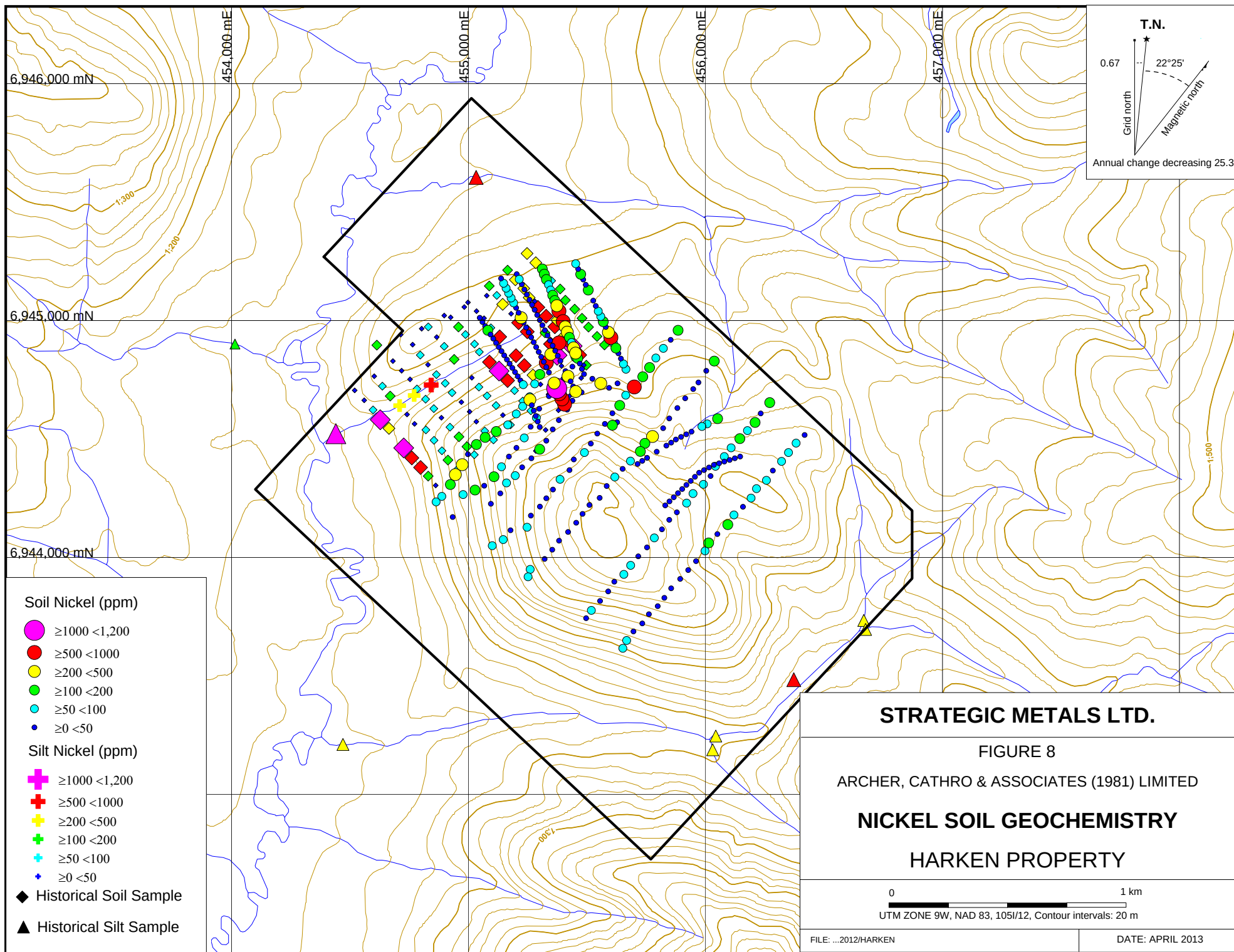
Element	Anomalous Thresholds			
	Weak	Moderate	Strong	Very Strong
Zinc (ppm)	$\geq 1000 < 2000$	$\geq 2000 < 5000$	$\geq 5000 < 10000$	≥ 10000
Nickel (ppm)	$\geq 100 < 200$	$\geq 200 < 500$	$\geq 500 < 1000$	≥ 1000
Barium (ppm)	$\geq 500 < 1000$	$\geq 1000 < 2000$	≥ 2000	-
Molybdenum (ppm)	$\geq 20 < 50$	$\geq 50 < 100$	$\geq 100 < 200$	-
Copper (ppm)	$\geq 100 < 200$	≥ 200	-	-
Vanadium (ppm)	$\geq 200 < 500$	$\geq 500 < 1000$	≥ 1000	-
Silver (ppm)	$\geq 2 < 5$	$\geq 5 < 10$	-	-
Gold (ppb)	$\geq 10 < 20$	$\geq 20 < 50$	-	-
Arsenic (ppm)	$\geq 50 < 100$	≥ 100	-	-
Thallium (ppm)	$\geq 1 < 2$	≥ 2	-	-
Antimony (ppm)	$\geq 10 < 20$	$< 20 < 50$	≥ 50	-
Mercury (ppb)	$\geq 1 < 2$	$\geq 2 < 5$	≥ 5	-

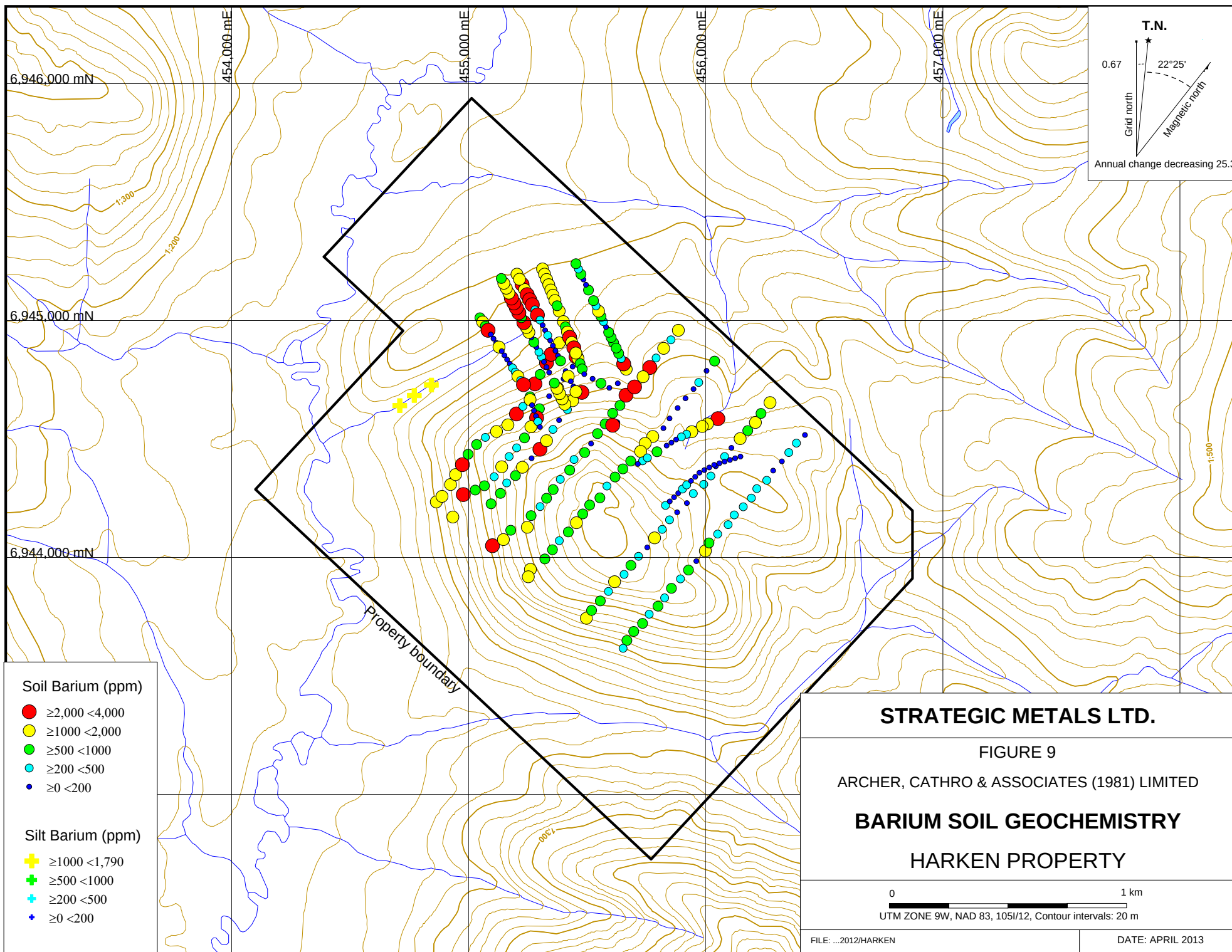
Only a few results from the 2012 exploration program exceeded moderate threshold values for the elements of interest. The highest values that are characteristic of a NiMo-type geochemical response occur near the surface trace of the Earn Group barite horizon. Soil samples collected in

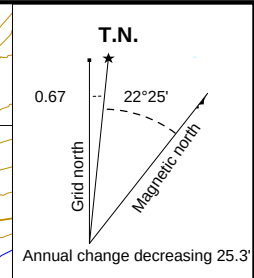
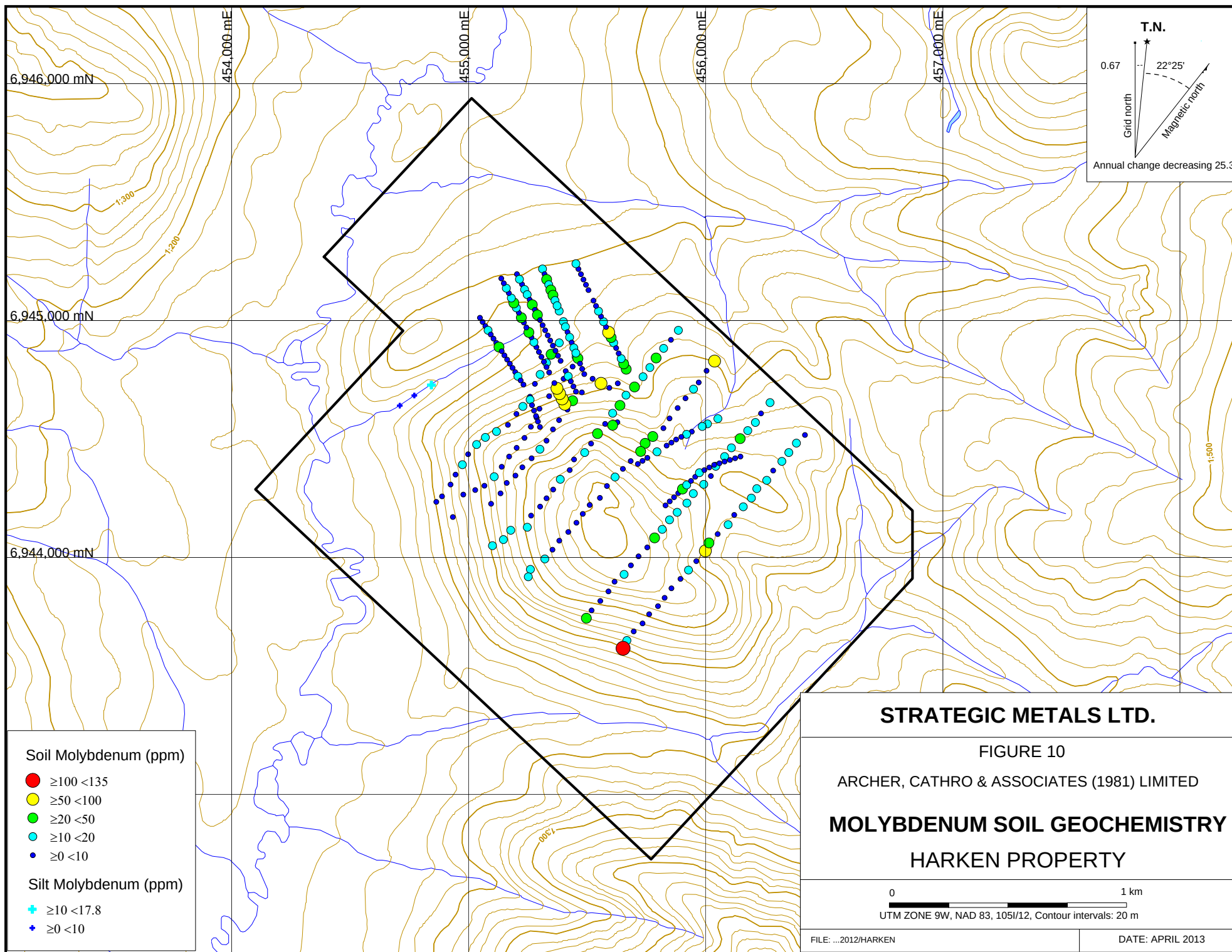


STRATEGIC METALS LTD.	
FIGURE 6	
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
2012 SOIL SAMPLE LOCATIONS	
HARKEN PROPERTY	
 UTM ZONE 9W, NAD 83, 105I/12, Contour intervals: 20 m	
FILE: ...2012/HARKEN	DATE: APRIL 2013









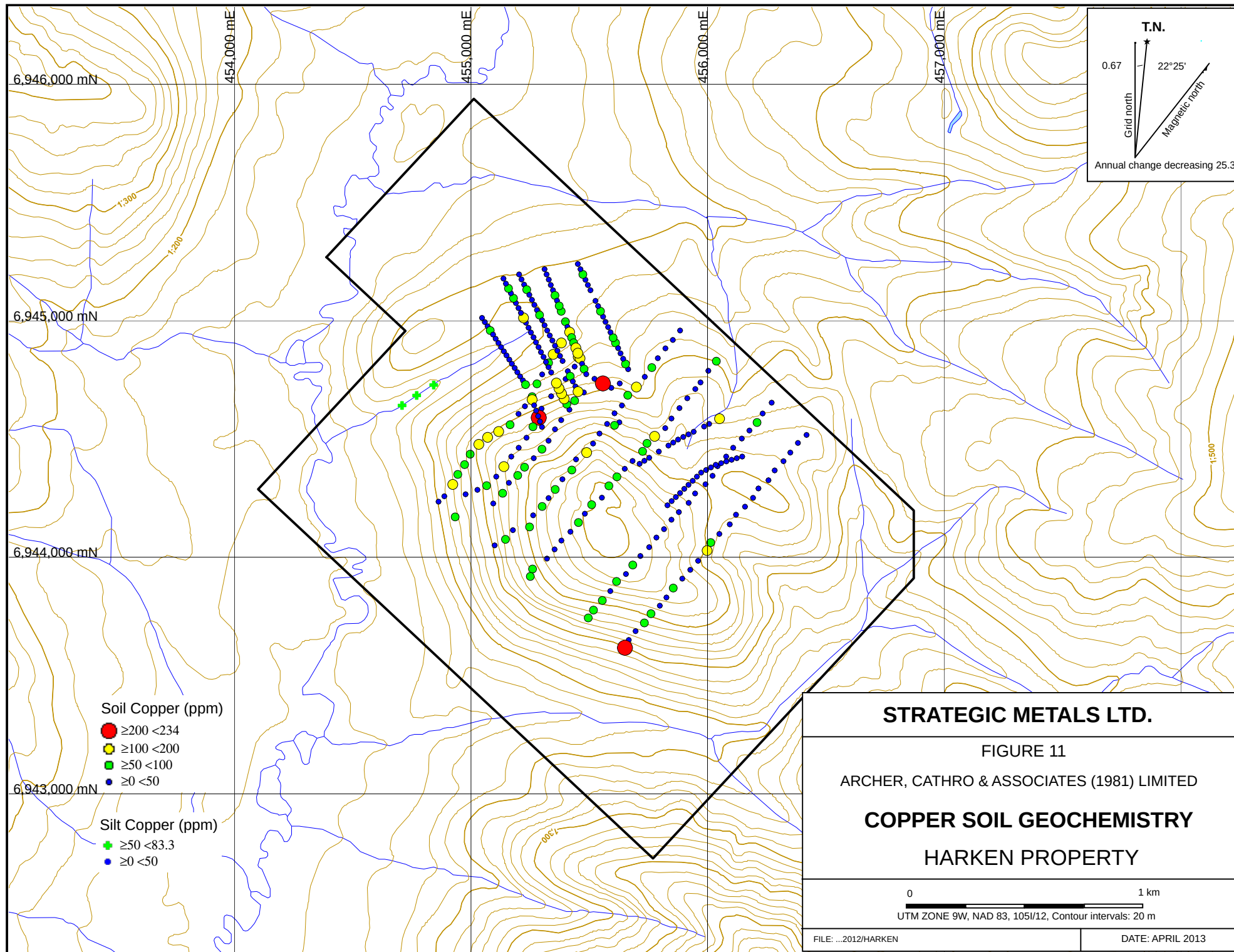
STRATEGIC METALS LTD.

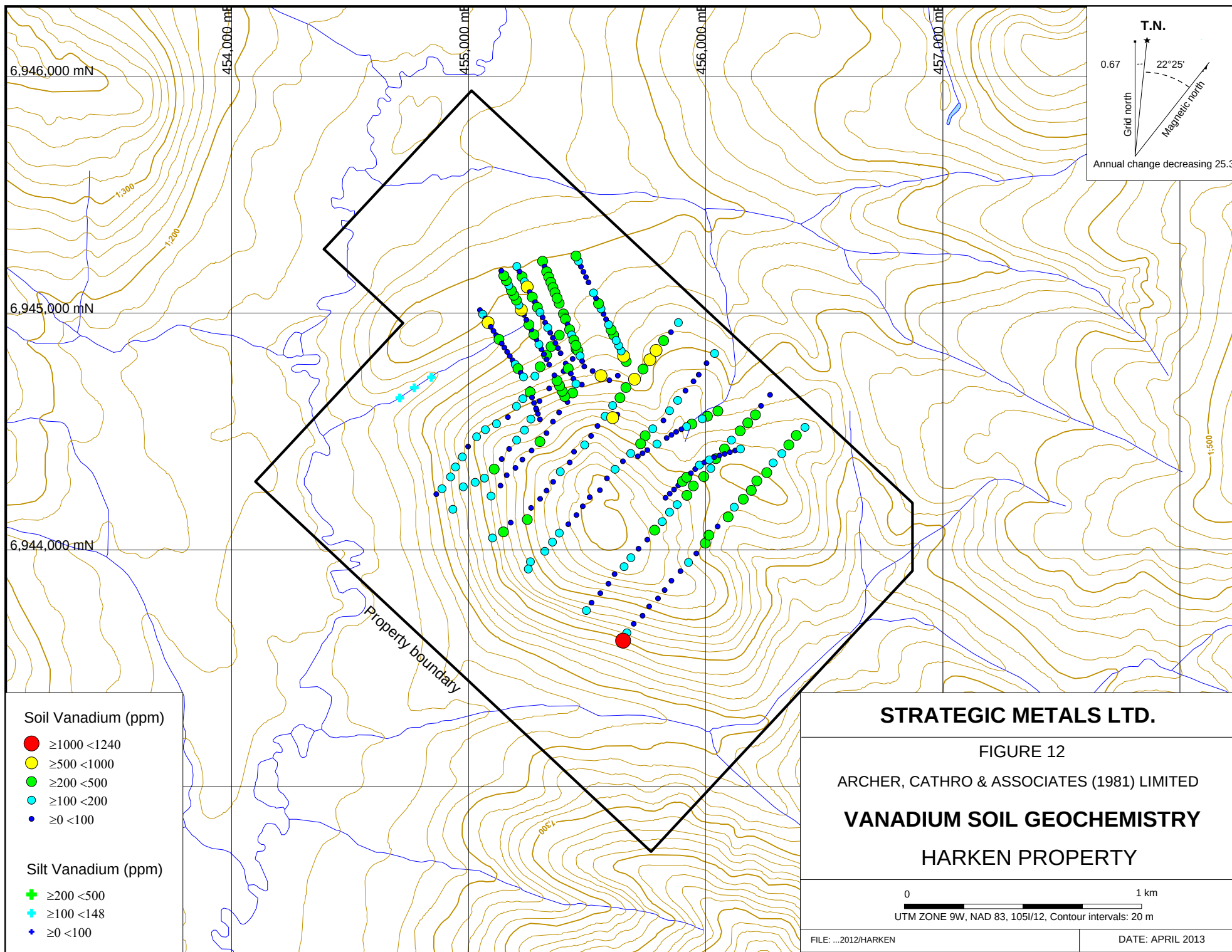
FIGURE 10

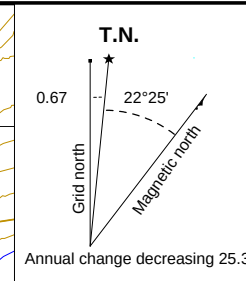
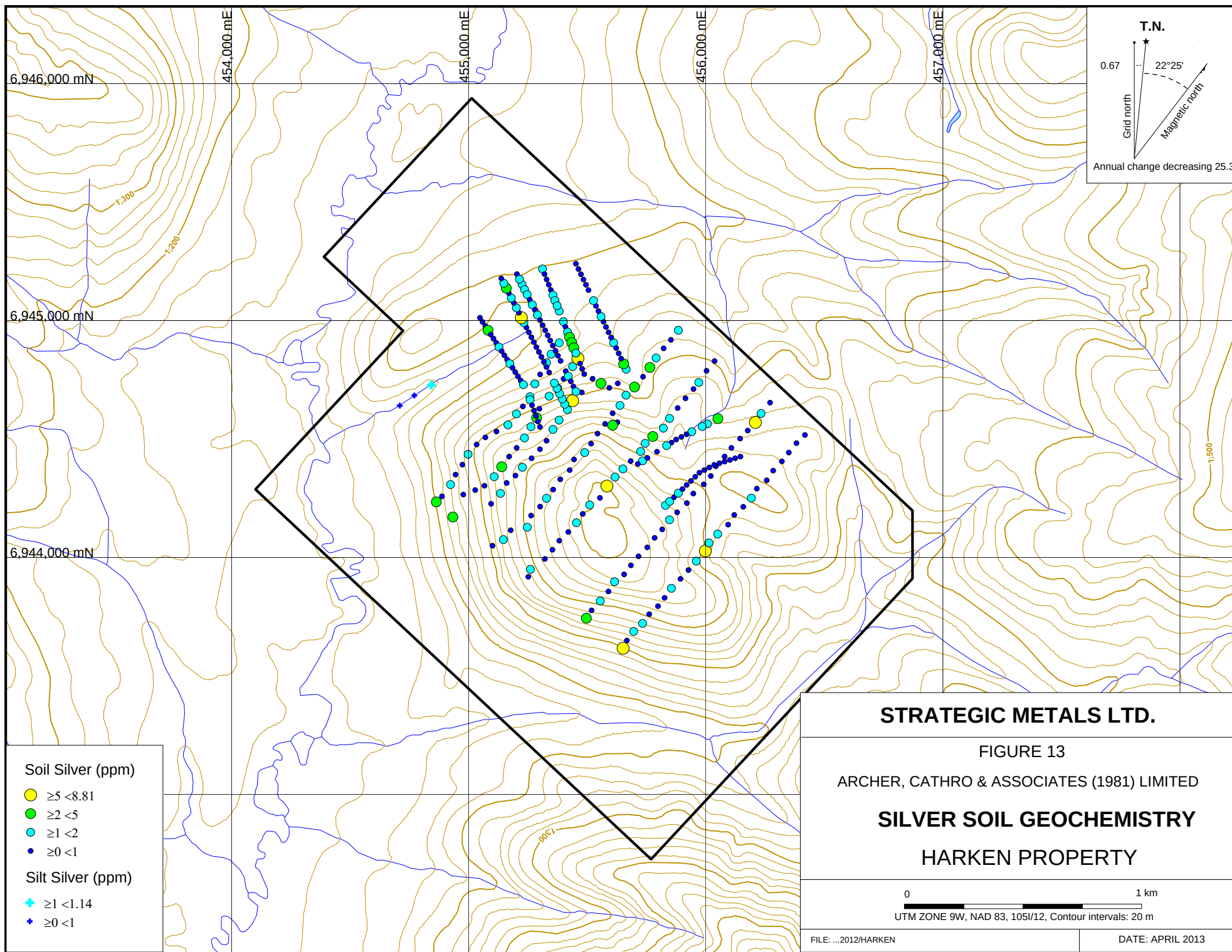
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

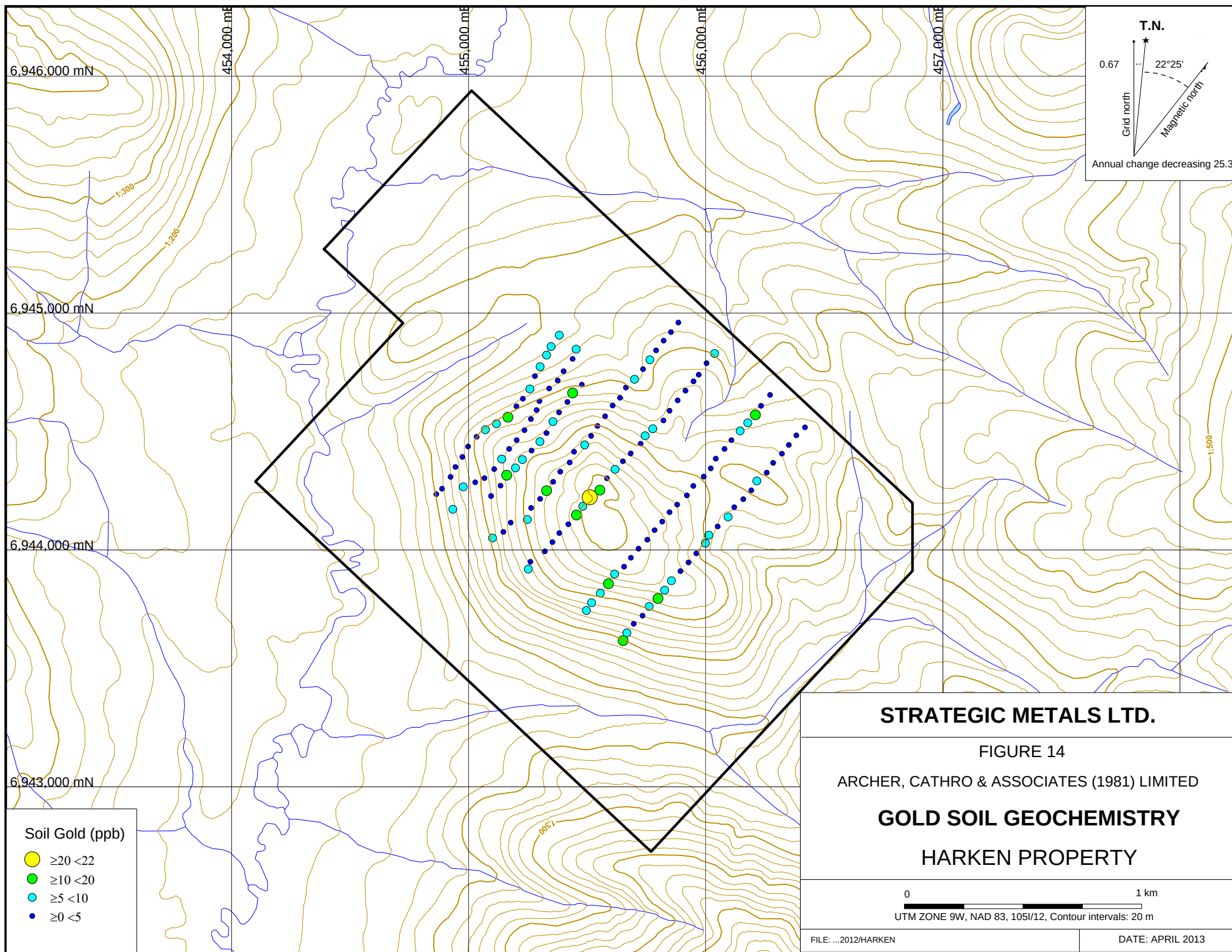
MOLYBDENUM SOIL GEOCHEMISTRY

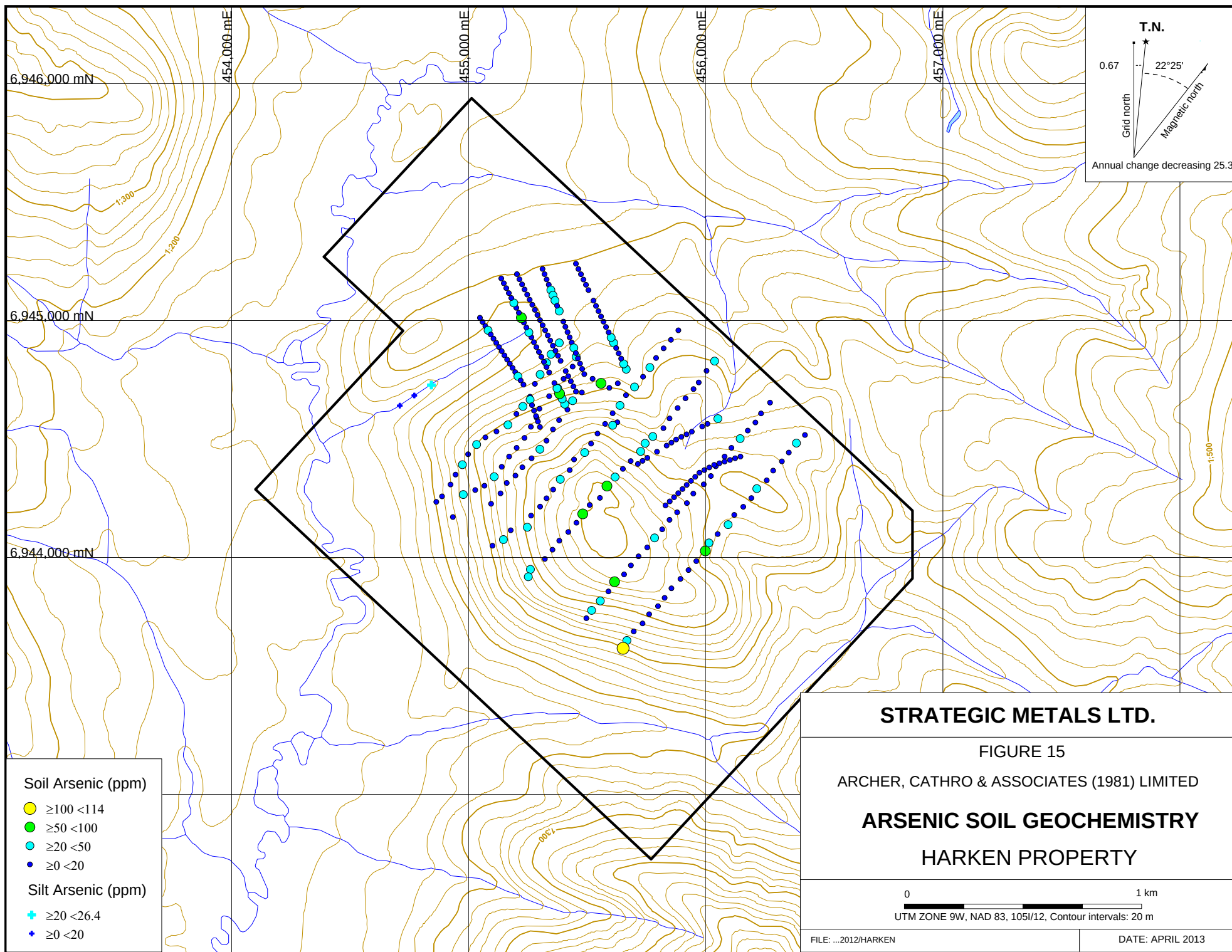
HARKEN PROPERTY

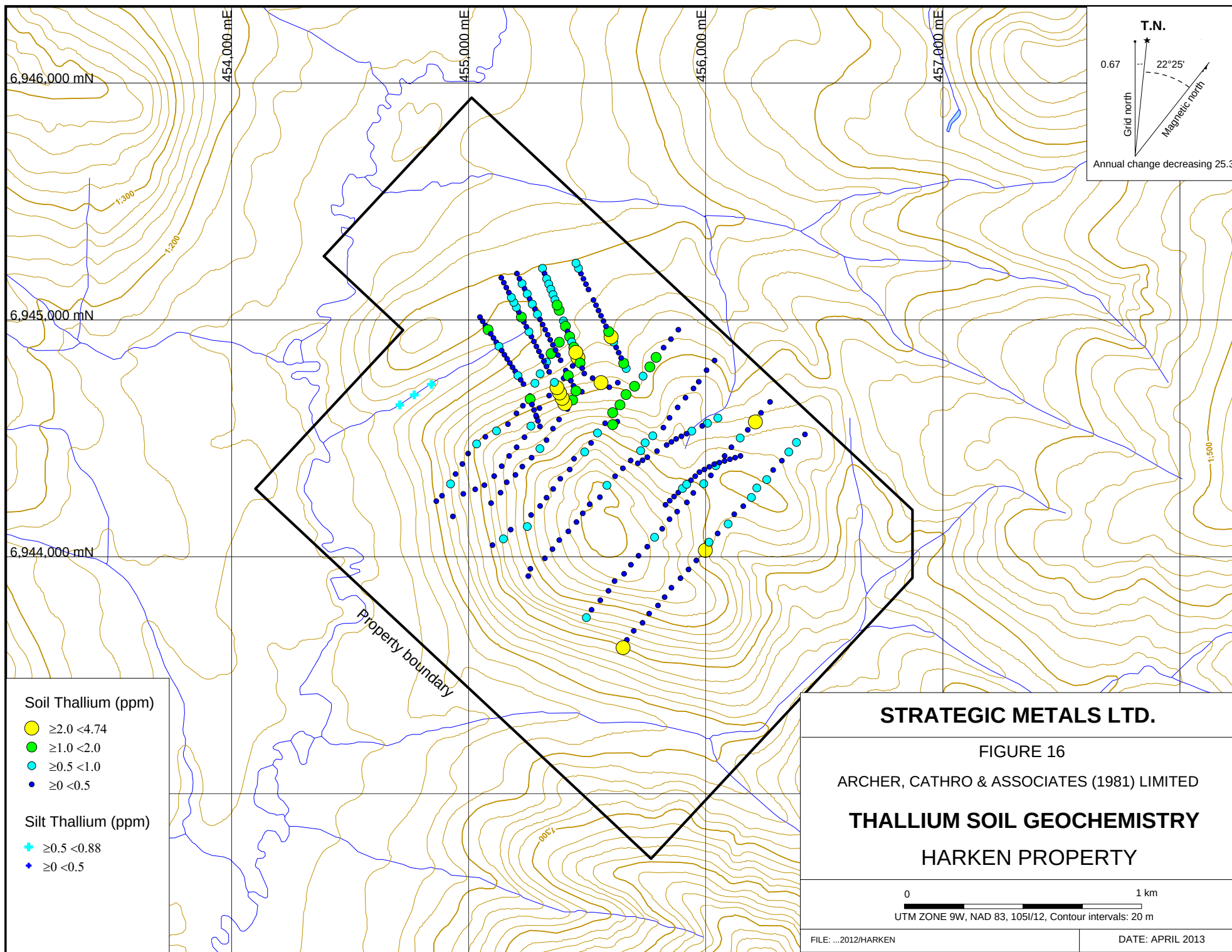












Soil Thallium (ppm)

- $\geq 2.0 < 4.74$
- $\geq 1.0 < 2.0$
- $\geq 0.5 < 1.0$
- $\geq 0 < 0.5$

Silt Thallium (ppm)

- + $\geq 0.5 < 0.88$
- + $\geq 0 < 0.5$

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FIGURE 16

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

THALLIUM SOIL GEOCHEMISTRY

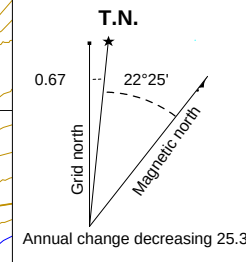
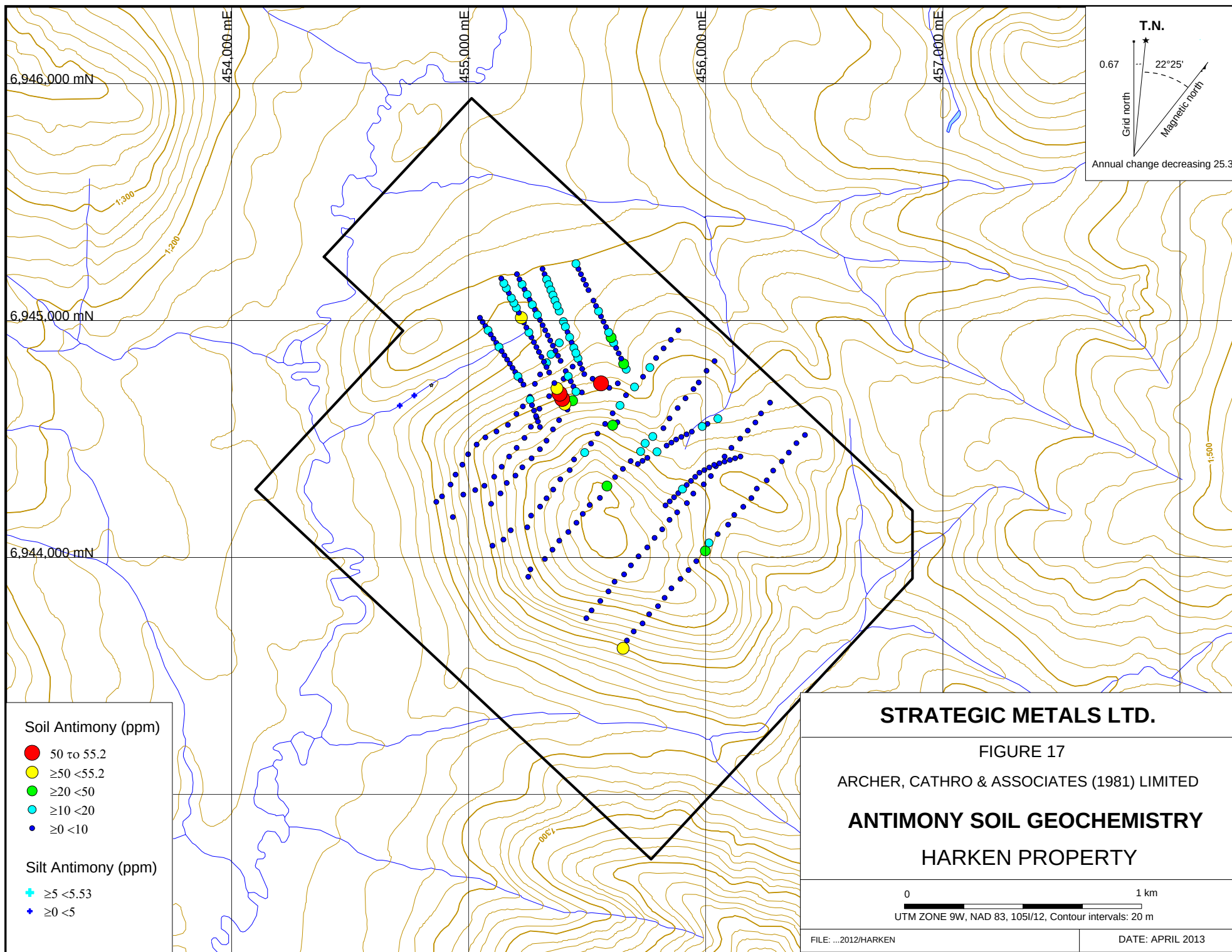
HARKEN PROPERTY

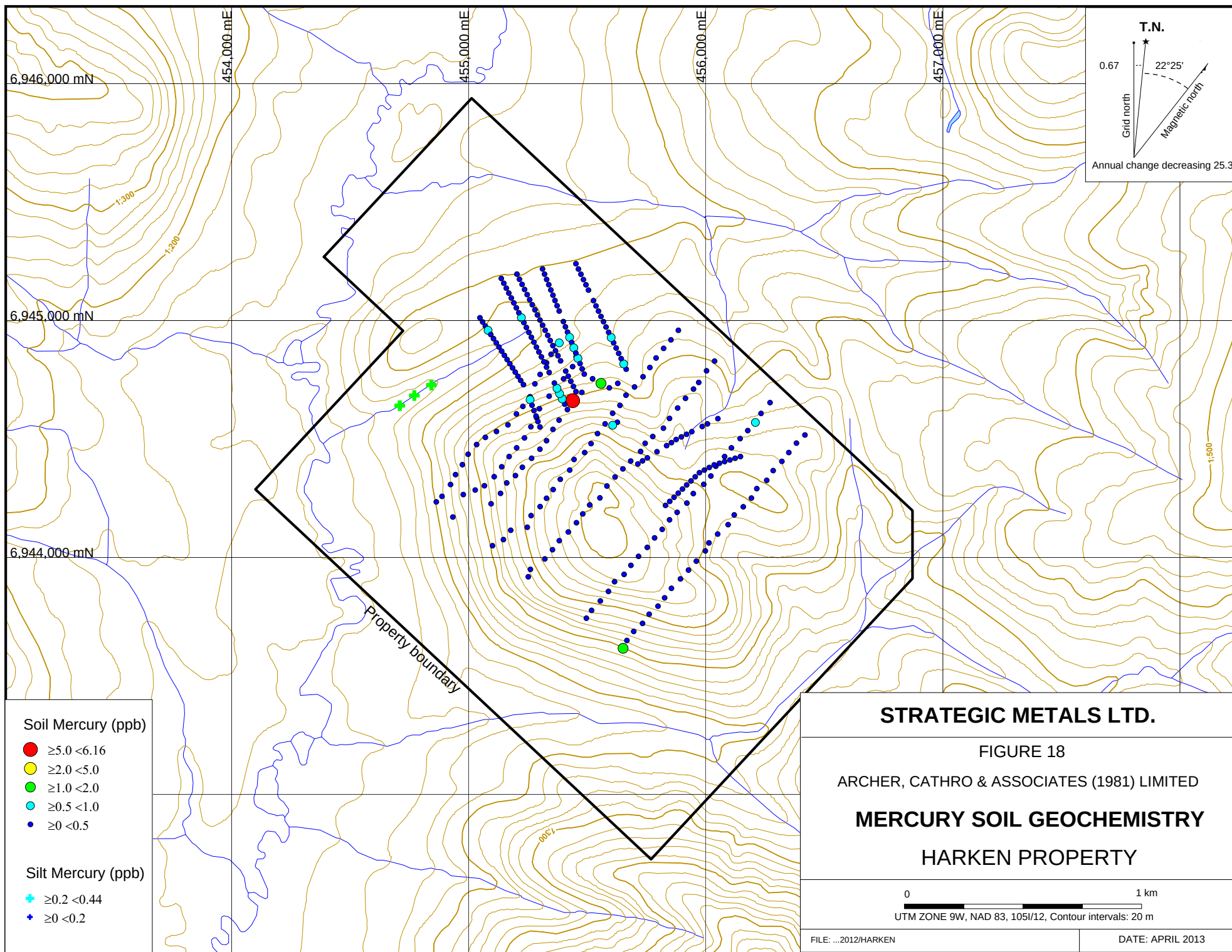
0 1 km

UTM ZONE 9W, NAD 83, 105I/12, Contour intervals: 20 m

FILE: ...2012/HARKEN

DATE: APRIL 2013





2007 deliberately targeted the barite horizon and Road River-Earn contact, and thus yielded a higher proportional of strongly anomalous results. Peak soil sample values for both 2007 and 2012 are listed in Table IV.

Many of the 2007 and 2012 soil samples returned weakly elevated values of pathfinder elements for Carlin-type mineralization but some values are moderately to strongly anomalous. Gold results are quite weak.

Table IV –Peak 2007 and 2012 Soil Sample Values*

Year	Zn	Ni	Ba	Mo	Cu	V	Ag	Au	As	Tl	Sb	Hg
2007	14200	1200	4000	91.6	234	896	5.9	1.2	79.3	3.72	55.2	1.12
2012	3180	420	3220	135	229	1240	8.81	22	113.5	4.73	50.9	6.61

* All values are reported in ppm except gold values, which are in ppb.

DISCUSSION AND CONCLUSIONS

Exploration on the Harken property in 2012 was primarily conducted to test for pathfinder elements for Carlin-type gold mineralization. Geochemical results for Carlin-type pathfinder elements such as arsenic, antimony, thallium and mercury are somewhat encouraging but gold values are low. For this reason it is unlikely that the Harken property hosts a sizeable Carlin-type gold deposit.

Based on the significant multi-element soil geochemical signature identified on the Harken property, future work is recommended. This work should include detailed prospecting, stratigraphic mapping and hand trenching, targeting NiMo-type mineralization.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



J. Morton



H. Burrell, B.Sc., P.Geol.

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APPENDIX I

STATEMENTS OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Jack Morton, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Vancouver, British Columbia, hereby certify that:

1. I am a candidate for a B.Sc. in Earth Sciences from Simon Fraser University in December of 2013.
2. From 2007 to present, I have been actively engaged in mineral exploration in Yukon Territory, British Columbia, Northwest Territories, Manitoba, and Newfoundland.
3. I have interpreted all data resulting from this work.

A handwritten signature in blue ink, appearing to be 'J. Morton', with a long horizontal line extending to the right.

J. Morton

STATEMENT OF QUALIFICATIONS

I, Heather Burrell (née Smith), geologist, with business addresses in Vancouver and Squamish, British Columbia and Whitehorse, Yukon Territory and residential address in Squamish, British Columbia do hereby certify that:

1. I graduated from the University of British Columbia in 2006 with a B.Sc. in Geological Sciences.
2. From 2004 to present, I have been actively engaged in mineral exploration in the Yukon Territory, British Columbia and Northwest Territories.
3. I am a Professional Geoscientist (P.Geo.) with the Association of Professional Engineers and Geoscientists of British Columbia (Member Number 34689).
4. I have personally participated in and directed the fieldwork reported herein and have interpreted all data resulting from this work.



H. Burrell, B.Sc., P.Geo.

APPENDIX II
STATEMENTS OF EXPENDITURES

Statement of Expenditures
Harken 1-22 Mineral Claims
October 30, 2012

Labour

H. Burrell (geologist) Aug. 2012 – 1 day @ \$765.00/day	\$ 856.80
M. Nadeau (field assistant) Aug. 2012 – 1 day @ \$391.00/day	437.92
A. Hughes (field assistant) Aug. 2012 – 1 day @ \$340.00/day	<u>380.80</u>
	1,675.52

Expenses (including management)

Field room and board – 3 mandays @ \$180/manday	653.18
Kluane Airways – 2.1 hours Hughes 500D @ \$1,075/hour + fuel	3,122.93
Inconnu Lodge	635.04
ALS Chemex	<u>5,434.30</u>
	9,845.45

Total	<u>\$11,520.97</u>
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APPENDIX III
CERTIFICATES OF ANALYSIS



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **STRATEGIC METALS LTD.**

C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

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Page: 1
Finalized Date: 16- SEP- 2012
Account: MTT

CERTIFICATE WH12198907

Project: Harken

P.O. No.:

This report is for 148 Soil samples submitted to our lab in Whitehorse, YT, Canada on 26- AUG- 2012.

The following have access to data associated with this certificate:

SARAH EATON

JOAN MARIACHER

HEATHER SMITH

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

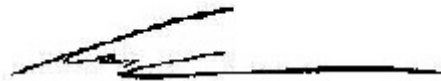
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **STRATEGIC METALS LTD.**
ATTN: JOAN MARIACHER
C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 16- SEP- 2012
 Account: MTT

Project: Harken

CERTIFICATE OF ANALYSIS WH12198907

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ33051		0.16	0.006	2.91	1.60	14.8	<0.2	<10	1370	0.39	0.32	0.04	0.59	30.4	1.5	19
ZZ33052		0.15	0.004	2.21	0.58	3.5	<0.2	<10	1210	0.17	0.10	0.19	1.18	11.70	1.9	10
ZZ33053		0.11	0.004	0.88	0.85	7.2	<0.2	<10	1280	0.30	0.14	0.17	1.08	25.1	4.5	16
ZZ33054		0.18	0.004	1.27	1.16	14.9	<0.2	<10	1850	0.32	0.21	0.08	3.03	34.0	155.0	18
ZZ33055		0.18	0.003	0.54	1.26	11.7	<0.2	<10	1790	0.73	0.22	0.57	11.75	35.0	11.5	21
ZZ33056		0.20	0.004	0.91	1.27	21.1	<0.2	<10	2390	0.79	0.21	0.72	5.67	45.3	8.6	23
ZZ33057		0.21	0.002	1.06	0.59	7.7	<0.2	<10	620	0.16	0.14	0.02	0.78	20.8	2.0	9
ZZ33058		0.23	0.004	0.47	1.43	20.4	<0.2	<10	640	0.43	0.22	0.15	1.74	39.6	16.9	21
ZZ33059		0.20	0.005	0.77	0.88	15.9	<0.2	<10	480	0.33	0.19	0.04	1.78	32.0	6.2	16
ZZ33060		0.17	0.005	0.78	1.05	18.8	<0.2	<10	1410	0.64	0.23	0.82	6.48	34.9	8.2	20
ZZ33061		0.19	0.013	1.23	0.57	20.4	<0.2	<10	1270	0.28	0.30	0.04	0.96	42.8	3.1	11
ZZ33062		0.21	0.003	1.07	0.62	9.3	<0.2	<10	2070	0.29	0.15	0.12	1.93	20.6	3.9	14
ZZ33063		0.23	0.003	0.18	0.53	22.1	<0.2	<10	340	0.23	0.31	0.02	0.76	32.1	3.1	12
ZZ33064		0.17	0.005	1.71	0.46	6.6	<0.2	<10	760	0.10	0.13	0.05	3.83	20.9	3.5	8
ZZ33065		0.22	0.004	1.24	0.59	10.8	<0.2	<10	2860	0.18	0.16	0.05	2.42	21.2	1.2	14
ZZ33066		0.21	0.005	0.64	0.78	26.3	<0.2	<10	720	0.39	0.26	0.18	1.34	37.9	5.3	23
ZZ33067		0.23	0.006	1.01	0.81	24.8	<0.2	<10	2560	0.67	0.21	0.91	25.2	36.8	6.5	27
ZZ33068		0.28	0.005	1.25	0.75	26.9	<0.2	<10	2640	0.65	0.18	0.88	33.5	31.1	4.7	27
ZZ33069		0.22	0.007	1.88	1.49	26.1	<0.2	<10	1830	1.01	0.19	1.73	74.6	18.20	5.1	29
ZZ33070		0.31	0.005	1.26	1.12	22.5	<0.2	<10	2940	0.59	0.22	0.27	23.9	30.4	7.6	29
ZZ33071		0.16	0.002	1.11	0.17	4.5	<0.2	<10	130	<0.05	0.04	0.02	0.27	3.19	0.5	5
ZZ33072		0.11	0.002	0.78	0.16	0.6	<0.2	<10	70	<0.05	0.03	0.03	0.22	3.69	0.8	3
ZZ33073		0.18	0.004	1.20	0.50	35.5	<0.2	<10	1240	0.25	0.15	0.02	1.51	15.20	2.0	8
ZZ33074		0.17	0.001	1.77	0.12	0.4	<0.2	<10	80	<0.05	0.02	0.02	0.10	1.01	0.5	2
ZZ33075		0.16	0.003	0.98	0.44	5.7	<0.2	<10	660	0.12	0.14	0.03	0.51	19.50	1.6	10
ZZ33076		0.21	0.003	3.18	0.99	7.1	<0.2	<10	2310	0.16	0.16	0.02	7.87	19.00	4.4	6
ZZ33077		0.20	0.004	1.06	0.71	10.6	<0.2	<10	1390	0.32	0.19	0.04	0.96	21.3	1.8	13
ZZ33078		0.24	0.003	1.18	0.75	11.5	<0.2	<10	850	0.41	0.12	0.07	0.73	20.5	3.3	12
ZZ33079		0.26	0.001	0.43	0.39	8.3	<0.2	<10	210	0.10	0.16	0.01	0.15	31.5	1.5	8
ZZ33080		0.23	0.003	0.84	0.58	5.9	<0.2	<10	360	0.16	0.17	0.02	0.21	40.4	1.9	10
ZZ33081		0.17	0.006	2.36	1.08	7.7	<0.2	<10	1800	0.30	0.27	0.03	1.73	30.7	2.7	13
ZZ33082		0.24	0.004	1.27	1.39	23.6	<0.2	<10	480	0.41	0.23	0.09	1.23	34.1	5.3	27
ZZ33083		0.26	0.002	0.65	0.56	12.0	<0.2	<10	530	0.15	0.21	0.01	0.51	32.3	2.7	9
ZZ33084		0.18	0.004	0.50	1.01	13.3	<0.2	<10	720	0.38	0.18	0.02	1.10	25.8	50.9	17
ZZ33085		0.25	0.005	0.64	1.08	22.3	<0.2	<10	2350	0.55	0.21	0.50	1.27	36.5	5.4	20
ZZ33086		0.19	0.003	0.58	0.58	13.0	<0.2	<10	830	0.23	0.16	0.01	0.55	33.4	1.5	11
ZZ33087		0.22	0.003	1.34	0.69	11.0	<0.2	<10	600	0.20	0.15	0.02	0.78	31.4	1.5	8
ZZ33088		0.19	0.010	0.88	0.44	19.8	<0.2	<10	370	0.19	0.26	0.01	0.43	43.7	3.5	8
ZZ33089		0.21	0.006	0.82	0.70	18.2	<0.2	<10	730	0.26	0.29	0.01	0.72	42.9	6.9	8
ZZ33090		0.17	0.005	1.62	0.66	8.7	<0.2	<10	1540	0.19	0.17	0.03	0.47	35.6	1.9	7



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Page: 2 - B
Total # Pages: 5 (A - D)
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Finalized Date: 16- SEP- 2012
Account: MTT

Project: Harken

CERTIFICATE OF ANALYSIS WH12198907

Sample Description	Method Analyte Units LOR	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
		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
ZZ33051		1.46	65.8	2.11	4.11	0.05	0.05	0.41	0.028	0.10	17.5	5.4	0.12	30	7.19
ZZ33052		1.88	27.5	0.78	2.15	<0.05	<0.02	0.44	0.014	0.07	6.2	3.9	0.11	76	0.94
ZZ33053		0.80	24.5	1.28	2.89	<0.05	0.06	0.12	0.016	0.12	14.0	9.4	0.40	112	5.60
ZZ33054		1.59	147.0	2.59	3.64	0.07	0.04	0.23	0.030	0.13	17.0	12.5	0.47	4540	9.65
ZZ33055		0.63	75.6	1.86	3.43	0.06	0.09	0.23	0.022	0.15	20.8	15.2	0.60	538	4.22
ZZ33056		1.02	74.1	2.54	3.69	0.08	0.05	0.27	0.032	0.17	25.7	17.1	0.77	225	11.05
ZZ33057		0.88	54.7	1.04	2.51	0.05	0.02	0.08	0.014	0.07	10.8	3.7	0.15	28	4.94
ZZ33058		1.32	173.5	2.96	3.44	0.08	0.06	0.29	0.031	0.13	20.6	15.6	0.67	608	10.80
ZZ33059		2.17	163.5	2.04	2.68	0.07	0.03	0.13	0.023	0.10	18.0	11.4	0.44	100	11.00
ZZ33060		1.15	138.5	2.50	2.78	0.09	0.08	0.20	0.030	0.14	21.9	12.5	0.50	130	10.00
ZZ33061		1.67	69.2	2.18	2.33	0.08	0.02	0.17	0.035	0.12	22.4	3.6	0.12	45	9.43
ZZ33062		1.01	49.2	1.12	2.49	0.05	0.02	0.18	0.017	0.08	10.9	4.9	0.17	124	7.50
ZZ33063		0.90	33.9	1.91	3.44	0.05	<0.02	0.02	0.022	0.08	18.1	3.1	0.10	43	12.85
ZZ33064		2.65	76.1	1.29	1.58	<0.05	<0.02	0.15	0.021	0.05	10.3	1.4	0.03	43	4.65
ZZ33065		1.34	63.3	1.15	2.02	0.05	0.02	0.16	0.018	0.06	11.9	2.4	0.08	11	6.98
ZZ33066		1.67	42.4	2.27	3.15	0.09	<0.02	0.09	0.032	0.13	22.4	4.8	0.18	97	17.55
ZZ33067		0.85	77.9	1.92	2.77	0.09	0.03	0.22	0.028	0.12	23.3	9.3	0.27	151	19.85
ZZ33068		0.85	124.5	1.78	2.60	0.10	0.04	0.23	0.023	0.10	19.3	8.1	0.27	115	22.5
ZZ33069		1.26	181.0	2.20	3.34	0.07	0.08	0.78	0.032	0.13	10.8	7.9	0.29	178	13.55
ZZ33070		0.99	122.5	1.89	3.32	0.07	0.05	0.35	0.030	0.14	17.9	8.6	0.34	277	18.15
ZZ33071		0.25	7.5	0.24	0.80	<0.05	<0.02	0.04	<0.005	0.02	2.1	0.3	0.01	13	1.45
ZZ33072		0.22	6.1	0.36	1.05	<0.05	<0.02	0.03	<0.005	0.02	2.1	0.3	0.01	16	0.34
ZZ33073		2.22	77.3	1.70	1.52	0.06	<0.02	0.15	0.020	0.07	7.7	0.8	0.03	23	16.00
ZZ33074		0.07	3.6	0.23	0.50	<0.05	<0.02	0.05	<0.005	0.02	0.6	0.2	0.01	11	0.40
ZZ33075		1.56	32.9	0.91	2.35	<0.05	<0.02	0.05	0.011	0.05	10.1	0.8	0.02	21	5.56
ZZ33076		4.13	214	2.36	2.50	0.05	0.03	0.38	0.022	0.07	9.0	1.1	0.02	130	4.74
ZZ33077		3.06	53.9	1.29	3.24	0.05	<0.02	0.13	0.021	0.09	11.0	2.1	0.06	17	9.37
ZZ33078		0.70	40.7	1.38	2.84	<0.05	0.02	0.11	0.015	0.07	11.4	5.0	0.15	76	6.83
ZZ33079		1.07	14.8	0.90	3.24	0.05	<0.02	0.02	0.008	0.06	18.3	1.2	0.03	17	7.35
ZZ33080		1.28	25.4	1.24	3.16	0.06	<0.02	0.03	0.013	0.06	23.6	1.0	0.02	30	4.35
ZZ33081		1.90	127.5	1.83	2.19	0.05	<0.02	0.06	0.052	0.06	16.9	0.7	0.02	30	4.93
ZZ33082		1.13	45.7	3.37	4.33	0.06	0.02	0.10	0.034	0.13	18.9	10.8	0.45	71	13.45
ZZ33083		1.57	53.1	1.62	2.73	0.05	<0.02	0.06	0.017	0.09	18.8	2.0	0.05	25	9.02
ZZ33084		1.38	45.3	6.24	3.50	0.06	0.04	0.08	0.021	0.11	12.6	5.9	0.21	1720	8.86
ZZ33085		0.85	41.7	1.92	3.34	0.06	0.07	0.17	0.033	0.14	18.3	13.8	0.50	161	9.16
ZZ33086		1.08	25.0	1.06	2.97	0.07	<0.02	0.05	0.018	0.07	17.1	1.7	0.03	18	6.94
ZZ33087		1.37	50.7	0.95	2.71	0.05	<0.02	0.05	0.018	0.05	15.9	1.5	0.03	18	4.81
ZZ33088		1.83	44.8	2.68	2.31	0.06	<0.02	0.07	0.021	0.07	22.6	1.1	0.03	90	7.45
ZZ33089		3.03	78.5	3.16	2.17	0.07	<0.02	0.08	0.019	0.08	21.9	1.4	0.02	92	8.34
ZZ33090		1.02	55.0	1.54	1.99	0.06	<0.02	0.10	0.016	0.06	16.9	1.2	0.02	25	3.54



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CERTIFICATE OF ANALYSIS WH12198907

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ33051		0.40	12.4	1860	21.1	10.4	0.002	0.08	1.76	1.6	3.5	0.6	56.8	<0.01	0.07
ZZ33052		0.13	26.9	1340	7.1	8.8	0.001	0.08	0.72	0.3	2.2	0.3	33.1	<0.01	<0.01
ZZ33053		0.16	32.6	980	9.0	9.3	0.001	0.07	1.74	1.9	1.3	0.3	31.4	<0.01	0.03
ZZ33054		0.15	69.9	1200	14.7	14.2	<0.001	0.09	3.06	2.1	3.9	0.3	53.0	<0.01	0.06
ZZ33055		0.20	162.0	1000	13.7	12.1	0.001	0.07	2.24	3.0	3.4	0.4	93.6	<0.01	0.06
ZZ33056		0.23	104.0	1710	15.3	10.4	0.001	0.08	4.94	4.4	3.1	0.4	61.8	<0.01	0.07
ZZ33057		0.18	16.6	740	9.0	8.6	<0.001	0.05	1.60	0.6	1.7	0.2	18.3	<0.01	0.02
ZZ33058		0.17	92.9	1390	16.0	10.6	<0.001	0.04	4.81	2.2	4.2	0.3	21.9	<0.01	0.06
ZZ33059		0.23	66.9	800	12.4	8.4	0.001	0.06	4.22	1.7	2.9	0.3	22.7	<0.01	0.09
ZZ33060		0.22	98.3	1500	16.0	9.2	0.002	0.07	4.89	3.9	2.9	0.3	66.2	<0.01	0.08
ZZ33061		0.14	23.1	1100	22.3	10.3	0.003	0.17	4.58	1.5	3.4	0.4	79.3	<0.01	0.15
ZZ33062		0.20	21.8	1230	9.1	9.3	0.002	0.11	2.51	1.0	3.1	0.3	45.5	<0.01	0.07
ZZ33063		0.26	29.0	630	20.4	12.8	0.002	0.06	4.70	1.0	3.5	0.4	30.9	<0.01	0.12
ZZ33064		0.19	30.5	1080	10.2	6.1	<0.001	0.11	1.63	0.6	5.8	0.2	42.7	<0.01	0.04
ZZ33065		0.24	21.0	1210	10.3	10.2	0.001	0.12	2.54	0.5	7.8	0.3	38.5	<0.01	0.07
ZZ33066		0.28	61.0	2060	17.6	11.4	0.002	0.08	6.33	1.7	4.2	0.5	38.6	<0.01	0.11
ZZ33067		0.26	222	2200	12.0	11.1	0.003	0.09	11.55	2.7	5.1	0.4	89.7	<0.01	0.14
ZZ33068		0.33	198.5	2040	16.4	10.7	0.005	0.12	12.65	2.1	6.7	0.4	102.0	<0.01	0.12
ZZ33069		0.44	420	2060	9.8	13.6	0.023	0.19	11.60	1.5	10.0	0.4	141.5	<0.01	0.11
ZZ33070		0.25	90.6	2200	13.4	14.7	0.003	0.10	8.07	1.7	4.4	0.4	46.7	<0.01	0.14
ZZ33071		0.09	4.0	320	2.3	1.5	0.001	0.03	0.73	0.1	0.6	0.2	5.8	<0.01	0.01
ZZ33072		0.07	1.8	240	1.4	1.1	<0.001	0.03	0.18	0.1	0.2	0.2	5.9	<0.01	<0.01
ZZ33073		0.20	36.7	910	11.2	6.5	0.007	0.15	6.16	0.6	5.6	0.3	58.4	<0.01	0.09
ZZ33074		0.07	1.5	280	0.6	0.5	<0.001	0.03	0.18	0.1	0.2	<0.2	5.1	<0.01	<0.01
ZZ33075		0.25	10.1	570	5.5	4.4	<0.001	0.07	1.42	0.2	3.4	0.7	11.9	<0.01	0.03
ZZ33076		0.28	27.8	1390	8.1	6.0	0.001	0.17	1.56	0.6	6.1	0.4	43.3	<0.01	0.06
ZZ33077		0.22	16.5	1230	21.0	12.7	0.002	0.13	3.32	0.4	3.5	0.4	77.9	<0.01	0.08
ZZ33078		0.17	24.0	1020	9.3	7.6	<0.001	0.06	2.70	0.5	1.8	0.3	21.2	<0.01	0.06
ZZ33079		0.19	10.5	390	9.4	7.7	0.001	0.04	2.54	0.4	1.5	0.4	14.8	<0.01	0.06
ZZ33080		0.15	9.7	600	7.7	5.1	<0.001	0.05	1.47	0.2	1.3	0.7	12.6	<0.01	0.06
ZZ33081		0.20	23.2	1110	13.1	5.8	<0.001	0.10	1.65	0.1	2.2	0.5	32.9	<0.01	0.11
ZZ33082		0.34	56.3	1720	37.5	14.8	<0.001	0.05	4.83	1.5	2.9	0.5	22.0	<0.01	0.13
ZZ33083		0.16	19.6	780	13.2	10.9	<0.001	0.09	2.90	0.4	2.5	0.4	32.8	<0.01	0.07
ZZ33084		0.21	59.0	1780	9.9	10.7	<0.001	0.11	3.10	0.8	2.6	0.4	28.1	<0.01	0.09
ZZ33085		0.22	41.8	1150	13.1	11.4	<0.001	0.08	4.26	2.5	2.5	0.3	52.3	<0.01	0.09
ZZ33086		0.09	11.8	840	10.2	9.3	<0.001	0.07	1.58	0.2	1.8	0.4	25.9	<0.01	0.04
ZZ33087		0.09	12.4	730	8.1	8.2	0.001	0.05	1.80	0.1	1.0	0.4	21.5	<0.01	0.06
ZZ33088		0.15	22.3	810	15.1	8.2	0.001	0.07	3.20	0.7	2.6	0.5	30.4	<0.01	0.12
ZZ33089		0.14	43.5	1050	17.8	8.4	<0.001	0.09	2.82	0.9	2.7	0.4	44.6	<0.01	0.11
ZZ33090		0.14	15.0	900	9.6	5.7	<0.001	0.11	1.58	0.5	1.5	0.3	29.6	<0.01	0.05



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ33051		0.005	0.43	2.83	155	0.13	4.51	75	2.1
ZZ33052		0.007	0.48	1.08	61	<0.05	3.05	77	<0.5
ZZ33053		<0.005	0.30	1.04	108	0.12	4.59	232	1.6
ZZ33054		0.005	0.96	1.62	129	0.15	13.20	381	1.4
ZZ33055		0.005	0.32	1.93	144	0.11	16.15	833	3.3
ZZ33056		0.007	0.42	1.99	157	0.21	19.75	589	2.1
ZZ33057		0.006	0.29	1.18	62	0.18	6.85	97	0.6
ZZ33058		0.005	0.64	1.66	120	0.21	21.8	512	2.2
ZZ33059		0.007	0.40	1.44	110	3.46	11.25	352	1.1
ZZ33060		0.007	0.51	2.14	147	0.18	17.50	630	3.4
ZZ33061		0.005	0.41	1.75	81	0.10	4.99	159	0.5
ZZ33062		0.006	0.37	2.52	145	0.12	6.21	120	0.6
ZZ33063		0.008	0.41	1.22	176	0.20	3.84	217	<0.5
ZZ33064		0.007	0.26	2.08	41	0.07	5.77	157	0.6
ZZ33065		0.006	0.84	4.11	170	0.12	6.15	80	0.6
ZZ33066		0.009	0.68	2.67	314	0.20	7.61	381	0.7
ZZ33067		0.009	0.89	4.20	327	0.18	19.90	2390	1.8
ZZ33068		0.014	1.27	13.55	305	0.23	21.7	2090	1.5
ZZ33069		0.006	1.43	21.2	347	0.17	21.1	3180	3.6
ZZ33070		0.008	1.31	13.85	342	0.25	16.10	715	1.2
ZZ33071		0.008	0.14	0.61	24	<0.05	0.86	15	<0.5
ZZ33072		0.014	0.13	0.52	17	<0.05	0.59	9	<0.5
ZZ33073		0.008	0.66	3.68	74	0.14	6.54	246	<0.5
ZZ33074		0.011	0.04	0.35	10	<0.05	0.31	6	<0.5
ZZ33075		0.011	0.17	1.38	65	0.19	1.82	69	<0.5
ZZ33076		0.010	0.41	2.29	39	0.09	4.91	80	0.8
ZZ33077		0.006	0.54	1.98	185	0.12	4.55	105	<0.5
ZZ33078		0.006	0.34	1.11	111	0.11	5.24	176	0.5
ZZ33079		0.008	0.35	0.54	136	0.13	1.77	91	<0.5
ZZ33080		0.008	0.09	0.56	60	0.10	2.56	87	<0.5
ZZ33081		<0.005	0.08	4.26	48	0.11	5.33	106	<0.5
ZZ33082		0.006	0.43	1.34	208	0.17	4.40	465	1.2
ZZ33083		0.005	0.41	0.97	112	0.13	3.92	150	<0.5
ZZ33084		0.006	0.48	1.91	139	0.13	4.93	299	0.9
ZZ33085		0.007	0.37	1.68	152	0.15	8.86	262	2.1
ZZ33086		<0.005	0.31	0.94	109	0.11	2.14	91	<0.5
ZZ33087		<0.005	0.21	1.14	61	0.10	3.16	67	<0.5
ZZ33088		0.005	0.17	0.79	73	0.09	3.52	168	<0.5
ZZ33089		0.005	0.28	1.15	75	0.10	6.23	293	<0.5
ZZ33090		<0.005	0.17	1.09	30	0.07	2.92	114	<0.5



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ33091		0.19	0.002	0.37	0.26	5.3	<0.2	<10	170	0.05	0.07	0.03	0.07	7.84	1.2	3
ZZ33092		0.27	0.006	0.80	0.89	27.6	<0.2	<10	2360	0.64	0.20	0.29	4.31	45.4	9.7	22
ZZ33093		0.19	0.004	0.35	0.35	10.0	<0.2	<10	1020	0.11	0.14	0.01	0.22	29.5	1.8	7
ZZ33094		0.19	0.005	1.15	0.55	8.0	<0.2	<10	450	0.15	0.18	0.01	0.59	38.5	1.4	8
ZZ33095		0.18	0.001	1.25	0.20	4.0	<0.2	<10	100	<0.05	0.05	0.03	0.19	7.15	0.9	3
ZZ33096		0.15	0.003	1.06	0.19	4.5	<0.2	<10	240	<0.05	0.08	0.02	0.11	6.49	0.6	3
ZZ33097		0.26	0.011	6.19	0.66	49.6	<0.2	<10	1510	0.55	0.25	0.09	1.81	24.8	0.3	46
ZZ33098		0.17	0.001	0.54	0.26	7.9	<0.2	<10	2500	0.05	0.05	0.03	0.19	1.97	0.7	3
ZZ33101		0.15	0.008	4.36	0.75	19.2	<0.2	<10	1380	0.36	0.19	0.07	0.63	25.0	1.1	22
ZZ33102		0.17	0.006	0.81	0.47	22.1	<0.2	<10	830	0.23	0.31	0.02	0.66	46.0	2.2	9
ZZ33103		0.19	0.006	1.54	0.59	20.4	<0.2	<10	650	0.24	0.29	0.01	0.69	42.1	2.0	10
ZZ33104		0.15	0.010	0.86	0.36	10.1	<0.2	<10	450	0.14	0.21	0.02	0.22	30.1	1.4	5
ZZ33105		0.18	0.006	1.46	0.73	54.0	<0.2	<10	1190	0.33	0.34	0.02	0.52	58.0	1.8	8
ZZ33106		0.17	0.002	0.51	0.59	18.4	<0.2	<10	470	0.21	0.25	0.01	0.36	48.6	3.1	13
ZZ33107		0.18	0.004	0.93	0.79	17.1	<0.2	<10	550	0.30	0.31	0.02	0.66	43.8	2.9	15
ZZ33108		0.20	0.002	0.63	0.47	7.6	<0.2	<10	340	0.15	0.15	0.03	0.23	27.9	1.6	9
ZZ33109		0.22	0.001	0.10	0.42	6.5	<0.2	<10	180	0.11	0.10	0.08	0.12	16.05	1.2	5
ZZ33110		0.20	0.002	0.77	0.48	26.8	<0.2	<10	1070	0.20	0.32	0.01	0.42	41.6	2.3	13
ZZ33111		0.16	0.002	0.82	0.50	11.4	<0.2	<10	270	0.17	0.16	0.01	0.17	34.8	2.0	9
ZZ33112		0.18	0.001	1.08	0.39	8.7	<0.2	<10	340	0.13	0.13	0.01	0.15	30.1	1.5	9
ZZ33113		0.17	0.001	0.75	0.67	16.3	<0.2	<10	190	0.21	0.20	0.02	0.24	19.80	2.1	12
ZZ33114		0.19	0.001	0.20	0.61	19.1	<0.2	<10	180	0.24	0.25	0.01	0.34	30.9	3.3	16
ZZ33115		0.16	0.001	0.30	0.64	17.3	<0.2	<10	260	0.19	0.24	0.01	0.28	24.5	2.5	16
ZZ33116		0.16	0.003	0.33	0.70	19.0	<0.2	<10	270	0.28	0.25	0.01	0.31	25.2	2.6	19
ZZ33117		0.18	0.002	0.24	0.68	11.5	<0.2	<10	200	0.15	0.17	0.02	0.20	25.9	1.9	13
ZZ33118		0.24	0.002	0.33	0.76	14.5	<0.2	<10	190	0.20	0.23	0.02	0.25	29.4	2.4	18
ZZ33119		0.22	0.002	0.70	0.74	12.1	<0.2	<10	300	0.21	0.16	0.03	0.35	27.8	2.1	18
ZZ33120		0.22	0.002	0.36	0.60	14.3	<0.2	<10	180	0.19	0.16	0.02	0.26	26.9	2.8	13
ZZ33121		0.22	0.005	0.87	0.77	23.3	<0.2	<10	1060	0.51	0.21	0.30	1.59	44.7	4.8	26
ZZ33122		0.14	0.005	0.62	0.81	16.6	<0.2	<10	540	0.41	0.18	0.24	1.30	27.6	3.4	23
ZZ33123		0.22	0.014	6.12	1.47	16.4	<0.2	<10	1630	0.79	0.19	0.19	3.24	16.15	5.1	36
ZZ33124		0.21	0.002	1.74	0.46	8.3	<0.2	<10	590	0.17	0.11	0.22	0.39	20.4	2.3	8
ZZ33125		0.19	0.003	0.61	0.67	15.9	<0.2	<10	1150	0.91	0.21	0.80	1.95	33.1	9.8	9
ZZ33126		0.19	0.002	0.27	0.48	11.6	<0.2	<10	150	0.14	0.19	0.02	0.17	36.4	1.8	10
ZZ33127		0.22	0.003	0.72	0.88	25.2	<0.2	<10	260	0.27	0.28	0.04	0.36	30.2	3.3	22
ZZ33128		0.19	0.002	0.54	0.47	12.9	<0.2	<10	230	0.18	0.23	0.02	0.23	39.8	2.5	13
ZZ33129		0.16	0.002	0.26	0.54	14.5	<0.2	<10	170	0.21	0.21	0.02	0.26	28.5	3.2	12
ZZ33130		0.23	0.004	0.37	0.50	6.6	<0.2	<10	130	0.14	0.12	0.01	0.16	19.05	1.5	9
ZZ33131		0.17	0.002	0.20	0.71	17.3	<0.2	<10	250	0.27	0.25	0.01	0.39	30.0	3.3	19
ZZ33132		0.19	0.005	0.40	0.89	29.2	<0.2	<10	390	0.40	0.23	0.04	0.61	29.2	3.5	27



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Sample Description	Method Analyte Units LOR	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
		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
ZZ33091		0.39	13.3	0.68	1.46	<0.05	<0.02	0.05	0.006	0.03	3.9	0.4	0.02	19	1.12
ZZ33092		0.71	70.2	2.21	2.48	0.08	<0.02	0.25	0.025	0.13	23.5	10.8	0.40	249	17.10
ZZ33093		1.18	17.7	0.99	2.67	0.05	<0.02	0.03	0.010	0.06	15.5	1.0	0.02	24	6.53
ZZ33094		2.23	47.8	0.96	2.82	0.05	<0.02	0.06	0.010	0.06	20.6	1.1	0.02	16	5.70
ZZ33095		0.47	8.2	0.41	0.99	<0.05	<0.02	0.03	<0.005	0.02	3.6	0.3	0.01	14	1.01
ZZ33096		0.52	8.8	0.44	0.94	<0.05	<0.02	0.06	0.006	0.04	2.8	0.4	0.01	8	3.21
ZZ33097		2.31	87.9	1.64	2.68	0.16	0.03	6.16	0.034	0.10	18.2	1.5	0.03	10	38.8
ZZ33098		0.46	9.7	0.53	0.97	<0.05	<0.02	0.10	<0.005	0.04	0.9	0.3	0.01	11	2.98
ZZ33101		0.69	58.3	1.60	2.96	0.13	0.02	0.27	0.016	0.12	16.0	1.5	0.02	21	26.6
ZZ33102		0.99	59.1	3.09	1.73	0.07	<0.02	0.06	0.030	0.13	21.6	1.4	0.03	29	9.74
ZZ33103		1.00	54.9	2.49	1.85	0.06	<0.02	0.07	0.027	0.12	20.0	1.4	0.04	47	9.19
ZZ33104		1.54	30.5	1.55	1.17	0.06	<0.02	0.13	0.019	0.08	14.6	0.7	0.02	29	4.40
ZZ33105		2.62	76.0	2.84	1.86	0.09	0.02	0.09	0.039	0.13	28.5	2.5	0.04	46	8.08
ZZ33106		1.84	44.9	1.89	3.07	0.06	<0.02	0.05	0.019	0.09	25.1	1.6	0.03	30	12.30
ZZ33107		1.84	86.5	2.06	3.25	0.05	0.02	0.05	0.021	0.08	21.9	1.3	0.03	51	8.97
ZZ33108		1.30	36.5	1.14	2.31	<0.05	<0.02	0.07	<0.005	0.06	13.3	0.6	0.02	24	2.62
ZZ33109		0.62	14.5	0.68	1.98	<0.05	<0.02	0.03	<0.005	0.04	8.2	0.4	0.02	20	4.85
ZZ33110		1.45	32.8	2.13	3.52	0.06	<0.02	0.04	0.018	0.14	21.6	1.5	0.03	24	22.0
ZZ33111		1.53	27.8	1.42	3.17	0.05	<0.02	0.04	0.006	0.06	18.5	0.8	0.02	24	11.60
ZZ33112		1.13	14.1	0.79	3.08	<0.05	<0.02	0.03	<0.005	0.07	17.4	1.2	0.03	12	11.65
ZZ33113		0.91	19.8	1.51	3.44	<0.05	<0.02	0.04	0.005	0.06	10.6	1.8	0.05	29	11.65
ZZ33114		0.81	22.2	1.65	3.66	0.05	<0.02	0.04	0.011	0.08	17.2	2.1	0.05	28	15.90
ZZ33115		0.84	19.3	1.60	3.27	<0.05	<0.02	0.04	0.009	0.07	12.9	2.1	0.05	31	13.60
ZZ33116		1.10	21.3	1.55	3.90	<0.05	<0.02	0.04	0.013	0.08	14.3	2.1	0.05	30	14.70
ZZ33117		0.84	13.6	1.11	4.06	<0.05	<0.02	0.03	<0.005	0.06	14.8	1.5	0.04	20	9.90
ZZ33118		0.95	17.4	1.38	4.40	<0.05	0.02	0.04	<0.005	0.08	16.1	2.2	0.06	29	11.95
ZZ33119		0.83	15.0	1.38	3.26	<0.05	<0.02	0.03	0.006	0.08	15.3	3.3	0.11	27	10.65
ZZ33120		0.75	15.2	1.39	3.39	<0.05	<0.02	0.02	0.005	0.08	14.2	3.3	0.10	43	10.65
ZZ33121		0.70	46.4	2.29	2.58	0.06	0.03	0.13	0.017	0.12	24.9	7.8	0.24	45	20.1
ZZ33122		0.76	28.0	1.79	3.21	<0.05	<0.02	0.12	0.012	0.11	15.5	5.5	0.17	35	16.20
ZZ33123		1.70	61.8	1.82	4.47	<0.05	<0.02	0.80	0.028	0.15	8.9	9.2	0.21	59	13.85
ZZ33124		0.60	15.5	0.89	2.67	<0.05	<0.02	0.05	0.011	0.05	11.0	2.0	0.07	20	7.81
ZZ33125		0.29	45.7	2.54	1.60	0.06	0.05	0.15	0.030	0.08	18.7	5.0	0.20	315	13.15
ZZ33126		0.95	12.3	0.90	3.84	0.05	<0.02	0.02	0.008	0.06	19.9	1.8	0.04	30	9.00
ZZ33127		0.88	20.2	2.47	4.50	0.06	0.02	0.05	0.018	0.08	17.6	4.6	0.14	52	15.70
ZZ33128		0.93	15.5	1.21	4.27	<0.05	<0.02	0.02	0.010	0.06	21.3	1.7	0.04	27	12.30
ZZ33129		0.83	18.0	1.51	3.57	0.05	<0.02	0.02	0.014	0.07	15.5	2.3	0.06	38	12.05
ZZ33130		0.90	13.3	0.70	3.10	<0.05	<0.02	0.02	0.008	0.05	10.4	1.3	0.03	17	5.66
ZZ33131		1.07	21.2	1.63	4.29	0.05	<0.02	0.02	0.016	0.08	16.8	2.5	0.07	45	13.80
ZZ33132		0.98	28.1	2.30	3.96	0.05	<0.02	0.05	0.022	0.09	17.3	6.0	0.16	50	19.75



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Sample Description	Method Analyte Units LOR	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	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ33091		0.15	2.6	300	2.5	2.8	<0.001	0.04	0.37	0.2	0.7	0.2	11.3	<0.01	<0.01
ZZ33092		0.18	65.0	1910	19.4	8.6	<0.001	0.13	9.05	2.8	4.4	0.3	85.1	0.01	0.12
ZZ33093		0.11	12.6	440	7.6	7.0	<0.001	0.06	2.16	0.3	1.7	0.5	23.0	<0.01	0.04
ZZ33094		0.13	10.0	700	7.7	7.2	<0.001	0.04	1.62	0.3	1.2	0.6	11.0	<0.01	0.05
ZZ33095		0.06	3.2	240	1.9	1.5	<0.001	0.03	0.34	0.1	<0.2	0.2	6.3	<0.01	<0.01
ZZ33096		0.10	3.4	400	3.5	2.7	<0.001	0.06	0.95	0.2	0.3	0.5	11.5	<0.01	0.02
ZZ33097		0.09	9.7	2860	13.3	8.5	0.022	0.19	21.6	1.7	43.0	1.1	113.5	<0.01	0.54
ZZ33098		0.15	4.5	390	2.2	4.0	<0.001	0.13	1.01	0.3	0.7	0.2	22.9	<0.01	0.01
ZZ33101		0.22	15.0	2780	24.1	10.6	0.001	0.24	5.77	0.7	30.7	0.7	129.5	<0.01	0.15
ZZ33102		0.19	20.6	1160	19.5	11.2	0.002	0.29	5.42	1.4	4.7	0.3	86.6	<0.01	0.14
ZZ33103		0.14	16.9	1190	19.8	10.0	0.001	0.17	4.43	0.9	4.6	0.3	61.4	<0.01	0.14
ZZ33104		0.15	9.0	850	12.4	6.8	0.001	0.12	2.31	0.5	2.0	0.2	36.8	<0.01	0.10
ZZ33105		0.12	16.3	1320	24.3	12.2	0.002	0.23	5.79	1.9	5.7	0.3	241	<0.01	0.17
ZZ33106		0.19	25.7	780	15.0	11.1	<0.001	0.08	4.58	0.6	2.8	0.6	33.9	<0.01	0.13
ZZ33107		0.14	20.3	1180	17.3	9.7	0.001	0.10	3.95	0.4	3.7	0.7	36.2	<0.01	0.12
ZZ33108		0.12	6.7	580	7.4	5.7	<0.001	0.08	1.40	0.2	1.1	0.4	37.2	<0.01	0.03
ZZ33109		0.11	6.7	560	5.8	3.2	<0.001	0.04	2.65	0.2	1.6	0.3	18.7	<0.01	0.01
ZZ33110		0.07	24.0	870	27.8	13.2	0.001	0.22	8.93	0.3	6.8	0.6	53.5	<0.01	0.14
ZZ33111		0.10	15.2	540	8.8	7.2	<0.001	0.05	4.97	0.2	1.4	0.6	13.8	<0.01	0.09
ZZ33112		0.07	14.3	450	8.3	6.6	0.002	0.04	3.32	0.2	1.7	0.6	12.2	<0.01	0.05
ZZ33113		0.10	19.5	720	14.7	9.1	<0.001	0.04	3.36	0.2	1.8	0.4	13.8	<0.01	0.02
ZZ33114		0.06	35.9	990	19.5	12.8	0.001	0.04	4.93	0.2	2.8	0.5	12.5	<0.01	0.07
ZZ33115		0.06	26.1	1160	17.7	11.8	<0.001	0.05	4.20	0.1	2.5	0.4	16.2	<0.01	0.04
ZZ33116		0.06	25.0	1180	17.5	14.0	<0.001	0.06	4.32	0.1	2.5	0.6	17.5	<0.01	0.07
ZZ33117		0.08	17.6	750	13.8	7.8	<0.001	0.04	2.88	0.1	1.2	0.5	10.7	<0.01	0.04
ZZ33118		0.12	23.1	880	17.2	12.7	<0.001	0.04	3.43	0.3	2.3	0.5	12.6	<0.01	0.04
ZZ33119		0.12	21.8	1090	12.5	11.1	0.001	0.04	3.23	0.3	1.8	0.3	12.7	<0.01	0.05
ZZ33120		0.11	22.0	730	11.2	11.8	<0.001	0.03	3.13	0.3	1.4	0.4	9.7	<0.01	0.02
ZZ33121		0.20	69.8	2290	15.4	9.3	0.003	0.06	7.52	1.9	4.5	0.3	35.6	<0.01	0.11
ZZ33122		0.09	44.8	1920	14.9	10.5	<0.001	0.05	5.32	0.3	3.1	0.5	27.5	<0.01	0.06
ZZ33123		0.21	62.8	2190	12.8	19.7	0.003	0.10	4.84	0.3	9.1	0.5	47.3	<0.01	0.11
ZZ33124		0.12	19.0	550	6.8	7.4	<0.001	0.03	1.88	0.3	1.1	0.3	17.1	<0.01	<0.01
ZZ33125		0.15	64.9	950	13.3	5.2	0.002	0.05	3.82	3.6	3.2	0.2	38.8	<0.01	0.04
ZZ33126		0.16	14.4	410	12.4	10.9	<0.001	0.03	1.99	0.3	2.2	0.6	10.5	<0.01	0.03
ZZ33127		0.27	31.8	1280	18.3	12.1	<0.001	0.04	3.83	0.4	2.8	0.5	16.0	<0.01	0.05
ZZ33128		0.23	21.3	410	13.8	10.2	<0.001	0.03	2.80	0.6	2.3	0.5	10.4	<0.01	0.05
ZZ33129		0.15	27.4	750	12.9	10.5	<0.001	0.03	3.13	0.3	2.3	0.5	9.8	<0.01	0.04
ZZ33130		0.08	11.8	650	7.6	7.8	<0.001	0.03	1.48	0.1	0.9	0.4	7.8	<0.01	0.01
ZZ33131		0.14	30.5	920	16.5	13.4	<0.001	0.04	3.79	0.3	2.6	0.5	14.9	<0.01	0.06
ZZ33132		0.22	37.8	1230	16.0	12.5	0.001	0.07	6.10	0.7	3.8	0.4	21.4	<0.01	0.09



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ33091		0.018	0.08	0.32	23	<0.05	0.62	22	<0.5
ZZ33092		0.010	0.68	2.61	237	0.20	16.70	428	0.5
ZZ33093		0.006	0.24	0.46	81	0.13	1.81	94	<0.5
ZZ33094		0.005	0.20	1.68	50	0.13	3.48	77	<0.5
ZZ33095		0.009	0.07	0.27	16	<0.05	0.72	19	<0.5
ZZ33096		0.007	0.09	0.36	13	0.08	0.51	21	<0.5
ZZ33097		<0.005	1.52	14.50	440	0.45	18.70	42	1.0
ZZ33098		0.011	0.21	0.63	17	0.07	0.55	30	<0.5
ZZ33101		0.010	0.81	4.42	141	0.45	6.50	78	0.7
ZZ33102		0.007	0.45	1.39	64	0.09	4.42	173	<0.5
ZZ33103		<0.005	0.34	1.49	82	0.08	3.38	141	<0.5
ZZ33104		0.005	0.14	1.02	26	<0.05	2.21	69	<0.5
ZZ33105		<0.005	0.42	1.93	52	0.08	8.97	121	<0.5
ZZ33106		0.005	0.28	1.11	141	0.16	3.48	199	<0.5
ZZ33107		0.006	0.24	1.53	100	0.16	4.99	137	<0.5
ZZ33108		0.010	0.11	0.52	45	0.07	2.03	48	<0.5
ZZ33109		0.013	0.10	0.41	64	0.08	1.47	50	<0.5
ZZ33110		0.006	0.71	1.26	236	0.48	3.00	190	<0.5
ZZ33111		0.009	0.21	0.83	119	0.17	2.07	136	<0.5
ZZ33112		0.006	0.27	0.63	116	0.14	1.73	105	<0.5
ZZ33113		0.006	0.37	0.91	184	0.20	2.07	135	<0.5
ZZ33114		<0.005	0.45	1.08	220	0.17	2.36	226	<0.5
ZZ33115		<0.005	0.49	1.32	215	0.31	2.25	178	<0.5
ZZ33116		<0.005	0.65	1.50	299	0.21	2.42	177	<0.5
ZZ33117		0.005	0.43	0.82	196	0.20	1.90	129	<0.5
ZZ33118		0.005	0.57	0.98	257	0.24	2.15	158	0.8
ZZ33119		0.005	0.49	1.24	238	0.17	2.90	164	<0.5
ZZ33120		0.005	0.38	0.91	158	0.16	2.14	159	<0.5
ZZ33121		0.009	0.53	2.59	238	0.19	11.75	434	0.5
ZZ33122		0.005	0.48	1.76	223	0.20	6.13	288	<0.5
ZZ33123		<0.005	3.01	5.63	389	0.20	9.42	324	<0.5
ZZ33124		0.007	0.26	1.30	83	0.10	2.40	113	<0.5
ZZ33125		<0.005	0.19	2.58	72	0.05	20.8	281	1.7
ZZ33126		0.009	0.42	0.71	140	0.19	2.18	94	<0.5
ZZ33127		0.007	0.51	1.28	318	0.28	3.11	206	0.7
ZZ33128		0.009	0.52	0.71	225	0.24	2.45	141	<0.5
ZZ33129		0.007	0.36	0.77	167	0.22	2.14	163	<0.5
ZZ33130		<0.005	0.35	0.67	114	0.12	1.36	77	<0.5
ZZ33131		0.006	0.54	1.18	259	0.25	2.74	211	<0.5
ZZ33132		0.008	0.87	2.11	493	0.21	4.62	270	0.5



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ33133		0.23	0.003	1.71	0.99	16.6	<0.2	<10	310	0.33	0.25	0.02	0.35	29.8	3.6	20
ZZ33134		0.21	0.002	0.62	0.42	13.0	<0.2	<10	230	0.20	0.19	0.02	0.36	29.8	2.2	13
ZZ33135		0.30	0.002	0.83	0.65	12.9	<0.2	<10	300	0.25	0.21	0.02	0.68	19.95	3.0	13
ZZ33136		0.21	0.005	0.48	0.91	24.0	<0.2	<10	390	0.52	0.20	0.18	0.97	37.5	6.2	25
ZZ33137		0.17	0.001	1.84	0.32	1.7	<0.2	<10	290	0.08	0.04	0.03	0.60	5.02	0.9	3
ZZ33138		0.24	0.005	1.45	0.75	35.2	<0.2	<10	930	0.54	0.21	0.10	1.43	36.3	5.5	16
ZZ33139		0.24	0.005	5.17	0.96	58.7	<0.2	<10	1230	0.63	0.22	0.04	2.18	27.5	2.5	35
ZZ33140		0.12	0.001	1.37	0.19	1.2	<0.2	<10	110	<0.05	0.03	0.03	0.35	3.27	0.6	3
ZZ33141		0.21	0.003	0.58	0.41	17.7	<0.2	<10	580	0.19	0.29	0.01	0.39	31.2	2.5	9
ZZ33142		0.20	0.002	0.27	0.42	7.6	<0.2	<10	390	0.16	0.16	0.02	0.28	36.3	1.7	9
ZZ33143		0.17	0.005	1.65	0.75	17.0	<0.2	<10	760	0.18	0.26	0.02	1.08	25.0	1.9	10
ZZ33144		0.16	0.005	0.60	0.51	5.9	<0.2	<10	260	0.17	0.15	0.02	0.27	25.3	1.8	7
ZZ33145		0.19	0.013	0.86	0.42	8.7	<0.2	<10	650	0.16	0.27	0.01	0.38	39.5	1.2	8
ZZ33146		0.26	0.007	0.64	0.39	10.1	<0.2	<10	460	0.19	0.26	0.01	0.40	44.8	1.9	6
ZZ33147		0.24	0.003	1.33	0.49	12.6	<0.2	<10	670	0.18	0.34	0.01	0.44	37.6	2.7	10
ZZ33148		0.20	0.002	1.75	0.50	12.3	<0.2	<10	730	0.15	0.25	0.01	0.31	31.2	1.7	6
ZZ33149		0.16	0.006	0.93	0.46	21.9	<0.2	<10	740	0.17	0.23	0.01	0.43	37.3	2.7	8
ZZ33150		0.15	0.016	8.81	1.56	113.5	<0.2	<10	320	1.14	0.43	0.20	3.18	46.9	2.2	98
ZZ33201		0.21	0.005	0.62	0.69	18.8	<0.2	<10	2510	0.42	0.19	0.10	1.19	37.2	3.4	15
ZZ33202		0.21	0.004	1.13	1.00	23.1	<0.2	<10	1580	0.42	0.24	0.02	1.30	40.0	3.1	25
ZZ33203		0.26	0.002	0.52	0.44	18.6	<0.2	<10	540	0.20	0.23	0.01	0.45	52.3	2.0	9
ZZ33204		0.22	0.005	1.08	0.80	21.2	<0.2	<10	1650	0.53	0.21	0.04	0.92	43.3	2.5	17
ZZ33205		0.22	0.002	0.51	0.64	7.1	<0.2	<10	500	0.16	0.21	0.01	0.19	41.4	1.8	8
ZZ33206		0.20	0.004	0.59	0.42	4.7	<0.2	<10	450	0.14	0.19	0.02	0.33	24.5	1.2	8
ZZ33207		0.20	0.011	1.44	0.52	5.1	<0.2	<10	600	0.19	0.21	0.04	0.53	33.0	1.2	9
ZZ33208		0.29	0.002	0.37	1.09	6.2	<0.2	<10	640	0.28	0.15	0.02	0.37	40.6	1.3	10
ZZ33209		0.29	0.003	0.79	0.43	21.2	<0.2	<10	440	0.16	0.28	0.01	0.32	43.7	2.9	10
ZZ33210		0.21	0.002	0.68	0.60	10.5	<0.2	<10	560	0.17	0.20	0.05	0.37	25.1	1.8	7
ZZ33211		0.22	0.004	0.45	0.63	11.1	<0.2	<10	450	0.18	0.24	0.01	0.30	32.4	2.1	7
ZZ33212		0.28	0.008	1.15	0.92	39.8	<0.2	<10	980	0.44	0.38	0.02	0.84	54.4	2.9	16
ZZ33213		0.20	0.001	0.23	0.43	1.4	<0.2	<10	90	0.05	0.06	0.09	0.13	6.94	1.1	2
ZZ33214		0.20	0.004	0.88	0.42	15.8	<0.2	<10	560	0.12	0.25	0.01	0.41	20.0	2.1	8
ZZ33215		0.26	0.001	0.65	0.35	6.0	<0.2	<10	830	0.14	0.16	0.01	0.13	40.4	1.5	9
ZZ33216		0.17	0.004	0.70	0.35	9.4	<0.2	<10	830	0.18	0.19	0.03	0.86	20.8	0.6	13
ZZ33217		0.22	0.004	1.08	0.99	42.5	<0.2	<10	780	0.47	0.26	0.05	1.17	27.9	4.1	32
ZZ33218		0.30	0.004	1.56	0.57	19.3	<0.2	<10	2340	0.31	0.19	0.14	3.10	25.7	3.1	18
ZZ33219		0.23	0.007	3.32	1.07	37.5	<0.2	10	2100	0.95	0.19	1.88	19.30	29.2	5.2	82
ZZ33220		0.30	0.004	0.75	0.80	16.2	<0.2	<10	1810	0.50	0.24	0.32	3.64	31.9	4.6	27
ZZ33221		0.22	0.005	2.62	1.28	22.8	<0.2	<10	3220	0.86	0.23	0.47	6.75	17.25	4.8	45
ZZ33222		0.20	0.004	1.19	0.44	19.5	<0.2	<10	350	0.26	0.30	0.02	0.39	42.0	3.1	21



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Sample Description	Method Analyte Units LOR	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
		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
ZZ33133		1.16	25.4	2.20	4.42	0.05	0.03	0.08	0.021	0.09	14.9	3.7	0.09	88	10.70
ZZ33134		1.07	18.2	1.12	3.32	0.05	<0.02	0.03	0.012	0.06	17.6	1.3	0.03	22	13.30
ZZ33135		0.70	21.1	1.60	3.13	<0.05	<0.02	0.04	0.015	0.07	10.6	2.2	0.06	42	8.53
ZZ33136		0.76	34.1	2.20	3.30	0.07	<0.02	0.09	0.019	0.09	21.1	8.2	0.24	73	16.35
ZZ33137		0.29	6.3	0.39	1.12	<0.05	<0.02	0.05	<0.005	0.03	2.7	0.8	0.02	11	1.69
ZZ33138		0.78	58.3	2.37	3.09	0.06	0.03	0.13	0.030	0.13	21.1	5.6	0.10	42	30.7
ZZ33139		1.13	142.0	2.66	4.36	0.12	0.02	0.30	0.038	0.13	20.4	2.2	0.05	22	56.5
ZZ33140		0.24	5.2	0.38	0.93	<0.05	<0.02	0.06	<0.005	0.02	1.9	0.3	0.01	11	1.77
ZZ33141		1.11	30.7	1.88	3.00	0.05	<0.02	0.02	0.025	0.11	16.6	1.5	0.03	30	11.50
ZZ33142		1.10	33.2	1.09	2.60	<0.05	<0.02	0.03	0.014	0.07	18.7	0.9	0.02	25	6.22
ZZ33143		1.73	62.3	1.40	3.03	<0.05	<0.02	0.12	0.019	0.09	12.7	1.9	0.05	22	6.51
ZZ33144		1.16	30.8	1.08	2.33	<0.05	<0.02	0.04	0.010	0.05	12.8	0.8	0.02	25	3.85
ZZ33145		1.30	38.9	1.29	1.61	0.06	<0.02	0.08	0.020	0.09	19.3	0.8	0.02	17	4.86
ZZ33146		1.54	51.4	1.84	1.43	0.06	<0.02	0.07	0.025	0.09	22.3	1.0	0.02	45	5.08
ZZ33147		2.45	58.9	2.61	2.33	0.07	<0.02	0.04	0.032	0.10	18.0	0.9	0.02	31	7.36
ZZ33148		1.41	46.5	2.12	2.07	0.05	<0.02	0.03	0.024	0.11	14.3	0.7	0.02	21	6.38
ZZ33149		0.70	34.8	2.22	2.53	0.07	<0.02	0.03	0.026	0.11	18.5	1.6	0.04	27	10.80
ZZ33150		2.61	229	4.98	8.41	0.32	0.02	1.05	0.087	0.35	32.1	7.8	0.12	54	135.0
ZZ33201		0.79	48.3	1.87	2.51	0.07	0.02	0.08	0.020	0.12	20.5	6.5	0.22	48	12.35
ZZ33202		1.00	58.8	2.65	3.65	0.07	0.02	0.06	0.033	0.17	22.1	6.4	0.23	42	16.30
ZZ33203		1.70	38.7	1.56	2.94	0.07	<0.02	0.03	0.020	0.10	27.3	1.4	0.03	22	10.25
ZZ33204		0.94	53.2	2.15	2.36	0.07	0.03	0.09	0.033	0.13	23.3	5.4	0.17	38	13.65
ZZ33205		1.44	32.8	1.20	2.66	0.06	<0.02	0.01	0.012	0.07	21.0	1.3	0.02	27	4.29
ZZ33206		1.31	50.1	0.83	1.70	<0.05	<0.02	0.04	0.015	0.05	13.5	0.8	0.02	17	3.55
ZZ33207		1.82	26.4	1.18	1.86	<0.05	<0.02	0.09	0.019	0.07	18.1	1.1	0.02	21	3.71
ZZ33208		1.64	71.9	0.88	4.35	<0.05	<0.02	0.03	0.012	0.07	20.4	2.0	0.04	30	3.60
ZZ33209		1.03	34.2	1.74	3.29	0.05	<0.02	0.03	0.023	0.10	23.7	1.8	0.04	25	13.60
ZZ33210		2.49	57.2	1.41	2.63	<0.05	0.02	0.04	0.022	0.07	13.1	1.8	0.04	50	5.06
ZZ33211		2.34	41.7	1.88	2.25	0.05	0.02	0.03	0.024	0.09	18.3	1.0	0.02	45	6.09
ZZ33212		5.60	110.5	4.51	3.95	0.08	<0.02	0.07	0.072	0.16	27.3	4.3	0.12	69	19.85
ZZ33213		0.32	10.9	0.49	1.48	<0.05	0.03	0.03	0.006	0.03	3.3	0.6	0.02	31	0.72
ZZ33214		1.42	42.9	2.67	3.36	0.05	<0.02	0.09	0.046	0.24	9.2	0.9	0.02	27	29.8
ZZ33215		1.34	13.6	0.81	3.49	<0.05	<0.02	0.02	0.010	0.05	24.0	0.9	0.02	16	8.44
ZZ33216		1.12	18.5	0.51	3.15	0.05	<0.02	0.18	0.022	0.06	14.4	1.3	0.02	9	10.40
ZZ33217		1.06	42.6	2.78	5.29	0.09	0.03	0.10	0.033	0.07	18.2	6.2	0.14	43	26.0
ZZ33218		0.98	51.0	1.28	2.88	0.08	0.02	0.37	0.020	0.06	16.1	4.1	0.10	31	17.20
ZZ33219		1.80	137.0	1.79	3.94	0.14	0.09	0.49	0.031	0.17	19.3	16.0	0.63	74	33.7
ZZ33220		0.84	40.0	1.74	2.82	<0.05	<0.02	0.16	0.023	0.11	19.4	8.6	0.31	61	16.45
ZZ33221		1.42	70.9	2.01	4.78	0.05	0.02	0.40	0.030	0.15	10.2	10.0	0.36	93	18.90
ZZ33222		1.11	24.9	1.67	4.53	0.06	<0.02	0.05	0.020	0.08	25.0	1.5	0.04	26	23.1



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Sample Description	Method Analyte Units LOR	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	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ33133		0.15	27.0	2090	16.5	14.7	<0.001	0.04	2.64	0.4	2.2	0.5	15.2	<0.01	0.08	0.2
ZZ33134		0.12	19.4	520	12.8	10.3	<0.001	0.04	3.38	0.2	2.5	0.5	11.2	<0.01	0.06	<0.2
ZZ33135		0.10	24.8	1100	12.9	10.4	<0.001	0.04	2.62	0.2	1.5	0.4	13.1	<0.01	0.01	0.2
ZZ33136		0.27	55.5	2020	13.8	9.8	0.001	0.03	5.52	1.5	3.8	0.3	24.6	<0.01	0.06	1.3
ZZ33137		0.09	4.8	510	2.6	2.3	<0.001	0.03	0.49	0.1	<0.2	<0.2	7.6	<0.01	<0.01	<0.2
ZZ33138		0.16	57.4	1660	17.0	11.2	0.007	0.12	11.65	1.0	7.3	0.8	60.2	<0.01	0.14	0.5
ZZ33139		0.14	49.5	2680	17.0	12.5	0.007	0.22	26.1	0.5	25.6	0.9	232	<0.01	0.40	0.2
ZZ33140		<0.05	1.7	530	1.6	1.6	<0.001	0.04	0.45	<0.1	0.6	0.2	10.1	<0.01	<0.01	<0.2
ZZ33141		0.14	19.9	680	16.4	10.0	<0.001	0.19	3.72	0.4	3.4	0.4	45.9	<0.01	0.09	0.2
ZZ33142		0.09	9.5	570	9.0	6.3	<0.001	0.06	1.82	0.2	1.7	0.5	24.8	<0.01	0.06	<0.2
ZZ33143		0.17	12.7	1330	13.2	11.2	<0.001	0.16	2.37	0.4	3.2	0.4	64.6	<0.01	0.08	0.2
ZZ33144		0.15	9.1	690	7.0	6.7	<0.001	0.06	1.30	0.2	1.5	0.4	18.1	<0.01	0.01	<0.2
ZZ33145		0.13	8.9	660	13.4	11.3	<0.001	0.10	1.74	1.0	2.4	0.3	30.4	<0.01	0.09	1.4
ZZ33146		0.08	11.7	680	14.8	9.9	<0.001	0.10	2.09	1.3	2.2	0.2	53.9	<0.01	0.07	1.6
ZZ33147		0.16	17.9	1010	19.2	11.2	<0.001	0.12	2.25	0.8	2.3	0.6	47.8	<0.01	0.11	0.6
ZZ33148		0.19	12.8	780	16.0	9.8	<0.001	0.19	2.05	0.8	2.0	0.5	62.2	<0.01	0.08	1.2
ZZ33149		0.22	22.6	750	16.4	11.2	<0.001	0.18	4.07	1.4	3.8	0.4	67.7	<0.01	0.11	2.7
ZZ33150		1.21	41.4	6580	27.2	23.5	0.018	0.67	50.9	5.5	95.6	1.4	809	<0.01	0.88	2.6
ZZ33201		0.14	36.2	980	14.1	9.3	<0.001	0.14	4.77	1.2	4.3	0.4	56.4	<0.01	0.06	0.9
ZZ33202		0.24	34.3	1220	17.2	15.4	<0.001	0.13	5.57	1.6	4.0	0.4	62.7	<0.01	0.09	1.7
ZZ33203		0.11	14.7	770	14.9	10.4	<0.001	0.10	3.23	0.3	2.8	0.7	45.1	<0.01	0.08	0.3
ZZ33204		0.16	29.1	1430	14.2	10.9	<0.001	0.18	5.98	1.2	5.7	0.5	61.5	<0.01	0.11	1.1
ZZ33205		0.15	9.1	650	12.9	7.2	<0.001	0.06	1.34	0.4	1.3	0.4	34.1	<0.01	0.03	0.5
ZZ33206		0.14	6.7	570	7.7	5.7	<0.001	0.04	0.88	0.4	0.8	0.4	11.0	<0.01	0.04	0.4
ZZ33207		0.11	7.8	1070	11.3	7.5	<0.001	0.10	1.10	0.8	2.2	0.5	11.5	<0.01	0.03	0.4
ZZ33208		0.22	7.7	1060	7.7	7.9	<0.001	0.07	0.98	0.2	1.3	0.6	25.9	<0.01	0.01	<0.2
ZZ33209		0.20	21.3	560	20.1	12.4	<0.001	0.11	6.51	0.9	3.9	0.5	35.8	<0.01	0.10	1.5
ZZ33210		0.24	8.7	910	10.8	9.6	0.001	0.12	2.59	0.6	2.5	0.4	52.4	<0.01	0.05	0.4
ZZ33211		0.27	12.9	840	12.3	12.2	0.001	0.13	3.24	0.6	2.7	0.4	35.3	<0.01	0.08	0.5
ZZ33212		0.39	30.1	1910	21.5	14.6	<0.001	0.27	10.65	2.7	6.5	0.6	168.5	<0.01	0.21	2.4
ZZ33213		0.19	2.3	570	1.6	2.3	<0.001	0.03	0.27	0.2	0.3	0.2	10.8	<0.01	0.01	<0.2
ZZ33214		0.20	16.5	830	15.7	12.7	0.003	0.57	8.48	0.5	9.2	1.3	49.4	<0.01	0.11	0.2
ZZ33215		0.19	10.2	330	5.7	6.7	<0.001	0.03	2.87	0.4	1.0	1.2	8.7	<0.01	0.02	0.7
ZZ33216		0.09	5.5	1020	15.8	7.1	0.001	0.09	4.77	0.5	5.3	0.8	233	<0.01	0.08	0.4
ZZ33217		0.73	76.9	3060	16.6	12.9	0.003	0.09	17.40	1.1	9.7	0.7	119.5	<0.01	0.21	0.5
ZZ33218		0.24	37.6	1520	11.9	8.4	0.004	0.08	7.58	1.1	5.8	0.5	91.1	<0.01	0.09	0.4
ZZ33219		0.33	233	3530	13.9	18.8	0.008	0.14	17.40	2.5	11.6	0.6	142.0	0.01	0.18	0.8
ZZ33220		0.30	56.4	1120	12.3	9.7	0.003	0.06	7.23	1.5	4.2	0.4	40.8	<0.01	0.07	1.3
ZZ33221		0.36	94.1	1360	14.6	17.3	0.007	0.09	10.05	1.5	7.2	0.6	59.9	<0.01	0.12	0.4
ZZ33222		0.28	36.3	560	24.0	12.0	0.003	0.06	8.64	0.6	6.2	0.7	20.6	<0.01	0.11	0.2



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		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ33133		0.006	0.53	1.42	203	0.20	2.69	153	0.6
ZZ33134		0.008	0.48	0.81	231	0.19	2.30	141	<0.5
ZZ33135		0.006	0.32	0.99	165	0.15	2.20	152	<0.5
ZZ33136		0.012	0.71	2.22	349	0.27	7.25	396	1.2
ZZ33137		0.005	0.08	0.61	19	<0.05	1.93	28	<0.5
ZZ33138		0.006	0.72	2.76	257	0.17	7.01	414	0.8
ZZ33139		0.006	2.08	9.76	466	0.47	12.75	370	0.7
ZZ33140		0.005	0.08	0.83	20	<0.05	1.10	10	<0.5
ZZ33141		0.008	0.43	0.79	112	0.22	2.60	165	<0.5
ZZ33142		0.006	0.13	0.52	59	0.11	2.06	75	<0.5
ZZ33143		<0.005	0.42	1.35	82	0.15	4.72	79	0.6
ZZ33144		0.008	0.11	0.53	47	0.11	2.11	70	<0.5
ZZ33145		<0.005	0.18	0.95	45	0.08	3.27	65	<0.5
ZZ33146		<0.005	0.19	0.93	37	0.05	3.47	94	<0.5
ZZ33147		0.005	0.18	0.91	74	0.14	2.72	153	<0.5
ZZ33148		0.007	0.28	0.75	52	0.10	2.48	107	<0.5
ZZ33149		0.007	0.43	0.78	104	0.16	3.25	178	<0.5
ZZ33150		0.062	4.73	19.80	1240	1.01	31.3	209	1.3
ZZ33201		0.007	0.42	1.42	175	0.11	5.94	239	0.5
ZZ33202		0.007	0.63	1.90	325	2.04	4.20	258	0.6
ZZ33203		0.005	0.27	0.77	99	0.11	3.16	127	<0.5
ZZ33204		0.006	0.51	1.98	217	0.15	7.83	213	0.8
ZZ33205		0.006	0.15	0.59	59	0.08	2.06	76	<0.5
ZZ33206		0.006	0.09	0.89	38	0.06	2.02	43	<0.5
ZZ33207		0.005	0.09	0.62	30	<0.05	1.77	50	<0.5
ZZ33208		0.006	0.26	1.05	59	0.08	3.79	50	<0.5
ZZ33209		0.006	0.43	0.91	161	0.13	3.02	156	<0.5
ZZ33210		0.013	0.28	1.00	51	0.10	3.62	57	0.6
ZZ33211		0.008	0.21	1.05	65	0.09	2.49	126	0.7
ZZ33212		0.012	0.55	2.17	121	0.11	5.71	273	0.6
ZZ33213		0.016	0.06	0.35	13	<0.05	1.07	15	0.6
ZZ33214		0.011	0.64	1.23	97	0.30	1.73	126	<0.5
ZZ33215		0.010	0.46	0.63	136	0.78	2.19	92	<0.5
ZZ33216		0.008	1.04	1.99	147	0.19	3.99	56	<0.5
ZZ33217		0.009	1.32	5.11	331	0.31	8.40	323	0.8
ZZ33218		0.011	1.15	7.94	237	0.30	9.86	222	<0.5
ZZ33219		0.011	1.55	19.55	751	0.32	36.0	1980	2.7
ZZ33220		0.013	0.79	2.48	475	0.23	9.84	463	0.5
ZZ33221		0.010	1.41	4.62	785	0.25	12.20	640	0.6
ZZ33222		0.015	1.05	1.83	538	0.21	3.73	217	<0.5



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ33223		0.28	0.003	0.46	0.60	14.7	<0.2	<10	1020	0.33	0.17	0.63	1.70	27.7	5.1	18
ZZ33224		0.22	0.001	0.74	0.13	0.4	<0.2	<10	420	<0.05	0.02	0.11	0.14	1.10	0.5	1
ZZ33225		0.26	0.003	1.21	0.91	10.8	<0.2	<10	1640	0.52	0.16	1.09	1.91	19.65	5.5	16
ZZ33226		0.20	0.006	0.97	0.53	28.9	<0.2	<10	960	0.41	0.29	0.04	0.72	40.0	6.8	13
ZZ33227		0.19	0.001	0.73	0.13	0.2	<0.2	<10	70	<0.05	0.03	0.02	0.12	1.05	0.6	1
ZZ33228		0.15	0.001	1.37	0.26	2.1	<0.2	<10	450	0.10	0.04	0.04	0.44	3.53	0.5	6
ZZ33229		0.13	0.001	0.24	0.17	2.0	<0.2	<10	70	0.05	0.04	0.02	0.17	3.89	1.0	4
ZZ33230		0.16	0.001	0.71	0.09	<0.1	<0.2	<10	10	<0.05	0.02	0.02	0.01	0.62	0.4	1
ZZ33231		0.23	0.001	0.41	0.40	8.3	<0.2	<10	120	0.13	0.16	0.01	0.15	32.3	2.1	7
ZZ33232		0.20	0.003	1.01	0.39	7.7	<0.2	<10	130	0.10	0.17	0.01	0.12	27.6	1.6	9
ZZ33233		0.15	0.001	1.46	0.33	1.0	<0.2	<10	190	0.11	0.04	0.03	0.42	7.07	0.6	3
ZZ33234		0.23	0.006	3.03	0.67	30.2	<0.2	<10	1320	0.61	0.22	0.58	10.45	46.1	9.4	16
ZZ33235		0.23	0.005	1.88	0.77	26.2	<0.2	<10	1720	0.63	0.23	0.44	6.30	40.6	8.4	19
ZZ33236		0.27	0.004	1.07	0.79	24.4	<0.2	<10	1690	0.58	0.23	0.37	4.66	38.0	7.3	20
ZZ33237		0.22	0.002	0.46	0.51	13.7	<0.2	<10	540	0.24	0.24	0.01	0.56	35.7	5.2	11
ZZ33238		0.18	0.001	1.19	0.31	7.3	<0.2	<10	720	0.09	0.14	0.02	0.31	20.2	0.7	4
ZZ33239		0.26	0.005	1.40	1.15	32.1	<0.2	<10	910	0.52	0.27	0.16	0.90	43.7	9.4	21
ZZ33240		0.34	0.003	5.98	0.26	58.4	<0.2	<10	240	0.12	0.46	0.01	0.51	80.3	0.1	9
ZZ33241		0.20	0.013	0.84	0.64	5.8	<0.2	<10	630	0.20	0.28	0.03	0.58	50.4	1.9	16
ZZ33242		0.21	0.022	1.47	0.62	17.4	<0.2	<10	550	0.26	0.35	0.05	0.84	43.5	1.6	14
ZZ33243		0.26	0.005	0.49	0.58	55.1	<0.2	<10	570	0.15	0.22	0.03	0.36	28.9	2.7	8
ZZ33244		0.24	0.014	1.08	0.50	11.9	<0.2	<10	1600	0.20	0.32	0.03	0.56	37.0	1.7	19
ZZ33245		0.22	0.004	0.75	0.53	6.8	<0.2	<10	590	0.19	0.19	0.02	0.35	40.8	0.9	10
ZZ33246		0.28	0.003	0.51	0.50	17.0	<0.2	<10	470	0.16	0.45	0.01	0.30	46.6	2.0	9
ZZ33247		0.22	0.004	0.57	0.51	19.4	<0.2	<10	610	0.18	0.15	0.01	0.78	26.3	1.3	10
ZZ33248		0.22	0.002	0.64	0.52	17.2	<0.2	<10	600	0.15	0.25	0.01	0.33	49.5	2.1	11
ZZ33249		0.17	0.004	1.07	0.66	24.2	<0.2	<10	1500	0.32	0.21	0.05	1.66	43.9	2.8	14
ZZ33250		0.21	0.005	0.92	0.56	23.4	<0.2	<10	1660	0.31	0.19	0.08	1.14	41.8	2.8	12



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CERTIFICATE OF ANALYSIS WH12198907

Sample Description	Method Analyte Units LOR	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
		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
ZZ33223		0.55	23.4	1.62	2.48	<0.05	0.03	0.06	0.020	0.07	14.6	5.7	0.24	111	12.65
ZZ33224		0.09	2.7	0.22	0.49	<0.05	<0.02	0.03	<0.005	0.02	0.6	0.2	0.02	10	0.21
ZZ33225		0.69	41.0	1.51	2.33	<0.05	0.04	0.29	0.022	0.07	11.3	5.4	0.27	118	16.40
ZZ33226		1.55	55.1	2.74	3.02	0.05	<0.02	0.11	0.038	0.12	24.8	4.6	0.09	63	53.9
ZZ33227		0.11	2.1	0.25	0.61	<0.05	<0.02	0.04	<0.005	0.02	0.6	0.2	0.01	11	0.29
ZZ33228		0.44	12.5	0.33	1.06	<0.05	<0.02	0.11	0.006	0.03	2.2	0.4	0.02	8	3.88
ZZ33229		0.41	3.4	0.38	1.02	<0.05	<0.02	0.05	<0.005	0.03	2.4	0.6	0.02	11	10.00
ZZ33230		0.10	0.7	0.19	0.50	<0.05	<0.02	0.02	<0.005	0.02	0.3	0.2	0.01	9	0.16
ZZ33231		1.14	12.4	0.85	3.25	<0.05	<0.02	0.02	0.009	0.06	19.2	1.3	0.04	17	7.83
ZZ33232		0.92	11.0	0.75	3.16	<0.05	<0.02	0.02	0.009	0.06	15.8	1.2	0.03	15	7.49
ZZ33233		0.23	10.0	0.31	0.94	<0.05	0.02	0.03	0.005	0.03	3.6	0.4	0.01	8	0.94
ZZ33234		1.39	132.0	2.66	2.16	0.08	0.02	0.24	0.037	0.13	27.7	8.4	0.20	165	30.1
ZZ33235		1.15	65.6	2.56	2.40	0.08	0.02	0.26	0.031	0.13	24.3	6.6	0.24	139	28.9
ZZ33236		1.08	61.3	2.34	2.70	0.06	0.03	0.26	0.032	0.10	22.7	6.0	0.20	142	27.4
ZZ33237		0.90	25.6	2.07	2.65	<0.05	0.02	0.05	0.023	0.08	19.4	2.3	0.06	43	9.45
ZZ33238		0.86	20.5	0.75	1.92	<0.05	<0.02	0.05	0.021	0.06	9.8	0.7	0.02	11	2.96
ZZ33239		1.62	63.4	3.07	3.02	0.07	0.06	0.11	0.045	0.14	23.5	8.3	0.26	376	14.40
ZZ33240		1.64	83.6	2.70	3.49	0.13	<0.02	0.08	0.114	0.28	34.9	0.8	0.01	8	9.83
ZZ33241		1.87	38.1	1.37	2.56	0.05	<0.02	0.06	0.024	0.08	25.3	0.9	0.03	33	4.11
ZZ33242		2.59	69.1	1.49	2.04	<0.05	<0.02	0.13	0.047	0.06	22.1	0.6	0.02	24	4.82
ZZ33243		1.12	37.4	1.72	2.79	0.06	<0.02	0.04	0.024	0.08	16.4	1.8	0.06	53	8.11
ZZ33244		2.13	56.5	1.49	2.14	<0.05	<0.02	0.08	0.025	0.07	20.1	0.7	0.02	23	6.13
ZZ33245		1.55	33.0	0.89	2.23	<0.05	<0.02	0.04	0.020	0.06	22.5	1.0	0.02	17	3.64
ZZ33246		1.82	38.1	1.86	2.91	0.05	<0.02	0.04	0.018	0.09	26.0	1.5	0.03	29	9.94
ZZ33247		0.87	36.0	1.23	2.00	<0.05	<0.02	0.07	0.021	0.08	14.4	1.7	0.04	14	9.15
ZZ33248		1.53	38.9	1.68	2.72	0.08	<0.02	0.02	0.019	0.10	28.2	1.3	0.03	19	13.15
ZZ33249		1.05	55.2	1.96	2.22	0.07	<0.02	0.11	0.028	0.13	25.2	3.6	0.10	26	13.40
ZZ33250		0.76	50.0	1.87	1.88	0.06	0.02	0.09	0.023	0.12	24.0	3.2	0.09	51	13.75



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Sample Description	Method Analyte Units LOR	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	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ33223		0.24	42.1	1220	11.2	7.7	0.002	0.04	5.79	1.2	3.0	0.3	35.2	<0.01	0.05
ZZ33224		0.08	1.7	240	0.4	0.8	0.001	0.03	0.14	0.2	<0.2	<0.2	10.0	<0.01	<0.01
ZZ33225		0.25	73.5	1010	8.2	8.6	0.004	0.06	3.89	2.1	2.9	0.5	42.5	<0.01	0.03
ZZ33226		0.27	85.4	1230	19.8	13.7	0.013	0.11	8.29	1.0	6.9	0.6	27.0	<0.01	0.11
ZZ33227		<0.05	1.4	330	0.9	0.7	0.005	0.02	0.31	<0.1	0.3	<0.2	5.4	<0.01	<0.01
ZZ33228		0.07	8.5	490	1.3	2.2	0.003	0.05	1.73	0.1	4.1	0.2	12.9	<0.01	0.03
ZZ33229		<0.05	12.9	360	1.6	2.7	<0.001	0.02	1.07	0.1	0.4	0.2	3.7	<0.01	<0.01
ZZ33230		0.06	0.6	190	0.3	0.8	<0.001	0.02	0.05	0.1	<0.2	<0.2	4.9	<0.01	<0.01
ZZ33231		0.18	14.8	330	9.1	9.4	<0.001	0.02	2.63	0.4	0.9	0.5	6.6	<0.01	0.03
ZZ33232		0.18	12.2	370	9.9	8.1	0.001	0.02	2.31	0.5	1.5	0.6	8.4	<0.01	0.03
ZZ33233		0.15	3.7	450	1.7	1.7	<0.001	0.02	0.37	0.3	0.4	0.2	7.8	<0.01	<0.01
ZZ33234		0.19	112.5	2030	17.0	10.4	0.012	0.07	13.85	3.0	8.7	0.5	66.4	<0.01	0.09
ZZ33235		0.19	92.4	1860	17.5	9.9	0.008	0.11	11.00	2.0	6.7	0.5	79.9	<0.01	0.10
ZZ33236		0.14	82.9	1550	16.3	10.0	0.007	0.09	10.20	1.5	8.2	0.5	76.4	<0.01	0.09
ZZ33237		0.11	47.7	880	16.3	9.3	0.001	0.04	4.08	0.6	2.6	0.5	19.3	<0.01	0.04
ZZ33238		0.19	4.1	510	7.1	5.6	0.002	0.11	1.86	0.3	3.2	0.3	22.5	<0.01	0.04
ZZ33239		0.41	39.0	2320	18.1	12.9	0.004	0.20	7.42	1.9	5.8	0.5	72.6	<0.01	0.10
ZZ33240		0.05	2.1	1250	37.2	18.5	<0.001	0.75	33.8	1.5	26.1	0.6	160.0	<0.01	0.33
ZZ33241		0.14	11.2	810	14.0	8.5	0.001	0.06	1.35	1.1	1.3	0.7	14.8	<0.01	0.07
ZZ33242		0.23	10.2	940	16.3	8.5	0.001	0.08	2.21	0.8	2.6	0.6	32.1	<0.01	0.06
ZZ33243		0.25	16.6	700	12.7	8.4	<0.001	0.12	4.35	0.5	3.7	0.4	43.2	<0.01	0.06
ZZ33244		0.27	10.9	710	15.4	7.8	<0.001	0.09	2.67	0.8	3.1	0.9	29.7	<0.01	0.07
ZZ33245		0.14	8.7	650	12.7	7.3	0.001	0.05	0.94	0.4	1.3	0.5	20.0	<0.01	0.06
ZZ33246		0.23	16.5	730	16.4	9.6	0.001	0.09	3.71	0.7	2.3	0.6	42.8	<0.01	0.09
ZZ33247		0.08	15.3	1010	11.0	7.9	<0.001	0.11	3.17	0.1	2.4	0.3	30.7	<0.01	0.08
ZZ33248		0.15	18.9	760	18.5	10.8	0.001	0.10	4.95	0.4	3.1	0.6	35.1	<0.01	0.08
ZZ33249		0.13	31.8	1160	17.9	11.1	0.003	0.17	5.60	0.8	4.8	0.3	55.7	<0.01	0.08
ZZ33250		0.11	30.6	1320	15.5	8.8	0.003	0.15	5.98	0.6	4.6	0.3	51.6	<0.01	0.08



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ33223		0.011	0.40	1.96	226	0.16	6.19	299	1.2
ZZ33224		0.011	0.06	0.29	10	<0.05	0.80	7	<0.5
ZZ33225		0.009	0.48	6.92	130	0.14	17.95	286	1.2
ZZ33226		0.007	0.40	3.95	157	0.13	8.67	491	<0.5
ZZ33227		0.006	0.06	0.52	12	<0.05	0.64	5	<0.5
ZZ33228		0.006	0.35	3.08	70	<0.05	1.81	26	<0.5
ZZ33229		0.007	0.17	0.66	40	<0.05	0.88	55	<0.5
ZZ33230		0.011	0.02	0.08	8	<0.05	0.10	3	<0.5
ZZ33231		0.010	0.25	0.63	111	0.14	1.78	107	<0.5
ZZ33232		0.009	0.34	0.54	123	0.13	1.69	91	<0.5
ZZ33233		0.010	0.07	1.69	21	<0.05	3.36	13	0.5
ZZ33234		0.007	0.51	4.36	197	0.16	20.3	1030	0.9
ZZ33235		0.007	0.64	4.38	264	0.53	18.35	628	0.7
ZZ33236		0.007	0.70	3.71	272	0.23	16.90	563	0.5
ZZ33237		0.005	0.39	1.06	170	0.12	3.82	391	0.5
ZZ33238		0.010	0.14	0.79	22	0.06	1.76	21	<0.5
ZZ33239		0.012	0.49	2.52	122	0.15	7.93	275	1.9
ZZ33240		<0.005	0.68	0.95	42	<0.05	5.79	16	<0.5
ZZ33241		0.006	0.14	0.80	50	0.07	2.79	88	<0.5
ZZ33242		0.008	0.09	1.22	40	0.07	2.97	78	<0.5
ZZ33243		0.014	0.34	0.86	66	0.11	3.08	110	<0.5
ZZ33244		0.010	0.09	1.24	65	0.10	3.32	68	<0.5
ZZ33245		0.006	0.11	0.77	46	0.09	2.23	40	<0.5
ZZ33246		0.005	0.29	0.87	112	0.15	2.95	145	<0.5
ZZ33247		<0.005	0.28	1.16	117	0.12	3.07	118	<0.5
ZZ33248		0.006	0.29	0.91	152	0.12	2.97	151	<0.5
ZZ33249		0.005	0.43	1.77	153	0.12	5.94	222	0.5
ZZ33250		<0.005	0.36	1.78	137	0.16	6.23	219	0.7



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



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P.O. No.:

This report is for 1 Rock sample submitted to our lab in Whitehorse, YT, Canada on 26- AUG- 2012.

The following have access to data associated with this certificate:

SARAH EATON

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME- MS41	51 anal. aqua regia ICPMS
Au- AA24	Au 50g FA AA finish AAS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Project: Harken

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CERTIFICATE OF ANALYSIS WH12198908

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	ME- MS41 Ag ppm 0.01	ME- MS41 Al % 0.01	ME- MS41 As ppm 0.1	ME- MS41 Au ppm 0.2	ME- MS41 B ppm 10	ME- MS41 Ba ppm 10	ME- MS41 Be ppm 0.05	ME- MS41 Bi ppm 0.01	ME- MS41 Ca % 0.01	ME- MS41 Cd ppm 0.01	ME- MS41 Ce ppm 0.02	ME- MS41 Co ppm 0.1	ME- MS41 Cr ppm 1	ME- MS41 Cs ppm 0.05
G006234		1.05	0.22	1.73	19.6	<0.2	<10	120	0.11	0.32	0.24	0.02	6.29	8.5	9	0.38



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Sample Description	Method Analyte Units LOR	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	ME-MS41
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		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	0.05
G006234		5.4	4.53	4.12	0.05	0.05	<0.01	0.008	0.09	3.0	52.1	0.98	751	2.67	0.03	1.09

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



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CERTIFICATE OF ANALYSIS WH12198908

Sample Description	Method Analyte Units LOR	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	ME- MS41
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
G006234		1.8	410	11.6	3.1	<0.001	1.51	1.90	3.7	0.3	0.3	20.4	0.02	0.03	2.0	0.187



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti ppm 0.02	ME- MS41 U ppm 0.05	ME- MS41 V ppm 1	ME- MS41 W ppm 0.05	ME- MS41 Y ppm 0.05	ME- MS41 Zn ppm 2	ME- MS41 Zr ppm 0.5	Au- AA24 Au ppm 0.005
G006234		0.06	0.54	23	0.29	2.43	87	1.3	<0.005



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