

ASSESSMENT REPORT ON  
SOIL SAMPLING  
WEST PORCUPINE PROJECT

KEITH & MUSKEGO TOWNSHIPS  
PORCUPINE DISTRICT, ONTARIO

Submitted to:  
GEOSCIENCE ASSESSMENT OFFICE  
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## Table of Contents

INTRODUCTION .....	1
LOCATION AND ACCESS .....	1
GEOLOGY .....	3
PREVIOUS WORK .....	5
SOIL SAMPLING 2016 PROGRAM .....	6
RESULTS .....	12
CONCLUSIONS & RECOMMENDATIONS .....	12
REFERENCES .....	20

## List of Figures:

Figure 1 - Location of the West Porcupine Project .....	2
Figure 2 – General Geology of the West Porcupine Project Area .....	4
Figure 3 – Soil Sample Sites .....	7
Figure 4 - Response Ratios Line1 .....	15
Figure 5 - Response Ratios Line 2 .....	16
Figure 6 - Response Ratios Line 3 .....	17
Figure 7 - Response Ratios Line 4 .....	18
Figure 8 - Response Ratios Line 5 .....	19

## List of Tables:

Table 1 – Mineral Claim Information .....	1
Table 2 - Soil Sample Location Data .....	8
Table 3 – Detection Limits and the suite of elements for 1D Enhanced .....	10
Table 4 – Detection Limits and the suite of elements for Ultratrace I.....	11
Table 5 - Detection Limits for MMI® Analysis .....	11
Table 6 MMi Soil Sample Analytical Results and Response Ratios .....	13

## List of Appendices:

- Appendix I: Certificate of Analyses – SGS
- Appendix II: Certificate of Analyses – Actlabs
- Appendix III: Large scale Soils sampling Results Maps

## INTRODUCTION

From February to May 2016, Probe Metals Inc acquired 100% interest in a number of land packages to build the West Porcupine project, approximately 50km southwest of Timmins, Ontario. The property comprises 2 separate claim blocks, an eastern group located in Sewell, Reeves, Kenogaming and Penhorwood Townships; and a western block located in Foley yet, Muskego, Reeves, Keith and Ivanhoe Townships.

A soil sampling program was completed in May 2016 over a few claims in the western block of claims, specifically on 4271236, 4271215 and 4275388. The program was designed to test the response of a known gold zone located on the property.

The activities described in this report and completed on these claims do not require an exploration plan or permit to be issued.

All maps coordinates are UTM Nad 83, Zone 17. All costs are in Canadian dollars.

## LOCATION AND ACCESS

From February to May 2016, Probe Metals Inc acquired 100% interest in a number of land packages to build the West Porcupine project. The property comprises 2 separate claim blocks, an eastern group located in Sewell, Reeves, Kenogaming and Penhorwood Townships; and a western block located in Foley yet, Muskego, Reeves, Keith and Ivanhoe Townships.

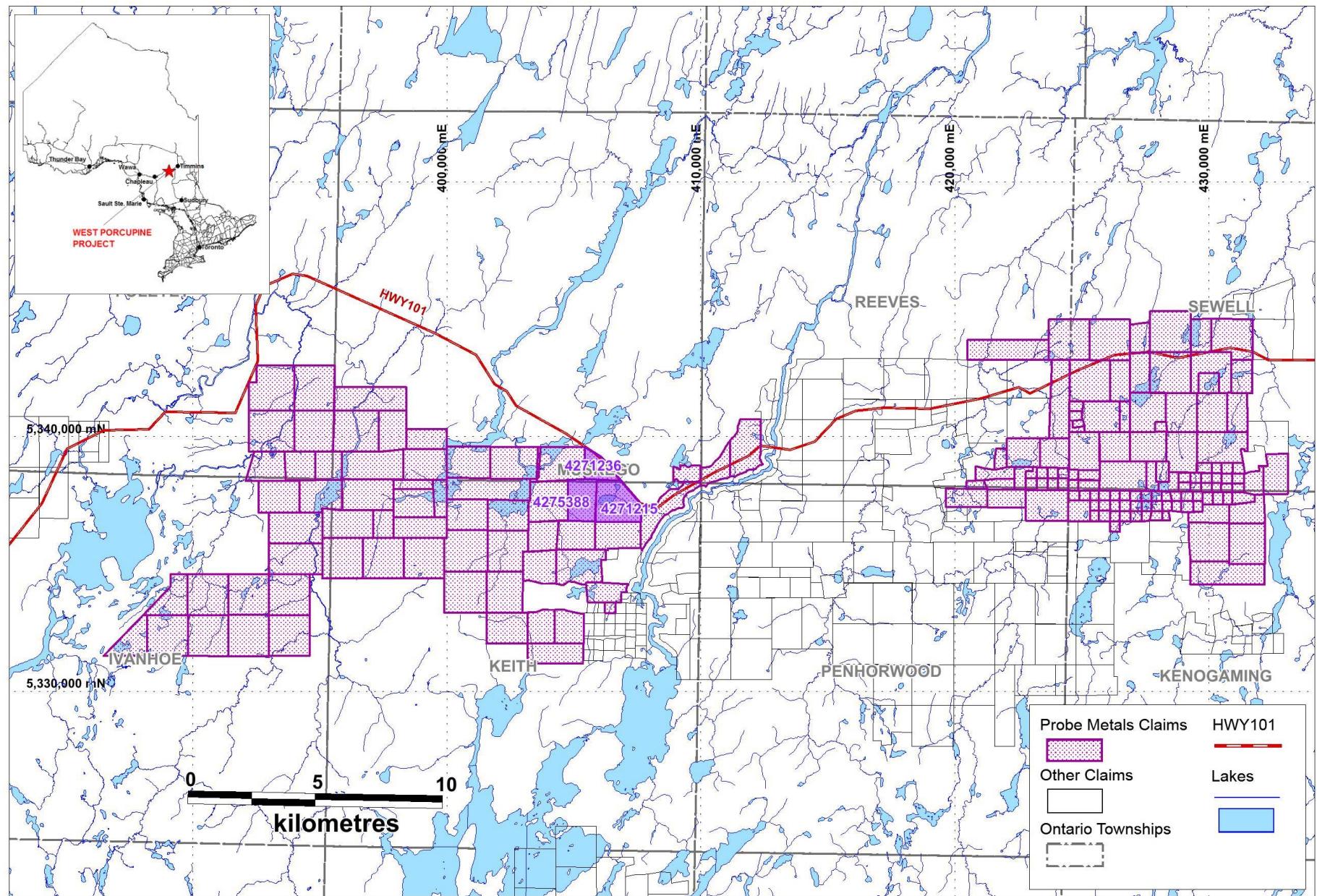
The West Porcupine project is located in 1:50,000 NTS topographic sheets 42B/01 and 42A/04, approximately 50 km southwest of the city of Timmins (Figure 1). Access to the property is via Highway 101.

The current report details work applicable to claims 4271236, 4271215 and 4275388 located in Muskego and Keith Townships as detailed in Table 1. The activities described in this report and completed on these claims do not require an exploration plan or permit to be issued.

The amount of credits applied from the work completed as detailed in this report is \$12,258 and is being used towards keeping the project claims in good standing.

**Table 1 – Mineral Claim Information**

Claim#	District	Claim Due Date	Township	NTS	Units	Work Required
4271236	POR	October-15-16	MUSKEGO	42B01	7	\$2,800
4275388	POR	June-12-16	KEITH	42B01	11	\$4,400
4271215	POR	September-30-16	KEITH	42B01	15	\$6,000



**Figure 1 - Location of the West Porcupine Project (Claims in this report are labeled)**

## GEOLOGY

The West Porcupine Project is located in the Superior Province of Northern Ontario. The Superior Province is divided into numerous Subprovinces, bounded by linear faults and characterized by differing lithologies, structural/tectonic conditions, ages and metamorphic conditions. The Subprovinces are divided into 4 categories: Volcano-plutonic; Metasedimentary; Gneissic/plutonic; and High-grade gneissic (Thurston, 1991). The rocks range in age from 3.5Ga to less than 2.76 Ga and form an east-west trending pattern of alternating terranes.

The property lies within the Abitibi Subprovince, proximal to its western boundary with the Kapuskasing Structural Zone and the Ivanhoe Lake Cataclastic Zone. The Abitibi Subprovince, is a volcano-plutonic terrane comprising low metamorphic grade metavolcanic-metasedimentary belts. It contains lithologically diverse metavolcanic rocks with various intrusive suites and to a lesser extent chemical and clastic metasedimentary rocks. The individual greenstone belts within the Subprovince have been intruded, deformed and truncated by felsic batholiths. The east trending Abitibi and Swayze greenstone belts of the Abitibi Subprovince have historically been explored and mined for a variety of commodities.

The West Porcupine project is situated in the northeast part of the Swayze Greenstone belt and may be a possible western extension of the Abitibi Greenstone belt. In this area of the Northern Swayze belt, the supracrustal rocks are easterly trending and can be divided into 3 distinct assemblages: the Muskego-Reeves, the Horwood and the Hanrahan assemblages (Figure 2).

The Muskego-Reeves assemblage occurs in the northwest part of the belt. It is comprised of mafic flows intercalated with ultramafic volcanic flows, iron formation, clastic sedimentary rocks and localized accumulations of intermediate to felsic flows and pyroclastic rocks. There is an extensive clastic sedimentary unit in the uppermost stratigraphic extents of the assemblage that contains conglomerate, wacke, and mudstone. The Horwood assemblage is located in the central-south regions of the belt and is predominately comprised of tholeiitic mafic flows with minor intercalations of fine-grained clastic sedimentary rocks, calc-alkalic pyroclastic rocks and ultramafic flows. The Hanrahan assemblage, confined to the southeastern part of the belt, is composed predominately of calc-alkalic intermediate and felsic volcanic rocks that have been intruded by extensive ultramafic and gabbroic sills. A relatively thin, but laterally extensive iron formation unit caps the Hanrahan.

Massive, medium-grained, cumulate-textured ultramafic rock units extensively occur as sill-like bodies in all the assemblages. In the Muskego-Reeves assemblage, these units locally grade into ultramafic flows along strike and may represent proximal-facies flows or feeder intrusions.

Granitoid intrusions present in the region can be classified as early foliated and late massive rock units. The early intrusions are more sodic in composition and are predominately tonalite and granodiorite. Their occurrence is most abundant in the large

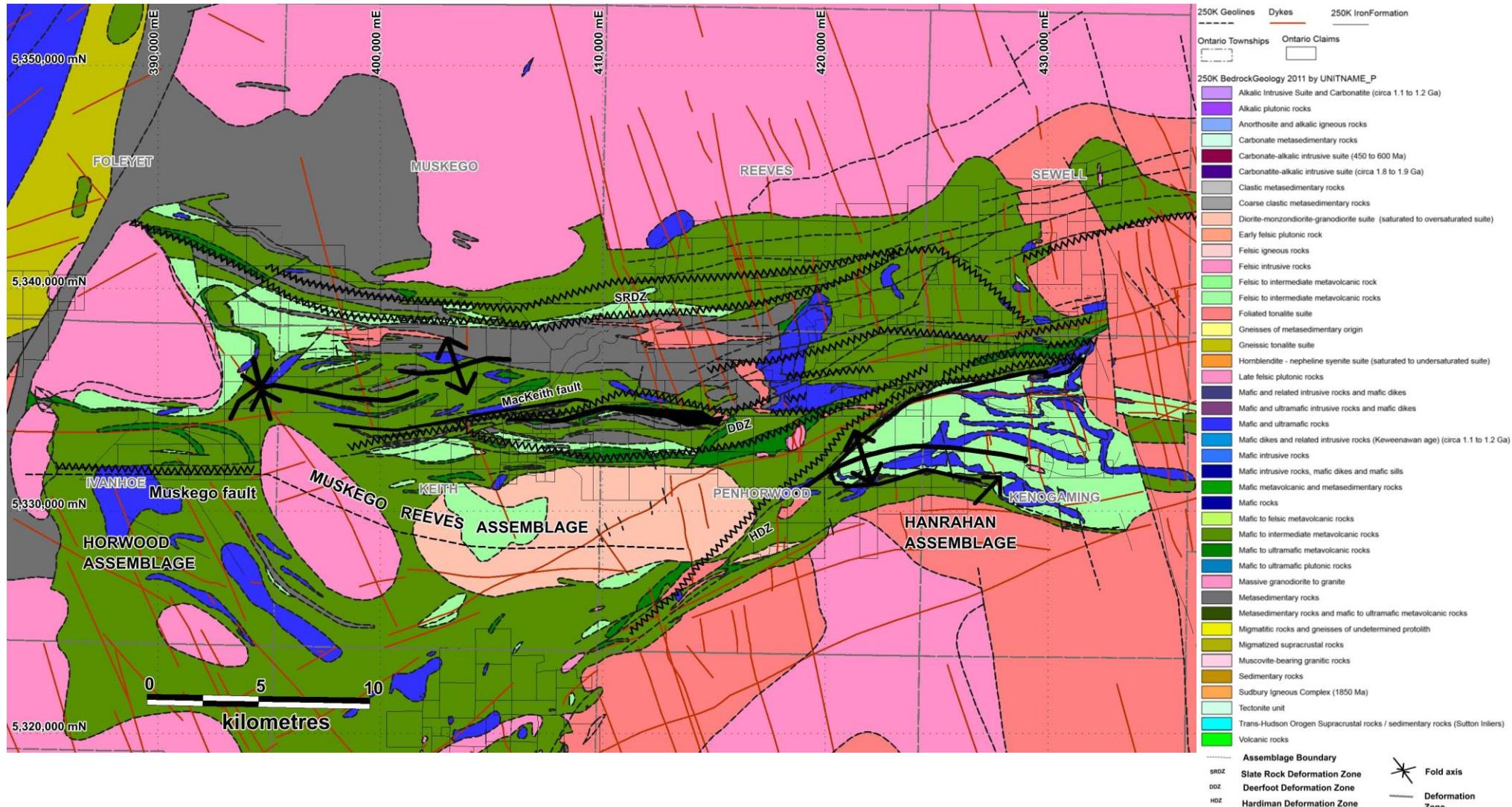


Figure 2 – General Geology of the West Porcupine Project Area (after Ayer, 1995)

granitic complexes outside the supracrustal sequence, including the Kenogamissi batholith, the Nat River granitic complex and the Tom Smith Lake granitic complex. Within the supracrustal assemblages, smaller, early intrusions of foliated porphyry, granodiorite and granite occur. The late intrusions include bodies such as the Ivanhoe Lake, Hoodoo Lake and Kukatsh plutons and consist predominantly of massive to weakly foliated granodiorite, granite and monzonite, with minor diorite, syenite, gabbro and clinopyroxenite. These occur within the supracrustal rocks, and parts of the larger external granitic complexes mentioned above.

Throughout the property area, there are widespread ductile deformation zones representing the earliest generation of faulting. These easterly trending early faults are truncated by less extensive brittle-ductile faults. The last generation of brittle faults are not well exposed and do not appear to have any significant ductile deformation (Ayer, 1995).

Three zones associated with the early faults that are found regionally include the Slate Rock Deformation Zone (SRDZ), the Deerfoot Deformation zone (DFZ) and the Hardiman Deformation Zone (HDZ). The SRDZ is the most extensive of these, up to 1.5 km wide. Many of the deformation zones are locally auriferous and have been the focus of gold exploration in the past.

It has been proposed that the Porcupine-Destor fault could strike southwest into the project area. These east-northeasterly trending ductile deformation zones could represent the suggested extension (Ayer, 1995; Milne 1972; Jackson and Fyon 1991).

## PREVIOUS WORK

Numerous exploration programs have been conducted in the region primarily because of the speculated continuity with the Abitibi greenstone belt and Porcupine Destor Deforamtion zone. Commodities explored for by various companies include gold, base metals, iron, and industrial minerals such as asbestos, talc, silica and barite. A few mines have been established (Reeves asbestos mine, Penhorwood talc mine, Joburke gold mine) and a number of undeveloped deposits have been discovered.

Of specific interest to the soils sampling program that is the subject of this report, is the work completed by Utah Mines in the 1980's as described in assessment reports. In 1985, Utah Mines Limited completed ground geophysical surveys including Induced polarization, magnetics and electro-magnetics, discovering numerous anomalous zones (AFRI 42B01NE0007 and 42B01NE0012). A soil sampling survey was also conducted, with one sample retuning 850ppb Au (AFRI 42B01NE0013). Drilling was completed in 1986 discovering the Utah Zone returning assay intervals such as 3.13g/t Au over 2.44m in BL86-13 (AFRI 42B01NE0007). Additional drilling was completed in 1989 (AFRI 42B01NE0004).

## **SOIL SAMPLING 2016 PROGRAM**

### **Survey Specifications**

On May 17 and 18, 2016, Probe Metals Inc. conducted a soil sampling survey on three claims (4271236, 4271215 and 4275388) that are part of the West Porcupine project. Work was planned and completed by Sharon Allan. Ms. Allan was assisted in the field by Luxshni Kirupakaran, a student hired by Probe Metals for its summer program on the West Porcupine project. The results compilation and report writing was completed by Sharon Allan.

Grid lines were oriented north-south and were 200m apart, except for L4 and L5 which were 130m apart. Samples were 50m apart. Eighty (80) samples were collected at forty (40) sites, two (2) samples taken at each site both of which sampled B Horizon material. Strict sampling procedure was adhered to with the collection a fist sized sample of the inorganic soil horizon at a depth between 10 and 20cm below the surface of inorganic soil development. Sampling methodology employed a tree planting shovel or auger to collect the target material, placing the sample material into a small sized ziploc plastic bag. Each bag was numbered and a tyvec sample tag placed inside. The location of each site was recorded using a GPS (Global Positioning System). Comments on material sampled were recorded at each sample site. Equipment was cleaned prior to the next sample site. The locations of the samples are summarized in Table 2 and illustrated in Figure 3.

Even numbered samples were sent for MMI-M analysis at SGS Laboratories and odd numbered samples were sent for 1D Enhanced and Ultratrace I analyses at Activation Laboratories.

### **Sample Treatment & Analysis**

#### *Activation Laboratories*

1D Enhanced, a thirty five (35) multi-element package, is an instrumental neutron activation analysis and is a technique dependent on measuring gamma radiation induced in the sample by irradiation with neutrons. A nuclear reactor is normally the primary source of neutrons for irradiation. Each element that is activated emits a "fingerprint" of gamma radiation which can be measured and quantified. Multi-element analyses of practically any material from the smallest sample which can be weighed accurately to very large samples are routinely analyzed by INAA. A 30 g aliquot, if available, is encapsulated in a polyethylene vial and irradiated with flux wires at a thermal neutron flux of  $7 \times 10^{12} \text{ n cm}^{-2} \text{ s}^{-1}$ . After a 7-day decay to allow Na-24 to decay the samples are counted on a high purity Ge detector with resolution of better

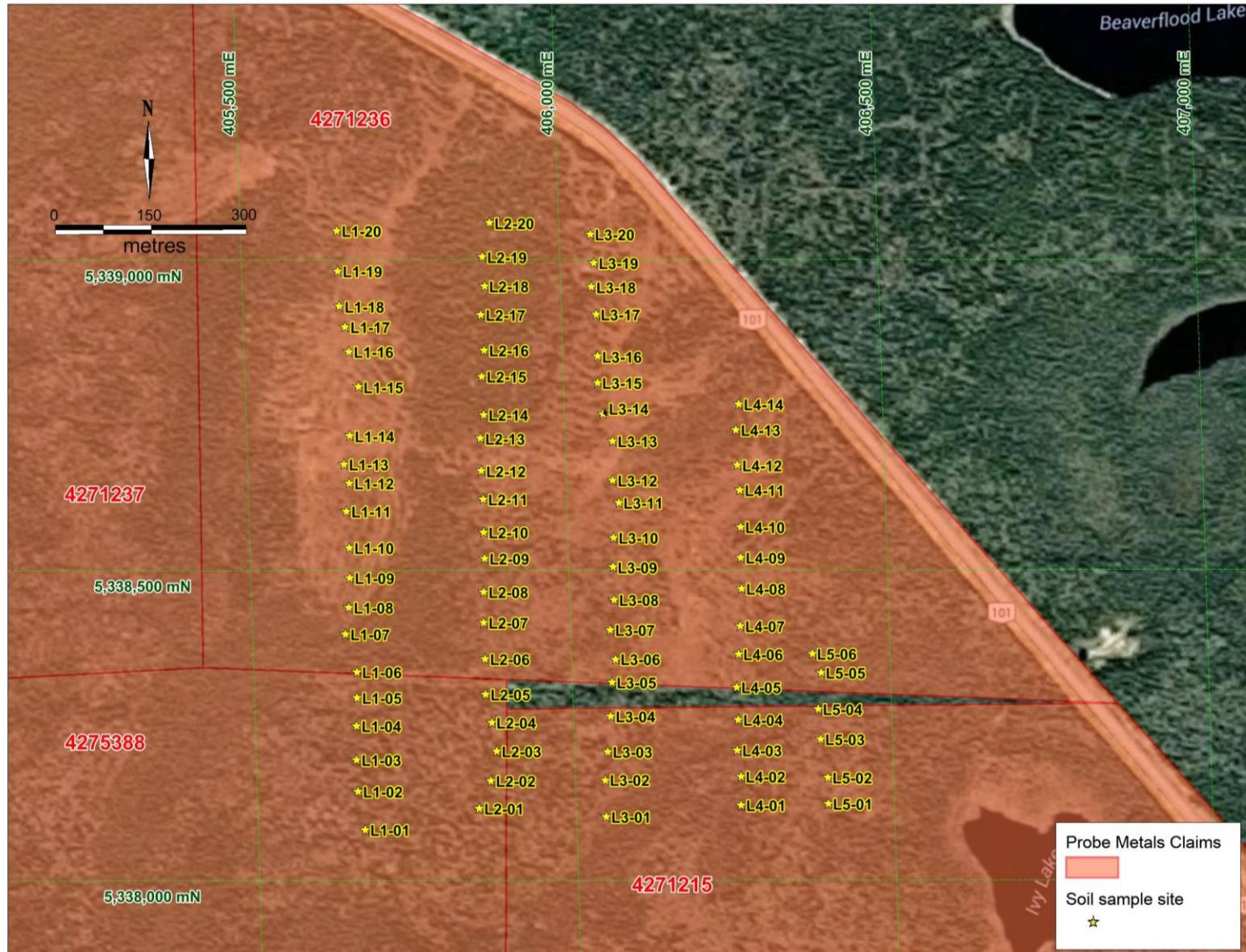


Figure 3 – Soil Sample Sites



**Table 2 - Soil Sample Location Data**

Site	Actlabs Sample	SGS Sample	Easting	Northing	Date	Material Type	Surface expression	Vegetation	State	% Clay	% Silt	% Sand	% Oversize	% Organic	Colour	Wet/Dry	
L3-20	060481	060482	406049	5339042	May-17-16	fine silt & Sand	level	deciduous, mixed	logged		20	80			white orange	dry	
L3-19	060483	060484	406053	5338996	May-17-16	fine silt & Sand	level	deciduous, mixed	logged		20	80			white orange	dry	
L3-18	060485	060486	406048	5338957	May-17-16	fine silt & Sand	level	deciduous, mixed	logged	5	35	60			white orange	dry	
L3-17	060487	060488	406054	5338913	May-17-16	fine silt & Sand	level	deciduous, mixed	logged		30	70			orange	dry	
L3-16	060489	060490	406055	5338845	May-17-16	fine silt & Sand	level	deciduous, mixed	logged		20	80			orange	dry	
L3-15	060491	060492	406054	5338802	May-17-16	fine silt & Sand	level	deciduous, mixed	logged	10		70	20		grey black	wet	
L3-14	060493	060494	406061	5338752	May-17-16	fine silt & Sand	level	deciduous, mixed	logged		40	60			orange grey	moist	
L3-13	060495	060496	406074	5338709	May-17-16	fine silt & Sand	level	deciduous, mixed	logged	5	40	55			orange grey	dry	
L3-12	060497	060498	406073	5338645	May-17-16	organic, fine silt & sand	level	deciduous, mixed	logged	15	40	45			black grey	wet	
L3-11	060499	060500	406081	5338609	May-17-16	fine silt & Sand	level	deciduous, mixed	logged		20	80			white orange	dry	
L3-10	060601	060602	406072	5338553	May-17-16	fine silt & Sand	level	deciduous, mixed	logged		30	70			orange brown	wet	
L3-09	060603	060604	406069	5338506	May-18-16	fine silt & Sand	level	deciduous, mixed	logged		30	70			orange grey	wet	
L3-08	060605	060606	406070	5338453	May-18-16	fine silt & Sand	level	deciduous, mixed	logged		30	70			orange grey	wet	
L3-07	060607	060608	406062	5338404	May-18-16	fine silt & Sand	level	mixed	logged		40	60			white orange grey	moist	
L3-06	060609	060610	406069	5338357	May-18-16	fine silt & Sand	level	deciduous	logged		40	60			orange	dry	
L3-05	060611	060612	406062	5338313	May-18-16	fine silt & Sand	level	deciduous, mixed	logged	5	30	65			orange brown	wet	
L3-04	060613	060614	406059	5338265	May-18-16	fine silt & Sand	level	deciduous, mixed	logged	5	30	65			orange brown	wet	
L3-03	060615	060616	406052	5338208	May-18-16	fine silt & Sand	level	mixed	logged	5	30	65			white orange grey	moist	
L3-02	060617	060618	406047	5338162	May-18-16	fine silt & Sand	level	mixed	logged		30	70			orange	wet	
L3-01	060619	060620	406047	5338103	May-18-16	fine silt & Sand	level	mixed	logged	5	30	65			grey	wet	
L5-01	060621	060622	406396	5338124	May-18-16	fine silt & Sand	level	mixed	logged (?)		30	70			orange	dry	
L5-02	060623	060624	406397	5338166	May-18-16	fine silt & Sand	inclined	mixed	logged (?)		25	85			orange	dry	
L5-03	060625	060626	406387	5338228	May-18-16	fine silt & Sand	inclined	mixed			25	75			orange	dry	
L5-04	060627	060628	406382	5338285	May-18-16	fine silt & Sand	inclined	mixed			20	80			orange	dry	
L5-05	060629	060630	406391	5338335	May-18-16	fine silt & Sand	inclined	mixed			20	80			orange grey	dry	
L5-06	060631	060632	406378	5338366	May-18-16	fine silt & Sand	inclined	mixed			15	85			grey	wet	
L4-01	060633	060634	406259	5338122	May-18-16	fine silt & Sand	inclined	mixed			20	80			orange	dry	
L4-02	060635	060636	406260	5338168	May-18-16	fine silt & Sand	inclined	mixed			20	80			orange grey	dry	
L4-03	060637	060638	406256	5338210	May-18-16	fine silt & Sand	inclined	mixed			20	80			orange	dry	
L4-04	060639	060640	406259	5338259	May-18-16	fine silt & Sand	level	mixed			virgin	10	50	40		black grey	wet
L4-05	060641	060642	406259	5338308	May-18-16	fine silt & Sand	inclined	mixed			virgin		40	60		orange	moist
L4-06	060643	060644	406262	5338365	May-18-16	fine silt & Sand	level	mixed			virgin		45	55		black grey	wet
L4-07	060645	060646	406266	5338410	May-18-16	fine silt & Sand	level	mixed			logged		45	55		grey brown	moist
L4-08	060647	060648	406270	5338471	May-18-16	fine silt & Sand	inclined	mixed			virgin		45	55		orange	moist
L4-09	060649	060650	406270	5338521	May-18-16	fine silt & Sand	level	mixed			logged		40	60		orange brown	dry
L4-10	060651	060652	406271	5338570	May-18-16	fine silt & Sand	level	mixed			logged		25	75		orange brown	dry
L4-11	060653	060654	406272	5338629	May-18-16	fine silt & Sand	level	mixed			logged	10	35	45		orange	moist
L4-12	060655	060656	406270	5338670	May-18-16	fine silt & Sand	level	mixed			logged	5	45	50		grey orange	moist
L4-13	060657	060658	406269	5338726	May-18-16	fine silt & Sand	level	mixed			logged	15	65	20		black grey	wet
L4-14	060659	060660	406275	5338768	May-18-16	fine silt & Sand	level	mixed			logged	5	55	40		black grey	wet

than 1.7 KeV for the 1332 KeV Co-60 photopeak. ([www.actlabs.com](http://www.actlabs.com)). Detection Limits and the suite of elements for 1 D Enhanced are presented in Table 3.

Ultratrace I, a fifty-nine (59) multi-element package, is an aqua regia partial digestion which utilizes a mixture of hydrochloric and nitric acids to dissolve sulphides, some oxides and some altered silicates. Base metals will normally be totally dissolved but this is dependent on mineralogy. A 0.5 g sample is digested in aqua regia at 90 ° C in a microprocessor controlled digestion block for 2 hours. Digested samples are diluted and analyzed by Perkin Elmer Sciex ELAN 6000, 6100 or 9000 ICP/MS ([www.actlabs.com](http://www.actlabs.com)). Detection Limits and the suite of elements for Ultratrace I are presented in Table 4.

**Table 3 – Detection Limits and the suite of elements for 1D Enhanced**

Element	Units	Detection	Element	Units	Detection
Au	ppb	2	Sc	ppm	0.1
Ag	ppm	5	Se	ppm	3
As	ppm	0.5	Sn	%	0.02
Ba	ppm	50	Sr	%	0.05
Br	ppm	0.5	Ta	ppm	0.5
Ca	%	1	Th	ppm	0.2
Co	ppm	1	U	ppm	0.5
Cr	ppm	5	W	ppm	1
Cs	ppm	1	Zn	ppm	50
Fe	%	0.01	La	ppm	0.5
Hf	ppm	1	Ce	ppm	3
Hg	ppm	1	Nd	ppm	5
Ir	ppb	5	Sm	ppm	0.1
Mo	ppm	1	Eu	ppm	0.2
Na	%	0.01	Tb	ppm	0.5
Ni	ppm	20	Yb	ppm	0.2
Rb	ppm	15	Lu	ppm	0.05
Sb	ppm	0.1			

### SGS Laboratories

In the MMI® analysis, target elements are extracted using weak solutions of organic and inorganic compounds rather than conventional aggressive acid or cyanide-based digests. MMI® solutions contain strong ligands, which detach and hold metal ions that were loosely bound to soil particles by weak atomic forces in aqueous solution. This extraction does not dissolve the bound forms of the metal ions. Thus, the metal ions in the MMI® solutions are the chemically active or ‘mobile’ component of the sample. Because these mobile, loosely bound complexes are in very low concentrations, measurement is by conventional ICP-MS and the latest evolution of this technology, ICP-MS Dynamic Reaction Cell™ (DRC II™), allowing very low detection limits to be reported (Table 5).

**Table 4 – Detection Limits and the suite of elements for Ultratrace I**

Element	Units	Detection
Li	ppm	0.1
Be	ppm	0.1
B	ppm	1
Na	%	0.001
Mg	%	0.01
Al	%	0.01
K	%	0.01
Bi	ppm	0.02
Ca	%	0.01
Sc	ppm	0.1
V	ppm	1
Cr	ppm	0.5
Mn	ppm	1
Fe	%	0.01
Co	ppm	0.1
Ni	ppm	0.1
In	ppm	0.02
Sn	ppm	0.05
Sb	ppm	0.02
Te	ppm	0.02
Cs	ppm	0.02
Ba	ppm	0.5
La	ppm	0.5
Ce	ppm	0.01
Pr	ppm	0.1
Nd	ppm	0.02
Sm	ppm	0.1
Eu	ppm	0.1
Gd	ppm	0.1
Tb	ppm	0.1
Dy	ppm	0.1
Ho	ppm	0.1
Cu	ppm	0.01
Zn	ppm	0.1
Ga	ppm	0.02
Ge	ppm	0.1
As	ppm	0.1
Se	ppm	0.1
Rb	ppm	0.1
Sr	ppm	0.5
Y	ppm	0.01
Zr	ppm	0.1
Nb	ppm	0.1
Mo	ppm	0.01
Ag	ppm	0.002
Cd	ppm	0.01
Er	ppm	0.1
Tm	ppm	0.1
Yb	ppm	0.1
Lu	ppm	0.1
Hf	ppm	0.1
Ta	ppm	0.05
W	ppm	0.1
Re	ppm	0.001
Au	ppb	5
Tl	ppm	0.02
Pb	ppm	0.01
Th	ppm	0.1
U	ppm	0.1

**Table 5 - Detection Limits for MMI® Analysis**

ANALYTE	METHOD	DETECTION	UNITS
Ag	MMI-M5	1	ppb
Al	MMI-M5	1	ppm
As	MMI-M5	10	ppb
Au	MMI-M5	0.1	ppb
Ba	MMI-M5	10	ppb
Bi	MMI-M5	1	ppb
Ca	MMI-M5	10	ppm
Cd	MMI-M5	1	ppb
Ce	MMI-M5	5	ppb
Co	MMI-M5	5	ppb
Cr	MMI-M5	100	ppb
Cs	MMI-M5	0.5	ppb
Cu	MMI-M5	10	ppb
Dy	MMI-M5	1	ppb
Er	MMI-M5	0.5	ppb
Eu	MMI-M5	0.5	ppb
Fe	MMI-M5	1	ppm
Ga	MMI-M5	1	ppb
Gd	MMI-M5	1	ppb
Hg	MMI-M5	1	ppb
In	MMI-M5	0.5	ppb
K	MMI-M5	0.1	ppm
La	MMI-M5	1	ppb
Li	MMI-M5	5	ppb
Mg	MMI-M5	1	ppm
Mn	MMI-M5	10	ppb
Mo	MMI-M5	5	ppb
Nb	MMI-M5	0.5	ppb
Nd	MMI-M5	1	ppb
Ni	MMI-M5	5	ppb
P	MMI-M5	0.1	ppm
Pb	MMI-M5	10	ppb
Pd	MMI-M5	1	ppb
Pr	MMI-M5	1	ppb
Pt	MMI-M5	1	ppb
Rb	MMI-M5	5	ppb
Sb	MMI-M5	1	ppb
Sc	MMI-M5	5	ppb
Sm	MMI-M5	1	ppb
Sn	MMI-M5	1	ppb
Sr	MMI-M5	10	ppb
Ta	MMI-M5	1	ppb
Tb	MMI-M5	1	ppb
Te	MMI-M5	10	ppb
Th	MMI-M5	0.5	ppb
Ti	MMI-M5	3	ppb
Tl	MMI-M5	0.5	ppb
U	MMI-M5	1	ppb
W	MMI-M5	1	ppb
Y	MMI-M5	5	ppb
Yb	MMI-M5	1	ppb
Zn	MMI-M5	20	ppb
Zr	MMI-M5	5	ppb

## RESULTS

The most effective method of viewing MMI sample data is as a response ratio, the ratio of the concentration to background value for each element. Background values were calculated by taking the average concentration of each element in samples falling within the lower quartile of the population, taken on an element-by-element basis for the sample population. Data was provided in ppm or ppb. These were converted to response ratios to further analyse the data. Response ratios (or peak to background ratios) are calculated by dividing each sample value by the predetermined background value for that element. The background value was calculated by 1) determining the lowest 25% of the data for all the samples analysed in the survey area for the particular element; 2) as values less than the detection limit were included, these were deemed to be a value half of the detection limit as an estimate value, 3) the lowest quartile (25%) of the data was calculated - this is the background value for that element. MMI® results are typically displayed in a stacked bar chart form representing the total standard scores of all MMI®s analysed per sample, with each chart illustrating the samples along a traverse.

The response ratios for select elements are plotted in stacked bar charts in Figures 4 to 8 for Lines 1 to 5. Table 6 summarizes the analytical results and corresponding response ratios calculated. The Certificate of Analysis from SGS is provided in Appendix I. For the INAA and ICP-MS data, absolute values were plotted as graduated ranges and also gridded to create contoured surfaces. The Certificate of Analysis from Actlabs is provided in Appendix II. Large scale maps illustrating the results are provided in Appendix III.

For Gold, lines 2 and 5 have anomalies at corresponding locations (L2-14- to L2-16 and L5-3) for both INAA and AR-MS analyses. These are less apparent in the MMI analysis. Anomalous values of arsenic were recorded at the same location on line 5 in all three analyses, with MMI returning the strongest response. Both copper and zinc appear to be elevated as well, with MMI illustrating this more clearly.

## CONCLUSIONS & RECOMMENDATIONS

The results of the program illustrate that known gold mineralization is represented in soil samples. The results of the program will be used elsewhere on the property and also to follow up on the claims that are the subject of this report. As such the work completed herein will be used to keep the claims in good standing.





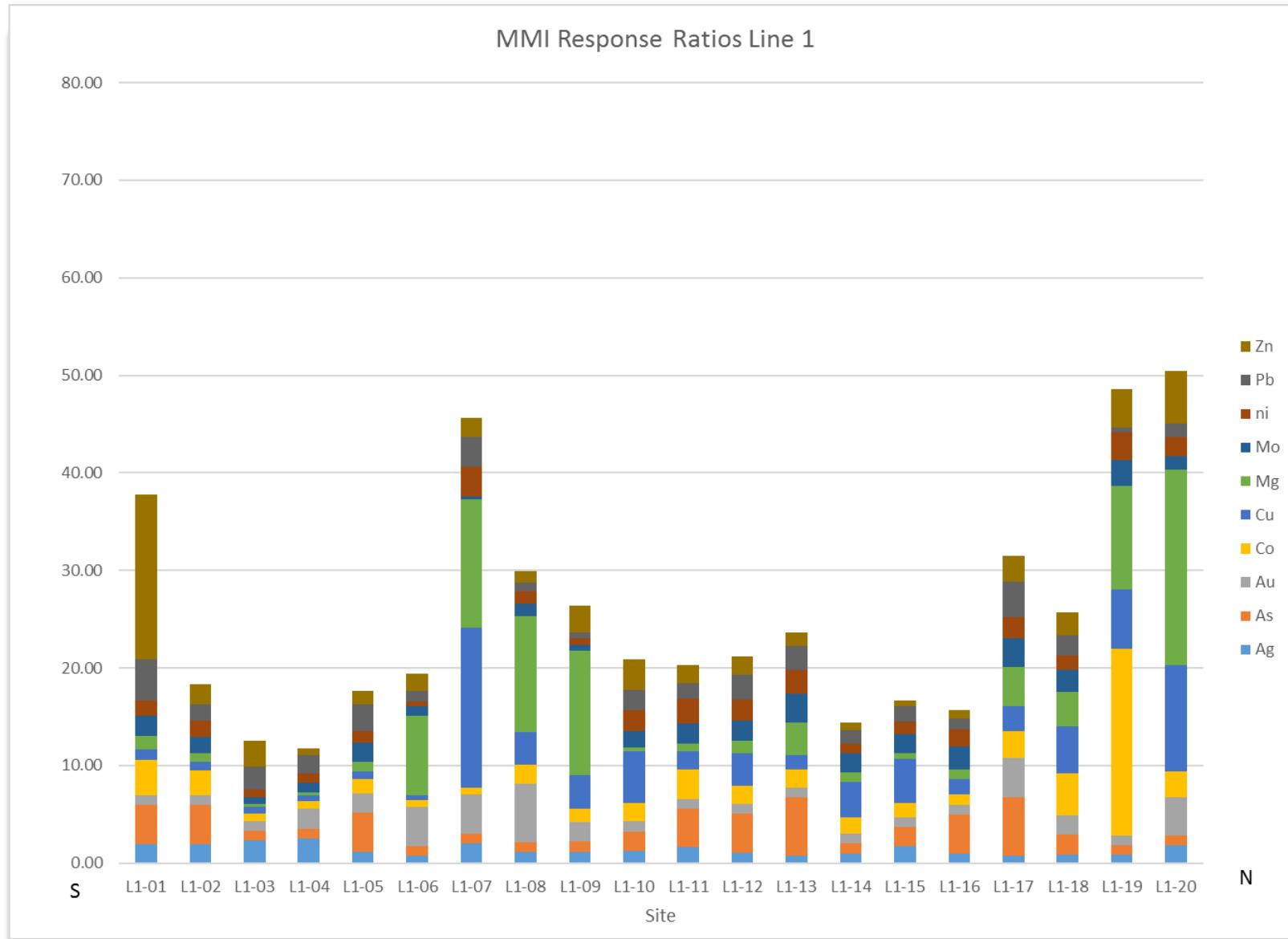


Figure 4 - Response Ratios Line1

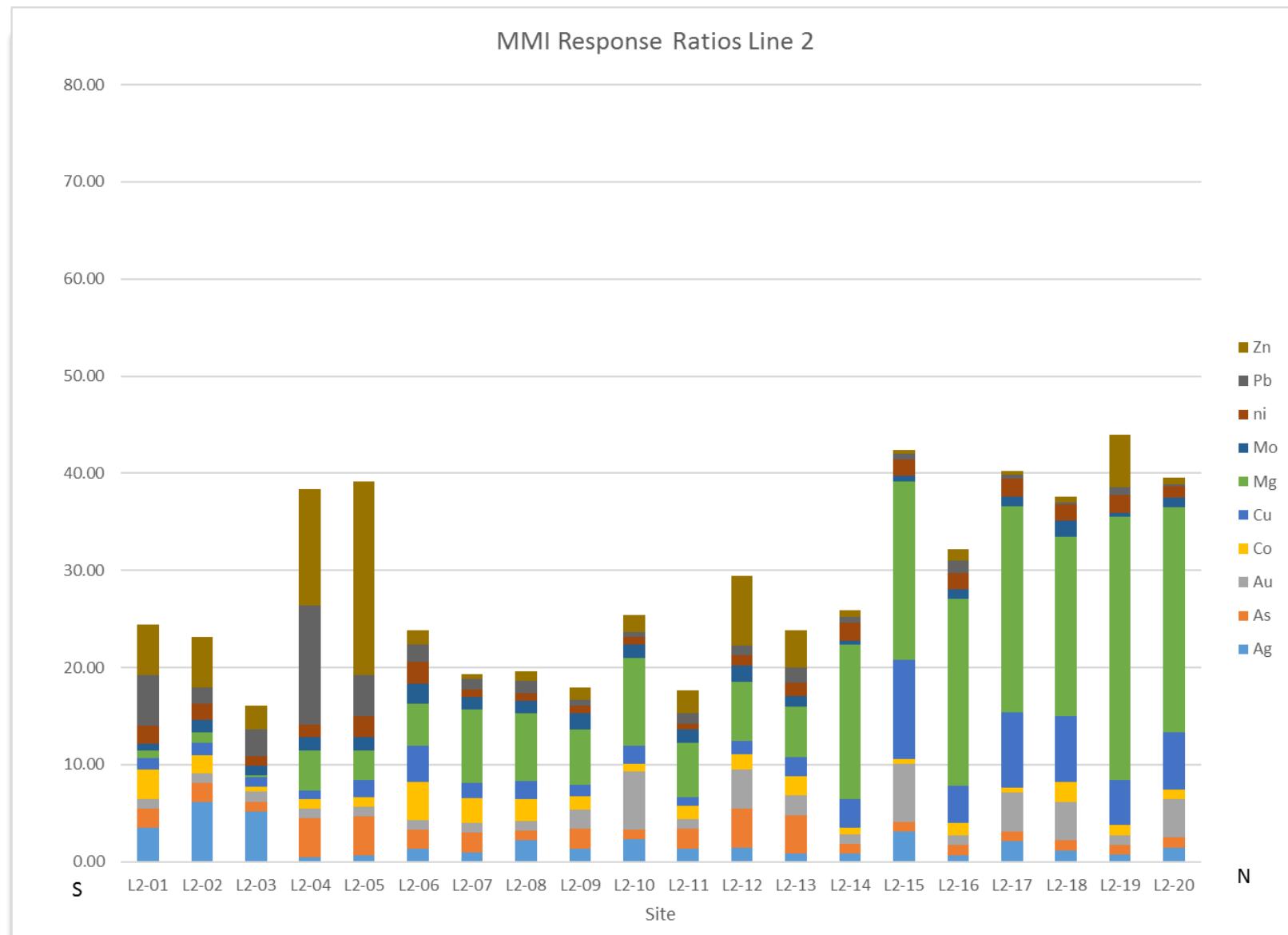


Figure 5 - Response Ratios Line 2

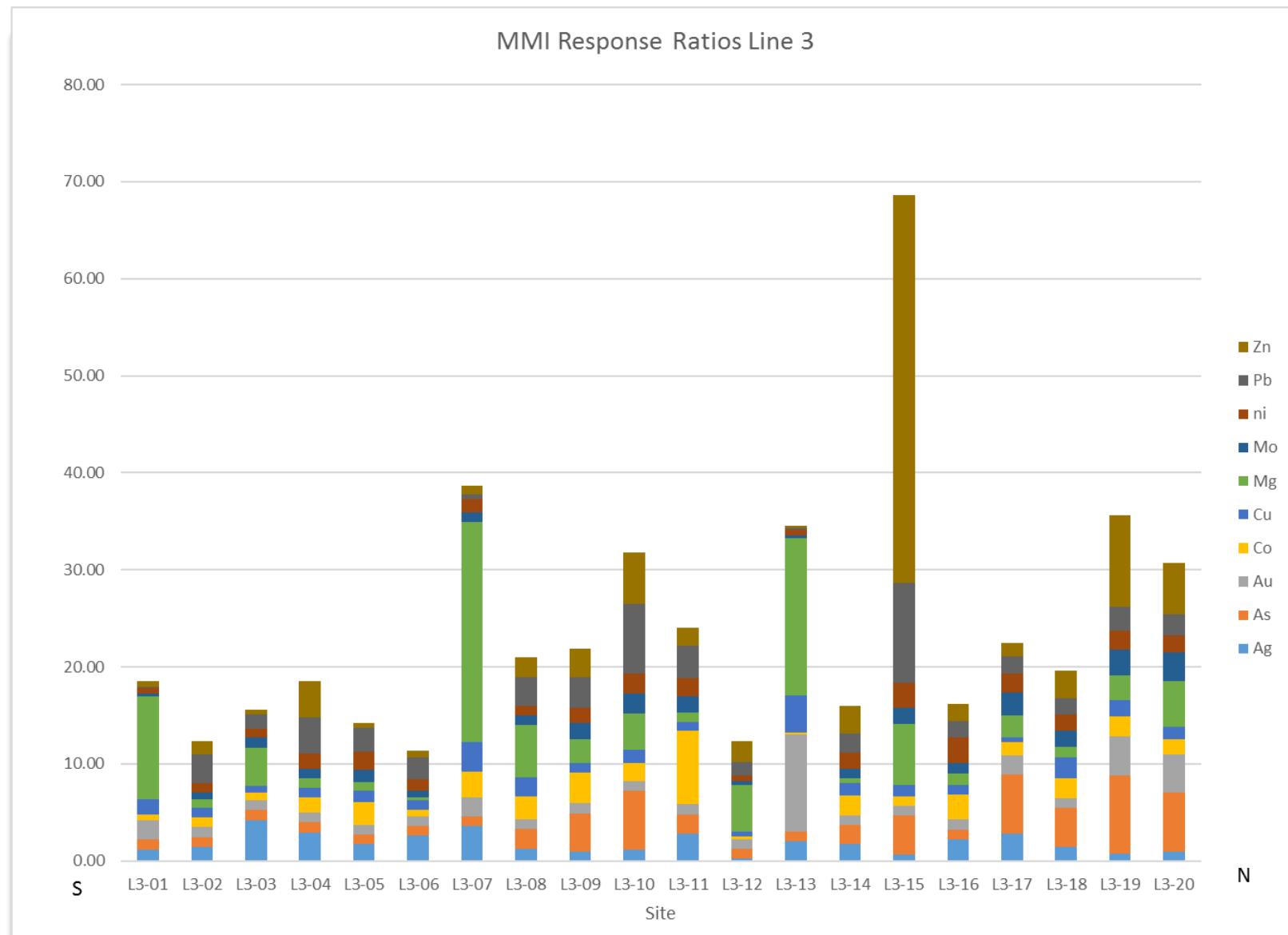


Figure 6 - Response Ratios Line 3

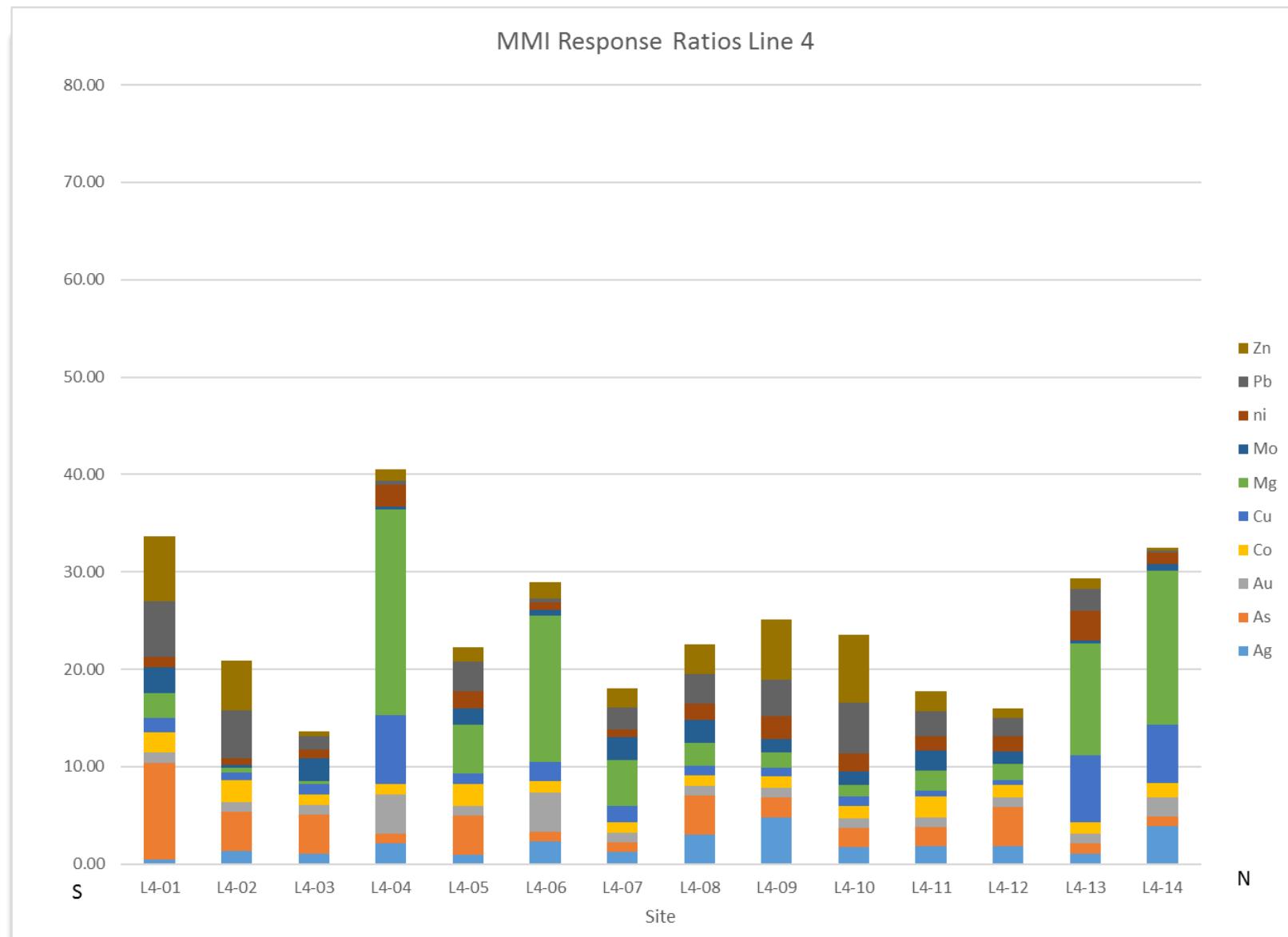
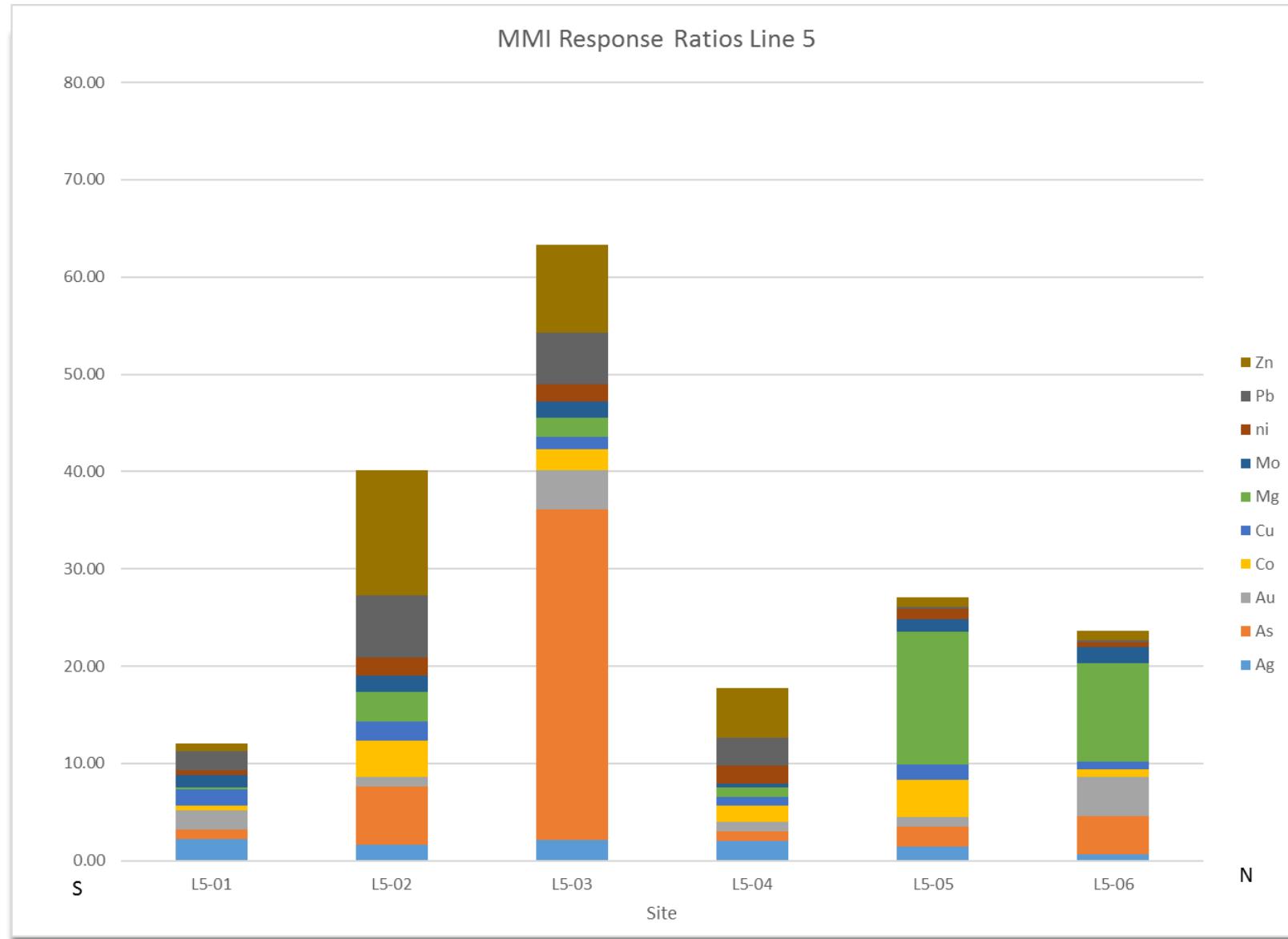


Figure 7 - Response Ratios Line 4



**Figure 8 - Response Ratios Line 5**

## **REFERENCES**

Ayer, J. A. 1995. Precambrian Geology Northern Swayze Greenstone Belt; Ontario Geological Survey, Report 297, 71p

GTA Resources and Mining Inc. 2014. 2014 Prospecting/Soil Report of the Ivanhoe Property, 112p.

Milne, V.G. 1972. Geology of the Kukatsh–Sewell Lake area, District of Sudbury; Ontario Division of Mines, Geological Report 97, 116p.

Ontario Geological Survey 1991a. Bedrock geology of Ontario, north sheet; Ontario Geological Survey, Map 2543, scale 1:1 000 000.

Ontario Geological Survey 2001. Results of modern alluvium sampling, Chapleau area, northeastern Ontario: Operation Treasure Hunt—Kapuskasing Structural Zone; Ontario Geological Survey, Open File Report 6063, 164p.

Thurston, P.C., 1991, Archean geology of Ontario: Introduction, in Geology of Ontario, Ontario Geological Survey, Special Volume 4, Part I, p.73-78

Activation Laboratories Website

(<http://www.actlabs.com/page.aspx?menu=74&app=243&cat1=759&tp=2&lk=no>)

## APPENDIX I

Certificate of Analysis  
SGS Laboratories

**Certificate of Analysis**  
**Work Order : VC161781**  
**[Report File No.: 0000017548]**

Date: June 01, 2016

To: SHARON ALLAN  
PROBE METALS INC  
56 TEMPERANCE ST SUITE 1000  
TORONTO ON M5H 3V5

P.O. No.: 80 samples  
Project No.: -  
Samples: 80  
Received: May 26, 2016  
Pages: Page 1 to 22  
(Inclusive of Cover Sheet)

**Methods Summary**

<u>No. Of Samples</u>	<u>Method Code</u>	<u>Description</u>
80	G_LOG02	Pre-preparation processing, sorting, logging, boxing
80	GE_MMI_M	Mobile Metal ION standard package/ICP-MS

Certified By :

  
John Chiang  
QC Chemist

**SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at <http://www.scc.ca/en/search/palcan/sgs>**

Report Footer:

L.N.R. = Listed not received  
n.a. = Not applicable

I.S. = Insufficient Sample  
-- = No result

\*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. \*NAA08V) were subcontracted

Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods

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	Element Method Det.Lim. Units	Ag GE_MMI_M 0.5 ppb	Al GE_MMI_M 1 ppm	As GE_MMI_M 10 ppb	Au GE_MMI_M 0.1 ppb	Ba GE_MMI_M 10 ppb	Bi GE_MMI_M 0.5 ppb	Ca GE_MMI_M 2 ppm	Cd GE_MMI_M 1 ppb
060402		5.4	56	<10	0.2	1360	<0.5	325	10
060404		2.5	80	<10	<0.1	870	<0.5	223	8
060406		2.7	169	10	0.1	2920	2.2	105	5
060408		2.2	273	30	0.2	2380	2.9	65	7
060410		2.9	355	20	<0.1	1290	1.1	25	3
060412		5.1	229	10	<0.1	1050	0.9	39	2
060414		3.0	190	<10	<0.1	1330	0.8	32	2
060416		2.2	349	30	<0.1	2440	2.4	28	4
060418		3.3	325	20	<0.1	1430	3.5	28	7
060420		4.8	278	20	<0.1	900	1.3	31	10
060422		3.8	184	10	<0.1	730	0.6	32	8
060424		3.6	39	<10	0.1	1460	<0.5	308	4
060426		3.4	56	<10	0.3	940	<0.5	270	10
060428		6.1	114	<10	0.2	380	<0.5	332	19
060430		2.2	105	<10	0.2	1140	<0.5	228	3
060432		3.5	257	20	0.1	450	1.2	45	4
060434		7.6	233	<10	0.1	680	<0.5	10	5
060436		7.0	236	<10	<0.1	230	<0.5	14	6
060438		5.9	330	20	<0.1	550	0.7	5	10
060440		5.8	329	20	<0.1	1190	2.0	76	20
060442		10.4	259	10	<0.1	610	1.0	23	18
060444		18.4	225	10	<0.1	630	<0.5	73	13
060446		15.6	220	<10	<0.1	290	<0.5	29	11
060448		1.5	165	20	<0.1	1070	2.7	159	24
060450		2.0	242	20	<0.1	1260	1.5	116	29
060452		4.0	163	10	<0.1	950	0.8	176	14
060454		3.0	123	10	<0.1	2450	0.8	170	1
060456		6.7	105	<10	<0.1	1320	<0.5	197	7
060458		4.2	120	10	0.1	1750	0.6	183	3
060460		6.9	75	<10	0.3	730	<0.5	262	4
060462		4.1	87	10	<0.1	850	1.0	137	5
060464		4.5	127	20	0.2	1470	1.6	133	7
060466		2.5	155	20	0.1	1870	1.9	100	7
060468		2.6	97	<10	<0.1	350	<0.5	340	21
060470		9.3	20	<10	0.3	1090	<0.5	321	9
060472		2.1	53	<10	<0.1	300	<0.5	386	16
060474		6.3	24	<10	0.2	520	<0.5	406	11
060476		3.6	5	<10	0.2	660	<0.5	307	3
060478		2.2	17	<10	<0.1	520	<0.5	493	18
060480		4.5	12	<10	0.2	780	<0.5	382	4

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Element Method Det.Lim. Units	Ag GE_MM1_M 0.5 ppb	Al GE_MM1_M 1 ppm	As GE_MM1_M 10 ppb	Au GE_MM1_M 0.1 ppb	Ba GE_MM1_M 10 ppb	Bi GE_MM1_M 0.5 ppb	Ca GE_MM1_M 2 ppm	Cd GE_MM1_M 1 ppb
060482	3.0	292	30	0.2	2140	2.0	80	3
060484	2.4	393	40	0.2	3260	1.8	40	3
060486	4.5	380	20	<0.1	2410	1.0	33	3
060488	8.6	345	30	0.1	960	1.2	37	7
060490	6.8	274	<10	<0.1	720	<0.5	12	9
060492	2.0	206	20	<0.1	1530	2.6	151	42
060494	5.2	259	10	<0.1	880	<0.5	19	9
060496	6.2	12	<10	0.5	1500	<0.5	421	<1
060498	0.7	185	<10	<0.1	500	<0.5	244	4
060500	8.5	283	10	<0.1	640	1.5	13	7
060602	3.6	281	30	<0.1	1680	3.0	90	12
060604	2.8	272	20	<0.1	1480	1.6	73	11
060606	3.9	110	10	<0.1	1750	1.2	168	9
060608	10.7	24	<10	0.1	1150	<0.5	414	9
060610	7.8	234	<10	<0.1	490	<0.5	9	6
060612	5.2	247	<10	<0.1	800	<0.5	56	9
060614	8.9	286	<10	<0.1	710	2.8	34	18
060616	12.7	149	<10	<0.1	270	<0.5	200	21
060618	4.4	231	<10	<0.1	530	<0.5	33	7
060620	3.6	24	<10	0.1	1370	<0.5	212	2
060622	6.6	59	<10	0.1	200	<0.5	8	3
060624	5.0	287	30	<0.1	2130	2.1	81	28
060626	6.4	276	170	0.2	740	1.4	28	17
060628	6.0	230	<10	<0.1	540	<0.5	29	17
060630	4.4	19	10	<0.1	350	<0.5	331	7
060632	1.9	13	20	0.2	590	<0.5	295	3
060634	1.3	314	50	<0.1	840	4.5	44	21
060636	4.1	241	20	<0.1	550	0.8	5	19
060638	3.3	268	20	<0.1	520	<0.5	10	6
060640	6.4	23	<10	0.2	470	<0.5	452	12
060642	3.0	265	20	<0.1	1210	0.8	131	6
060644	6.9	24	<10	0.2	1100	<0.5	327	5
060646	3.8	152	<10	<0.1	410	0.7	187	7
060648	9.0	314	20	<0.1	1020	0.8	67	8
060650	14.5	253	10	<0.1	1170	0.6	39	17
060652	5.2	289	10	<0.1	810	1.1	22	18
060654	5.5	268	10	<0.1	1440	0.7	69	3
060656	5.5	301	20	<0.1	1150	0.8	65	5
060658	3.3	141	<10	<0.1	550	<0.5	305	31
060660	11.6	21	<10	0.1	1140	<0.5	358	2

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Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd
Method	GE_MMI_M							
Det.Lim.	0.5	1	10	0.1	10	0.5	2	1
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb
*Rep 060404	2.7	81	<10	<0.1	880	<0.5	230	10
*Rep 060438	6.1	318	20	<0.1	560	0.7	5	10
*Rep 060464	4.4	118	20	<0.1	1450	1.5	146	6
*Rep 060490	6.0	284	10	<0.1	810	<0.5	13	8
*Rep 060642	3.6	254	20	0.1	1370	0.6	166	5
*Std MMISRM18	21.6	20	10	8.3	110	<0.5	181	79
*Std MMISRM19	25.2	23	10	5.1	1480	<0.5	841	37
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1

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Element Method Det.Lim. Units	Ce GE_MMI_M 2 ppb	Co GE_MMI_M 1 ppb	Cr GE_MMI_M 100 ppb	Cs GE_MMI_M 0.2 ppb	Cu GE_MMI_M 10 ppb	Dy GE_MMI_M 0.5 ppb	Er GE_MMI_M 0.2 ppb	Eu GE_MMI_M 0.2 ppb
060402	960	92	100	2.7	1200	33.7	15.6	13.5
060404	154	671	<100	3.5	670	5.7	2.9	2.3
060406	629	152	300	8.1	520	22.1	10.3	9.9
060408	366	98	400	16.7	280	16.1	7.2	6.8
060410	249	39	400	11.2	170	15.0	6.2	5.9
060412	388	52	200	11.2	490	26.2	12.3	11.1
060414	525	60	200	4.7	400	29.6	12.2	12.3
060416	203	64	400	16.6	170	12.8	6.2	4.9
060418	182	65	200	6.4	360	14.9	7.9	5.3
060420	115	105	200	4.5	200	10.8	6.1	3.5
060422	243	66	<100	5.9	580	23.1	12.4	7.1
060424	132	47	<100	3.7	380	5.4	2.3	2.8
060426	396	69	<100	2.1	370	13.3	6.2	5.9
060428	114	25	<100	1.3	1800	29.3	20.1	5.1
060430	125	27	<100	2.5	50	7.4	3.6	2.9
060432	158	50	200	6.0	90	12.6	5.8	4.9
060434	122	29	<100	5.2	70	15.3	7.5	5.0
060436	92	25	<100	3.4	80	13.0	7.1	4.2
060438	80	88	100	6.7	100	9.3	5.5	2.6
060440	84	129	200	5.6	120	10.4	5.1	3.5
060442	105	106	<100	3.1	130	16.2	7.9	4.3
060444	62	63	<100	3.8	140	8.7	3.7	2.5
060446	125	18	<100	5.2	110	12.6	6.2	4.9
060448	58	32	100	2.6	100	6.5	3.3	2.1
060450	108	36	<100	7.4	190	9.9	5.2	3.5
060452	328	135	<100	4.1	410	19.3	10.0	7.2
060454	308	88	200	5.2	180	12.6	5.7	5.8
060456	450	78	<100	3.4	200	18.2	8.3	8.1
060458	356	48	100	6.4	130	13.2	5.3	6.4
060460	245	28	<100	2.4	200	11.6	5.2	5.4
060462	153	48	<100	2.0	100	7.5	3.4	3.0
060464	125	56	200	11.4	150	7.1	3.4	2.8
060466	306	69	200	7.9	220	14.1	6.2	5.9
060468	157	22	<100	1.2	330	16.1	8.5	4.5
060470	187	18	<100	0.8	1120	15.0	6.4	7.1
060472	97	46	<100	0.6	420	6.6	3.3	2.6
060474	112	18	<100	0.7	860	6.4	2.8	2.7
060476	12	71	<100	0.2	740	4.4	2.2	1.5
060478	67	36	<100	0.7	510	6.6	2.7	2.5
060480	75	34	<100	0.5	640	6.6	2.8	2.9

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	Element Method Det.Lim. Units	Ce GE_MMI_M 2 ppb	Co GE_MMI_M 1 ppb	Cr GE_MMI_M 100 ppb	Cs GE_MMI_M 0.2 ppb	Cu GE_MMI_M 10 ppb	Dy GE_MMI_M 0.5 ppb	Er GE_MMI_M 0.2 ppb	Eu GE_MMI_M 0.2 ppb
060482		360	53	400	14.2	140	19.5	9.3	7.7
060484		431	72	400	5.9	190	27.4	13.1	11.2
060486		301	70	200	5.5	240	23.3	10.9	8.7
060488		234	48	200	9.6	60	17.8	9.9	6.9
060490		56	91	<100	4.7	110	8.5	5.4	2.4
060492		86	34	100	2.4	130	8.1	4.2	2.7
060494		95	71	100	4.5	140	12.1	6.6	3.7
060496		121	7	<100	1.7	420	14.6	5.4	6.1
060498		137	12	<100	3.6	50	10.6	5.5	4.3
060500		73	266	100	7.1	100	11.3	6.6	3.0
060602		157	65	300	10.0	150	11.5	5.6	4.2
060604		321	110	300	4.5	110	18.4	7.8	8.0
060606		912	84	100	5.5	210	26.3	12.2	11.6
060608		89	93	<100	1.8	330	4.4	2.0	2.1
060610		88	24	<100	4.4	110	12.8	6.4	3.7
060612		131	82	<100	7.2	130	15.2	7.4	5.0
060614		112	57	<100	9.2	100	12.9	6.5	4.2
060616		46	29	<100	3.9	70	5.8	3.3	1.7
060618		120	35	<100	5.2	110	14.2	7.6	5.2
060620		287	19	<100	1.3	180	12.2	4.8	6.1
060622		151	18	<100	5.1	180	12.2	6.8	5.2
060624		98	129	200	4.5	220	10.1	5.4	3.1
060626		85	77	100	3.6	140	12.5	6.2	3.9
060628		34	59	<100	3.3	100	6.4	4.0	1.6
060630		116	136	<100	1.8	170	2.6	1.1	1.1
060632		31	28	<100	0.8	80	1.6	0.7	0.7
060634		89	73	400	5.4	160	8.0	3.9	2.7
060636		64	79	<100	3.8	90	9.8	6.4	2.5
060638		344	38	200	8.5	110	23.1	9.3	8.7
060640		91	38	<100	0.7	780	5.0	2.3	2.4
060642		157	79	200	4.2	120	12.4	6.7	4.2
060644		135	43	<100	1.0	210	7.4	3.1	3.7
060646		409	35	<100	5.0	190	17.2	7.6	8.1
060648		99	40	200	7.3	100	8.4	4.1	2.6
060650		64	42	<100	4.2	100	9.4	4.9	3.0
060652		78	42	<100	5.1	110	13.4	6.8	3.4
060654		60	73	100	4.1	70	8.1	4.7	2.9
060656		85	45	100	3.8	60	9.2	4.7	3.5
060658		185	42	<100	1.1	760	34.3	19.0	7.1
060660		142	51	<100	1.7	660	7.2	3.0	3.6

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Element Method Det.Lim. Units	Ce GE_MMI_M 2 ppb	Co GE_MMI_M 1 ppb	Cr GE_MMI_M 100 ppb	Cs GE_MMI_M 0.2 ppb	Cu GE_MMI_M 10 ppb	Dy GE_MMI_M 0.5 ppb	Er GE_MMI_M 0.2 ppb	Eu GE_MMI_M 0.2 ppb
*Rep 060404	138	664	<100	4.1	610	5.5	2.8	2.1
*Rep 060438	87	82	100	6.9	100	9.4	5.7	2.8
*Rep 060464	129	69	200	11.2	150	7.1	3.5	2.7
*Rep 060490	56	85	<100	4.1	110	7.7	4.8	2.2
*Rep 060642	177	75	200	5.1	110	11.3	6.0	4.2
*Std MMISRM18	26	73	<100	4.4	840	2.9	1.2	1.0
*Std MMISRM19	29	395	<100	4.1	2040	14.8	8.2	3.3
*Bk BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2
*Bk BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2
*Bk BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2
*Bk BLANK	2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2

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Element Method Det.Lim. Units	Fe GE_MMI_M 1 ppm	Ga GE_MMI_M 0.5 ppb	Gd GE_MMI_M 0.5 ppb	Hg GE_MMI_M 1 ppb	In GE_MMI_M <1 ppb	K GE_MMI_M 0.1 ppm	La GE_MMI_M 1 ppb	Li GE_MMI_M 1 ppb
060402	59	3.5	51.4	<1	<0.1	5.8	318	14
060404	75	4.6	7.9	<1	<0.1	17.0	42	10
060406	156	17.9	32.5	<1	0.2	6.8	218	12
060408	249	66.2	21.7	1	0.3	10.3	173	50
060410	155	47.1	18.6	2	0.3	5.1	127	16
060412	116	21.8	36.6	<1	0.3	5.5	176	4
060414	115	17.4	42.5	<1	0.2	8.0	211	7
060416	320	104	15.9	1	0.3	12.6	109	59
060418	156	41.7	18.0	1	0.3	8.7	91	15
060420	251	45.4	11.1	1	0.3	6.0	58	9
060422	158	11.7	25.7	<1	0.2	8.7	105	4
060424	20	2.3	9.9	<1	<0.1	7.8	45	<1
060426	39	4.0	22.2	<1	<0.1	8.9	147	7
060428	52	2.2	24.8	<1	<0.1	3.3	61	2
060430	52	6.2	10.6	<1	<0.1	4.7	45	2
060432	118	53.5	16.1	1	0.2	9.8	92	7
060434	72	9.8	17.5	1	0.1	7.3	61	3
060436	57	12.0	13.4	<1	0.2	11.7	46	3
060438	134	39.3	8.7	2	0.3	14.0	36	11
060440	176	83.0	10.6	1	0.2	12.6	56	14
060442	68	14.3	14.9	1	0.2	23.3	54	5
060444	62	15.2	8.7	1	0.1	27.8	33	8
060446	45	12.4	16.0	1	0.2	6.7	56	2
060448	77	37.6	7.0	<1	0.3	28.4	40	9
060450	106	43.9	12.0	1	0.3	21.9	51	24
060452	102	10.6	25.5	<1	0.1	9.2	125	15
060454	130	13.2	18.5	<1	<0.1	7.7	127	10
060456	68	6.4	26.8	<1	<0.1	5.0	178	5
060458	76	8.9	21.7	<1	<0.1	6.3	129	12
060460	22	1.3	18.4	<1	<0.1	5.3	86	2
060462	89	23.3	9.2	<1	<0.1	4.9	59	8
060464	150	30.5	9.2	<1	0.1	11.7	58	28
060466	173	25.9	20.1	1	0.2	16.2	130	24
060468	15	0.6	17.8	<1	<0.1	4.5	63	3
060470	13	1.8	28.2	<1	<0.1	6.2	89	35
060472	18	1.0	10.7	<1	<0.1	9.6	41	5
060474	14	0.7	10.9	<1	<0.1	5.6	37	6
060476	4	0.6	7.0	<1	<0.1	12.2	9	32
060478	7	0.8	10.5	<1	<0.1	12.1	25	15
060480	7	0.6	11.5	<1	<0.1	7.4	35	18

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Element Method Det.Lim. Units	Fe GE_MMI_M 1 ppm	Ga GE_MMI_M 0.5 ppb	Gd GE_MMI_M 0.5 ppb	Hg GE_MMI_M 1 ppb	In GE_MMI_M 0.1 ppb	K GE_MMI_M 0.5 ppm	La GE_MMI_M 1 ppb	Li GE_MMI_M 1 ppb
060482	292	92.0	24.3	<1	0.4	14.7	162	56
060484	279	56.4	36.1	1	0.4	7.6	203	29
060486	241	30.3	27.4	2	0.3	4.4	159	10
060488	210	75.0	21.6	1	0.3	13.7	126	26
060490	106	15.5	7.9	1	0.2	18.1	28	7
060492	109	52.5	8.6	1	0.5	45.6	42	13
060494	143	27.9	12.0	<1	0.2	10.7	45	5
060496	7	1.4	26.7	<1	<0.1	3.9	67	9
060498	39	15.5	14.1	<1	<0.1	5.2	57	6
060500	109	49.6	10.1	<1	0.2	15.3	34	18
060602	154	78.6	13.7	1	0.4	27.7	78	45
060604	239	25.2	25.7	1	0.3	11.1	140	18
060606	104	6.2	37.6	<1	0.1	8.2	298	4
060608	18	3.3	8.3	<1	<0.1	7.8	29	18
060610	62	6.9	11.9	<1	0.2	7.5	42	4
060612	71	12.2	16.4	<1	0.1	6.1	62	5
060614	63	11.0	14.2	1	0.2	11.2	52	12
060616	62	13.8	6.3	<1	<0.1	6.2	16	6
060618	52	11.5	16.2	<1	0.1	10.6	54	4
060620	11	2.9	21.2	<1	<0.1	7.5	129	15
060622	13	7.1	15.7	<1	<0.1	7.7	58	2
060624	193	45.8	11.1	1	0.3	22.7	48	22
060626	116	27.1	13.4	1	0.3	20.8	47	10
060628	86	11.7	5.2	<1	0.2	18.2	17	4
060630	22	1.5	3.8	<1	<0.1	9.4	14	10
060632	17	1.6	2.4	<1	<0.1	6.5	10	36
060634	304	96.3	8.5	2	0.5	20.6	46	32
060636	80	12.9	7.9	1	0.3	18.7	36	5
060638	77	12.8	27.8	<1	0.2	6.2	113	8
060640	8	1.0	8.9	<1	<0.1	5.0	32	7
060642	165	30.1	13.7	<1	0.2	17.6	54	37
060644	10	1.6	14.1	<1	<0.1	8.9	52	12
060646	80	24.6	27.9	<1	0.1	8.1	211	7
060648	117	34.1	9.2	1	0.2	22.4	36	30
060650	115	23.1	10.0	1	0.2	22.2	38	6
060652	99	29.8	11.5	1	0.2	21.5	48	14
060654	126	67.9	8.9	<1	0.1	15.9	34	18
060656	143	69.3	10.0	<1	0.2	9.4	46	9
060658	70	6.2	31.7	<1	<0.1	4.6	75	3
060660	13	2.8	12.5	<1	<0.1	5.5	53	50

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Element Method Det.Lim. Units	Fe GE_MMI_M 1 ppm	Ga GE_MMI_M 0.5 ppb	Gd GE_MMI_M 0.5 ppb	Hg GE_MMI_M 1 ppb	In GE_MMI_M 0.1 ppb	K GE_MMI_M 0.5 ppm	La GE_MMI_M 1 ppb	Li GE_MMI_M 1 ppb
*Rep 060404	66	4.9	7.3	<1	<0.1	18.6	37	9
*Rep 060438	141	39.6	9.3	2	0.3	12.8	38	12
*Rep 060464	138	29.0	9.0	<1	0.1	12.3	55	26
*Rep 060490	129	19.5	7.2	2	0.2	17.0	30	7
*Rep 060642	152	28.8	13.4	<1	0.2	15.7	61	35
*Std MMISRM18	3	<0.5	4.5	5	<0.1	25.3	6	<1
*Std MMISRM19	4	<0.5	16.0	2	<0.1	91.0	5	1
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1
*Blk BLANK	2	<0.5	<0.5	<1	<0.1	0.6	<1	<1
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1

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Element Method Det.Lim. Units	Mg GE_MMI_M 0.5 ppm	Mn GE_MMI_M 100 ppb	Mo GE_MMI_M 2 ppb	Nb GE_MMI_M 0.5 ppb	Nd GE_MMI_M 1 ppb	Ni GE_MMI_M 5 ppb	P GE_MMI_M 0.1 ppm	Pb GE_MMI_M 5 ppb
060402	67.5	4700	4	2.7	365	161	0.4	137
060404	35.7	85200	8	0.8	60	227	0.9	44
060406	12.0	3900	7	13.8	242	112	4.5	210
060408	13.5	3000	9	32.3	159	172	6.3	360
060410	3.2	600	7	16.6	124	142	8.3	108
060412	2.1	1700	6	8.9	204	96	1.8	167
060414	3.1	2200	6	8.2	256	80	1.8	139
060416	11.1	500	9	40.6	101	194	6.5	243
060418	4.5	2000	6	16.4	93	176	6.8	253
060420	2.9	1000	6	18.2	60	204	5.4	159
060422	1.4	1900	5	2.7	132	173	1.5	210
060424	43.0	1300	2	<0.5	65	49	0.7	64
060426	39.8	7600	4	1.7	173	102	0.8	87
060428	44.4	4300	<2	<0.5	86	244	1.0	302
060430	27.5	3400	3	2.7	66	37	1.3	112
060432	3.2	5300	6	17.9	83	90	5.6	283
060434	0.7	1100	3	3.0	79	82	1.4	186
060436	1.1	1700	2	2.7	65	60	1.4	244
060438	2.9	1800	5	9.8	38	132	9.5	174
060440	4.6	5600	6	15.6	52	127	7.5	425
060442	2.8	2900	2	3.2	66	149	2.9	525
060444	3.7	4200	4	2.8	39	131	8.7	168
060446	0.6	2200	3	2.3	81	81	2.0	273
060448	14.0	13300	4	12.7	38	108	12.6	1230
060450	10.3	7000	4	13.7	60	175	7.9	420
060452	14.8	30300	6	3.6	158	185	2.9	178
060454	25.4	1100	4	7.6	147	62	2.1	104
060456	23.6	3900	4	3.0	209	63	1.5	124
060458	19.1	2700	5	4.7	159	60	2.6	62
060460	30.7	2200	4	<0.5	130	63	1.0	52
060462	18.9	4500	4	13.5	68	54	2.6	100
060464	20.4	3800	5	17.5	63	89	6.2	101
060466	17.6	2000	3	15.4	140	112	6.5	163
060468	53.6	2100	<2	<0.5	88	151	0.4	57
060470	61.8	600	2	<0.5	158	132	0.3	62
060472	64.9	6000	3	<0.5	62	133	0.4	128
060474	71.3	900	3	<0.5	66	153	0.3	39
060476	62.4	3600	5	<0.5	21	135	0.2	19
060478	91.6	3600	<2	<0.5	50	152	0.4	82
060480	78.4	1200	3	<0.5	63	90	0.2	17

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Element Method Det.Lim. Units	Mg GE_MM1_M 0.5 ppm	Mn GE_MM1_M 100 ppb	Mo GE_MM1_M 2 ppb	Nb GE_MM1_M 0.5 ppb	Nd GE_MM1_M 1 ppb	Ni GE_MM1_M 5 ppb	P GE_MM1_M 0.1 ppm	Pb GE_MM1_M 5 ppb
060482	16.0	1700	9	35.8	169	133	7.4	222
060484	8.6	600	8	24.3	226	155	7.3	249
060486	3.5	500	5	8.7	173	139	5.4	163
060488	7.5	1000	7	18.3	123	158	7.9	174
060490	4.0	500	3	3.6	35	210	3.5	173
060492	21.3	14400	5	18.0	48	203	10.7	1040
060494	1.6	2400	3	5.2	56	135	2.1	194
060496	54.5	100	<2	<0.5	131	46	0.2	20
060498	16.3	1500	<2	4.5	81	53	1.4	133
060500	3.2	8700	5	16.0	42	145	4.2	345
060602	12.8	6300	6	34.6	80	169	10.6	718
060604	8.4	11800	5	15.2	167	126	8.6	318
060606	18.2	8100	3	3.1	302	75	2.0	296
060608	76.7	4100	3	0.6	49	107	0.5	53
060610	0.9	200	2	1.7	57	93	1.4	235
060612	2.9	1100	4	3.2	79	146	1.3	244
060614	3.4	400	3	3.1	72	128	3.6	367
060616	13.5	300	3	3.6	26	70	0.9	150
060618	3.1	600	2	1.9	72	78	0.8	294
060620	35.6	100	<2	0.8	167	43	0.5	19
060622	0.6	900	4	<0.5	93	33	0.3	198
060624	10.1	12000	5	16.6	52	152	6.0	644
060626	6.6	5000	5	6.6	58	140	5.7	536
060628	3.3	900	<2	1.4	21	153	1.9	287
060630	45.9	10800	4	<0.5	23	82	0.9	24
060632	34.2	2000	5	<0.5	16	40	0.5	21
060634	8.7	7000	8	35.8	43	86	8.9	572
060636	1.4	3300	<2	3.9	39	54	2.2	491
060638	1.1	300	7	6.5	150	73	2.8	141
060640	71.1	1600	<2	<0.5	53	181	0.3	41
060642	16.6	900	5	13.0	72	146	2.6	301
060644	50.7	2300	2	<0.5	85	62	0.5	38
060646	15.8	2900	7	5.1	208	64	3.8	225
060648	8.0	1500	7	13.4	41	138	3.7	302
060650	5.2	4600	4	5.4	42	190	4.0	375
060652	4.1	4800	4	7.5	54	147	7.0	524
060654	7.0	5100	6	14.3	41	120	9.2	252
060656	5.4	500	4	14.4	51	122	4.8	185
060658	38.6	900	<2	0.6	122	240	0.8	225
060660	53.4	3000	2	0.6	89	95	0.6	15

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Element Method Det.Lim. Units	Mg GE_MMI_M 0.5 ppm	Mn GE_MMI_M 100 ppb	Mo GE_MMI_M 2 ppb	Nb GE_MMI_M 0.5 ppb	Nd GE_MMI_M 1 ppb	Ni GE_MMI_M 5 ppb	P GE_MMI_M 0.1 ppm	Pb GE_MMI_M 5 ppb
*Rep 060404	40.9	84500	7	1.0	52	214	0.9	44
*Rep 060438	2.9	1600	5	10.0	40	128	9.5	183
*Rep 060464	22.5	5000	6	16.6	61	87	6.2	109
*Rep 060490	4.1	400	3	4.4	33	211	4.3	159
*Rep 060642	19.6	1100	6	12.8	76	126	2.0	222
*Std MMISRM18	90.3	1100	29	<0.5	17	453	0.6	262
*Std MMISRM19	192	7600	10	<0.5	23	1980	0.4	1100
*Blk BLANK	<0.5	100	<2	<0.5	<1	<5	<0.1	<5
*Blk BLANK	<0.5	<100	<2	<0.5	<1	<5	<0.1	<5
*Blk BLANK	<0.5	<100	<2	<0.5	<1	<5	<0.1	<5
*Blk BLANK	<0.5	<100	<2	<0.5	1	<5	<0.1	<5

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Element Method Det.Lim. Units	Pd GE_MMI_M 1 ppb	Pr GE_MMI_M 0.5 ppb	Pt GE_MMI_M 0.1 ppb	Rb GE_MMI_M 1 ppb	Sb GE_MMI_M 0.5 ppb	Sc GE_MMI_M 5 ppb	Sm GE_MMI_M 1 ppb	Sn GE_MMI_M 1 ppb
060402	<1	88.7	<0.1	160	<0.5	29	64	<1
060404	<1	13.2	<0.1	131	<0.5	16	11	<1
060406	<1	55.5	<0.1	123	<0.5	42	43	2
060408	<1	37.9	<0.1	128	0.7	64	28	5
060410	<1	29.3	<0.1	58	1.0	42	23	2
060412	<1	45.5	<0.1	134	0.7	54	42	<1
060414	<1	56.0	<0.1	108	<0.5	53	52	1
060416	<1	23.9	<0.1	167	0.8	67	19	7
060418	<1	21.6	<0.1	113	0.7	43	21	3
060420	<1	13.6	<0.1	122	0.8	33	13	2
060422	<1	28.6	<0.1	110	0.8	55	28	<1
060424	<1	13.8	<0.1	72	<0.5	6	12	<1
060426	<1	40.6	<0.1	96	<0.5	14	29	<1
060428	<1	17.6	<0.1	31	<0.5	45	20	<1
060430	<1	14.3	<0.1	56	<0.5	12	13	<1
060432	<1	21.1	<0.1	167	1.1	33	18	4
060434	<1	16.8	<0.1	122	<0.5	31	19	<1
060436	<1	13.3	<0.1	133	<0.5	31	15	<1
060438	<1	8.7	<0.1	191	1.3	43	9	2
060440	<1	12.4	<0.1	196	<0.5	33	11	3
060442	<1	14.7	<0.1	108	0.7	28	15	<1
060444	<1	8.8	<0.1	200	0.7	20	9	<1
060446	<1	17.4	<0.1	96	<0.5	32	18	<1
060448	<1	8.9	<0.1	59	0.6	31	7	5
060450	<1	13.3	<0.1	139	0.8	29	13	3
060452	<1	36.2	<0.1	67	0.5	40	31	<1
060454	<1	33.0	<0.1	92	<0.5	27	25	<1
060456	<1	46.7	<0.1	64	<0.5	27	35	<1
060458	<1	36.0	<0.1	106	<0.5	22	28	<1
060460	<1	27.7	<0.1	67	<0.5	11	24	<1
060462	<1	15.3	<0.1	84	<0.5	18	12	3
060464	<1	14.0	<0.1	153	<0.5	31	11	3
060466	<1	33.3	<0.1	141	0.6	36	26	2
060468	<1	19.0	<0.1	41	<0.5	14	18	<1
060470	<1	31.8	<0.1	84	<0.5	13	34	<1
060472	<1	13.5	<0.1	53	<0.5	<5	13	<1
060474	<1	13.4	<0.1	66	<0.5	7	12	<1
060476	<1	3.5	<0.1	19	<0.5	<5	6	<1
060478	<1	9.2	<0.1	49	<0.5	5	12	<1
060480	<1	12.0	<0.1	60	<0.5	7	14	<1

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Element Method Det.Lim. Units	Pd GE_MMI_M 1 ppb	Pr GE_MMI_M 0.5 ppb	Pt GE_MMI_M 0.1 ppb	Rb GE_MMI_M 1 ppb	Sb GE_MMI_M 0.5 ppb	Sc GE_MMI_M 5 ppb	Sm GE_MMI_M 1 ppb	Sn GE_MMI_M 1 ppb
060482	<1	39.3	<0.1	154	1.1	69	31	6
060484	<1	52.4	<0.1	133	1.0	72	45	3
060486	<1	40.3	<0.1	84	1.0	51	34	1
060488	<1	29.7	<0.1	135	1.5	48	25	4
060490	<1	7.8	<0.1	86	0.6	26	8	<1
060492	<1	11.2	<0.1	38	0.7	39	9	6
060494	<1	12.5	<0.1	60	<0.5	41	13	<1
060496	<1	23.5	<0.1	56	<0.5	10	30	<1
060498	<1	17.9	<0.1	32	<0.5	18	17	<1
060500	<1	9.0	<0.1	160	0.7	34	11	4
060602	<1	19.2	<0.1	141	1.0	61	17	7
060604	<1	37.6	<0.1	80	0.7	40	32	2
060606	<1	74.9	<0.1	131	<0.5	30	51	<1
060608	<1	10.1	<0.1	116	<0.5	11	9	<1
060610	<1	12.4	<0.1	88	<0.5	30	13	<1
060612	<1	17.9	<0.1	85	<0.5	28	19	<1
060614	<1	15.3	<0.1	108	<0.5	25	16	<1
060616	<1	5.2	<0.1	77	<0.5	11	6	<1
060618	<1	15.4	<0.1	105	<0.5	31	16	<1
060620	<1	38.7	<0.1	26	<0.5	15	28	<1
060622	<1	19.9	<0.1	94	<0.5	25	18	<1
060624	<1	12.6	<0.1	144	0.7	48	12	3
060626	<1	12.5	<0.1	107	0.9	48	13	2
060628	<1	4.6	<0.1	114	<0.5	20	5	<1
060630	<1	4.7	<0.1	62	<0.5	<5	4	<1
060632	<1	3.2	<0.1	33	<0.5	<5	3	<1
060634	<1	10.7	<0.1	122	1.3	54	10	7
060636	<1	9.1	<0.1	106	0.7	42	8	<1
060638	<1	34.7	<0.1	102	0.7	50	34	<1
060640	<1	10.9	<0.1	61	<0.5	<5	11	<1
060642	<1	14.8	<0.1	130	<0.5	39	15	2
060644	<1	18.2	<0.1	52	<0.5	6	17	<1
060646	<1	52.6	<0.1	97	<0.5	25	38	1
060648	<1	9.3	<0.1	178	0.7	38	10	2
060650	<1	9.2	<0.1	107	0.7	28	10	<1
060652	<1	12.1	<0.1	155	0.7	35	12	1
060654	<1	8.9	<0.1	121	0.8	44	10	3
060656	<1	11.4	<0.1	68	0.7	28	11	4
060658	<1	25.2	<0.1	20	<0.5	34	29	<1
060660	<1	17.4	<0.1	50	<0.5	11	17	<1

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Element Method Det.Lim. Units	Pd GE_MMI_M 1 ppb	Pr GE_MMI_M 0.5 ppb	Pt GE_MMI_M 0.1 ppb	Rb GE_MMI_M 1 ppb	Sb GE_MMI_M 0.5 ppb	Sc GE_MMI_M 5 ppb	Sm GE_MMI_M 1 ppb	Sn GE_MMI_M 1 ppb
*Rep 060404	<1	12.2	<0.1	132	<0.5	16	10	<1
*Rep 060438	<1	9.4	<0.1	181	1.5	43	9	2
*Rep 060464	<1	14.1	<0.1	139	<0.5	32	11	3
*Rep 060490	<1	7.6	<0.1	85	0.7	26	8	<1
*Rep 060642	<1	16.1	<0.1	161	0.5	40	15	2
*Std MMISRM18	12	3.1	7.9	123	<0.5	<5	4	<1
*Std MMISRM19	<1	3.3	<0.1	197	1.0	12	10	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1

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Element Method Det.Lim. Units	Sr GE_MMI_M	Ta GE_MMI_M	Tb GE_MMI_M	Te GE_MMI_M	Th GE_MMI_M	Tl GE_MMI_M	Tl GE_MMI_M	U GE_MMI_M
060402	500	<1	6.6	10	80.1	480	1.0	14.7
060404	360	<1	1.1	10	10.9	300	1.2	16.1
060406	280	<1	4.5	<10	66.2	2890	0.6	18.4
060408	260	2	3.1	<10	46.3	9720	1.0	12.6
060410	100	<1	2.8	<10	45.7	4810	1.1	13.3
060412	80	<1	5.2	<10	46.2	2070	0.8	15.7
060414	60	<1	6.4	<10	46.5	2320	1.0	16.2
060416	150	3	2.4	<10	28.9	14400	1.2	10.8
060418	140	<1	2.7	<10	31.1	5310	0.8	
060420	210	<1	1.9	<10	22.3	5190	0.6	7.7
060422	100	<1	4.0	<10	23.3	810	0.6	10.5
060424	480	<1	1.2	<10	7.5	280	0.4	16.9
060426	410	<1	2.9	<10	22.6	410	0.5	9.2
060428	330	<1	4.4	<10	16.1	110	0.5	486
060430	250	<1	1.5	<10	14.3	730	0.4	8.9
060432	100	<1	2.4	<10	20.1	7270	1.0	7.1
060434	50	<1	2.9	<10	20.6	830	0.5	4.8
060436	40	<1	2.4	<10	12.1	960	0.5	3.9
060438	30	<1	1.5	<10	23.4	3620	0.8	11.5
060440	450	<1	1.8	<10	19.1	6810	0.6	8.0
060442	160	<1	2.7	<10	12.5	1300	0.4	5.6
060444	190	<1	1.4	<10	12.5	930	0.3	7.0
060446	60	<1	2.3	<10	16.5	720	0.4	6.8
060448	520	<1	1.1	<10	10.7	4500	0.4	3.5
060450	370	<1	1.7	<10	15.9	4880	0.6	6.9
060452	170	<1	3.7	<10	26.7	1150	0.5	12.5
060454	330	<1	2.6	<10	38.3	1770	0.6	11.7
060456	320	<1	3.7	<10	29.1	880	0.7	22.1
060458	250	<1	2.7	<10	33.8	1110	0.7	13.7
060460	270	<1	2.3	<10	14.7	160	0.4	31.3
060462	250	<1	1.3	<10	13.9	4620	0.3	7.9
060464	290	<1	1.3	<10	19.3	4930	0.7	8.5
060466	220	<1	2.7	<10	35.8	3970	0.9	12.2
060468	400	<1	2.7	<10	5.4	30	0.2	51.6
060470	430	<1	3.3	<10	22.9	220	0.4	8.6
060472	400	<1	1.3	<10	7.8	50	0.3	37.6
060474	380	<1	1.4	<10	14.6	80	0.2	20.1
060476	370	<1	0.9	<10	4.2	90	0.1	1.8
060478	560	<1	1.4	<10	6.9	60	0.2	8.9
060480	450	<1	1.4	<10	7.5	50	0.1	5.2

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Element	Sr GE_MMI_M	Ta GE_MMI_M	Tb GE_MMI_M	Te GE_MMI_M	Th GE_MMI_M	Ti GE_MMI_M	Tl GE_MMI_M	U GE_MMI_M
Method	10	1	0.1	10	0.5	10	0.1	0.5
Det.Lim.	ppb	ppb						
060482	330	2	3.8	<10	38.1	12400	1.3	15.3
060484	280	<1	5.4	<10	56.0	7770	0.9	13.2
060486	190	<1	4.1	<10	29.2	2900	0.7	9.6
060488	170	2	3.2	<10	19.0	7710	1.2	9.4
060490	110	<1	1.3	<10	10.9	1410	0.5	5.5
060492	520	1	1.4	<10	18.3	7890	0.5	5.9
060494	70	<1	2.0	<10	17.1	1720	0.4	5.3
060496	580	<1	3.2	<10	8.3	140	0.6	15.1
060498	180	<1	2.0	<10	16.6	690	0.4	6.5
060500	60	1	1.7	<10	18.9	6520	0.7	6.7
060602	340	3	2.0	<10	30.3	12800	1.1	8.6
060604	170	1	3.8	<10	48.8	3480	0.8	17.3
060606	370	<1	5.4	<10	49.4	820	0.6	11.7
060608	470	<1	1.0	<10	10.9	390	0.4	13.8
060610	20	<1	2.1	<10	14.4	700	0.6	4.4
060612	160	<1	2.7	<10	11.6	1160	0.6	6.0
060614	130	<1	2.4	<10	24.1	1020	0.6	8.6
060616	160	<1	1.0	<10	6.5	1200	0.3	4.2
060618	80	<1	2.5	<10	10.4	820	0.5	4.4
060620	280	<1	2.6	<10	14.1	350	0.4	8.0
060622	<10	<1	2.1	<10	4.2	230	0.5	2.8
060624	370	1	1.8	<10	22.1	5790	0.7	6.4
060626	90	<1	2.2	<10	16.7	2780	0.4	6.8
060628	160	<1	0.9	<10	5.7	720	0.3	3.3
060630	310	<1	0.5	<10	5.0	150	0.2	6.5
060632	260	<1	0.3	<10	4.5	170	0.1	24.5
060634	170	2	1.3	<10	38.8	15000	0.9	8.1
060636	20	<1	1.4	<10	16.4	1400	0.4	5.9
060638	20	<1	4.4	<10	33.9	2030	0.7	9.9
060640	360	<1	1.1	<10	7.7	50	0.2	29.9
060642	210	<1	2.3	<10	17.6	3910	0.5	8.3
060644	450	<1	1.6	<10	8.9	100	0.2	12.6
060646	270	<1	3.5	<10	22.4	1960	0.6	10.1
060648	180	<1	1.5	<10	24.1	4970	0.7	7.7
060650	180	<1	1.6	<10	12.0	1960	0.5	6.4
060652	130	<1	2.1	<10	15.2	2670	0.5	6.7
060654	200	1	1.4	<10	11.8	5470	0.5	7.0
060656	340	1	1.6	<10	10.6	6320	0.7	4.4
060658	390	<1	5.5	<10	11.7	300	0.3	112
060660	420	<1	1.5	<10	9.4	340	0.6	7.7

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Element Method Det.Lim. Units	Sr GE_MMI_M 10 ppb	Ta GE_MMI_M 1 ppb	Tb GE_MMI_M 0.1 ppb	Te GE_MMI_M 10 ppb	Th GE_MMI_M 0.5 ppb	Tl GE_MMI_M 10 ppb	Tl GE_MMI_M 0.1 ppb	U GE_MMI_M 0.5 ppb
*Rep 060404	380	<1	1.1	10	9.9	340	1.4	16.1
*Rep 060438	30	<1	1.6	<10	25.3	3540	1.0	12.0
*Rep 060464	290	<1	1.4	<10	19.7	4750	0.7	8.5
*Rep 060490	120	<1	1.3	<10	12.2	1760	0.6	5.6
*Rep 060642	230	<1	1.9	<10	18.6	3890	0.6	8.2
*Std MMISRM18	1290	<1	0.6	<10	14.3	10	0.2	30.1
*Std MMISRM19	3870	<1	2.5	<10	21.1	<10	0.9	67.9
*Blk BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5
*Blk BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5
*Blk BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5
*Blk BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5

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Element	W	Y	Yb	Zn	Zr
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	0.5	1	0.2	10	2
Units	ppb	ppb	ppb	ppb	ppb
060402	0.7	171	12.6	630	73
060404	<0.5	28	2.6	460	11
060406	1.6	88	7.4	280	77
060408	2.2	67	5.9	310	117
060410	1.2	60	4.6	110	75
060412	0.8	112	8.6	60	61
060414	0.9	112	8.7	90	68
060416	2.3	57	5.0	160	142
060418	0.8	65	5.8	220	67
060420	0.6	50	4.5	220	47
060422	<0.5	116	9.3	370	30
060424	<0.5	25	1.7	320	9
060426	<0.5	66	4.4	140	22
060428	<0.5	184	14.7	230	48
060430	<0.5	33	2.5	200	25
060432	1.0	59	3.9	160	70
060434	<0.5	70	4.9	80	37
060436	<0.5	63	5.2	300	31
060438	0.6	49	5.4	240	56
060440	0.7	46	3.7	1980	55
060442	<0.5	78	5.8	610	28
060444	<0.5	33	2.7	610	28
060446	<0.5	61	4.4	290	33
060448	<0.5	31	2.4	1410	44
060450	<0.5	51	4.0	2350	54
060452	<0.5	99	8.0	170	40
060454	0.6	49	4.4	60	66
060456	<0.5	83	6.3	120	37
060458	0.7	50	4.0	150	42
060460	<0.5	51	3.7	210	13
060462	<0.5	34	2.8	280	38
060464	1.1	31	2.9	840	64
060466	0.5	56	4.8	440	118
060468	<0.5	97	6.0	90	6
060470	<0.5	68	4.5	40	27
060472	<0.5	39	2.4	140	7
060474	<0.5	31	2.0	40	12
060476	<0.5	24	1.8	70	11
060478	<0.5	31	2.1	630	7
060480	<0.5	32	2.0	80	11

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Element Method Det.Lim. Units	W GE_MMI_M	Y GE_MMI_M	Yb GE_MMI_M	Zn GE_MMI_M	Zr GE_MMI_M
060482	2.0	83	7.1	620	146
060484	1.9	112	9.1	1110	132
060486	0.6	107	8.7	340	63
060488	1.1	88	7.5	160	76
060490	<0.5	48	4.3	210	22
060492	0.8	37	3.2	4690	51
060494	<0.5	61	5.3	340	38
060496	<0.5	65	3.7	20	14
060498	<0.5	51	4.2	250	37
060500	0.8	57	5.4	210	53
060602	1.9	52	4.4	630	131
060604	1.8	71	5.5	340	83
060606	<0.5	123	9.0	250	46
060608	<0.5	22	1.6	100	14
060610	<0.5	60	4.7	80	23
060612	<0.5	75	5.3	60	21
060614	<0.5	58	4.6	440	26
060616	<0.5	28	2.4	60	13
060618	<0.5	72	5.1	170	19
060620	<0.5	59	3.7	60	22
060622	<0.5	70	5.8	90	6
060624	0.8	46	4.1	1510	67
060626	0.5	61	5.0	1060	47
060628	<0.5	31	3.1	600	14
060630	<0.5	11	0.9	120	9
060632	<0.5	7	0.5	110	7
060634	2.0	33	3.3	790	113
060636	<0.5	48	5.4	600	41
060638	<0.5	80	7.1	60	67
060640	<0.5	25	1.5	130	6
060642	<0.5	58	5.2	180	55
060644	<0.5	34	2.3	190	7
060646	<0.5	78	5.6	230	37
060648	<0.5	35	3.1	360	75
060650	<0.5	45	3.9	730	33
060652	<0.5	63	5.1	820	41
060654	<0.5	42	3.8	250	60
060656	<0.5	41	3.7	120	44
060658	<0.5	217	13.9	130	20
060660	<0.5	35	2.3	40	16

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

**WARNING:** The sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativity of the goods and strictly relate to the sample (s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement purposes. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law .

Element	W GE_MMI_M	Y GE_MMI_M	Yb GE_MMI_M	Zn GE_MMI_M	Zr GE_MMI_M
Method	0.5	1	0.2	10	2
Det.Lim.	ppb	ppb	ppb	ppb	ppb
*Rep 060404	<0.5	28	2.5	530	11
*Rep 060438	0.7	46	5.3	210	58
*Rep 060464	0.9	33	2.8	930	61
*Rep 060490	<0.5	38	4.0	280	26
*Rep 060642	<0.5	53	4.5	170	58
*Std MMISRM18	<0.5	16	0.7	710	29
*Std MMISRM19	<0.5	73	6.2	2560	15
*BLK BLANK	<0.5	<1	<0.2	<10	<2
*BLK BLANK	<0.5	<1	<0.2	<10	<2
*BLK BLANK	<0.5	<1	<0.2	<10	<2
*BLK BLANK	<0.5	<1	<0.2	<10	2

This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

**WARNING:** The sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativity of the goods and strictly relate to the sample (s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement purposes. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

## APPENDIX II

Certificate of Analysis  
Activation Laboratories

**Quality Analysis ...**



**Innovative Technologies**

**Probe Metals Limited**  
**56 Temperance Street**  
**Suite 1000**  
**Toronto ON M5H 3V5**  
**Canada**

**ATTN: Dave Palmer**

**Date Submitted:** 18-May-16  
**Invoice No.:** A16-04425  
**Invoice Date:** 03-Jun-16  
**Your Reference:** West Porcupine

## CERTIFICATE OF ANALYSIS

80 Soil samples were submitted for analysis.

The following analytical package(s) were requested:  
Code 1D Enh INAA(INAAGEO)  
Code UT-1-0.5g Aqua Regia ICP/MS

**REPORT      A16-04425**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Assays are recommended for values >10,000 for Cu and Au. The Au from AR-MS is only semi-quantitative. For accurate Au data, fire assay is recommended.

For values exceeding the upper limits we recommend assays.

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Eseme".

Emmanuel Eseme , Ph.D.  
Quality Control

ACTIVATION LABORATORIES LTD.  
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5  
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL [Ancaster@actlabs.com](mailto:Ancaster@actlabs.com) ACTLABS GROUP WEBSITE [www.actlabs.com](http://www.actlabs.com)

















**Results****Activation Laboratories Ltd.****Report: A16-04425**

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
60401	< 0.001	< 0.5	0.40	5.50	4.5	0.5	30
60403	< 0.001	< 0.5	0.20	16.0	1.6	1.1	100
60405	< 0.001	< 0.5	< 0.02	4.60	3.6	0.4	< 10
60407	< 0.001	< 0.5	< 0.02	5.30	3.3	0.4	< 10
60409	< 0.001	< 0.5	< 0.02	5.30	2.8	0.3	< 10
60411	< 0.001	< 0.5	< 0.02	2.90	2.6	0.3	< 10
60413	< 0.001	< 0.5	< 0.02	5.70	3.5	0.5	< 10
60415	< 0.001	< 0.5	0.20	4.40	2.7	0.3	< 10
60417	< 0.001	< 0.5	0.10	6.10	2.9	0.4	< 10
60419	< 0.001	< 0.5	0.10	6.70	3.3	0.4	20
60421	< 0.001	< 0.5	< 0.02	3.70	3.2	0.5	40
60423	< 0.001	< 0.5	< 0.02	3.80	2.7	0.4	< 10
60425	< 0.001	< 0.5	< 0.02	3.10	2.6	0.3	< 10
60427	< 0.001	< 0.5	0.10	3.70	1.2	4.7	140
60429	< 0.001	< 0.5	< 0.02	3.40	2.4	0.4	< 10
60431	< 0.001	< 0.5	< 0.02	4.80	2.4	0.3	< 10
60433	< 0.001	< 0.5	< 0.02	4.00	2.4	0.4	20
60435	< 0.001	< 0.5	< 0.02	5.20	2.3	0.4	< 10
60437	< 0.001	< 0.5	< 0.02	5.00	2.0	0.5	< 10
60439	< 0.001	< 0.5	< 0.02	5.50	1.7	0.3	10
60441	< 0.001	< 0.5	< 0.02	6.70	3.8	0.5	20
60443	< 0.001	< 0.5	< 0.02	4.30	2.6	0.4	< 10
60445	< 0.001	< 0.5	< 0.02	11.0	2.6	0.4	< 10
60447	< 0.001	< 0.5	< 0.02	3.60	3.1	0.3	< 10
60449	< 0.001	< 0.5	< 0.02	6.20	2.8	0.4	< 10
60451	< 0.001	< 0.5	< 0.02	4.50	1.9	0.5	< 10
60453	< 0.001	< 0.5	< 0.02	3.50	2.9	1.1	< 10
60455	< 0.001	< 0.5	0.10	5.40	3.4	0.5	< 10
60457	< 0.001	< 0.5	< 0.02	3.10	2.7	0.5	< 10
60459	< 0.001	< 0.5	< 0.02	3.90	0.9	1.6	70
60461	< 0.001	< 0.5	< 0.02	4.10	3.0	0.3	< 10
60463	< 0.001	< 0.5	< 0.02	5.25	1.9	0.4	< 10
60465	< 0.001	< 0.5	< 0.02	3.50	3.4	0.4	< 10
60467	< 0.001	16.4	0.10	7.10	0.8	1.0	60
60469	< 0.001	19.4	< 0.02	3.30	3.6	0.6	< 10
60471	< 0.001	< 0.5	< 0.02	3.90	1.0	1.8	50
60473	< 0.001	< 0.5	< 0.02	4.20	2.8	0.9	20
60475	< 0.001	< 0.5	< 0.02	3.30	5.0	0.5	< 10
60477	< 0.001	< 0.5	< 0.02	3.80	4.0	0.7	< 10
60479	< 0.001	< 0.5	< 0.02	4.40	3.0	0.5	< 10
60481	< 0.001	< 0.5	< 0.02	3.90	2.9	0.4	< 10
60483	< 0.001	< 0.5	< 0.02	3.50	3.4	0.3	< 10
60485	< 0.001	< 0.5	< 0.02	4.20	3.5	0.3	< 10
60487	< 0.001	< 0.5	< 0.02	4.70	3.2	0.4	< 10
60489	< 0.001	< 0.5	< 0.02	5.30	4.3	0.6	20
60491	< 0.001	< 0.5	< 0.02	6.30	2.1	0.4	< 10
60493	< 0.001	< 0.5	< 0.02	6.90	3.2	0.4	< 10
60495	< 0.001	< 0.5	< 0.02	3.30	3.7	0.5	< 10

**Results****Activation Laboratories Ltd.****Report: A16-04425**

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
60497	< 0.001	< 0.5	< 0.02	3.60	2.9	0.4	< 10
60499	< 0.001	< 0.5	< 0.02	4.70	4.4	0.4	< 10
60601	< 0.001	< 0.5	0.10	5.00	3.2	0.4	< 10
60603	< 0.001	< 0.5	< 0.02	4.40	2.7	0.4	< 10
60605	< 0.001	< 0.5	< 0.02	6.20	2.5	0.4	< 10
60607	< 0.001	< 0.5	< 0.02	4.05	4.1	0.5	< 10
60609	< 0.001	< 0.5	< 0.02	6.30	2.7	0.5	40
60611	< 0.001	< 0.5	< 0.02	6.70	4.0	0.6	20
60613	< 0.001	< 0.5	< 0.02	6.60	4.1	0.6	10
60615	< 0.001	< 0.5	< 0.02	4.50	2.1	0.4	< 10
60617	< 0.001	< 0.5	< 0.02	5.90	2.2	0.4	20
60619	< 0.001	< 0.5	< 0.02	2.10	3.3	1.0	< 10
60621	< 0.001	< 0.5	< 0.02	6.10	2.9	0.4	30
60623	< 0.001	< 0.5	< 0.02	4.90	2.9	0.3	< 10
60625	< 0.001	2.3	< 0.02	4.50	1.9	0.3	< 10
60627	< 0.001	< 0.5	< 0.02	4.10	3.1	0.4	< 10
60629	< 0.001	< 0.5	< 0.02	4.40	3.3	0.7	< 10
60631	< 0.001	< 0.5	< 0.02	1.90	2.5	0.7	< 10
60633	< 0.001	< 0.5	< 0.02	5.80	2.9	0.3	20
60635	< 0.001	< 0.5	< 0.02	7.10	2.7	0.4	30
60637	< 0.001	< 0.5	< 0.02	3.55	3.0	0.4	< 10
60639	< 0.001	< 0.5	< 0.02	3.00	3.7	0.7	< 10
60641	< 0.001	< 0.5	< 0.02	3.70	2.6	0.4	< 10
60643	< 0.001	< 0.5	< 0.02	3.80	3.0	0.7	< 10
60645	< 0.001	< 0.5	< 0.02	4.30	3.3	0.4	< 10
60647	< 0.001	< 0.5	< 0.02	6.00	3.8	0.4	< 10
60649	< 0.001	< 0.5	< 0.02	5.40	3.0	0.5	< 10
60651	< 0.001	< 0.5	< 0.02	6.20	3.6	0.5	20
60653	< 0.001	< 0.5	< 0.02	5.80	2.8	0.4	< 10
60655	< 0.001	< 0.5	< 0.02	3.50	4.1	0.3	< 10
60657	< 0.001	< 0.5	< 0.02	6.40	3.2	2.0	50
60659	< 0.001	< 0.5	< 0.02	7.10	5.2	0.6	< 10



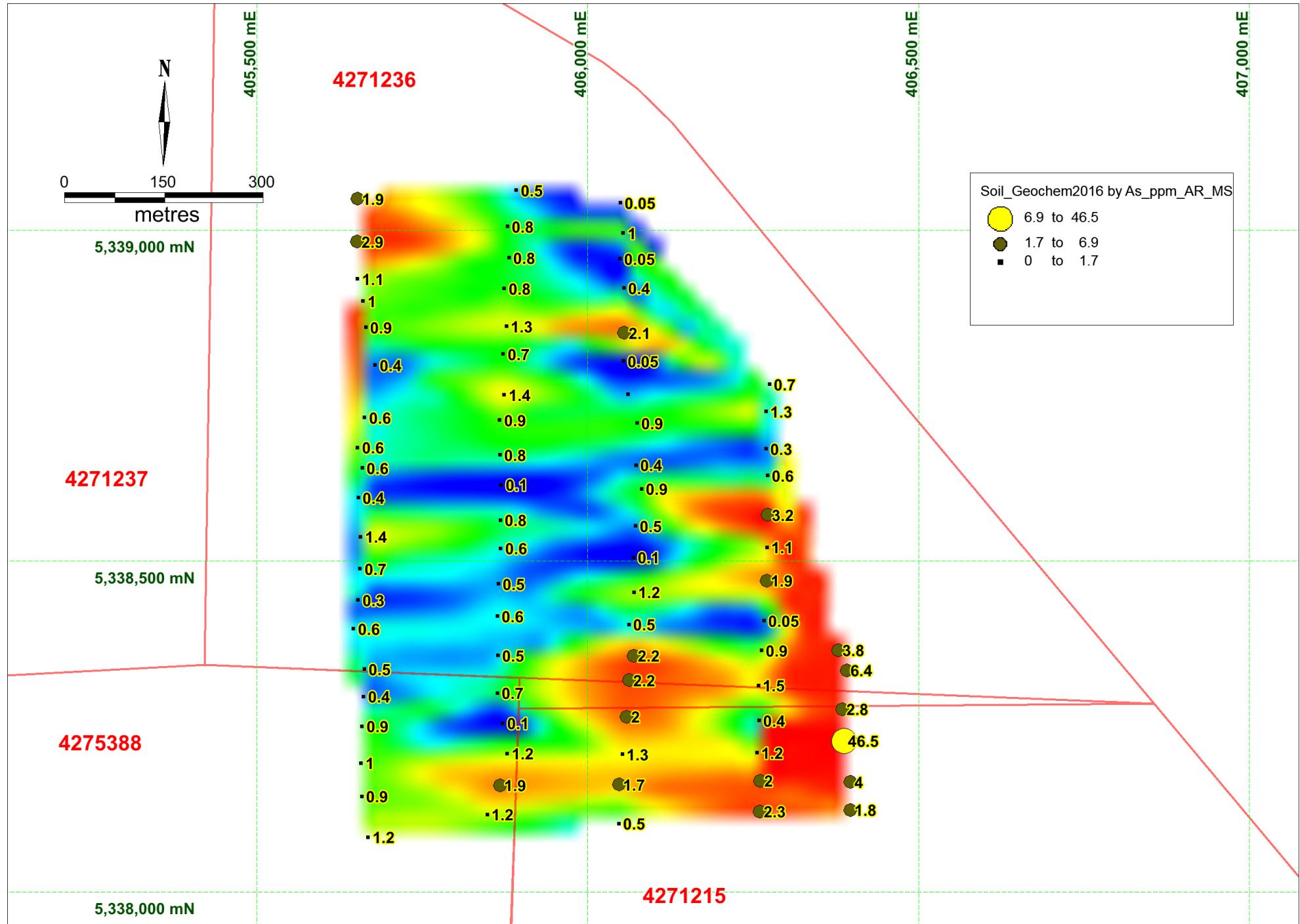




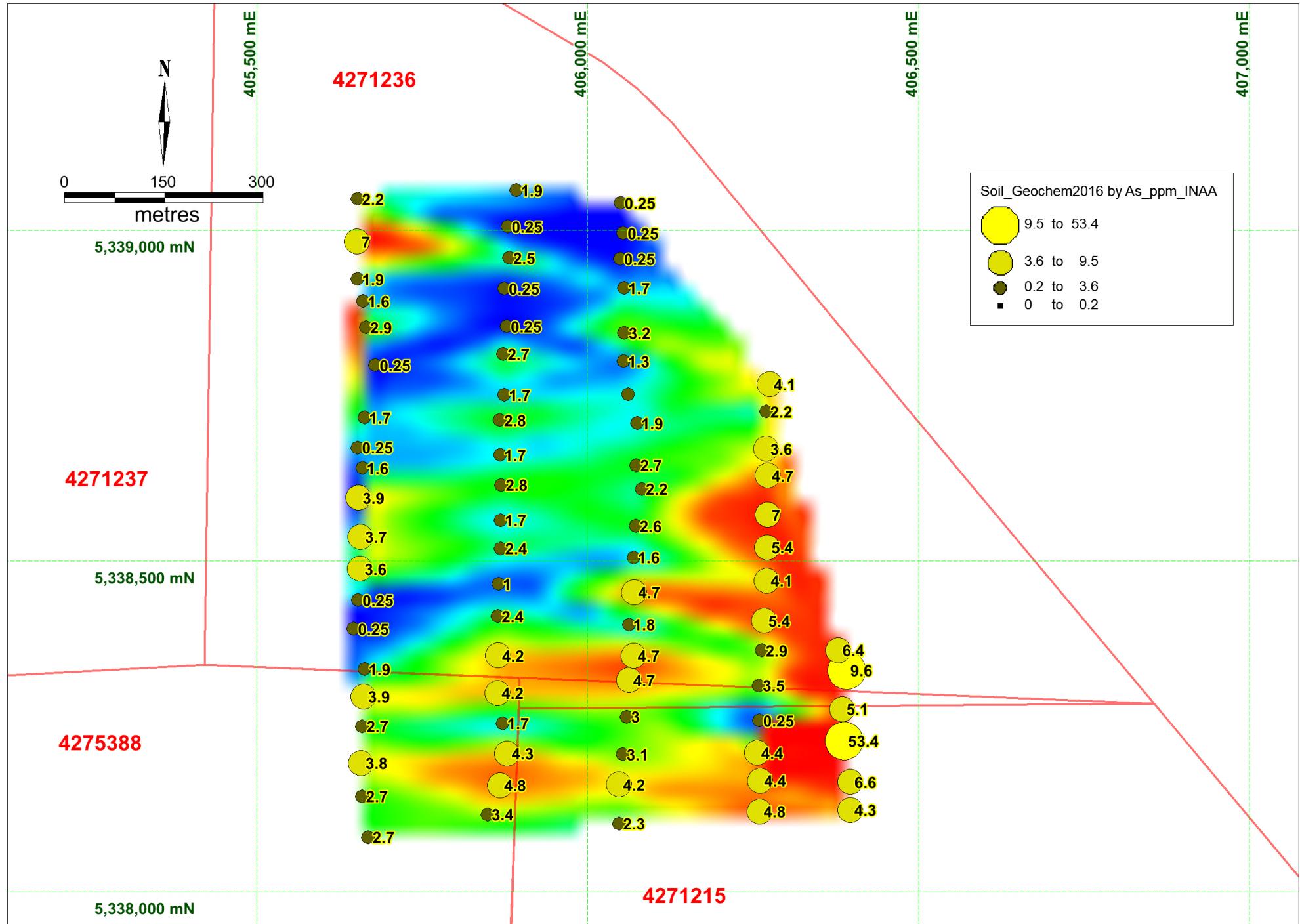


Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppb	
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas		2990	0.30	708	2.5	31.3	4220
GXR-1 Cert		3300	0.390	730	2.44	34.9	3900
DH-1a Meas				> 200	1840		
DH-1a Cert					910	2629	
GXR-4 Meas		430	2.50	55.9	19.8	4.8	110
GXR-4 Cert		470	3.20	52.0	22.5	6.20	110
GXR-6 Meas		65.6	1.60	109	4.0	0.7	80
GXR-6 Cert		95.0	2.20	101	5.30	1.54	68.0
OREAS 45d (Aqua Regia) Meas		6.3		20.9	11.4	1.5	
OREAS 45d (Aqua Regia) Cert		21		17.00	11.3	1.64	
Oreas 95 (Aqua Regia) Meas				66.1			
Oreas 95 (Aqua Regia) Cert				64.9			
SdAR-M2 (U.S.G.S.) Meas				743	12.7	1.6	1170
SdAR-M2 (U.S.G.S.) Cert				808	14.2	2.53	1440.00
DMMAS 119 Meas							
DMMAS 119 Cert							
DMMAS 119 Meas							
DMMAS 119 Cert							
60403 Orig	< 0.001	< 0.5	0.30	16.0	1.5	1.1	110
60403 Dup	< 0.001	< 0.5	0.10	16.1	1.7	1.1	90
60461 Orig	< 0.001	< 0.5	< 0.02	4.20	3.0	0.3	< 10
60461 Dup	< 0.001	< 0.5	< 0.02	4.00	3.1	0.3	< 10
60463 Orig	< 0.001	< 0.5	< 0.02	5.20	1.8	0.3	< 10
60463 Dup	< 0.001	< 0.5	< 0.02	5.30	2.0	0.4	< 10
60481 Orig							
60481 Dup							
60607 Orig	< 0.001	< 0.5	< 0.02	4.00	3.7	0.5	< 10
60607 Dup	< 0.001	< 0.5	< 0.02	4.10	4.4	0.5	< 10
60619 Orig							
60619 Dup							
60637 Orig	< 0.001	< 0.5	< 0.02	3.70	3.6	0.5	< 10
60637 Dup	< 0.001	< 0.5	< 0.02	3.40	2.5	0.4	< 10
60641 Orig	< 0.001	< 0.5	< 0.02	3.70	2.9	0.4	< 10
60641 Dup	< 0.001	< 0.5	< 0.02	3.70	2.3	0.3	< 10
60645 Orig	< 0.001	21.3	< 0.02	4.10	3.0	0.4	< 10
60645 Dup	< 0.001	< 0.5	< 0.02	4.50	3.6	0.4	< 10
60649 Orig	< 0.001	< 0.5	< 0.02	5.30	3.0	0.5	< 10
60649 Dup	< 0.001	< 0.5	< 0.02	5.50	3.0	0.5	< 10
Method Blank	< 0.001	< 0.5	< 0.02	< 0.01	< 0.1	< 0.1	< 10
Method Blank	< 0.001	< 0.5	< 0.02	< 0.01	< 0.1	< 0.1	< 10
Method Blank							
Method Blank							

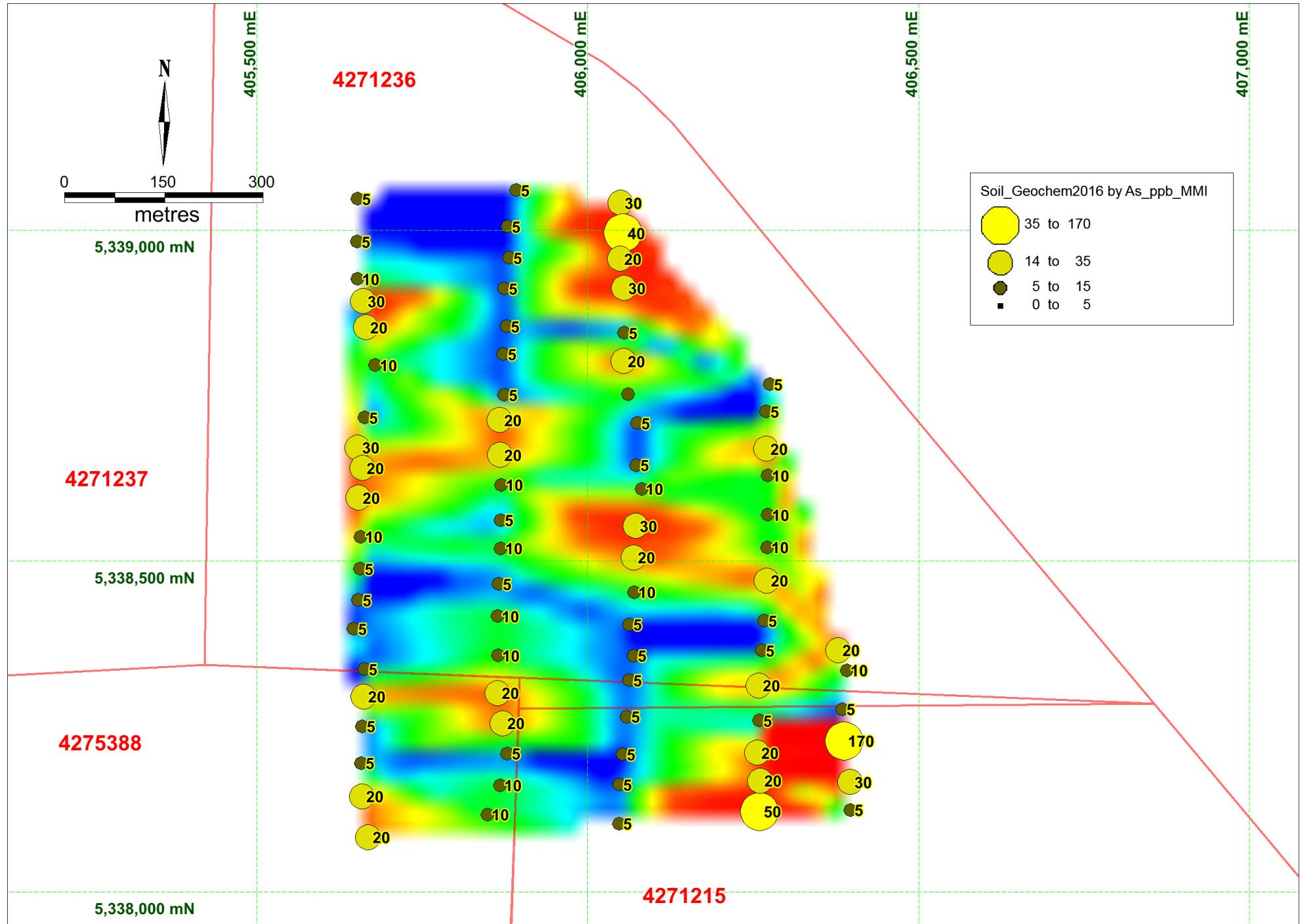
**APPENDIX III**  
**Large Scale Results Maps – Soil Sampling**



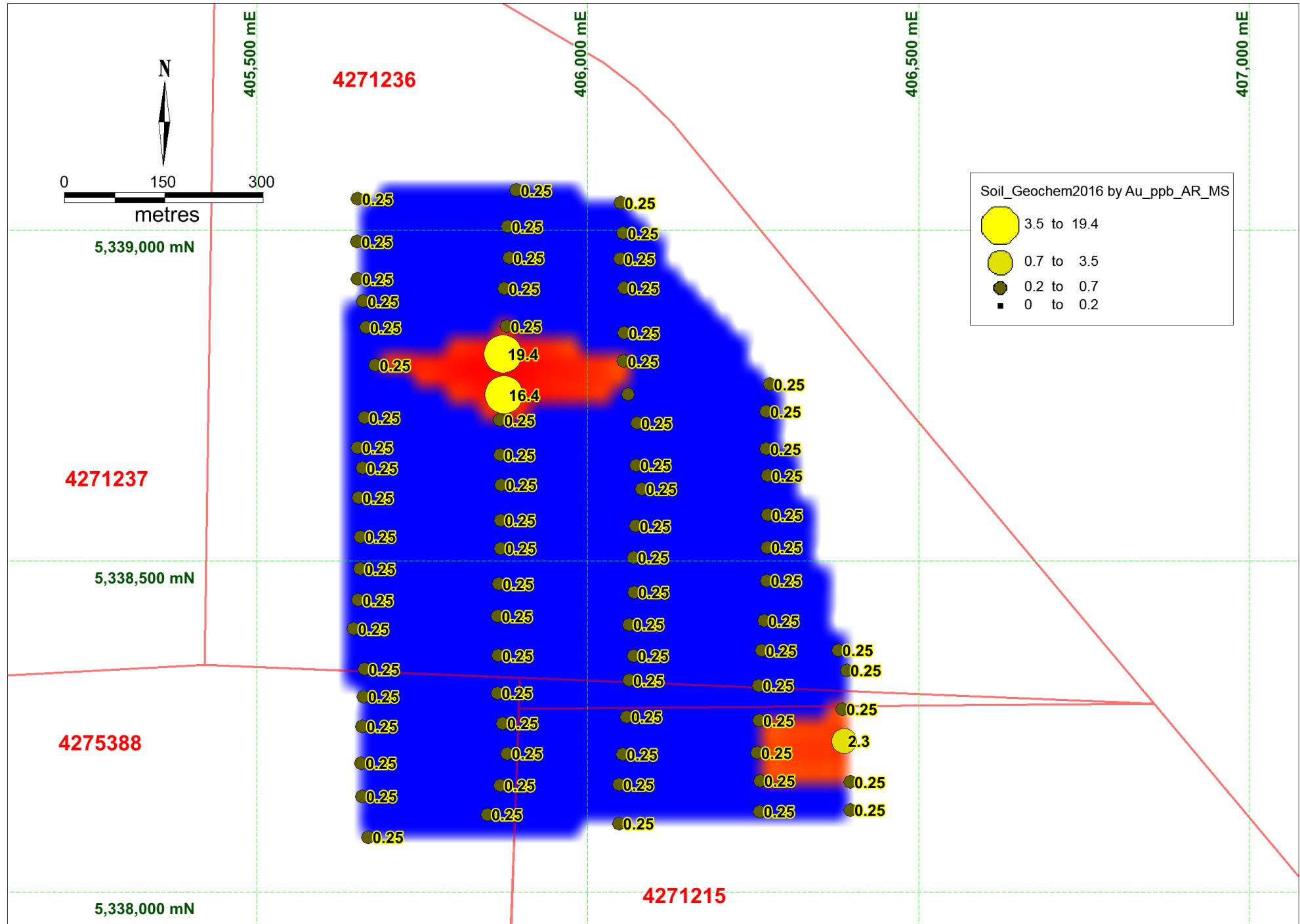
Appendix III - Soil Sampling Results - As ppm by AR-MS



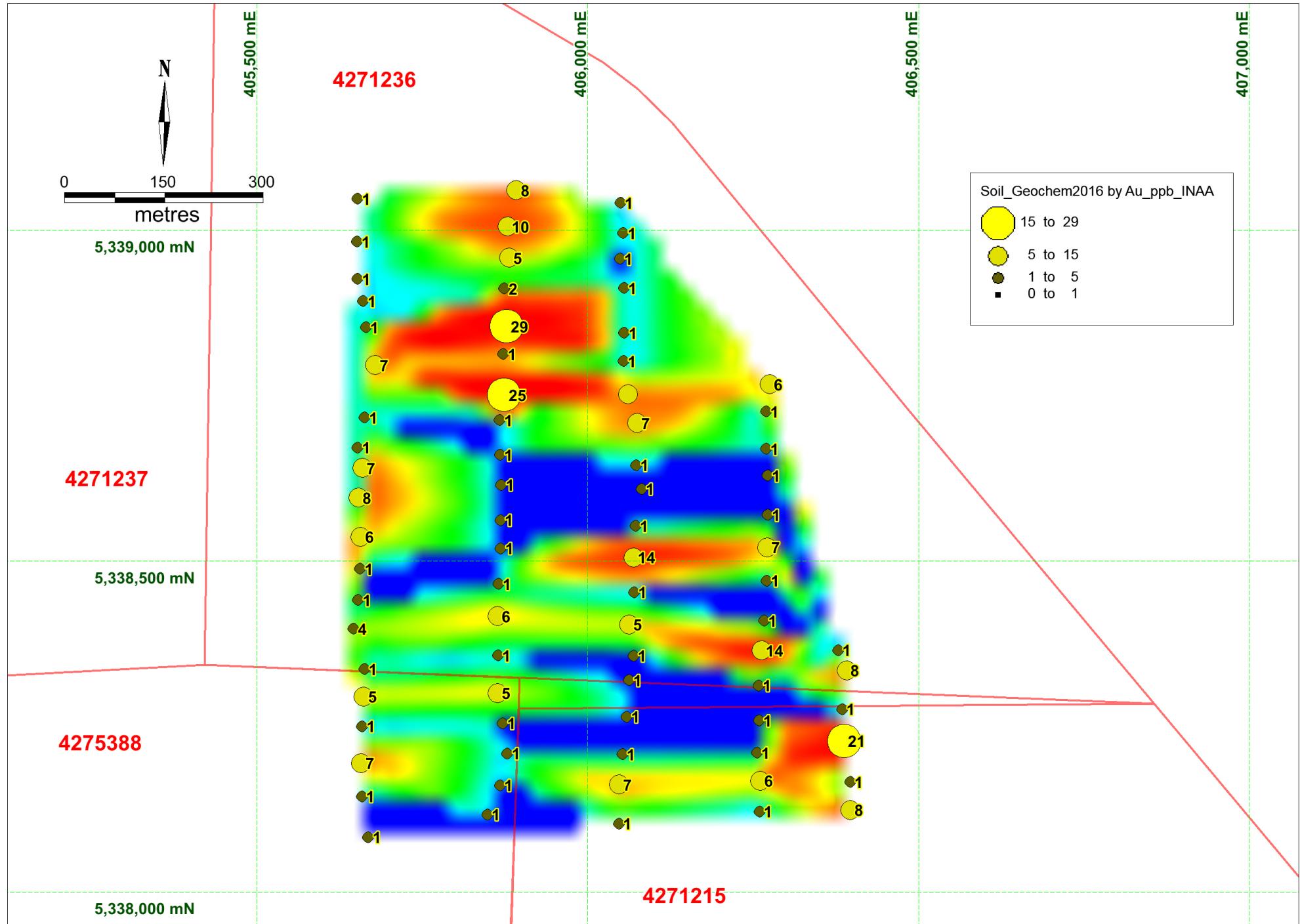
Appendix III - Soil Sampling Results - As ppm by INAA



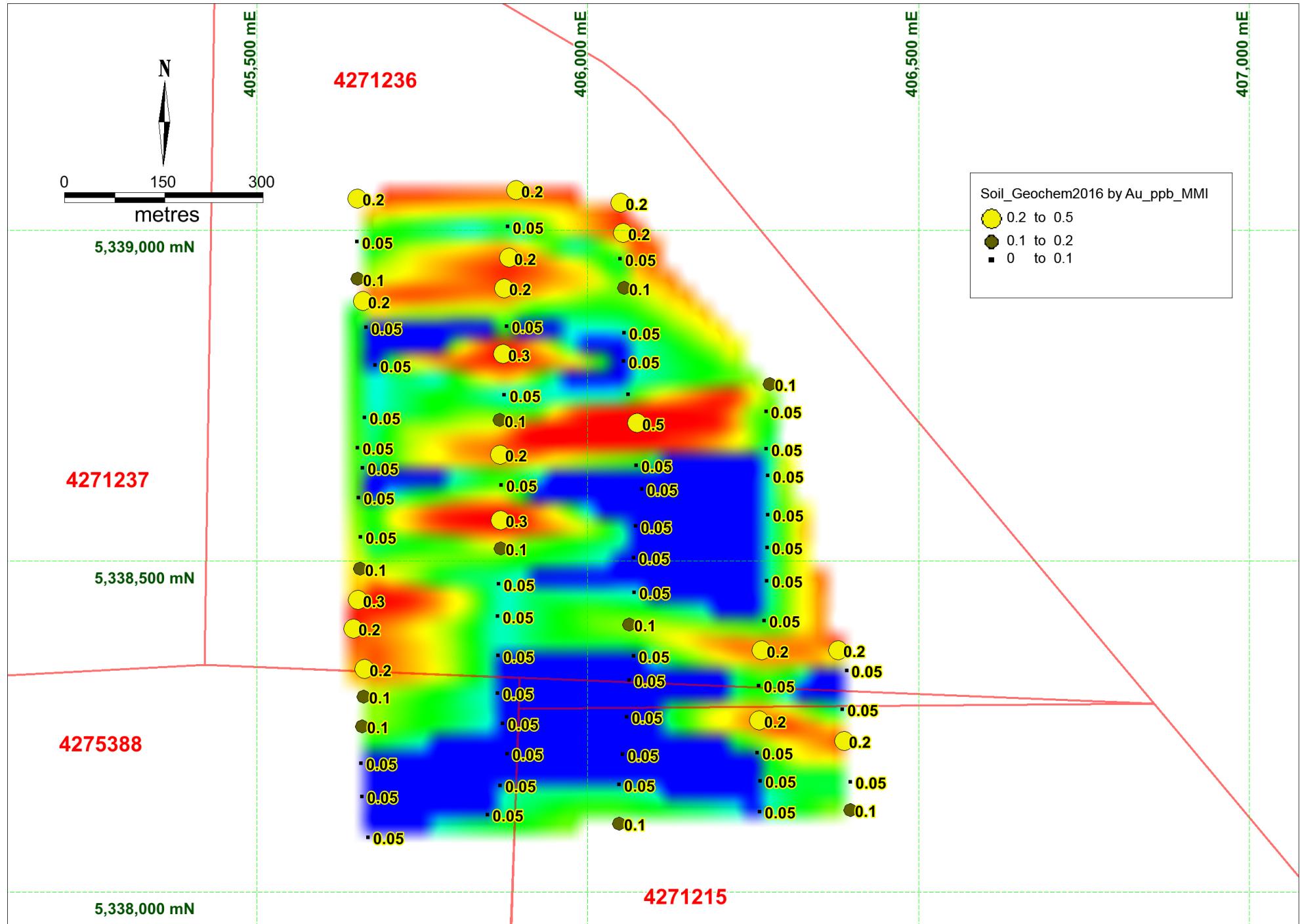
Appendix III - Soil Sampling Results - As ppb by MMi



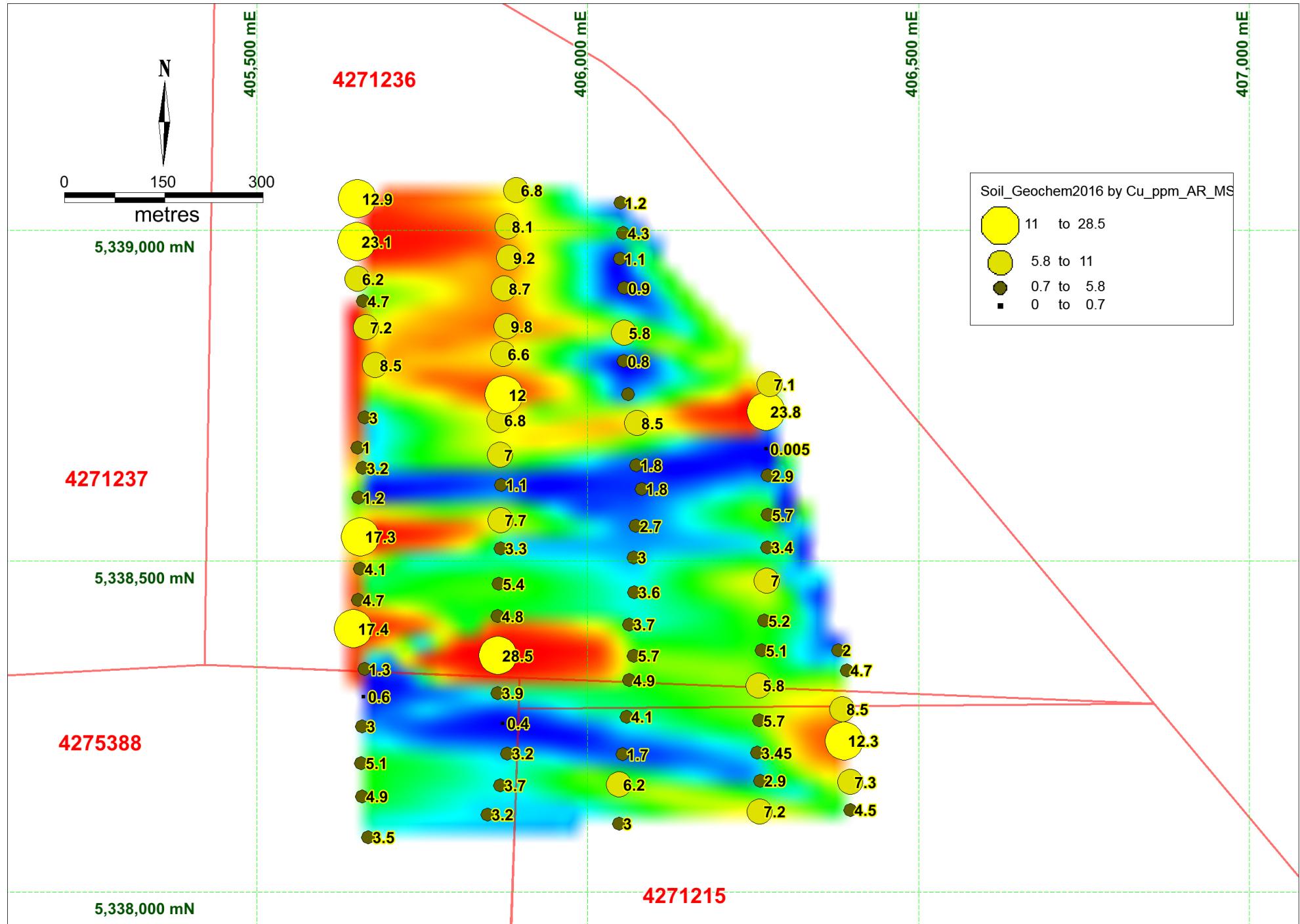
Appendix III - Soil Sampling Results - Au ppb by AR-MS



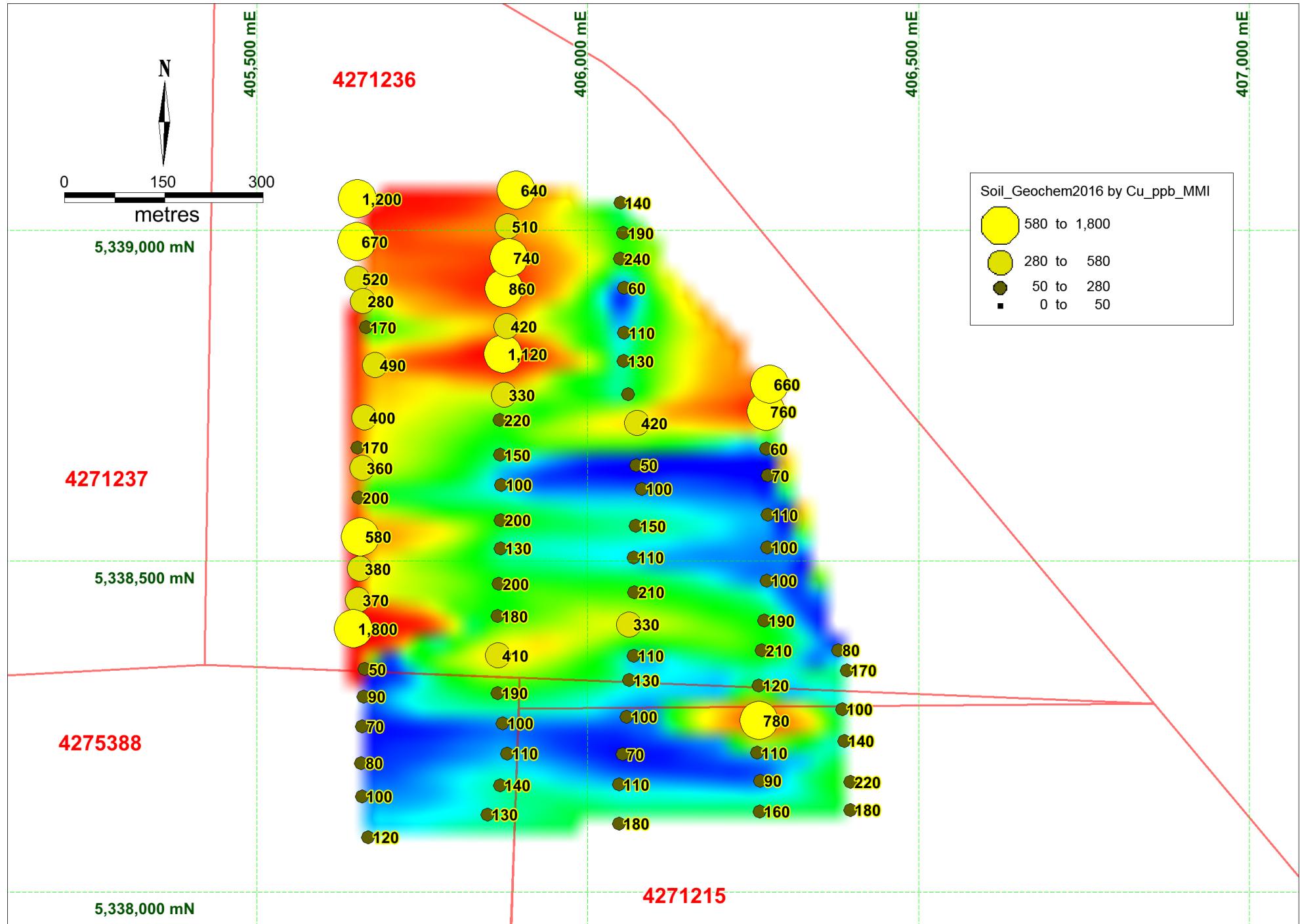
Appendix III - Soil Sampling Results - Au ppb by INAA



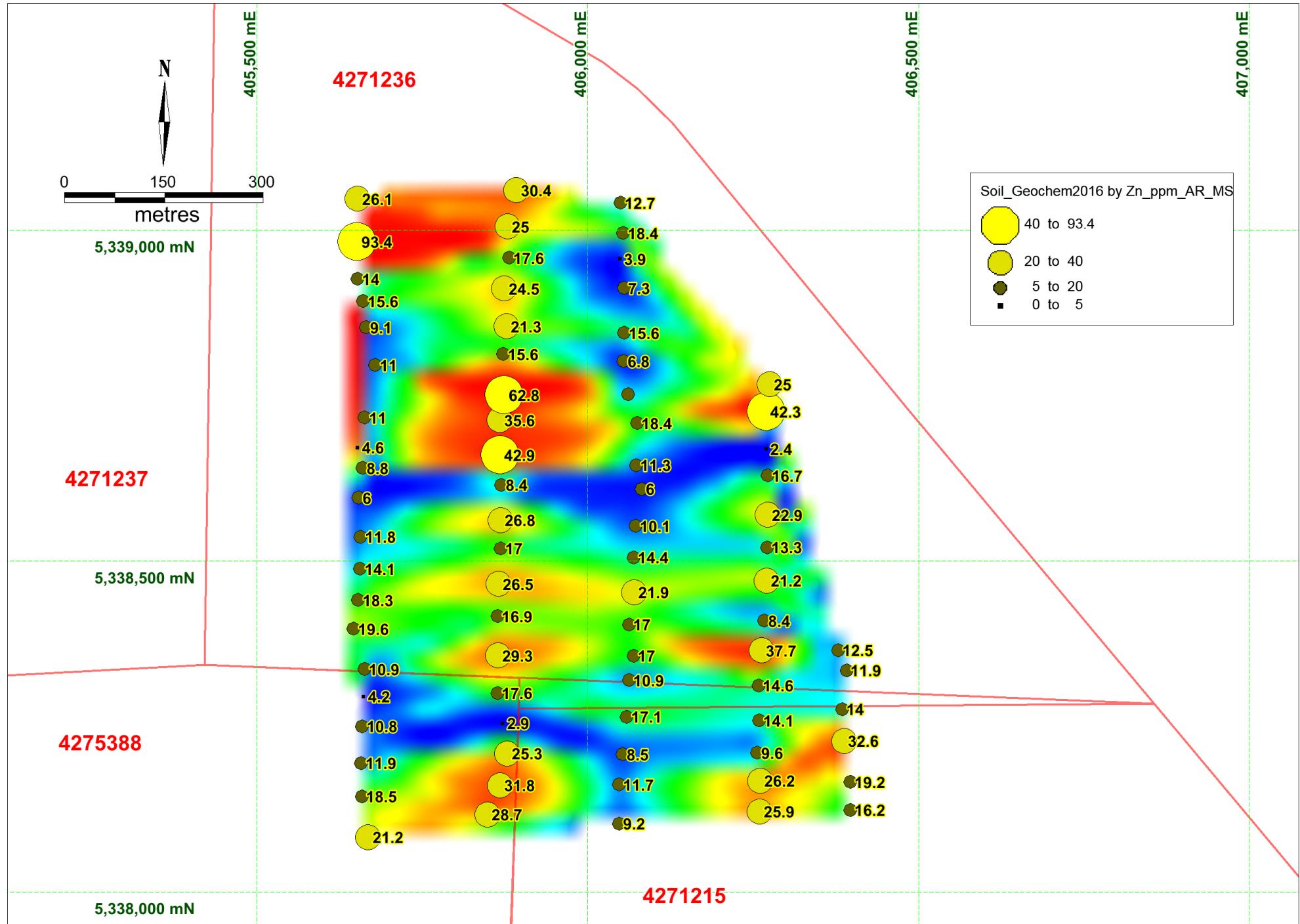
Appendix III - Soil Sampling Results - Au ppb by MMI



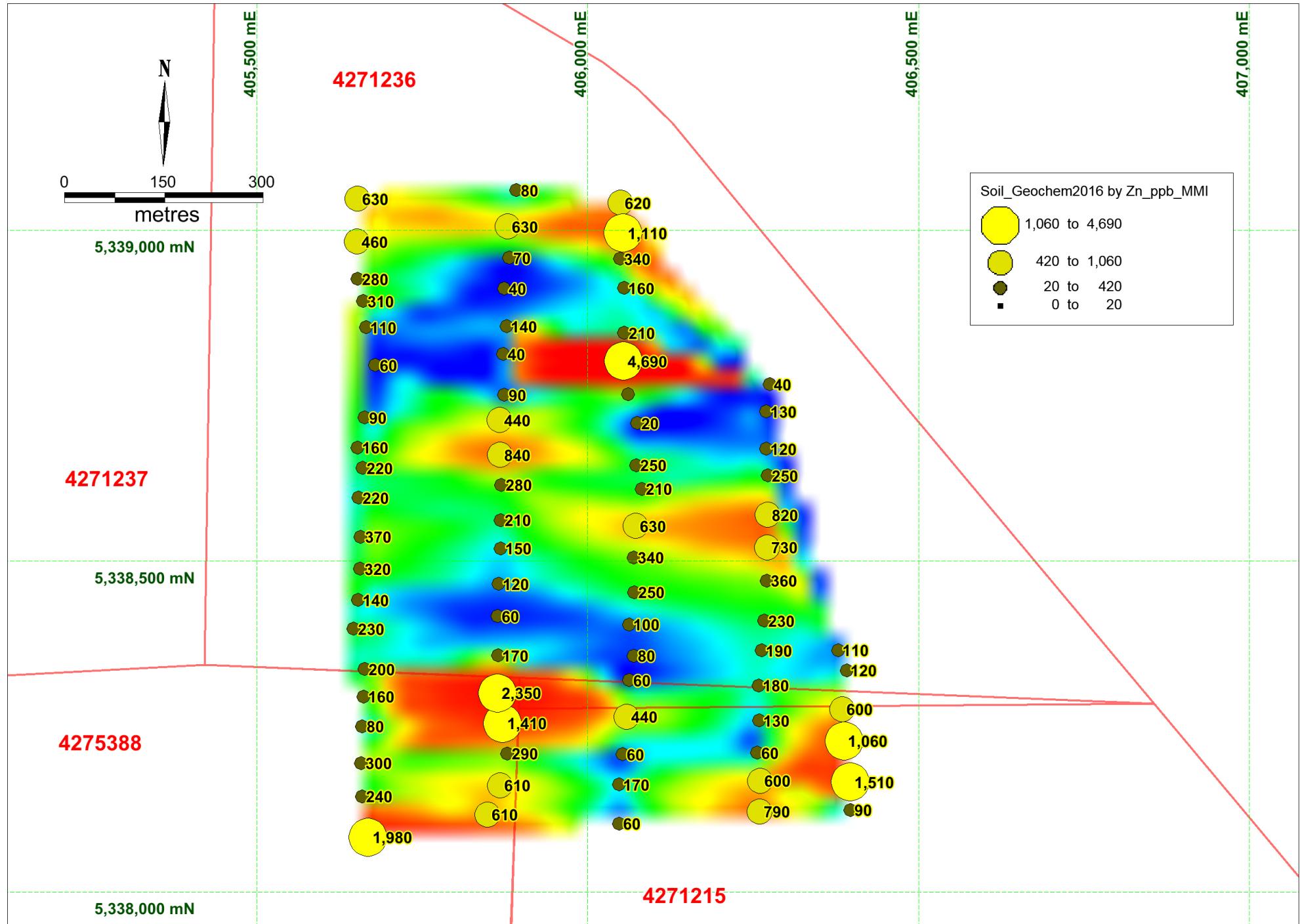
Appendix III - Soil Sampling Results - Cu ppm by AR-MS



Appendix III - Soil Sampling Results - Cu ppb by MMI



Appendix III - Soil Sampling Results - Zn ppm by AR-MS



Appendix III - Soil Sampling Results - Zn ppb by MMI