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Union Glory Gold Addington Mine Property

Evaluation of Southern Extension to Addington Mine Using MMI-M Soil Geochemistry

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SUMMARY

During the period Nov. 13-17, 2017 approximately a one kilometer strike length of the Key Target Contact to the south of the Addington Mine ore zones was bracketed with a MMI-M GPS-located sample grid, with cross lines every 50 meters and line sample sites every 25 meters. The Key Target Contact is manifest by a linear water feature of narrow lakes, ponds and rivers that separates mafic volcanics to the west from arkosic and conglomeratic sediments to the east. It appears that this conspicuous topographic feature also represents a regional fault/shear zone marking a time unconformity between older mafic flows and younger (Timiscaming style) conglomerates.

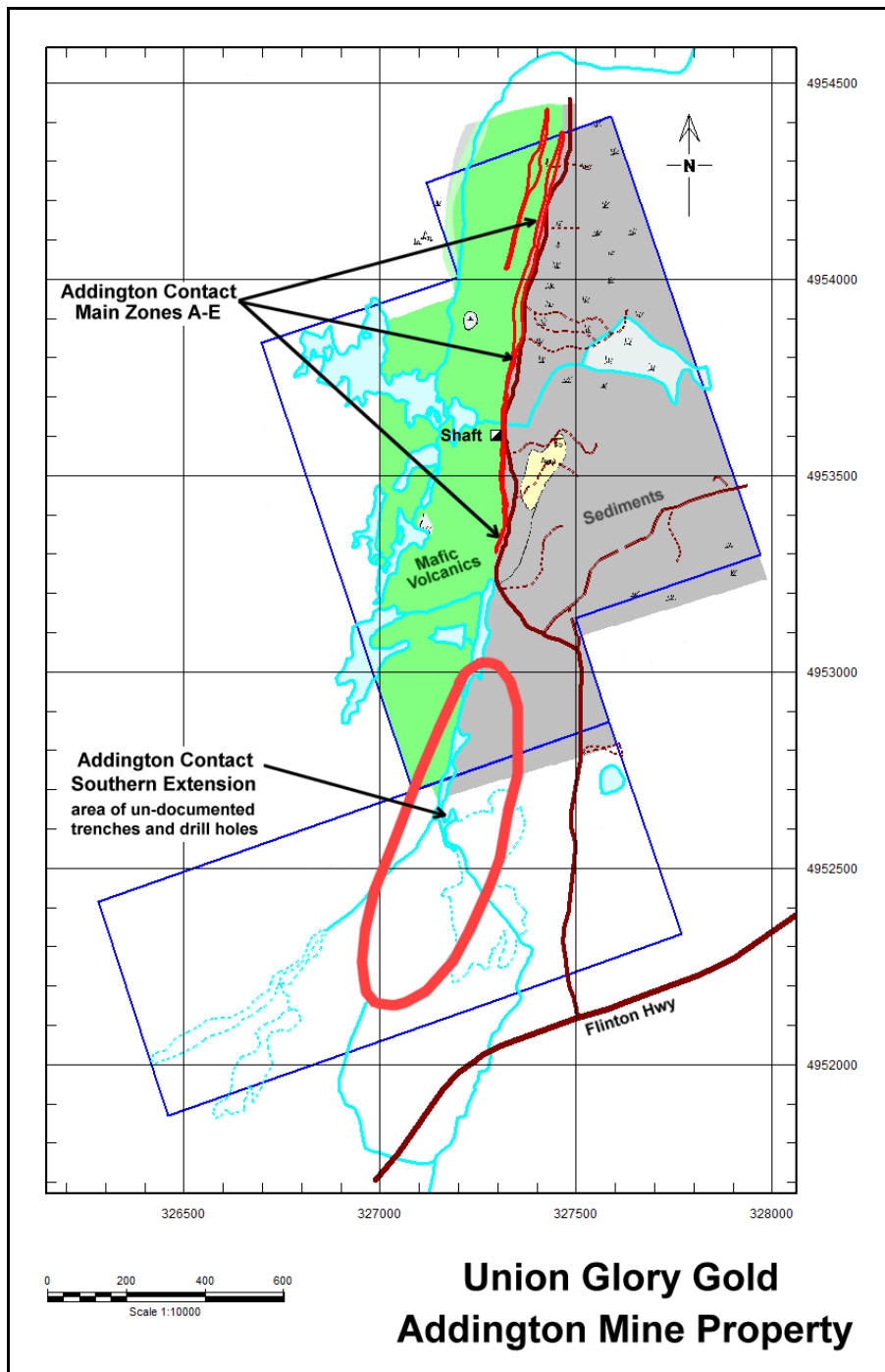


Figure 1: General Geological Interpretation of UGG's Addington Property

This soil geochemical survey is based on the Mobile Metal Ions Process Technology (MMI-M) analysis of 132 out of a possible 140 sample sites. 8 sites were in water or on outcrop. The most significant geochemical feature in the survey is the recognition of high contrast Au responses (X) along the Key Target Contact. See below.

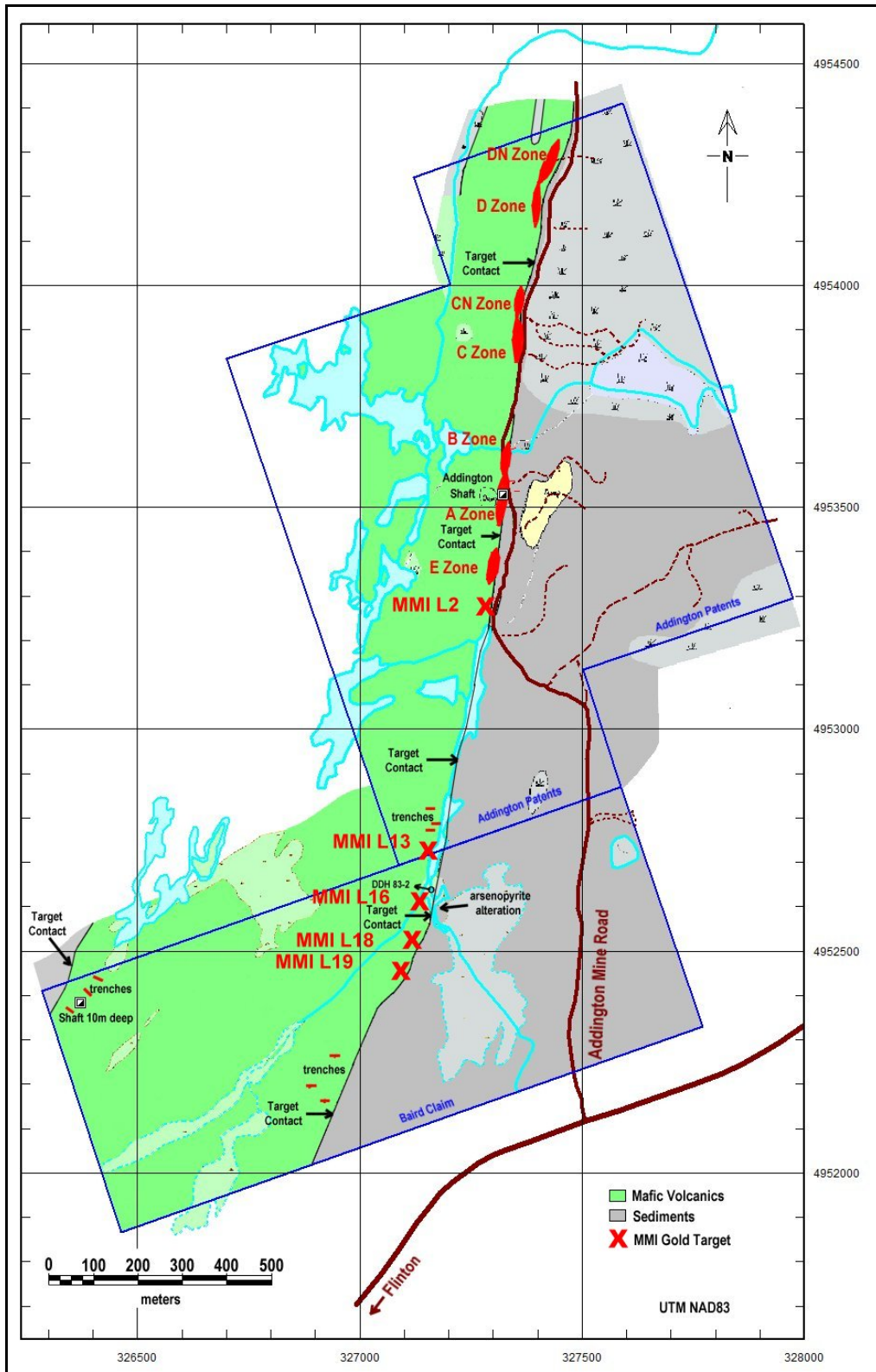


Figure 2: MMI Gold Targets Along Southern Extension

The significant MMI gold responses indicate the presence of a mineralized gold depositional environment over 1 kilometer in length along the southern extension of the Main Zone at Addington. The mineralized zone remains open to the south of the MMI grid. See large scale maps in Appendix 3.

The MMI method has demonstrated the ability to identify the critical element assemblage of Addington Mine gold mineralization in soils that overlie interpreted bedrock gold targets and as such, represents a valuable exploration tool in follow-up exploration on the Addington Mine property and surrounding areas.

The predominant sampling medium is a Podzolic sandy loam soil profile, which is an ideal sampling medium for MMI-M soil surveys on the Addington Mine Property. Sampling protocols utilized in an earlier orientation survey and case study across the Addington D-North Zone were rigorously followed during this MMI-M soil geochemistry survey.

INTRODUCTION

The exploration for economic mineral deposits in the near-surface geological environment has become increasingly difficult due to the covering of prospective bedrock by glacially transported foreign (distal) till and its exotic deposits. Thick glaciofluvial and glaciolacustrine sediments topped by organic deposits make many traditional mineral exploration techniques in these terrains challenging, and in many cases misleading.

MMI is an innovative and relatively new exploration geochemical technique that uses selective and partial digestions, coupled with state-of-the-art instrumentation capable of measuring concentrations in the parts per billion (ppb) and sub-parts per billion range. MMI can often provide the explorationist with tools to "see through" overburden and derive useful mineral exploration data for drill targeting of specific multivariate anomalies.

The proprietary SGS Mobile Metal Ions Process (MMI) soil geochemical technique has been utilized for the exploration of a wide range of commodity types including base and precious metals, rare earths and rare metals, and diamonds. The MMI analytical process is based upon proprietary partial digestion techniques, and specific combinations of ligands to keep metals in solution. The collection of MMI soil samples requires the strict adherence to sampling protocols usually established during an orientation program. Geochemical data generated from improperly collected soil samples will generate inconsistent values that cannot be correlated using either univariate or multivariate statistical and graphical presentations.

The new multi-element digest "MMI-M" has been developed to provide analyses for **55** elements at ppb and sub-ppb concentration levels for base and precious metals, pathfinder elements, rare earths and rare metals, and elements useful for mapping bedrock and alteration geology obscured by glacial overburden. The large number of elements in the MMI-M analysis provides a cost effective opportunity to assess a prospective area of interest for a wide range of potential mineral deposits.

GEOLOGICAL SETTING

The Addington Gold Mine, and nearby Ore Chimney and Ore Mountain occurrences, have historically been believed to be hosted within and adjacent to a biotite-garnet schist unit called the Ore Chimney Formation. The ore is believed to be concentrated in a mineralized shear structure localized above and below the basal Flinton unconformity, where competence differences between older mafic meta-volcanics and the quartzite and conglomerate above, resulted in shearing, dilatancy, and subsequent gold-quartz vein deposition during a major regional metamorphic event circa 1050 Ma. Metamorphic grade is upper greenschist to amphibolite facies.

Mafic volcanic rocks of the Tudor Formation are reported to be overlain unconformably by sedimentary rocks of the Flinton Group whose basal members are the Bishop Corners Formation and above it, the Lessard Formation

(Moore and Morton 1980; Thompson 1982; Moore and Thompson 1980). The basal Bishop Corners Formation consists of feldspathic quartzite and quartzite-pebble conglomerate.

The Lessard Formation comprises calcareous arkose and gritty quartz-pebble conglomerate.

Close to the historically interpreted basal Flinton unconformity is the prospective Ore Chimney Formation (Moore and Thompson 1980). This unit lies proximal to the interpreted unconformity and is a dark grey to black, well foliated, medium to fine grained hornblende-biotite-garnet schist. The mineralized silica flood quartz vein systems at the Addington, Ore Chimney and Ore Mountain properties lie conformably within and adjacent to the upper contact of this unit.

The traditional stratigraphic legend is as follows:

FORMATIONS EXPOSED AT THE ADDINGTON PROPERTY

<u>STRATIGRAPHIC UNIT</u>	<u>LITHOLOGY</u>
FLINTON GROUP	
Lessard Formation	Calcareous Quartzo-Feldspathic metasandstone and gritty sandstone conglomerate
Bishop Corners Formation	Meta-arkose, quartzite and quartzite pebble conglomerate
UNCONFORMITY	
* Ore Chimney Formation	Hornblende-biotite-garnet schist, hornblende-biotite schist
HERMON GROUP	
Tudor Formation	Hornblende-plagioclase gneiss and schist, hornblende-chlorite ± biotite amphibolite schist

The Ore Chimney Formation is a narrow unit which lies immediately below the basal Flinton sediments. It is unclear to previous workers whether this "formation" is a stratigraphic unit present prior to Flinton sedimentation, or if it developed at the Tudor-Flinton contact during post-Flinton shearing and metamorphism.

The oldest rocks of the study area are mafic volcanics (tholeiites, Wolff 1982) of the Hermon Group, Tudor Formation (Lumbers 1969), with some preserved primary flow and pillow features. These include poorly preserved relict flow vesicles of carbonate, and pillows whose selvages are only partially preserved. Top determinations are not definitive (Wolff 1982).

Discussion

Although beyond the scope of this report, the 48 recent drill intersections of the Addington Main Zone suggests that the geological sequence described above may in fact be open to re-interpretation. One possible interpretation would support moving the unconformity up the sequence to the base of the Flinton Lessard Formation conglomerates. Should this prove to be the case, then the Ore Chimney Formation could represent a tuffaceous volcanic sequence topped by a silicate facies iron formation, that in turn is overlain by the Bishops Corners arkosic greywacke sequence fining upwards into arkosic sediments. The Addington Main Zone mineralization clearly straddles the Ore Chimney/Bishops Corners Formations contact.

The historic structural and metamorphic interpretations may also be subject to re-interpretation. It has been reported by previous workers that a strong overprinting by penetrative foliation dominates the rock units on the property. This foliation fabric historically was interpreted to be the result of large scale shearing parallel to the strike of the Main Zone. This relationship did not appear to be present in much of the core. In fact, there were considerable primary soft sediment slump features throughout the Bishops Corner WKE (greywacke) sequences and considerable primary local folding and slumping in the tuffaceous upper portions of the Tudor MV (mafic volcanic).

The metamorphic grade is reported to be upper greenschist to amphibolite facies, which would suggest that large volumes of volatiles would have been released as amphibolite grade was approached. If that was the case, the primary bedding features and contact features remain largely intact and have not been overprinted, suggesting a modest plumbing system was available during this event to receive and allow the escaping volatiles to flow through the Main Zone....

ADDINGTON MINE

The Addington Mine mineralized Zones A through E are located within the Main Zone and have their longest dimension oriented down plunge. The orientation of these plunging zones is steep to the south and generally appears to be parallel to the plunge lineations of the Flinton conglomerates. The pyrrhotite, pyrite, and arsenopyrite mineralization is localized within meter-scale quartz breccia floods. For now, the author prefers to call the gold mineralizing events as being associated with conformable silica floods rather than classic quartz veins. Rare visible gold specs and flakes were observed to occur free in the silica flood gangue in a number of drill holes.

The Tudor Formation mafic volcanics and the Ore Chimney Formation tuffaceous unit appear to be more reduced than the overlying magnetite/hematite bearing clastic sediments. Sharp changes in redox properties transitioning from the Ore Chimney Formation to the overlying Bishop Corners Formation sediments may have promoted gold deposition. Perhaps, as gold-bearing fluids approached the redox front(s), oxidation could have precipitated gold in pyrite-pyrrhotite equilibrium conditions. It is beyond the scope of this budget to address mechanisms responsible for emplacing the gold mineralization, but as information is gathered a better understanding may become apparent.

STRUCTURE

Dillon (1985) describes the structural relationships between the major rock units on the Addington Property as forming a series of tightly folded synclines and anticlines. Lithologies exposed on the property exhibit a moderate to well-developed foliation trending at 350° to 020° and dipping steeply to the east at 65° to 85°. Dillon (1985) reports that top directions indicate that meta-sedimentary rocks are east-facing whereas pillow structures preserved in Tudor Formation meta-volcanic rocks north of the Property have west facing flow tops.

Minor folding within the conglomerate unit is indicated by folded quartzite pebbles. Hinge lines of minor folds trend parallel or sub-parallel to the regional foliation direction and plunge 50° to 70° south. Clasts within the conglomerate exhibit extreme flattening and elongation parallel to the plunge of the fold hinges.

Historically, mineralized quartz veins and silica flood breccias are interpreted to be hosted within a dominant shear zone trend parallel to the major foliation direction, and dipping eastwards at 65° to 80°. Shearing within Ore Chimney Formation, historically interpreted to be the ore host, has taken place parallel to the regional foliation trend. This interpretation may be open to discussion.

MINERALIZATION

The main mineralized zone at the Addington property consists of a series of quartz-tourmaline veins, or silica breccia floods, partly hosted in a sheared hornblende-biotite-garnet schist of the Ore Chimney Formation. The veins, of silica floods, are variably mineralized with pyrrhotite, pyrite, arsenopyrite, chalcopyrite and gold. The target contact and/or main shear zone is exposed intermittently for the full length of the property with gold mineralization apparently strongest in the vicinity of the main shaft and to the north.

Surface exposure of gold mineralization is present in numerous small trenches 2-10 meters wide adjacent to the western side of the old dirt mine road. Near the main shaft are a series of milky to clear quartz stringers and silica floods, with associated black tourmaline, 1 to 8 centimeters in width. Locally, the quartz veins and floods are cut by cross fractures filled with carbonate and/or chlorite. Magnetite, as streaks and thin lenses, occurs both in the veins and within intervening hornblende-biotite schist. Towards the hanging wall, muscovite can constitute up to 20% of the host rocks. The quartz veins and floods appear to parallel the regional foliation (approximately 010°) and dip steeply (65° to 80°) to the east. Sulphide mineralization is localized within the quartz vein and floods, and in minor cross fractures within the quartz. Gold mineralization, though usually not visible, occurs free in quartz/silica gangue.

Harding (1942) describes minerals identified in the zone and in the mine dump to include quartz, ankerite, calcite, tourmaline, pyrite, chalcopyrite, pyrrhotite, arsenopyrite, and scheelite. Mineralization is historically interpreted to have taken place according to a predictable sequence. Tourmaline was deposited abundantly in the early fractures. Additional fracturing and reopening of the tourmaline veins occurred and was then followed by the main period of silica flooding and quartz-vein formation, with the introduction of sulphides and gold taking place toward the end of the mineralizing period.

TARGETTING MODEL

In “GREENSTONE-HOSTED QUARTZ-CARBONATE VEIN DEPOSITS” by Benoit Dubé and Patrice Gosselin, they state the following:

“The greenstone-hosted quartz-carbonate vein deposits correspond to structurally controlled complex epigenetic deposits characterized by simple to complex networks of gold-bearing, laminated quartz-carbonate fault-fill veins. These veins are hosted by moderately to steeply dipping, compressional brittle-ductile shear zones and faults with locally associated shallow-dipping extensional veins and hydrothermal breccias. The deposits are hosted by greenschist to locally amphibolite-facies metamorphic rocks of dominantly mafic composition and formed at intermediate depth (5-10 km). The mineralization is syn-to late-deformation and typically post-peak greenschist -facies or syn-peak amphibolite-facies metamorphism. They are typically associated with iron-carbonate alteration. Gold is largely confined to the quartz-carbonate vein network but may also be present in significant amounts within iron-rich sulphidized wall-rock selvages or within silicified and arsenopyrite-rich replacement zones.

There is a general consensus that the greenstone-hosted quartz-carbonate vein deposits are related to metamorphic fluids from accretionary processes and generated by prograde metamorphism and thermal re-equilibration of subducted volcano-sedimentary terranes. The deep-seated, Au-transporting metamorphic fluid has been channelled to higher crustal levels through major crustal faults or deformation zones. Along its pathway, the fluid has dissolved various components - notably gold - from the volcano-sedimentary packages, including a potential gold-rich precursor. The fluid then precipitated as vein material or wall-rock replacement in second and third order structures at higher crustal levels through fluid-pressure cycling processes and temperature, pH and other physio-chemical variations.

The main gangue minerals in greenstone-hosted quartz-carbonate vein deposits are quartz and carbonate (calcite, dolomite, ankerite, and siderite), with variable amounts of white micas, chlorite, tourmaline, and

sometimes scheelite. The sulphide minerals typically constitute less than 5 to 10% of the volume of the orebodies. The main ore minerals are native gold with, in decreasing amounts, pyrite, pyrrhotite, and chalcopyrite and occur without any significant vertical mineral zoning. Arsenopyrite commonly represents the main sulphide in amphibolite-facies rocks (e.g. Con and Giant) and in deposits hosted by clastic sediments.

The vertical extent of the orebodies is commonly greater than 1 km and reaches 2.5 km in a few cases (e.g. the Kirkland Lake deposit, Charlewood, 1964). The gold-bearing shear zones and faults associated with this deposit type are mainly compressional and they commonly display a complex geometry with anastomosing and/or conjugate arrays.

As a consequence, the geometry of the veins in settings with large competence contrasts will be strongly controlled by the orientation of the hosting bodies and less by external stress. The anisotropy of the stiff layer and its orientation may induce an internal strain different from the regional one and may strongly influence the success of predicting the geometry of the gold-bearing vein network being targeted in an exploration program (Dubé et al., 1989; Robert et al., 1994).

The metallic geochemical signature of greenstone-hosted quartz-carbonate vein orebodies is Au, Ag, As, W, B, Sb, Te, and Mo, typically with background or only slightly anomalous concentrations of base metals (Cu, Pb, and Zn). There is no vertical metal zoning.”

MMI-M SAMPLE COLLECTION AND ANALYSIS

The MMI-M sampling program was conducted between Nov. 13 and Nov. 17, 2017. Devon Geological Services Ltd. was contracted to do this program by Mr. Jimmy Sun of Union Glory Gold. The field crew comprised Garry Smith, P.Geo, and geo-technicians D. Richards and D. Smith.

MMI-M soil samples, each weighing between 250-500 grams, were collected at 25 metre intervals along a GPS located grid. Sample locations were documented according to line coordinates and hand-held GPS readings (NAD83, Zone 15) at each station. Samples were collected from a consistent depth according to MMI protocols and orientation work parameters established by the author. Samples were collected with a stiff vinyl trowel after the initial sample site was dug with an MMI sampling spade. The spade was kept clean and without paint or rust. Samples were bagged on site without preparation except for the occasional removal of rock fragments greater than 2 mm in diameter. The samples were kept secure until the end of the survey at which time they were delivered to the SGS Laboratories in Lakefield, Ont. for MMI-M analysis. SGS subsequently shipped the samples to their Vancouver MMI analyses facility.

DATA QUALITY and ANALYTICAL DUPLICATES

The samples submitted to SGS for analysis did not include field duplicates, replicates or standards, however SGS generated analytical duplicates and inserted their own standards to monitor analytical reproducibility.

Analytical reproducibility of the SGS-generated duplicate pairs is excellent over the observed range of concentration levels. Overall, the analytical data is considered to be of good quality and suitable for interpretation.

DATA TREATMENT

Analytical data was examined visually for analyses less than the lower limit of detection (LLD) for ICP-MS analyses. LLD data were replaced with a value 1/2 of the LLD for statistical calculations and graphical representation. The 25th percentile for these data was determined using the software program Interdex. The

minimum, maximum, mean, variance and standard deviation of element results were also determined using Interdex. The 25th percentile was used to generate a background noise threshold to normalize all data and generate "response ratios" which were utilized in subsequent interpretations. See Response Ratios in Appendix 4.

Response ratios can also be used to compare MMI data collected from different grids, areas and environments from year to year. This normalized approach also significantly removes analytical variability due to inconsistent dissolution or instrument instability. Analytical data as received from SGS Minerals Services along with sample site observations, calculated response ratios, and grid and UTM coordinates (Zone 15, NAD 83).

SAMPLING MEDIUM

The majority of samples taken along the key lithological contact were located in rocky, topographic highs. As such, drainage is good and the samples are generally of a podzolic sandy loam type with well-developed A and B-horizons. Overburden soil thickness appears to be relatively shallow and much of the Southern Extension's key lithological target zone is hosted by a linear water feature bounded by steep fault/shear ridges. The water table was rarely encountered during sample collection.

Podzolic soils in the Addington project area are forested soils situated mainly on sandy deposits in ecozones (or parts of ecozones) where the mean annual precipitation is above 700 mm. Coniferous-dominated plant species are the major vegetation type associated with Podzolic soils. Podzolic soils typically have B horizons that are enriched with amorphous material composed of humified organic matter, aluminum and iron. These soils generally have organic surface horizons, a light coloured eluvial horizon (which may be absent), and a reddish-brown to brownish-black B horizon with an abrupt upper boundary.

The Addington Property has areas of low, flat topography with poor drainage. There are numerous lakes, ponds and dried-out swampy areas. These soils associated with poor drainage tend to be gleysolic and high in humus content and as such, generally do not make for an ideal MMI medium. This MMI survey did not sample gleysolic soil profiles.

Gleysols in the area are soils that have undergone prolonged periods of intermittent or continuous saturation with water causing reducing conditions during their genesis. This results in characteristic colours and mottling. Water saturation leads to depletion of oxygen in the soil and causes the transformation of metals such as iron. When oxygen is present, iron is oxidized and has a reddish colour, while when oxygen becomes depleted (due to water saturation), the iron is reduced and takes on a blue-grey hue that dominates the colour of the horizon. The diagnostic criteria for Gleysolic soils is the presence of well-developed gley features within 50 cm of the soil surface.

Exploration and historic mine development activity during the 1930s at the Addington Mine property have disturbed much of the surficial soil deposits that directly overlie the Main Addington Mine Zones A, B and C, but little evidence of surficial disturbance was noted along the Southern Extension MMI survey grid.

METHOD OF INTERPRETATION

Multivariate statistical and graphical imaging techniques were utilized for the interpretation of MMI-M data in the Southern Extension MMI survey. Subsequent to the calculation and plotting of response ratios as an image matrix, the plots are examined for anomalous spikes or groups of elevated responses for single and/or coincident elements. Generally, a response ratio of or 20 times background is an initial indication of a low contrast anomalous response although this "threshold" is not universal. For the purposes of this survey a response ratio of between 10 and 30 is considered to be of moderate contrast and >30 a high contrast response.

RESULTS

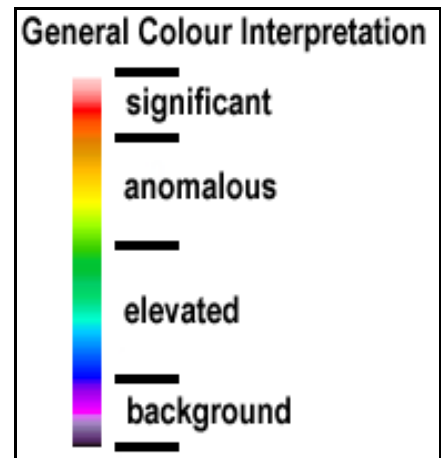
Mobile Metal Ion Element Image Correlation Matrix

The image matrix below demonstrates some fundamental inter-element relationships within the MMI-M data. Specific correlations will be demonstrated for occurrence of significant gold, gold associated alteration, and major lithological domains representing the location of the Key Target Contact hosting the known Addington gold deposits.

For the purpose of the normalized image matrix style of correlation presentation below, the following general image scale is used.

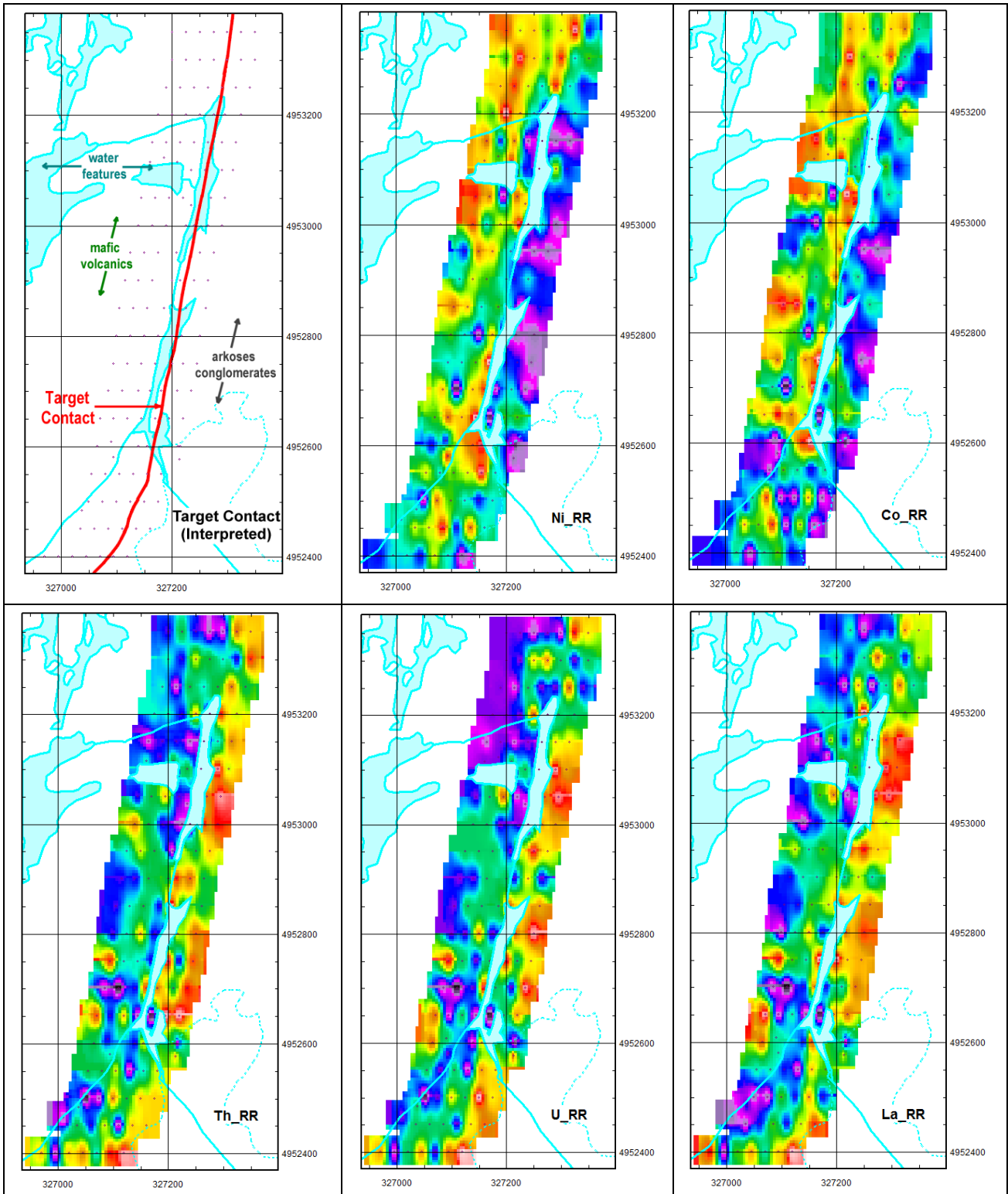
It should also be noted that geochemical data is notoriously spiky in nature, and the overall patterns and trends should be observed for litho-geochemical interpretation rather than a data result at any one specific sample site.

As noted previously, MMI results do not represent the absolute amount of an element in the soil, but rather an indication of the presence of an element in anomalous amounts.



Key Target Contact Location

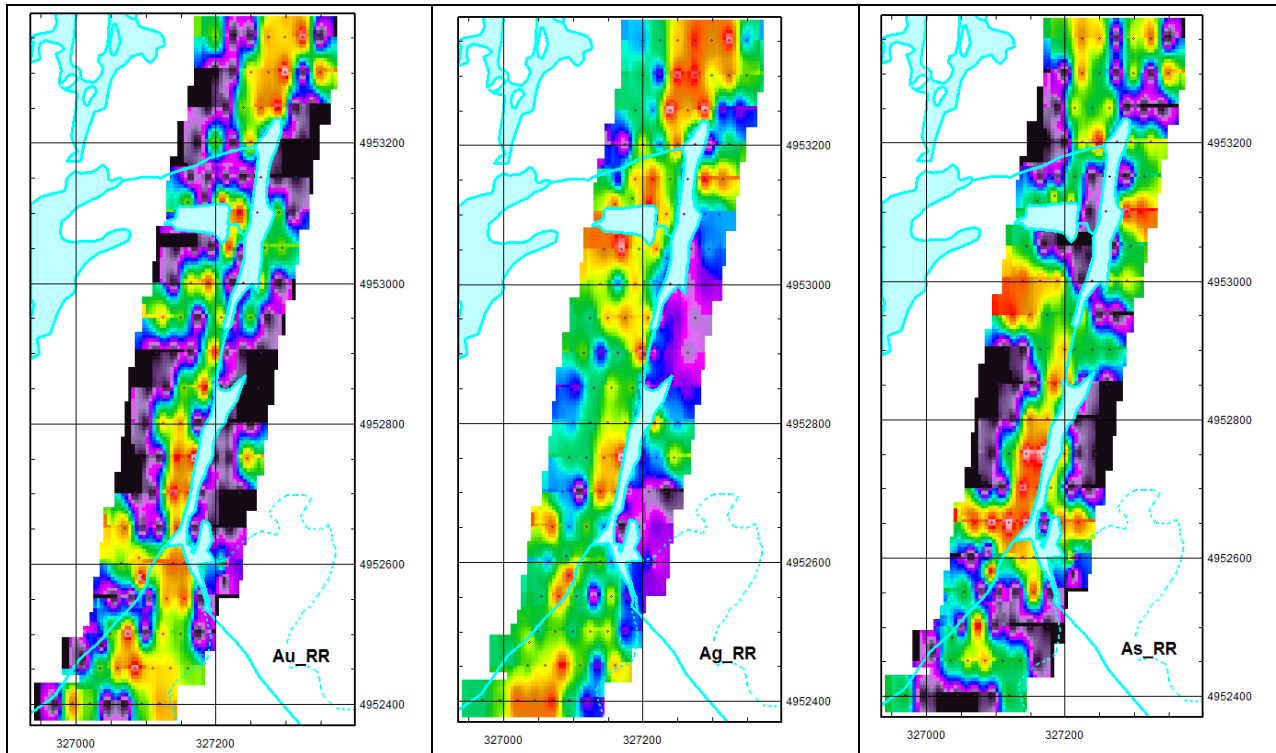
To establish the location of the Key Target Contact between the mafic volcanics (to the west) and the arkosic and conglomeratic sediments (to the east), we look for elements that are conspicuously elevated relative to the two lithologies. As can be seen in the image matrix below, Ni (nickel) and Co (cobalt) are significantly elevated for the mafic volcanics, whereas Th, (thorium) U (uranium) and La (lanthanum) are significantly elevated for the sediments. Cu (copper) is also conspicuously anomalous within the mafic volcanics covered by this survey, but this is not likely to be diagnostic throughout the property. See image matrix for all elements in Appendix 4.



The MMI results correspond well with the previously interpreted location of the Key Target Contact (Interpreted) map (above). The northern three quarters of the projected location of the Key Target Contact appears to be occupied by a long linear water feature with sharp vertical scarp features on the west side. Unfortunately, sampling located directly over the Key Target Contact was rarely possible due to the water feature. As such, it can be postulated that the potentially highest MMI readings that would have been located directly over the contact could not be sampled.

Key Target Contact Mineralization

Once the Key Target Contact is located, it is important to look for areas along this feature with significantly anomalous gold. One of the greatest indicators of gold, is gold. Therefore, the MMI gold results are understood to be the greatest indication of gold, both as a general trend and as a localized concentration of potential economic grade. Any obvious indications of high grade within a predictable trend will be recommended as a drill target. See Figure 2 above.

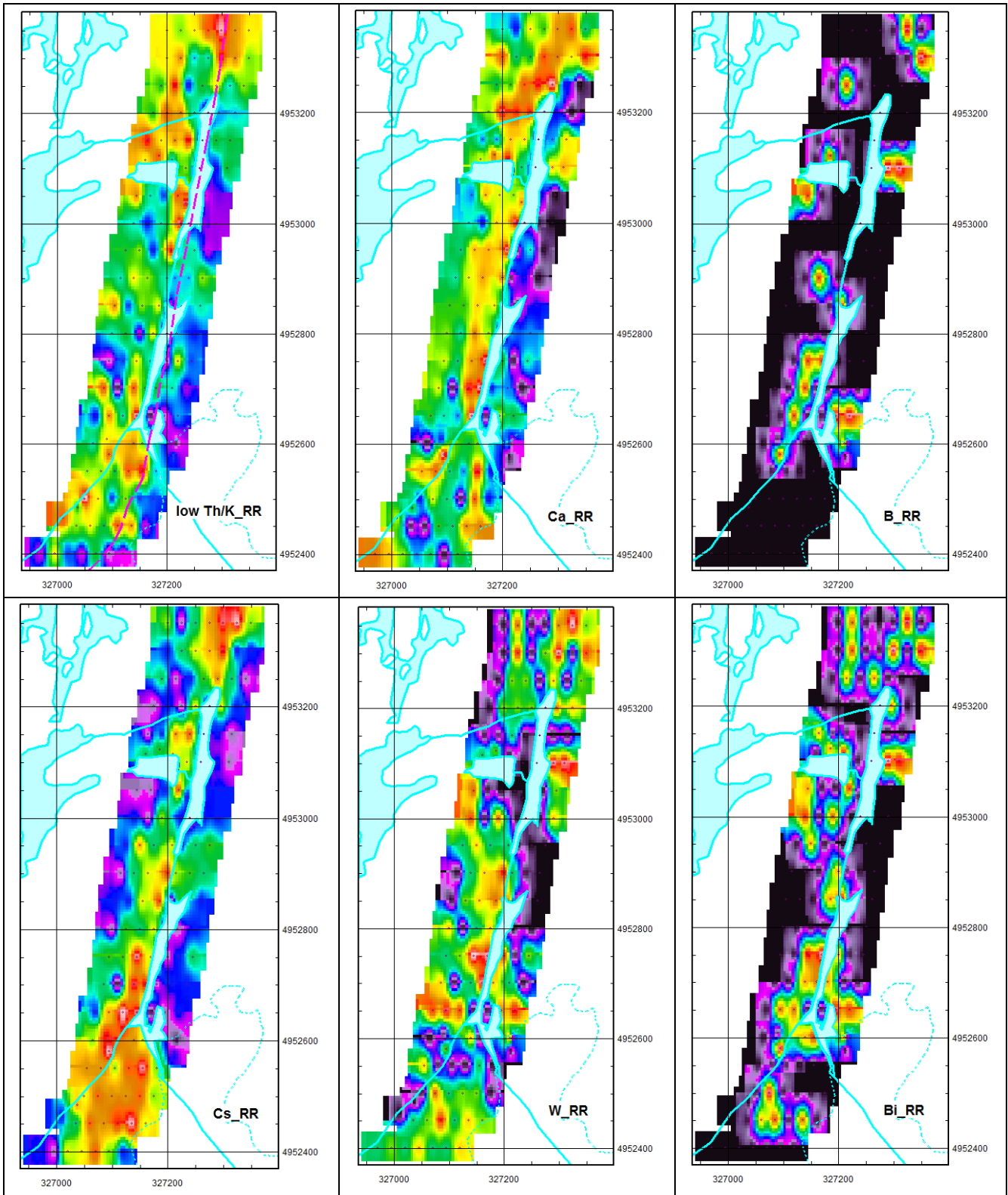


The Au (gold) and Ag (silver) images above show high values concentrated along the interpreted location of the Key Target Contact. Unfortunately, the actual location of the contact itself is generally under the water feature. However, a couple of MMI lines at the southern extent of the grid recorded the highest MMI gold result when the water feature was absent.

The As (arsenic) image represents arsenopyrite mineralization that is often associated with economic gold mineralization on surface along the main Addington Mine ore zones. Drilling at the Addington Mine demonstrated that there was very little As (arsenic) directly associated with gold grades greater than 2 grams. However, As (arsenic) was a very good indicator of the outer envelope of the mineralizing system that hosts the core of higher gold grades. The presence of As (arsenic) along the general trend of the Key Target Contact is considered to be a good indication of a mineralizing event similar to that of the Addington Mine.

Key Target Contact Alteration

The interpretation of the MMI results has identified the location of the Key Target Contact, which corresponds well with our previous prospecting evaluation. Significant gold with associated silver and arsenopyrite located in areas of significant alteration has also been discovered along the length of the Key Target Contact so far surveyed.



The low Th/K (thorium/potassium) ratio image represents potassic alteration, which is often associated with economic mineralizing events. The image above correlates well with the trend of the Key Target Contact (shown) as well as possible faults, and indicates a significant “plumbing system” for potential gold-bearing metamorphic fluids. The author is of the opinion that gold-bearing metamorphic fluids are a significant driver in the generation of potentially economic gold deposits at the Addington Mine property.

The Ca (calcium carbonate) image indicates significant carbonate alteration associated with the trend of the Key Target Contact. Carbonate is a significant component of the sample used for metallurgical testing on material greater than 2 grams gold from the Addington Mine Project.

The B (boron) image represents the likely occurrence of tourmaline. There is significant B (boron) in the Addington ore, and B (boron) is also commonly found along faults where significant metamorphic fluids have penetrated. B (boron) is likely to be associated with significant gold, and the fluid pathways responsible for economic concentration.

The Cs (cesium) image represents centers for potential gold bearing fluid concentration. This relationship was first noted during an orientation MMI soil survey at the far north of the Addington Mine Property.

W (tungsten) is reported by government workers to often be associated with economic gold concentrations in the region. The image above shows W (tungsten) in areas of suspected economic concentrations of gold.

Bi (bismuth) is often an indicator of a volcanic plumbing system pathway. High concentrations of Bi (bismuth) in the image above are interpreted to represent mineralizing fluid pathways that may indicate concentration of potentially economic gold.

Mobile Metal Ion Gold Responses

The nature of the responses from the analysis of 132 soil samples collected near the Key Target Contact demonstrate mineralized zones that are generally elevated in gold (Au) with subsidiary but significant responses for Ag (silver), As (arsenic), low Th/K ratio (potassic alteration) and Ca (calcium carbonate).

The northern-most MMI survey line L1 was intended to be located over the Addington Main Zone E. Below is the plan map of the E Zone with the locations of the MMI survey L1 and L2.

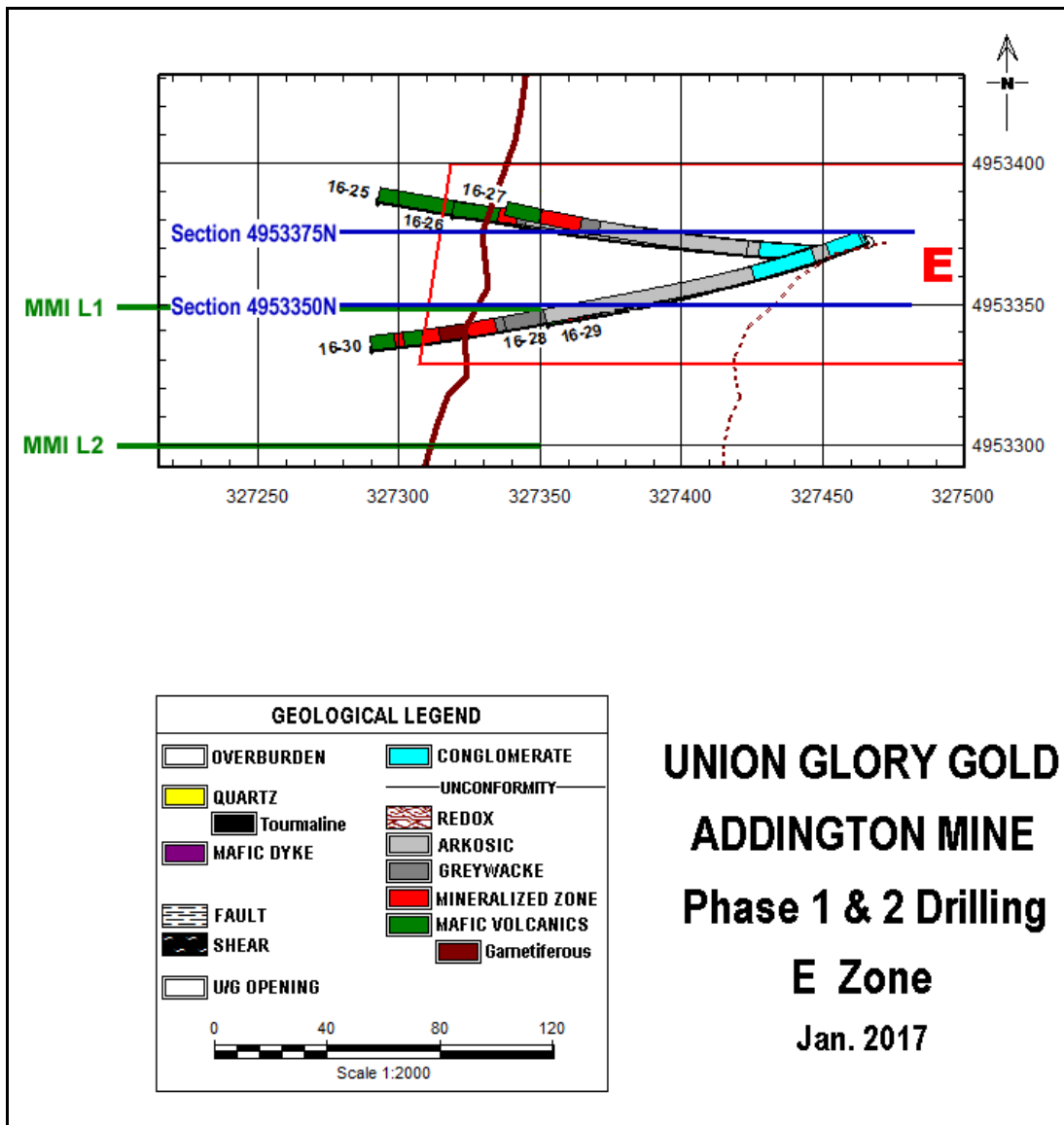


Figure 3: Correlation of MMI Gold Results to Known Drilling Assays

MMI L1 is directly over the southern most drilling on the E Zone. L2 is approximately 40 meters south of the E Zone drilling.

As can be seen from the drill section 4953350N below, the superimposed MMI L1 transect correlates extremely well with the drill intersected gold mineralization. The drilling intersected a modest zone of mineralization with narrow gold intersects in the 1 to 5 gram generally over narrow intervals. Two zones (pinkish-red on the section) were actually intersected and the MMI did in fact show this.

The MMI response ratio for the 4653350N section over the E Zone returned a value of 36 times background. Generally, values of 30 and higher are considered excellent candidates for drilling. In this case, drilling of this MMI gold anomaly would have resulted in the discovery of the Addington E Zone.

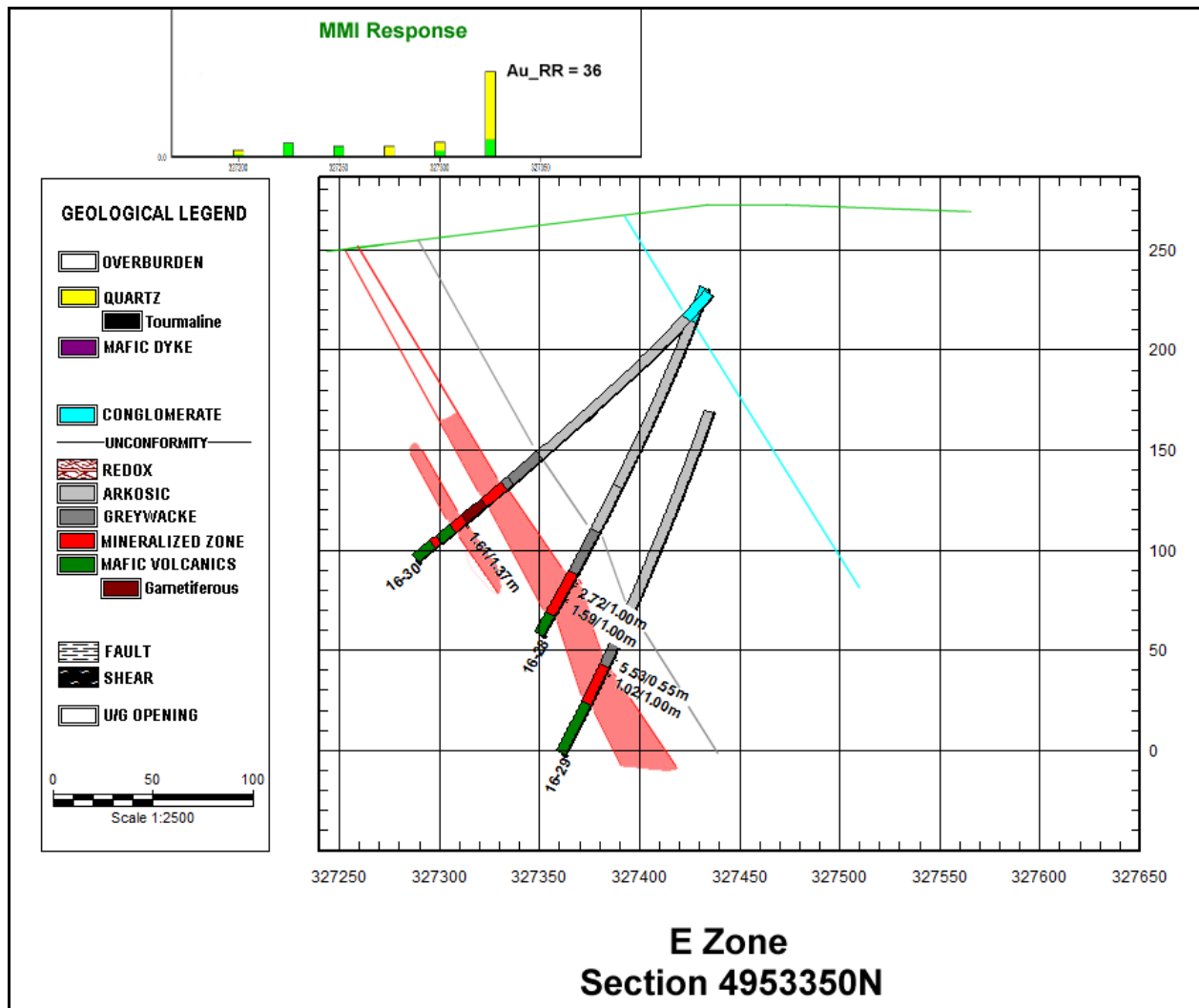


Figure 4: Correlation of L1 MMI Gold Results to Section 4953350N Assays

The MMI L2 transect at 4963300N is 50 meters south of L1, and 40 meters south of any E Zone drilling. The MMI gold response was much more significant than the gold response from L1. See below.

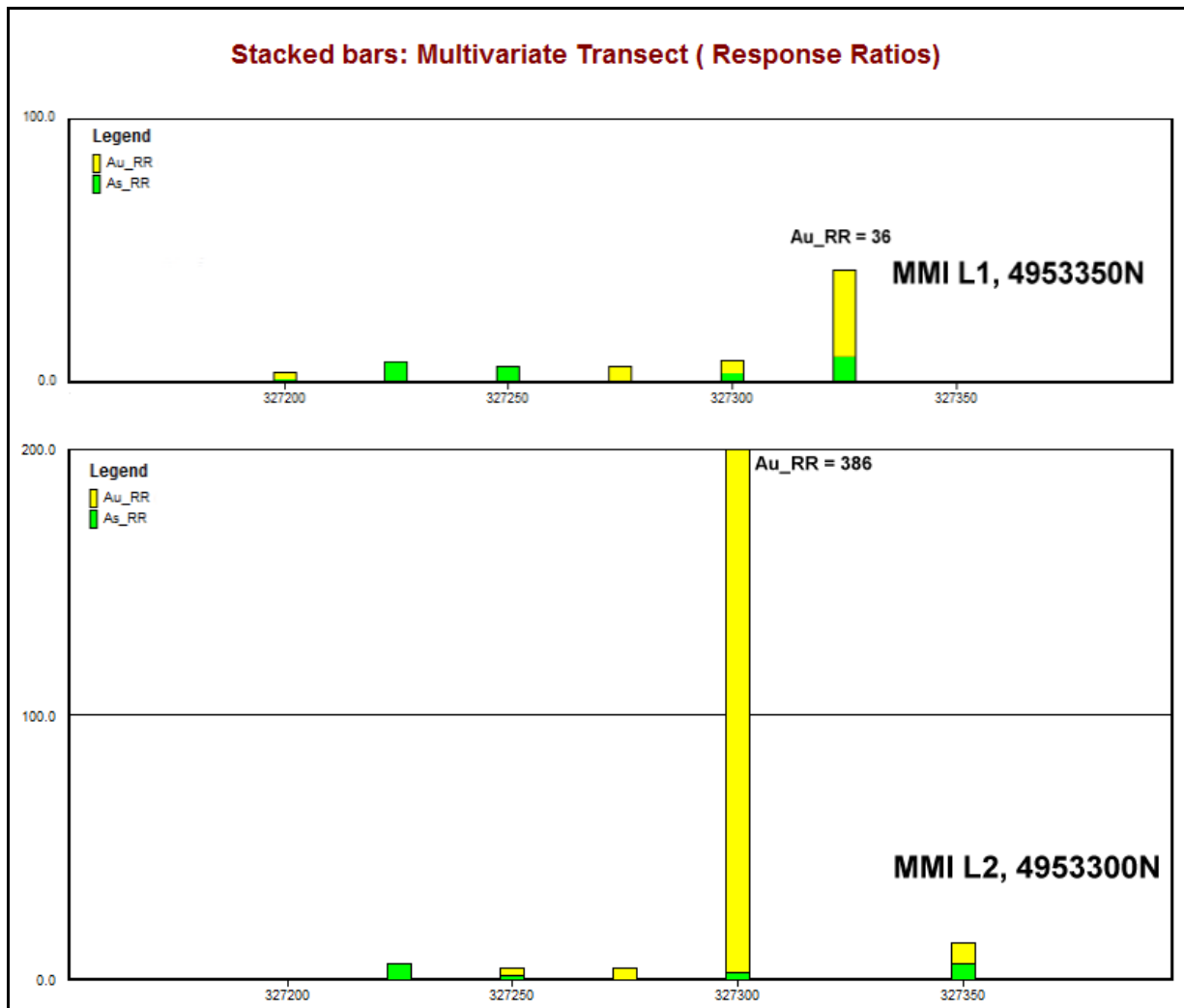


Figure 5: Gold and Arsenic Response on MMI lines L1 and L2

L2 returned a gold response ratio of 386 times background within an envelope of elevated arsenopyrite. This response suggests that the E Zone continues to the south and could in fact be much higher grade.

The Southern Extension results correlate well with the known E Zone drill results and are therefore considered to be indicative of a gold metal-iron sulphide-enriched zone of mineralization. The Key Target Contact will likely contain Au and sulphide (pyrrhotite+pyrite+arsenopyrite) mineralization in a geological setting of a quartz+carbonate+tourmaline-rich contact/ unconformity. The interpreted MMI gold anomalies indicate mineralization very similar to that of the Addington Mine Property.

The most significant gold responses come from the areas of:

- line 1, 4953350N: Au is 36 times background- corresponds to Main Zone E
- line 2, 4953300N: Au is 386 times background- southern extension to Main Zone E
- line 13, 4952750N: Au is 176 times background
- line 16, 4952600N: Au is 534 times background
- line 18, 4952500N: Au is 126 times background
- line 19, 4952450N: Au is 32 times background

CONCLUSIONS AND RECOMMENDATIONS

The MMI-M survey data revealed significant gold anomalies in single and multiple samples from the area of the Southern Extension of the Addington Mine Main Zone. Specifically, the highest gold responses are located at line 2, 40 meters south of the Main E Zone at the northern extremity of the grid, line 13 in the centre of the grid, and lines 16, 18 and 19 at the southern extremity of the grid. These results extend the potential of the Addington Mine to host additional ore by 1 kilometer. The strike potential remains open and untested for an additional 500 meters further to the south of this survey.

The variability in bedrock geology through post-depositional deformation and attendant hydrothermal fluid flow coupled with surficial environment variability can under certain circumstances, affect the magnitude of a geochemical anomaly, including MMI. However, single site anomalous responses should be treated with caution until the sample site area can be field checked and/or re-sampled. Multi-sample gold anomalies are the preferred responses for targeted follow-up, and all significant gold anomalies discovered during this survey follow a distinct multi-sample trend.

In the Southern Extension MMI survey, multi-element and multi-sample high and moderate contrast gold anomalies have defined an anomalous zone that can be traced northwards to the Main Zone E, previously drilled by UGG. This implies the depositional environment for Addington Main Zone gold mineralization, located along the Key Target Contact feature, has significant strike potential to the south and well beyond the area drilled so far by UGG.

The following conclusions are evident from the Southern Extension MMI-m survey at the Addington Mine Property:

1. The MMI orientation survey has successfully documented moderate to high-contrast MMI-M gold soil geochemical responses.
2. The anomalous elements defined by MMI-M process soil geochemistry are representative of a "typical mineralization" suite of elements identified by past exploration/assay work at Addington Mine Property. As such, these results are interpreted to be indicative of repetitions of Addington Mine Property gold mineralization away from the previously drilled Addington Mine area. This mineralization is likely to be a mineralized zone enriched in the sulphides pyrrhotite, pyrite and arsenopyrite and hosted within the Key Target Contact with carbonate, tourmaline and potassic alteration.
3. The successful recognition of elements associated with Addington Mine gold mineralization indicates that MMI-M geochemistry can be utilized for additional soil geochemical exploration on the property.
4. The use of MMI-M soil geochemistry can target high quality gold anomalies for optimized diamond drill testing and therefore reduce associated "blind" exploration expenditures.
5. The MMI-M data that define these anomalies is interpreted to be of excellent quality based on analytical reproducibility and the coherence of elements within the analytical dataset. A simple image matrix correlation has demonstrated the significant element associations. See Appendix 4.
6. The sampling protocols used on the Southern Extension MMI-M survey are based on the strict adherence to the constant depth sampling as per the orientation survey previously completed within the survey area. Samples were collected at a consistent depth below the point at which soil formation is initiated in this overburden environment and this depth represents the site of maximum contrast in MMI-M geochemical response.
7. The podzolic soil profile found on the property represents a suitable sampling medium for MMI-M surveys in this area.

The following recommendations are respectfully submitted:

1. Drill testing of the 3 significant MMI gold anomalous areas is warranted. These areas are centered at L2, L13, and L16-19. Further additional fill-in drilling may be warranted depending on these results.
2. Continued exploration on the Addington Mine Property and Southern Extension should utilize prospecting and MMI-M soil geochemical surveys. MMI-M surveys should be capable of targeting the Addington Mine gold assemblage in these soils. Parallel gold bearing zones west of the Addington Main Zone should be considered for follow-up, as well as an additional 500 meters to the south of the Southern Extension MMI Survey just completed.
3. MMI geochemistry is generally incapable of determining the depth below surface to a mineralized source region. However, the overburden is quite shallow and generally less than a few meters on most of the Addington property. Should areas of both poorly understood geology and depth of overburden be encountered, it may be advisable to determine by prospecting and geophysical means that the MMI source region is in fact of a suitable size to warrant diamond drill testing.
4. Sampling protocols established during this survey should be rigorously adhered to during any follow-up exploration work using MMI-M geochemistry.

Author's Certificate of Qualification

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I, Garry K. Smith, P.Geo do hereby certify that:

1. I am a registered Professional Geoscientist in the Province of Ontario and President of Devon Geological Services Ltd., located at 3267 Stonecrest Rd., RR2, Woodlawn, Ontario K0A 3M0, Canada
2. I graduated with an Honours B.Sc. degree in Earth Sciences from the University of Waterloo in 1977.
3. I am a registered member of the Association of Professional Geoscientists of Ontario.
4. I have worked continuously as a geologist since graduation from University in 1977.
5. I am responsible for the preparation of all sections of this Report titled "Union Glory Gold, Addington Mine Property, Evaluation of Southern Extension to Addington Mine Using MMI-M Soil Geochemistry, dated Jan. 13, 2018 (the "Report"). I was on-site and personally supervised this MMI-M survey Nov. 13-17, 2017.
6. I have read the definition of "qualified person" set out in National Instrument 43-101 ("NI 43-101") and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience in Ontario, I fulfill the requirements to be a "qualified person" for the purposes of this Report and the interpretations therein.
7. That, as of Jan 13, 2018, the date of this certificate, to the best of my knowledge, information and belief, this Report contains all scientific and technical information that is required to be disclosed to make the Report not misleading.
8. I am independent of the issuer applying all of the tests in section 1.4 of National Instrument 43-101.
9. I have read National Instrument 43-101 and Form 43-101F1, and although this Report is not a 43-101 report, it has been prepared in compliance with those, and best Practice Guidelines standards.

Dated this 13th Day of January, 2018.



Garry K. Smith, P.Geo

Appendix 1

MMI survey field notes
Map of sample locations

MMI soil sample site observations

Tag	Line	Station	N	E	C	M	Q	Comments
7001	L1	s1	4953350	327350	brn	m	g	10m W of scarp
7002	L1	s2	4953350	327325	brn	m	m	W of road, steep up-slope
7003	L1	s3	4953350	327300	brn	m	g	3/4 way up steep slope
7004	L1	s4	4953350	327275	brn	m	g	top of ridge
7005	L1	s5	4953350	327250	brn	m	m	top of ridge
7006	L1	s6	4953350	327225	brn	m	g	top of ridge, W of wet area
7007	L1	s7	4953350	327200	r-brn	m-w	g	gentle down slope to lake

7008	L2	s1	4953300	327350	gr	d-m	g	W side, base of ridge
7009	L2	s2	4953300	327325	brn	m	g	E side road
7010	L2	s3	4953300	327300	dr-brn	m	g	5m S of 20m E-W trench
7011	L2	s4	4953300	327275	brn	m-w	g	top of ridge
7012	L2	s5	4953300	327250	brn	m	g	beside top of ridge
7013	L2	s6	4953300	327225	brn	m	g	top of ridge
7014	L2	s7	4953300	327200	brn	m	g	W side, base of ridge

7021	L3	s1	4953250	327340	brn	d-m	g	top of ridge
7020	L3	s2	4953250	327315	brn	m	g	E side of road
7019	L3	s3	4953250	327290	l-brn	m	g	10m N of road, trench 3m to N
7018	L3	s4	4953250	327265	dr-brn	m	g	moderate slope
7017	L3	s5	4953250	327240	r-brn	m	g	moderate slope
7016	L3	s6	4953250	327215	brn	m	g	top of ridge
7015	L3	s7	4953250	327190	brn	m	g	top of ridge

7132	L4	s1	4953200	327325	brn	m	g	E of main road, S of drill road
7131	L4	s2	4953200	327295	gr-brn	m	m	S of road, E side of water
ns	L4	s3	4953200	327275				water
7022	L4	s4	4953200	327250	brn	m	g	W edge of water
7023	L4	s5	4953200	327225	brn	m	g	
7024	L4	s6	4953200	327200	dr-brn	m	g	moderate slope
7025	L4	s7	4953200	327175	brn	m	g	top of ridge

7129	L5	s1	4953150	327315	brn	m	g	flat
7130	L5	s2	4953150	327290	gm-y	m	g	E of river, flat
ns	L5	s3	4953150	327265				water
7029	L5	s4	4953150	327240	brn	d-m	m	top of vertical fault ridge
7028	L5	s5	4953150	327215	brn	d-m	p-m	top of ridge, shaly
7027	L5	s6	4953150	327190	brn	d-m	g	top of ridge
7026	L5	s7	4953150	327165	brn	m	g	top of ridge

7128	L6	s1	4953100	327310	gr	m	p-m	moderate slope
7127	L6	s2	4953100	327290	gr	w	p-m	E side river
ns	L6	s3	4953100	327260				water
7030	L6	s4	4953100	327235	brn	d-m	g	top of vertical fault ridge
7031	L6	s5	4953115	327210	brn	m	g	N side of pond
7032	L6	s6	4953122	327185	brn	m	g	N side of pond
7033	L6	s7	4953115	327160	brn	m	g	N side of pond

7125	L7	s1	4953050	327295	brn	m	m	top of flat ridge, atv trail
7126	L7	s2	4953050	327270	brn	m	p-m	E side of river, steep ridge
7043	L7	s3	4953036	327235	blk	m	m	W side of river, garnets
7037	L7	s4	4953050	327220	brn	m	m	top of vertical fault
7036	L7	s5	4953050	327195	brn	d	m	S side of pond
7035	L7	s6	4953050	327170	brn	d	m	high ground
7034	L7	s7	4953050	327145	gr-brn	m	m	top of ridge

Tag	Line	Station	N	E	C	M	Q	Comments
7124	L8	s1	4953000	327290	brn	m	g	top of flat ridge
7123	L8	s2	4953000	327265	brn	m	g	E edge of river, N tip of arm
ns	L8	s3	4953000	327240				water
7042	L8	s4	4953000	327225	dr-brn	m	g	W edge of river, veining+oxide
7044	L8	s5	4953000	327190	brn	d-m	g	moderate slope
7045	L8	s6	4953000	327165	brn	m	g	top of ridge
7046	L8	s7	4953000	327140	gr-brn	m	g	top of ridge

7120	L9	s1	4952950	327275	brn	m	g	flat rocky ridge
7121	L9	s2	4952950	327250	brn	m	m	E of river, flat
7122	L9	s3	4952950	327225	brn	m	m	E edge of river
7041	L9	s4	4952950	327208	brn	m	m	W edge of river
7049	L9	s5	4952950	327175	brn	m	m	moderate slope
7048	L9	s6	4952950	327150	brn	m	p-m	top of ridge, shaly
7047	L9	s7	4952950	327125	brn	m	m	top of ridge

7119	L10	s1	4952900	327265	brn	m	g	flat top, rocky area
7118	L10	s2	4952900	327240	brn	m	g	flat ridge
7117	L10	s3	4952900	327215	gr-brn	m	g	E edge of river
7040	L10	s4	4952900	327200	dr-brn	m	g	W side of river
7050	L10	s5	4952900	327165	brn	m	m	moderate slope, shaly
7051	L10	s6	4952900	327140	brn	m	g	moderate slope, shaly
7052	L10	s7	4952900	327115	brn	m	g	top of ridge

7114	L11	s1	4952850	327261	brn	m	g	E of pond
7115	L11	s2	4952850	327226	brn	m	g	low ridge E of river
7116	L11	s3	4952850	327205	brn	m	p-m	E edge river
7039	L11	s4	4952850	327185	brn	m	g	W edge river
7055	L11	s5	4952850	327155	brn	m	g	moderate slope, quartz blocks
7054	L11	s6	4952850	327130	dr-brn	m	g	moderate slope
7053	L11	s7	4952850	327105	brn	m	g	top of ridge

7113	L12	s1	4952800	327250	brn	m	g	flat ridge
7112	L12	s2	4952800	327217	brn	m	g	E edge river, S flooded, WKE
ns	L12	s3	4952800	327200				water
7038	L12	s4	4952800	327175	brn	m	g	W edge river
7056	L12	s5	4952800	327150	brn	d-m	g	moderate slope
7057	L12	s6	4952800	327125	brn	d-m	g	top of ridge
7058	L12	s7	4952800	327100	dr-brn	m	g	moderate slope to ridge

7109	L13	s1	4952750	327245	brn	m	g	flat
7110	L13	s2	4952750	327220	brn	d-m	g	20m E of river, flat
7111	L13	s3	4952750	327200	brn	m	g	E edge of river,
7062	L13	s4	4952750	327170	dr-brn	m	m	W edge river, below trench
7061	L13	s5	4952750	327145	brn	d-m	m	steep slope, shaly
7060	L13	s6	4952750	327120	brn	m	g	moderate slope to ridge top
7059	L13	s7	4952750	327095	brn	m	g	moderate slope to ridge top

7108	L14	s1	4952700	327235	dr-brn	m	g	flat, NW edge dry swamp
7107	L14	s2	4952700	327210	brn	m	g	flat
7106	L14	s3	4952700	327180	gr-brn	m	g	E edge river
7063	L14	s4	4952700	327160	brn-blk	m	p-m	W edge river, shaly
7064	L14	s5	4952700	327140	brn	m	p-m	moderate slope
ns	L14	s6	4952700	327110				top of ridge, no soil
7065	L14	s7	4952700	327085	brn	m	p-m	top of ridge, shaly

Tag	Line	Station	N	E	C	M	Q	Comments
7104	L15	s1	4952650	327220	dr-brn	n	g	flat
7105	L15	s2	4952650	327195	gr	d-m	p-m	E edge of river
ns	L15	s3	4952650	327170				water
7069	L15	s4	4952650	327145	gr-brn	m	m	W edge of river
7068	L15	s5	4952650	327120	brn	m	m	top of high fault ridge
7067	L15	s6	4952650	327095	brn	m	m	top of ridge, shaly
7066	L15	s7	4952650	327070	brn	m	g	moderate slope

ns	L16	s1	4952600	327215				dry swamp
7076	L16	s2	4952600	327211	gr-brn	m	m	E edge Island, WKE
7070	L16	s3	4952600	327155	brn	m	g	W edge water, E of river
7071	L16	s4	4952600	327140	brn	m	m-g	shaly
7072	L16	s5	4952580	327094	gr-brn	m	g	in Y fault valley NS
7073	L16	s6	4952608	327090	brn	m	m	top of ridge
7074	L16	s7	4952600	327065	brn	m	m	top of ridge, flat, shaly

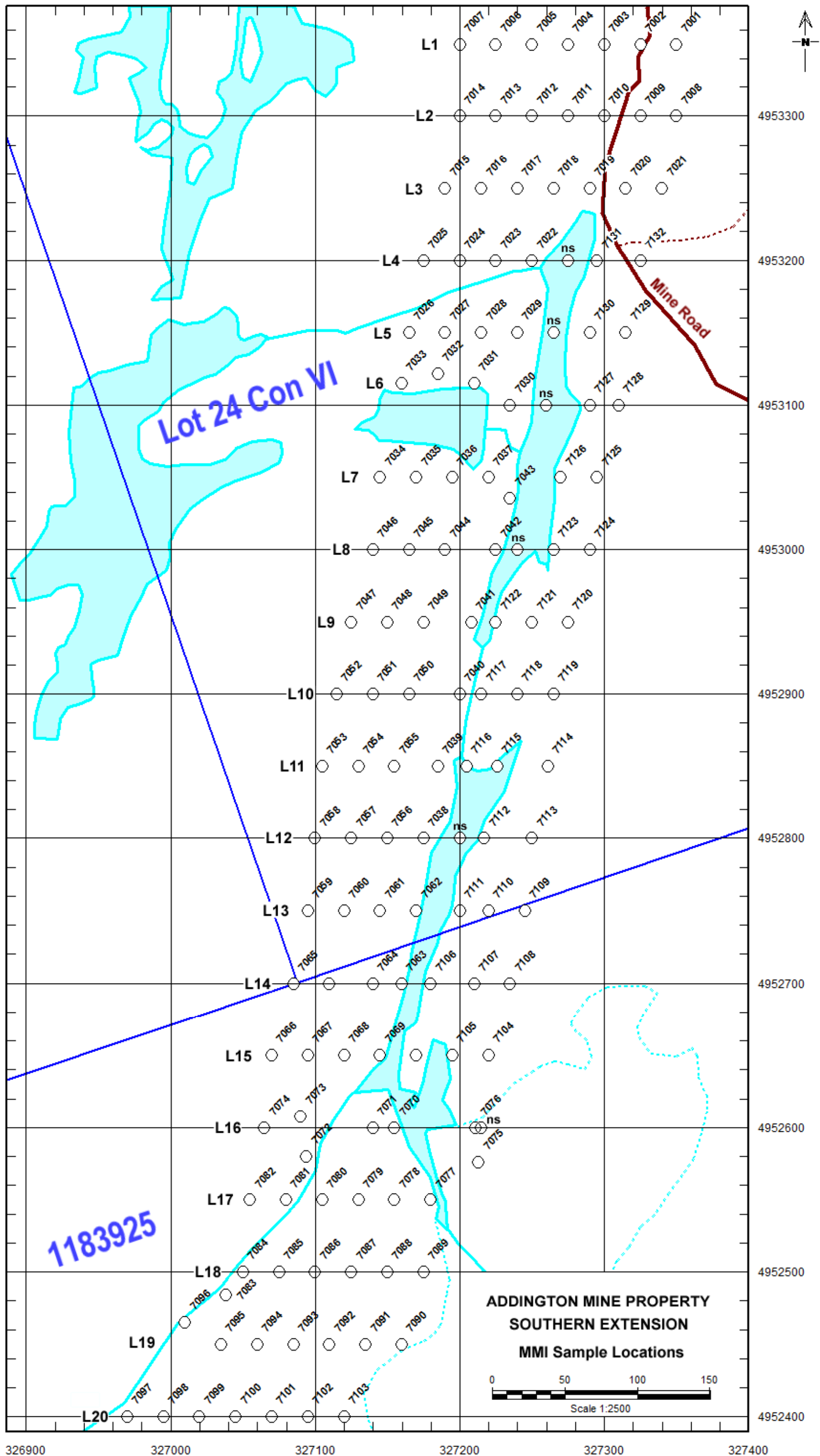
7075	L17	s1	4952576	327213	brn	m	g	Island, WKE
7077	L17	s2	4952550	327180	brn	m	g	W edge of river Y
7078	L17	s3	4952550	327155	brn	m	p-m	steep slope, shaly
7079	L17	s4	4952550	327130	brn	m	m-g	top of ridge, between Y, shaly
7080	L17	s5	4952550	327105	brn	m	g	top of ridge, slope to W side Y
7081	L17	s6	4952550	327080	brn	m	g	N side of Y river, mod. slope
7082	L17	s7	4952550	327055	brn	m	g	N side of Y river, mod. slope

7089	L18	s1	4952500	327175	brn	m	g	low flat
7088	L18	s2	4952500	327150	dr-brn	m-w	g	low flat
7087	L18	s3	4952500	327125	brn	m	g	top of ridge
7086	L18	s4	4952500	327100	brn	d-m	g	top of ridge, flat
7085	L18	s5	4952500	327075	dr-brn	m	m-g	top of ridge, S side of Y river
7084	L18	s6	4952500	327050	dr-brn	m	g	mod. slope to Y river
7083	L18	s7	4952484	327038	brn	m	g	S side of Y river

7090	L19	s1	4952450	327160	gr-brn	m	g	E edge bush
7091	L19	s2	4952450	327135	brn	m	g	moderate slope
7092	L19	s3	4952450	327110	brn	m	g	moderate slope
7093	L19	s4	4952450	327085	brn	d-m	g	high flat area
7094	L19	s5	4952450	327060	brn	m	m	high flat area
7095	L19	s6	4952450	327035	dr-brn	m	g	high flat area
7096	L19	s7	4952465	327010	brn	m	g	S edge Y river

7103	L20	s1	4952400	327120	brn	m	g	flat, 30m W of dry swamp
7102	L20	s2	4952400	327095	brn	m	g	flat, slopes E
7101	L20	s3	4952400	327070	brn	d-m	m	flat, slopes E
7100	L20	s4	4952400	327045	brn	m	g	high flat area
7099	L20	s5	4952400	327020	brn	m	g	flat
7098	L20	s6	4952400	326995	brn	d-m	m-g	flat, shaly
7097	L20	s7	4952400	326970	y-brn	m	g	flat, S edge of Y river

C = Colour M = Moisture Q = Quality
 gr gray d dry p poor
 brn brown m moist m moderate
 y yellow w wet g good
 blk black
 r red Soil Type: All samples are Podzolic
 l- light
 dr- dark



Appendix 2

MMI data statistics
MMI response ratios RR

Southern Extension MMI Data Statistics

Field	Values	Min	Max	Mean	Variance	STD	25th
Ag	140	0	32.9	5.6	28.9	5.4	1.04
Al	140	0	286	182.9	4148.9	64.4	91.08
As	140	0	3720	56.3	102089.0	319.5	4.35
Au	140	0	26.7	0.6	8.4	2.9	0.05
B	140	0	40	5.9	19.5	4.4	4.64
Ba	140	0	2660	320.9	120291.9	346.8	77.63
Bi	140	0	9.9	0.7	2.1	1.4	0.25
Ca	140	0	445	34.4	3376.9	58.1	1.23
Cd	140	0	143	27.6	481.6	21.9	8.71
Ce	140	0	1310	174.6	39901.9	199.8	31.89
Co	140	0	869	83.8	11522.7	107.3	15.95
Cr	140	0	200	55.7	974.3	31.2	50.00
Cs	140	0	454	79.1	6917.9	83.2	14.74
Cu	140	0	9870	777.5	1576201.6	1255.5	103.17
Dy	140	0	301	35.7	1477.2	38.4	9.98
Er	140	0	179	20.9	504.2	22.5	6.02
Eu	140	0	74	7.7	109.0	10.4	1.71
Fe	140	0	314	52.9	2424.3	49.2	14.41
Ga	140	0	127	16.0	289.4	17.0	4.30
Gd	140	0	356	33.9	2263.3	47.6	7.40
Hg	140	0	5	1.3	0.7	0.8	0.50
In	140	0	0.9	0.2	0.0	0.1	0.05
K	140	0	31.3	6.9	26.5	5.2	2.55
La	140	0	732	67.3	10802.9	103.9	10.78
Li	140	0	26	2.8	10.8	3.3	0.50
Mg	140	0	70.6	3.0	50.8	7.1	0.25
Mn	140	0	19700	1767.5	8777407.4	2962.7	155.41
Mo	140	0	21	2.8	7.9	2.8	1.00
Nb	140	0	65.9	4.4	59.1	7.7	0.53
Nd	140	0	1300	117.7	32029.9	179.0	20.78
Ni	140	0	1680	166.6	40981.0	202.4	31.27
P	140	0	10.1	2.3	2.8	1.7	0.64
Pb	140	0	4700	305.3	220468.9	469.5	68.78
Pd	140	nd	nd	nd	nd	nd	nd
Pr	140	0	275	24.7	1412.0	37.6	4.29
Pt	140	nd	nd	nd	nd	nd	nd
Rb	140	0	474	66.4	3918.2	62.6	19.76
Sb	140	0	5.2	0.8	0.7	0.8	0.25
Sc	140	0	381	54.1	1741.4	41.7	21.83
Sm	140	0	281	30.5	1802.0	42.5	6.68
Sn	140	0	24	1.6	8.6	2.9	0.50
Sr	140	0	760	50.7	7317.7	85.5	5.00
Ta	140	0	4	0.5	0.1	0.4	0.50
Tb	140	0	49.9	5.5	42.5	6.5	1.43
Te	140	nd	nd	nd	nd	nd	nd
Th	140	0	178	22.7	531.4	23.1	4.74
Ti	140	0	22500	1608.7	7379863.1	2716.6	227.03
Tl	140	0	7.1	0.9	0.7	0.8	0.33
U	140	0	61.3	13.2	95.4	9.8	3.97
W	140	0	56	1.4	24.5	5.0	0.25
Y	140	0	1830	179.4	50624.8	225.0	48.03
Yb	140	0	138	16.8	332.3	18.2	4.79
Zn	140	0	8500	1301.8	2351639.2	1533.5	168.86
Zn	140	0	102	22.5	227.1	15.1	7.81

Tag	N	E	Ag_RR	Al_RR	As_RR	Au_RR	B_RR	Ba_RR	Bi_RR	Ca_RR	Cd_RR	Ce_RR	Co_RR	Cr_RR	Cs_RR	Cu_RR	Dy_RR	Er_RR	Eu_RR	Fe_RR	Ga_RR	Gd_RR	Hg_RR	In_RR	K_RR	La_RR	Li_RR	Mg_RR	Mn_RR	Mo_RR	Nb_RR	
7001	4953350	327350	3	3	nd	nd	nd	3	nd	7	3	6	3	nd	5	3	4	3	4	2	2	4	6	2	6	5	4	5	6	3	7	
7002	4953350	327325	18	2	10	36	4	11	18	76	4	18	9	2	25	16	6	6	6	7	4	7	6	4	10	7	20	29	26	4	9	
7003	4953350	327300	9	2	4	4	nd	3	nd	44	2	2	6	nd	17	2	2	2	2	3	2	2	4	nd	10	2	6	14	5	nd	2	
7004	4953350	327275	13	2	nd	6	nd	2	nd	11	1	2	3	nd	8	6	2	2	2	2	2	2	nd	2	2	2	4	4	3	nd	2	
7005	4953350	327250	7	2	6	nd	nd	2	nd	20	2	1	6	nd	3	7	2	2	2	7	4	2	2	4	2	1	4	8	3	2	6	
7006	4953350	327225	4	2	8	nd	nd	4	4	2	4	2	7	2	1	5	2	3	2	6	7	2	4	6	3	3	12	5	4	4	21	
7007	4953350	327200	3	2	2	2	nd	1	nd	4	1	1	3	2	5	15	1	2	1	5	1	1	nd	4	2	2	nd	nd	5	2	nd	
7008	4953300	327350	5	2	8	10	4	10	11	94	3	4	2	2	2	3	1	1	2	7	10	2	2	6	7	5	16	35	13	5	64	
7009	4953300	327325	10	2	nd	nd	nd	6	nd	20	1	3	3	nd	2	3	2	2	2	2	1	2	nd	nd	3	2	6	5	2	2	5	
7010	4953300	327300	6	2	4	386	nd	12	38	59	6	3	10	nd	16	35	8	8	5	6	2	6	2	2	12	4	8	78	30	nd	2	
7011	4953300	327275	15	1	nd	6	nd	2	nd	76	1	6	5	nd	7	15	6	5	8	2	1	8	2	nd	2	9	4	8	65	3	2	
7012	4953300	327250	16	2	2	4	nd	2	nd	9	2	6	4	nd	6	5	2	2	3	2	2	3	4	2	2	3	4	5	17	2	3	
7013	4953300	327225	2	2	8	nd	nd	5	5	7	2	2	19	4	3	24	1	1	1	21	13	1	2	6	3	2	38	14	73	6	23	
7014	4953300	327200	4	1	nd	nd	nd	2	nd	72	1	2	3	nd	2	5	2	2	3	2	2	3	nd	nd	3	3	2	12	5	2	6	
7021	4953250	327340	2	2	nd	nd	nd	1	nd	nd	3	2	2	nd	1	2	2	2	2	4	4	2	4	6	3	3	nd	nd	2	3	12	
7020	4953250	327315	2	2	nd	nd	nd	2	nd	2	2	7	1	nd	3	5	6	6	6	1	2	6	6	2	3	8	2	nd	3	2	3	
7019	4953250	327290	20	1	nd	22	nd	22	nd	171	3	5	6	nd	9	19	2	2	3	2	1	3	nd	nd	4	3	8	31	13	nd	6	
7018	4953250	327265	8	2	4	10	nd	2	3	97	3	2	2	nd	4	3	2	2	2	2	1	2	nd	nd	2	1	nd	39	17	nd	1	
7017	4953250	327240	21	2	2	2	nd	3	nd	71	2	6	5	nd	2	12	4	3	5	3	4	5	4	nd	1	6	10	10	5	4	10	
7016	4953250	327215	3	2	4	nd	2	5	2	11	6	1	11	2	1	4	2	2	1	9	11	1	4	6	3	1	20	14	22	4	12	
7015	4953250	327190	4	2	nd	nd	nd	1	nd	9	4	2	3	nd	3	9	2	2	2	1	2	2	4	2	2	2	nd	4	7	2	2	
7132	4953200	327325	4	3	4	nd	nd	4	nd	nd	3	4	6	nd	2	2	3	2	3	3	3	3	6	4	2	4	4	2	nd	3	9	
7131	4953200	327295	1	3	4	nd	nd	4	3	2	2	5	3	nd	6	1	2	2	2	7	6	2	nd	6	4	5	6	4	nd	3	17	
ns	4953200	327275																														
7022	4953200	327250	11	1	26	6	nd	3	nd	92	1	40	7	nd	6	33	14	12	29	3	2	28	4	nd	3	62	6	9	5	3	5	
7023	4953200	327225	3	2	4	nd	nd	4	nd	77	7	4	9	nd	1	6	2	3	2	3	3	2	nd	2	3	2	6	32	10	nd	8	
7024	4953200	327200	6	2	nd	2	nd	6	nd	111	9	3	9	nd	2	7	3	3	3	4	4	3	2	nd	5	3	16	46	34	3	10	
7025	4953200	327175	1	2	nd	nd	nd	4	nd	14	2	3	5	nd	1	3	2	2	2	2	2	2	2	2	2	3	6	5	3	nd	5	
7129	4953150	327315	10	2	2	nd	nd	20	nd	21	1	10	3	nd	1	2	9	8	13	2	3	12	4	2	4	18	2	3	3	4	9	
7130	4953150	327290	15	1	nd	nd	nd	4	nd	3	1	14	2	nd	2	1	9	8	12	1	2	12	nd	nd	2	14	nd	nd	2	5	nd	
ns	4953150	327265																														
7029	4953150	327240	5	2	nd	nd	nd	2	nd	22	2	5	4	nd	11	14	4	5	7	3	4	6	4	2	3	5	2	3	3	4	2	
7028	4953150	327215	12	2	2	nd	nd	3	nd	26	3	2	5	2	8	8	2	2	2	6	4	2	4	4	3	2	10	6	22	4	4	
7027	4953150	327190	7	1	nd	nd	nd	1	nd	3	1	5	3	nd	2	6	5	5	6	1	2	6	4	nd	2	5	nd	nd	4	2	2	
7026	4953150	327165	2	2	nd	nd	nd	2	2	3	6	1	16	nd	1	9	2	3	1	6	4	1	nd	6	3	1	4	9	10	3	3	
7128	4953100	327310	3	1	14	nd	4	7	10	32	1	8	2	nd	1	3	2	1	3	6	7	3	nd	2	3	11	10	12	8	12	41	
7127	4953100	327290	3	2	28	2	8	15	23	24	1	15	4	4	2	6	3	3	5	22	30	6	2	8	4	21	52	30	10	20	124	
ns	4953100	327260																														
7030	4953100	327235	7	2	nd	18	nd	2	nd	6	3	4	3	nd	6	9	4	4	4	1	1	4	4	nd	3	4	nd	4	3	2	1	
7031	4953115	327210	14	2	4	16	nd	6	8	107	3	5	12	nd	6	36	3	3	5	5	2	5	4	2	2	4	8	26	23	3	5	
7032	4953122	327185	5	2	4	nd	2	5	3	62	6	1	6	nd	4	7	2	2	2	7	6	2	2	4	4	1	10	23	14	4	7	
7033	4953115	327160	9	2	2	2	nd	2	nd	16	3	3	9	nd	3	14	3	3	3	4	3	3	4	4	3	2	4	12	5	2	5	
7125	4953050	327295	3	2	2	2	nd	3	nd	nd	3	16	3	nd	2	9	7	6	10	3	4	9	4	4	3	21	nd	nd	10	3	9	
7126	4953050	327270	1	2	nd	2	nd	2	nd	2	2	16	2	nd	2	5	7	7	8	2	1	9	4	4	1	21	nd	nd	nd	nd	1	
7043	4953036	327235	3	2	nd	nd	nd	8	nd	41	4	1	17	nd	2	3	1	1	1	10	6	1	nd	6	6	1	12	73	6	nd	7	
7037	4953050	327220	8	2	nd	14	nd	3	7	14	7	1	20	nd	10	18	4	4	3	5	6	3	nd	6	4	1	8	28	24	nd	2	
7036	4953050	327195	6	2	nd	nd	nd	1	nd	17	1	15	1	nd	2	7	7	7	9	3	4	9	2	2	2	8	2	nd	2	6	8	
7035	4953050	327170	19	2	nd	nd	nd	2	nd	28	3	5	7	nd	1	7	3	3	3	2	2	3	2	2	2	4	nd	7	5	2	4	
7034	4953050	327145	10	3	2	nd	2	8	3	3	6	2	10	nd	1	4	2	2	2	7	16	2	nd	6	3	2	16	6	3	3	41	
7124	4953000	327290	2	2	4	nd	nd	3	nd	nd	3	6	2	nd	2	2	3	3	4	3	5	4	4	4	2	5	4	nd	3	4	19	
7123	4953000	327265	1	2	4	4	nd	2	nd	nd	3	6	3	nd	2	5	3	3	4	3	2	4	4	4	2	7	8	nd	3	2	6	
ns	4953000	327240																														
7042	4953000	327225	3	2	nd	nd	nd	34	nd	133	6	2	17	nd	2	4	3	3	3	4	2	4	nd	8	8	2	2	282	15	nd	nd	
7044	4953000	327190	7	3	6	12	nd	5	4	22	4	3	9	nd	5	2	2	2	2	3	5	2	2	4	1	3	6	13	6	nd	9	
7045	4953000	327165	3	3	6	4	nd	1	nd	2	4	3	1	nd	1	7	2	2	2	2	2	2	4	4	1	2	nd	nd	6	2	2	
7046	4953000	327140	6	3	12	nd	nd	6	7	4	16	2	2	nd	2	8	2	2	1	7	7	1	2	12	3	1	8	6	34	4	20	
7120	4952950	327275	1	2	nd	nd	nd	1	nd	nd	2	6	1	nd	4	2	4	4	6	1	3	6	4	2	1	6	nd	nd	3	2	4	

Tag	N	E	Ag_RR	Al_RR	As_RR	Au_RR	B_RR	Ba_RR	Bi_RR	Ca_RR	Cd_RR	Ce_RR	Co_RR	Cr_RR	Cs_RR	Cu_RR	Dy_RR	Er_RR	Eu_RR	Fe_RR	Ga_RR	Gd_RR	Hg_RR	In_RR	K_RR	La_RR	Li_RR	Mg_RR	Mn_RR	Mo_RR	Nb_RR	
7121	4952950	327250	2	1	nd	2	nd	1	nd	4	1	13	1	nd	3	7	6	5	10	2	2	11	2	2	2	17	nd	nd	3	nd	3	
7122	4952950	327225	1	2	4	nd	nd	1	nd	nd	4	10	2	nd	2	2	7	6	7	2	2	7	2	4	2	13	nd	nd	5	nd	2	
7041	4952950	327208	8	1	2	4	nd	7	nd	124	1	1	9	nd	6	7	1	1	2	4	1	2	nd	nd	3	3	4	16	33	3	2	
7049	4952950	327175	9	2	2	nd	nd	2	nd	31	2	4	4	nd	3	2	3	3	3	3	4	3	2	4	1	4	4	8	2	2	7	
7048	4952950	327150	7	3	8	2	nd	6	3	28	6	6	5	nd	7	6	2	2	3	5	4	3	4	4	4	3	8	10	43	4	7	
7047	4952950	327125	4	2	14	4	nd	2	nd	7	2	6	2	nd	2	10	3	3	5	4	4	5	4	2	2	5	2	nd	13	4	3	
7119	4952900	327265	1	2	2	nd	nd	2	nd	nd	3	2	2	nd	3	2	2	2	2	3	4	2	6	4	3	3	2	nd	5	3	9	
7118	4952900	327240	2	2	2	nd	nd	5	nd	2	3	4	3	nd	4	2	2	2	3	3	4	3	4	4	3	5	8	4	5	3	9	
7117	4952900	327215	1	3	2	nd	nd	2	nd	nd	4	2	2	nd	5	1	1	1	1	5	5	1	2	4	4	3	6	2	nd	2	11	
7040	4952900	327200	28	2	6	18	nd	6	3	59	2	8	9	nd	12	13	4	3	5	2	1	5	2	nd	2	5	4	10	10	nd	1	
7050	4952900	327165	4	2	2	nd	2	4	nd	35	9	3	3	nd	6	3	2	2	3	7	9	3	nd	6	3	3	12	9	11	5	21	
7051	4952900	327140	2	3	nd	nd	nd	3	nd	18	4	3	5	nd	3	2	2	2	2	4	6	2	4	4	2	3	4	5	1	2	12	
7052	4952900	327115	5	2	nd	nd	nd	1	nd	5	3	2	5	nd	1	4	2	2	2	1	2	2	nd	2	1	2	nd	nd	3	nd	1	
7114	4952850	327261	2	1	nd	nd	nd	1	nd	2	1	7	3	nd	2	3	5	5	6	1	2	7	2	2	2	8	nd	nd	2	nd	2	
7115	4952850	327226	2	1	nd	nd	nd	1	nd	nd	2	7	1	nd	4	2	4	5	6	1	2	6	4	2	2	6	nd	nd	2	nd	2	
7116	4952850	327205	1	2	8	nd	2	6	12	4	2	9	3	nd	1	2	2	2	3	13	9	4	2	6	3	14	12	7	nd	8	11	
7039	4952850	327185	5	2	14	20	nd	2	3	20	2	5	5	nd	12	20	4	3	5	2	2	5	nd	nd	2	5	4	4	2	nd	2	
7055	4952850	327155	6	2	nd	2	nd	2	nd	24	3	5	2	nd	6	10	3	3	4	1	1	4	2	nd	3	4	2	3	3	nd	2	
7054	4952850	327130	4	2	nd	nd	nd	3	nd	11	5	2	17	nd	2	5	2	2	2	2	1	2	4	nd	1	2	4	3	52	2	2	
7053	4952850	327105	2	2	nd	nd	nd	2	nd	11	6	2	15	nd	2	6	4	4	2	2	1	3	2	2	3	2	4	6	5	nd	2	
7113	4952800	327250	3	2	nd	nd	nd	1	nd	3	2	12	2	nd	2	1	7	6	9	2	2	8	10	nd	2	14	4	nd	3	3	3	
7112	4952800	327217	8	1	nd	nd	nd	15	nd	3	1	13	2	nd	1	2	6	5	9	2	3	8	nd	2	2	9	nd	nd	2	4	5	
ns	4952800	327200																														
7038	4952800	327175	6	2	6	nd	nd	4	nd	15	2	2	6	nd	6	2	1	1	2	5	5	1	4	2	2	2	4	6	3	2	12	
7056	4952800	327150	6	2	8	6	nd	2	nd	46	1	9	1	nd	3	6	3	3	5	2	2	5	2	nd	1	6	6	4	1	2	5	
7057	4952800	327125	4	2	nd	4	nd	2	nd	5	3	3	4	nd	4	7	2	2	2	3	1	2	2	2	2	3	nd	nd	10	nd	2	
7058	4952800	327100	3	2	nd	nd	nd	2	nd	13	1	2	5	nd	1	14	2	2	2	2	1	2	nd	nd	1	1	6	2	127	3	3	
7109	4952750	327245	6	2	nd	6	nd	3	nd	5	2	6	1	nd	3	1	3	2	4	3	6	4	4	2	3	7	4	2	11	4	15	
7110	4952750	327220	3	1	nd	nd	nd	1	nd	nd	2	5	2	nd	2	2	4	5	6	2	5	5	nd	2	2	6	2	nd	3	nd	5	
7111	4952750	327200	2	2	6	nd	nd	9	2	9	1	20	6	nd	1	2	7	5	12	4	6	12	4	6	1	27	14	3	7	7	25	
7062	4952750	327170	33	2	744	176	2	4	18	115	5	16	54	2	6	96	30	30	43	9	1	48	2	2	1	43	4	81	35	3	nd	
7061	4952750	327145	8	3	96	18	2	2	10	39	3	4	7	nd	20	17	2	2	4	5	5	3	4	nd	3	3	14	18	19	3	7	
7060	4952750	327120	4	2	2	nd	nd	2	nd	7	2	4	3	nd	4	6	3	3	3	3	1	3	2	nd	1	4	nd	nd	7	nd	2	
7059	4952750	327095	4	2	nd	nd	nd	3	nd	16	1	12	8	nd	4	16	7	6	10	4	2	11	4	nd	1	17	2	nd	37	3	6	
7108	4952700	327235	nd	2	nd	nd	nd	2	nd	nd	1	8	2	nd	2	1	5	5	5	4	1	5	nd	2	2	9	nd	nd	nd	3	2	
7107	4952700	327210	1	2	nd	nd	nd	5	nd	3	4	3	4	nd	2	1	2	2	2	3	7	2	4	4	2	3	4	2	1	2	15	
7106	4952700	327180	1	2	4	nd	nd	2	3	2	1	2	2	nd	1	1	1	1	1	9	9	1	2	6	4	2	6	4	nd	3	28	
7063	4952700	327160	9	1	12	12	nd	7	4	158	3	7	19	nd	15	25	3	3	4	8	3	4	nd	nd	6	8	10	40	126	21	7	
7064	4952700	327140	12	2	34	28	2	4	3	108	4	2	5	nd	17	14	1	1	1	4	2	1	2	2	4	2	10	19	10	3	4	
ns	4952700	327110																														
7065	4952700	327085	3	2	nd	nd	nd	4	nd	18	5	1	3	nd	3	2	2	2	2	4	4	2	nd	2	2	1	8	13	10	2	4	
7104	4952650	327220	2	3	12	nd	4	7	6	8	2	8	5	4	2	3	3	2	4	17	14	4	6	18	7	9	16	12	7	7	44	
7105	4952650	327195	1	1	10	nd	4	10	12	15	4	5	4	2	1	2	2	2	2	4	3	2	nd	6	4	7	8	10	5	4	10	
ns	4952650	327170																														
7069	4952650	327145	3	1	42	14	nd	18	nd	362	4	1	5	2	18	1	1	1	1	1	1	1	nd	nd	7	1	nd	121	27	nd	nd	
7068	4952650	327120	5	3	106	nd	2	5	4	3	9	5	9	nd	31	6	2	2	2	6	7	2	4	8	3	3	6	6	5	3	15	
7067	4952650	327095	3	3	50	nd	nd	7	4	5	5	1	13	nd	7	2	1	1	1	5	2	1	2	6	3	1	6	6	6	2	4	
7066	4952650	327070	11	2	14	8	nd	3	nd	11	1	28	6	nd	2	69	22	24	36	3	4	35	4	2	2	40	6	3	4	3	6	
ns	4952600	327215																														
7076	4952600	327211	3	3	10	2	2	9	8	5	2	3	2	2	1	2	2	2	2	12	23	2	nd	6	1	4	20	8	1	9	73	
7070	4952600	327155	3	3	4	10	nd	11	6	12	4	13	41	nd	6	21	9	9	10	7	2	11	4	6	4	12	12	12	18	2	2	
7071	4952600	327140	5	3	6	12	nd	4	2	9	3	2	11	nd	9	3	2	1	2	4	3	2	4	4	3	2	8	8	4	2	4	
7072	4952580	327094	16	1	38	534	2	6	40	183	13	3	1	nd	28	6	1	1	1	2	2	1	nd	nd	5	3	8	40	24	6	9	
7073	4952608	327090	4	2	nd	4	nd	1	nd	2	4	4	1	nd	13	7	4	3	3	1	3	3	nd	nd	2	3	nd	nd	4	3	nd	
7074	4952600	327065	3	2	nd	2	nd	2	nd	nd	3	11	2	nd	5	31	11	10	11	1	2	11	4	nd	2	11	nd	nd	4	3	2	
7075	4952576	327213	2	3	nd	nd	nd	2	nd	nd	1	4	2	nd	2	3	4	4	5	3	3	4	2	4	2	5	6	2	2	4	4	
7077	4952550	327180	2	3	nd	nd	nd	3	nd	2	2	4	3	nd	5	1	3	3	3	3	3	3	2	4	2	4	2	nd	3	nd	4	

Tag	N	E	Ag_RR	Al_RR	As_RR	Au_RR	B_RR	Ba_RR	Bi_RR	Ca_RR	Cd_RR	Ce_RR	Co_RR	Cr_RR	Cs_RR	Cu_RR	Dy_RR	Er_RR	Eu_RR	Fe_RR	Ga_RR	Gd_RR	Hg_RR	In_RR	K_RR	La_RR	Li_RR	Mg_RR	Mn_RR	Mo_RR	Nb_RR
7078	4952550	327155	6	2	12	12	nd	6	nd	111	4	5	2	2	20	6	11	13	11	3	1	13	4	nd	12	6	8	36	51	nd	1
7079	4952550	327130	1	3	nd	6	nd	4	nd	3	4	1	3	nd	11	2	2	2	2	5	3	2	2	4	2	1	6	5	7	nd	2
7080	4952550	327105	4	2	nd	nd	nd	3	nd	6	2	4	4	nd	5	1	2	3	3	2	2	2	2	2	3	2	2	3	3	2	3
7081	4952550	327080	11	2	nd	nd	nd	4	nd	67	3	4	1	nd	9	1	2	1	2	1	2	2	2	nd	3	3	4	10	8	3	3
7082	4952550	327055	4	3	2	nd	nd	7	nd	32	9	4	2	nd	9	10	2	2	2	2	2	2	4	2	3	3	2	8	10	5	5
7089	4952500	327175	2	3	nd	nd	nd	7	nd	2	4	2	1	nd	5	1	2	2	1	2	2	2	2	4	2	2	nd	nd	8	nd	5
7088	4952500	327150	6	2	nd	2	nd	5	nd	74	2	9	6	nd	11	1	6	5	7	3	4	7	2	nd	2	7	8	8	54	nd	9
7087	4952500	327125	6	3	nd	4	nd	2	nd	nd	4	2	1	nd	9	1	2	3	2	2	4	2	4	4	3	2	2	nd	8	3	5
7086	4952500	327100	4	3	nd	nd	nd	3	nd	6	4	6	1	nd	9	1	3	2	3	1	2	3	2	2	2	4	nd	3	5	3	6
7085	4952500	327075	5	2	18	126	nd	3	21	18	2	1	10	nd	10	1	1	1	1	4	2	1	nd	nd	1	1	6	8	16	nd	nd
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7083	4952484	327038	6	2	2	nd	nd	1	nd	9	3	3	2	nd	7	2	3	2	3	1	1	2	4	nd	2	2	nd	4	2	nd	2
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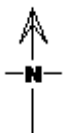
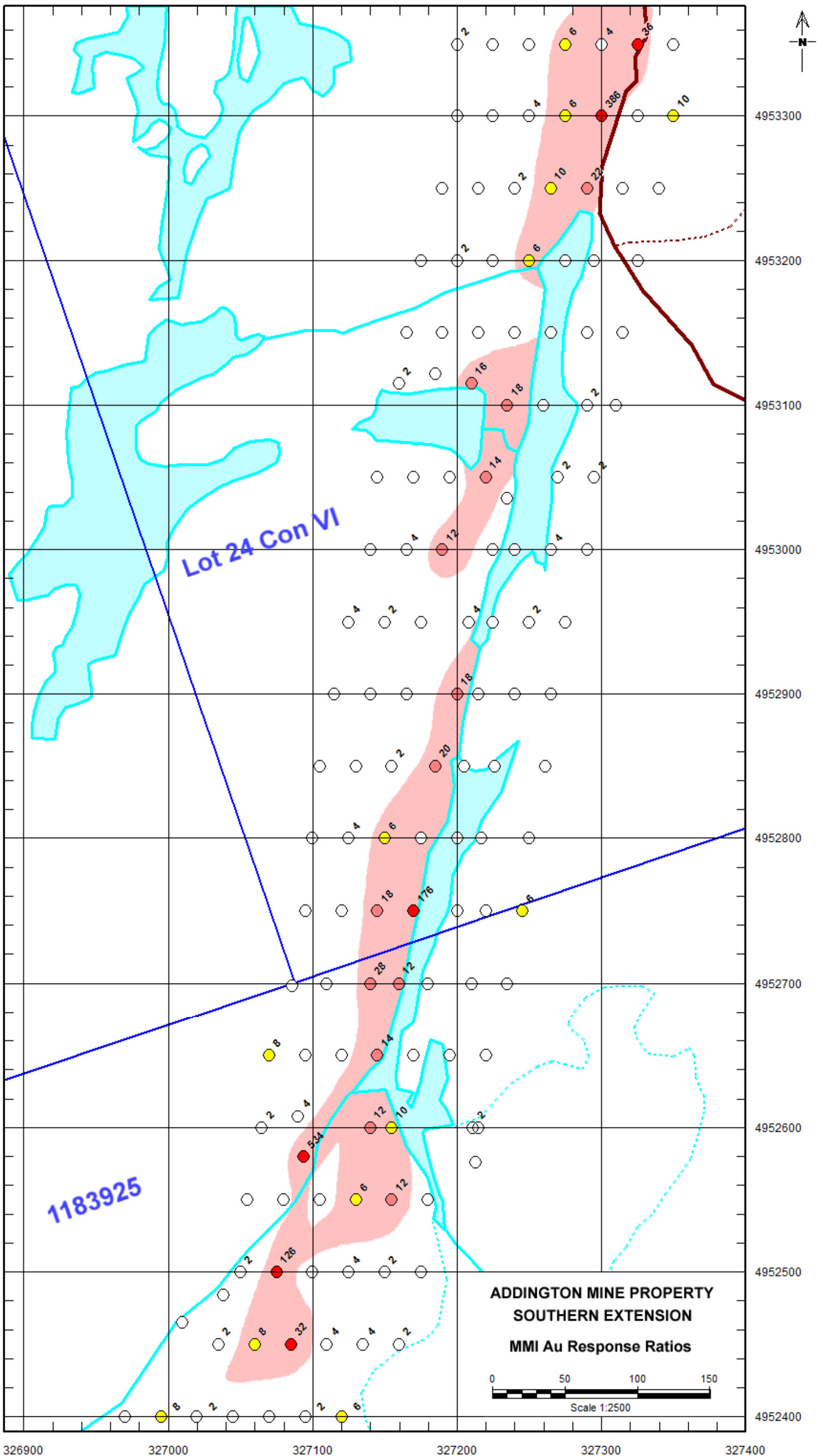
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Tag	N	E	Nd_RR	Ni_RR	P_RR	Pb_RR	Pd_RR	Pr_RR	Pt_RR	Rb_RR	Sb_RR	Sc_RR	Sm_RR	Sn_RR	Sr_RR	Ta_RR	Tb_RR	Te_RR	Th_RR	Ti_RR	Tl_RR	U_RR	W_RR	Y_RR	Yb_RR	Zn_RR	Zr_RR	
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7074	4952600	327065	13	2	4	6	nd	13	nd	2	3	4	12	nd	nd	nd	11	nd	4	2	2	6	nd	9	9	4	3	
7075	4952576	327213	4	1	3	2	nd	4	nd	2	nd	4	4	nd	nd	nd	4	nd	6	4	1	6	nd	4	4	2	3	
7077	4952550	327180	3	3	4	4	nd	4	nd	3	nd	2	3	nd	4	nd	3	nd	5	3	2	4	nd	3	3	6	3	

Tag	N	E	Nd_RR	Ni_RR	P_RR	Pb_RR	Pd_RR	Pr_RR	Pt_RR	Rb_RR	Sb_RR	Sc_RR	Sm_RR	Sn_RR	Sr_RR	Ta_RR	Tb_RR	Te_RR	Th_RR	Ti_RR	Tl_RR	U_RR	W_RR	Y_RR	Yb_RR	Zn_RR	Zr_RR
7078	4952550	327155	8	19	3	3	nd	7	nd	16	4	7	10	nd	20	nd	10	nd	3	3	9	5	2	16	15	3	2
7079	4952550	327130	2	5	9	2	nd	2	nd	3	nd	3	1	nd	4	nd	2	nd	1	3	3	1	nd	2	2	12	2
7080	4952550	327105	3	4	3	2	nd	3	nd	4	nd	1	2	nd	4	nd	2	nd	5	2	2	3	nd	3	3	5	3
7081	4952550	327080	2	3	4	2	nd	2	nd	5	4	1	2	nd	18	nd	2	nd	4	2	4	2	nd	1	1	6	2
7082	4952550	327055	3	5	6	6	nd	3	nd	4	6	2	2	2	22	nd	2	nd	4	3	3	3	4	2	2	29	2
7089	4952500	327175	2	3	4	3	nd	2	nd	2	5	1	1	nd	4	nd	2	nd	6	2	3	4	nd	2	2	35	3
7088	4952500	327150	8	2	4	1	nd	8	nd	3	2	3	7	2	12	nd	6	nd	6	7	4	12	3	5	5	4	3
7087	4952500	327125	2	3	5	5	nd	2	nd	4	2	2	2	nd	nd	nd	2	nd	4	3	4	3	3	2	3	4	3
7086	4952500	327100	4	4	5	3	nd	4	nd	2	4	1	3	nd	4	nd	3	nd	7	3	2	4	2	2	2	6	3
7085	4952500	327075	1	8	3	2	nd	1	nd	2	nd	2	1	nd	12	nd	1	nd	1	2	3	2	6	1	1	3	1
7084	4952500	327050	1	1	2	2	nd	1	nd	1	nd	1	1	nd	nd	nd	1	nd	0	1	1	0	nd	2	2	2	0
7083	4952484	327038	3	3	3	2	nd	2	nd	2	nd	1	2	nd	4	nd	2	nd	3	1	2	3	nd	2	2	3	2
7090	4952450	327160	10	3	3	2	nd	11	nd	3	nd	1	9	nd	18	nd	7	nd	6	4	5	6	3	5	3	2	2
7091	4952450	327135	4	8	4	68	nd	4	nd	7	3	2	4	4	30	nd	4	nd	6	3	5	4	4	4	4	26	2
7092	4952450	327110	2	2	7	1	nd	2	nd	3	2	5	2	nd	nd	nd	3	nd	1	6	5	2	2	3	2	2	2
7093	4952450	327085	3	15	7	7	nd	3	nd	3	5	4	3	10	6	nd	3	nd	5	22	5	3	10	3	3	8	5
7094	4952450	327060	2	5	4	5	nd	2	nd	4	4	4	2	nd	nd	nd	2	nd	2	4	4	3	3	3	4	9	3
7095	4952450	327035	1	5	7	6	nd	1	nd	3	6	3	1	nd	nd	nd	2	nd	4	4	2	3	2	2	3	6	3
7096	4952465	327010	2	3	3	4	nd	2	nd	2	3	1	1	nd	6	nd	2	nd	1	2	2	2	nd	2	2	6	1
7103	4952400	327120	63	1	4	3	nd	64	nd	2	nd	4	42	nd	2	nd	25	nd	17	6	3	15	4	20	12	1	5
7102	4952400	327095	5	3	3	3	nd	6	nd	2	nd	2	4	nd	nd	nd	5	nd	11	2	3	6	2	4	4	14	3
7101	4952400	327070	3	5	4	6	nd	3	nd	3	4	2	2	nd	6	nd	2	nd	3	3	5	2	2	3	2	5	3
7100	4952400	327045	8	2	3	2	nd	7	nd	1	nd	2	7	nd	nd	nd	6	nd	7	6	2	5	4	5	5	2	5
7099	4952400	327020	4	3	3	3	nd	4	nd	3	2	2	3	2	10	nd	3	nd	6	6	2	3	2	3	4	3	4
7098	4952400	326995	1	3	2	3	nd	1	nd	1	nd	1	1	nd	20	nd	1	nd	1	2	1	1	3	1	1	2	1
7097	4952400	326970	16	2	1	1	nd	17	nd	2	6	2	12	nd	10	nd	8	nd	6	2	2	5	2	7	6	2	3

Appendix 3

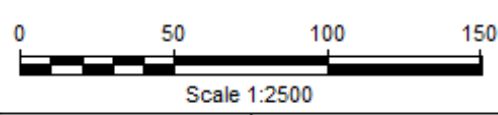
Map of MMI Au Response Ratios
Map of Geology with MMI Gold Targets



Lot 24 Con VI

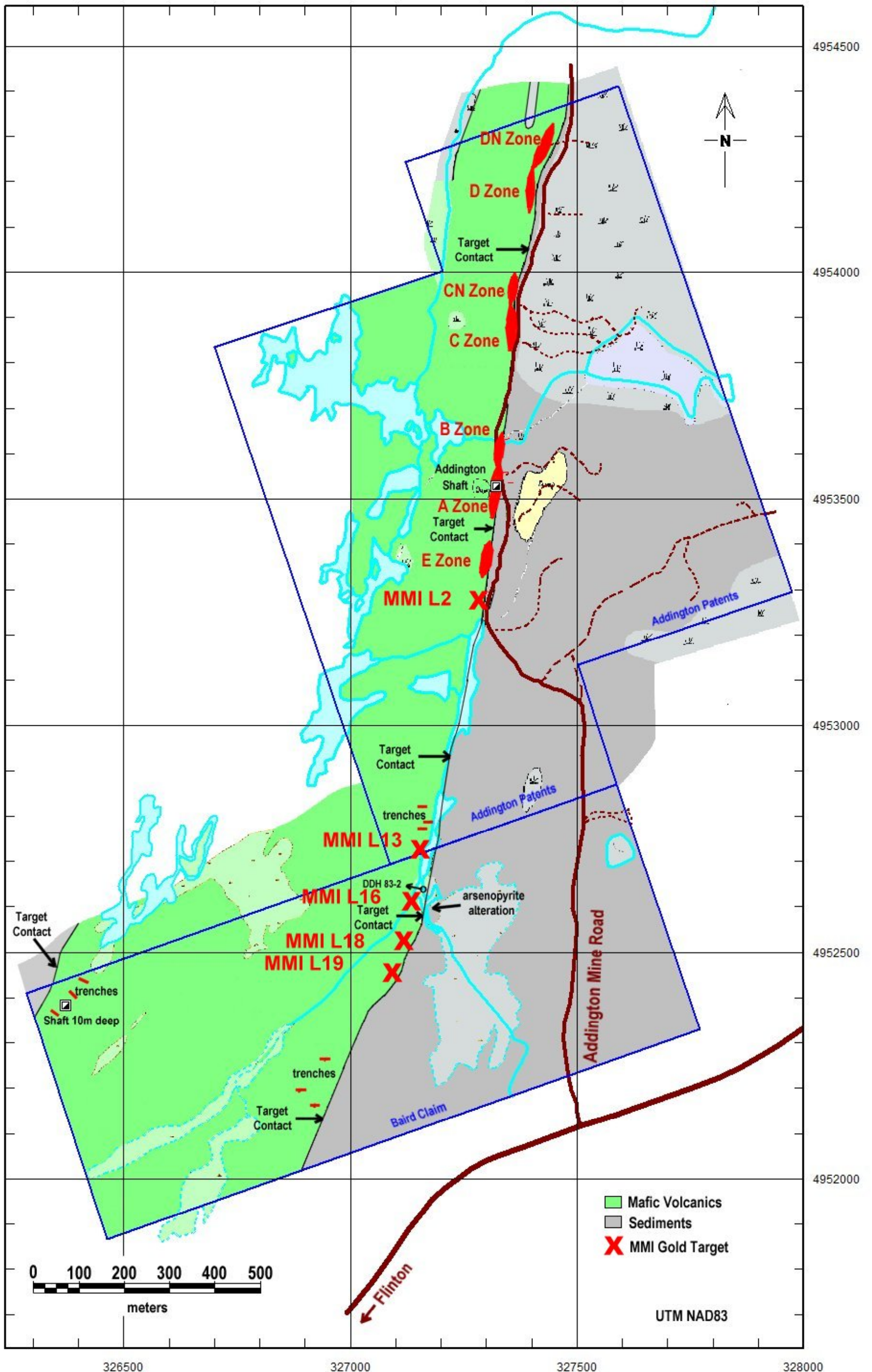
1183925

**ADDINGTON MINE PROPERTY
SOUTHERN EXTENSION
MMI Au Response Ratios**



4953300
4953200
4953100
4953000
4952900
4952800
4952700
4952600
4952500
4952400

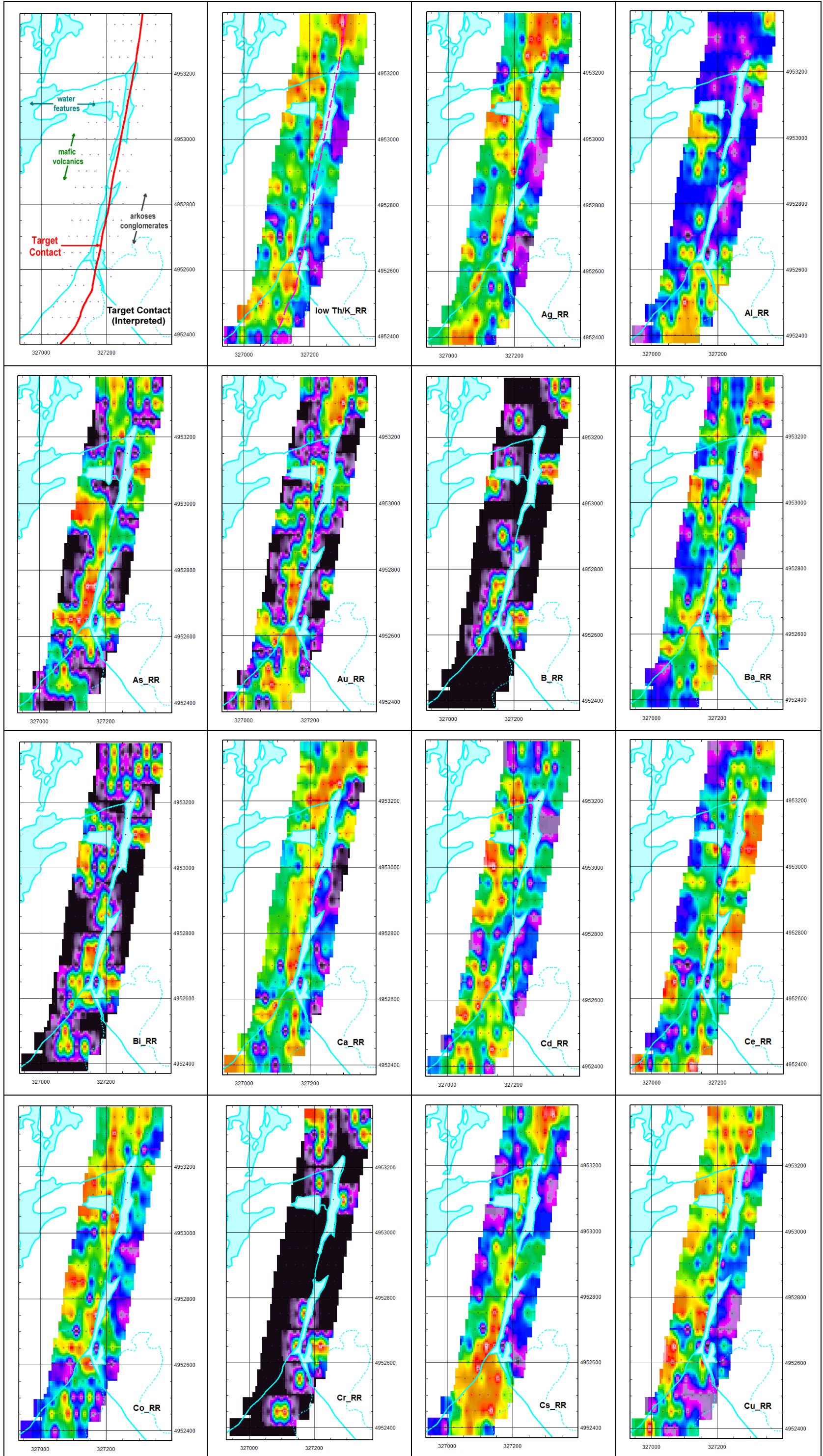
326900 327000 327100 327200 327300 327400

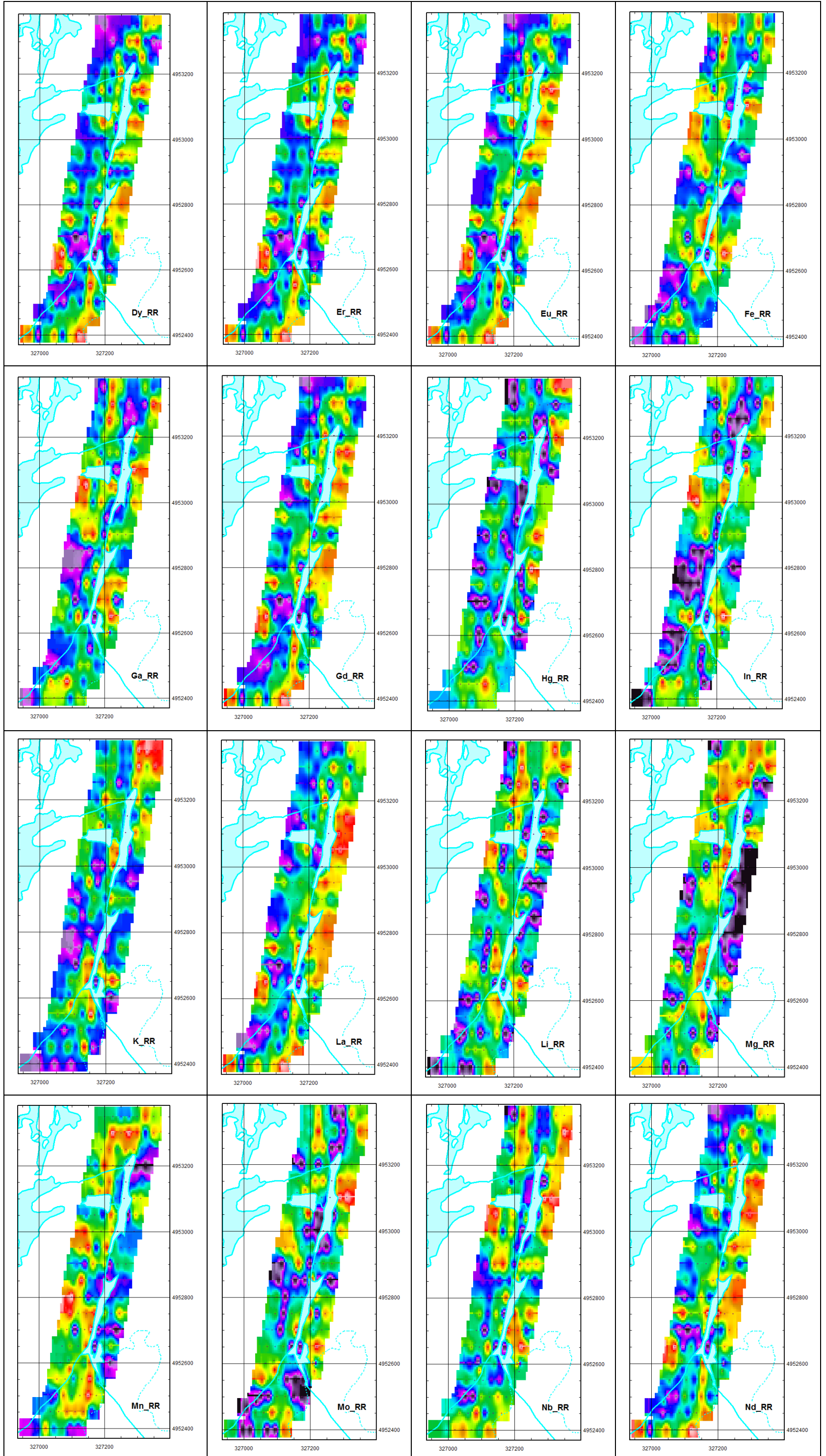


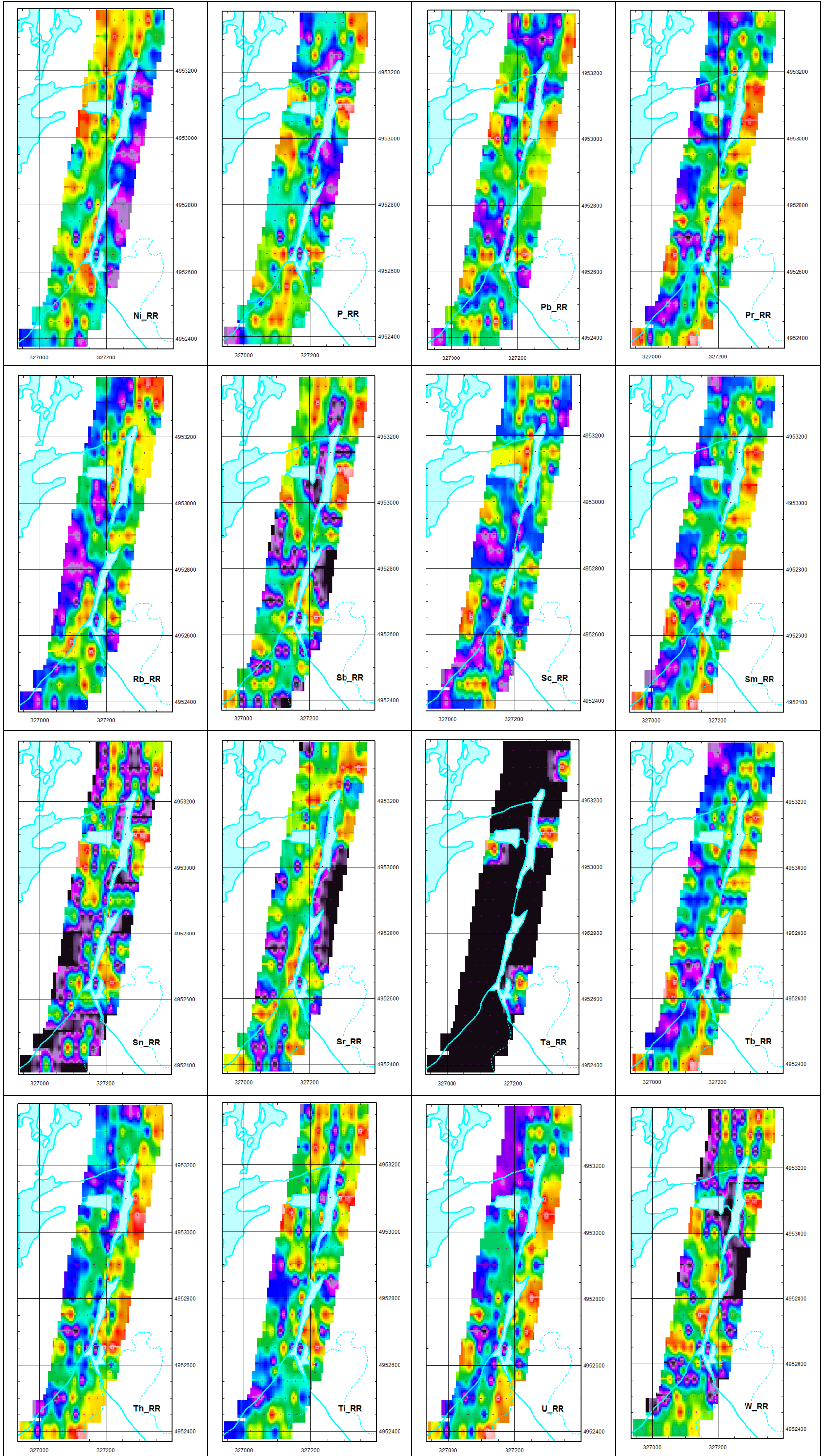
**Union Glory Gold
Addington Mine Property
Location of MMI Gold Targets**

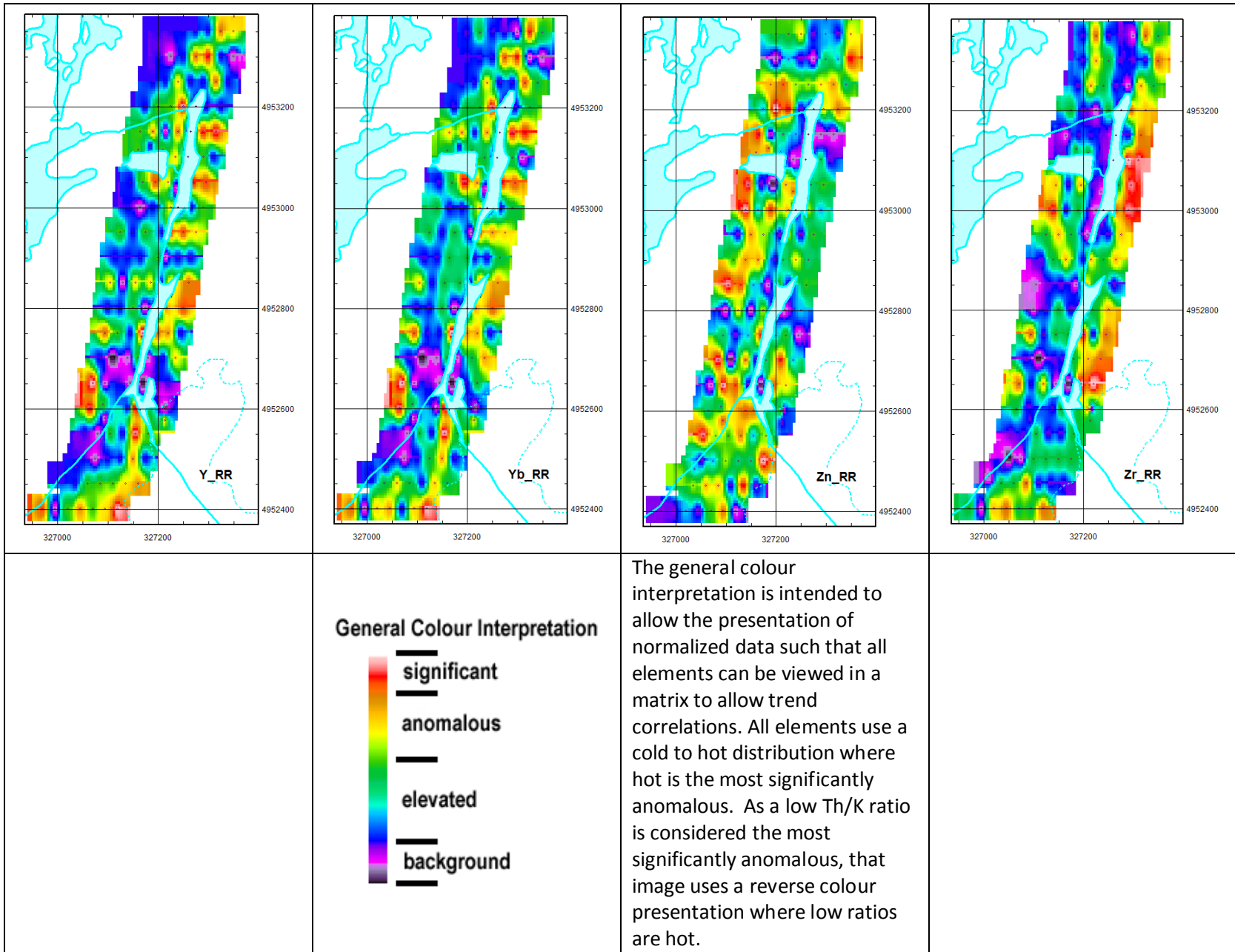
Appendix 4

MMI Element Response Ratios Map Matrix









Appendix 5

SGS Labs MMI Assay Certificates



Certificate of Analysis
Work Order : VC174252
[Report File No.: 000027139]

Date: January 15, 2018

To: Garry Smith
DEVON GEOLOGICAL SERVICES LTD
3267 STONECREST ROAD RR#2
WOODLAWN ON K0A 3M0

P.O. No.: 132 Samples
Project No.: -
Samples: 133
Received: Nov 21, 2017
Pages: Page 1 to 29
(Inclusive of Cover Sheet)

Methods Summary

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

Storage: Pulp & Reject

REJECT STORAGE : DISPOSE AFTER 30 DAYS

Comments:

Boron values are informational only.

Upon Client's request, this Certificate/Report has been issued in more than one original. Only the first original is a legally binding document and may be used for any legal purpose, including payment.

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 I.S. = Insufficient Sample
n.a. = Not applicable -- = 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	Al	As	Au	B	Ba	Bi	Ca
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5 ppb	1 ppm	10 ppb	0.1 ppb	10 ppb	10 ppb	0.5 ppb	2 ppm
A0027-7001	3.2	239	<10	<0.1	<10	260	<0.5	8
A0027-7002	18.2	226	50	1.8	20	840	4.4	94
A0027-7003	9.3	190	20	0.2	<10	250	<0.5	54
A0027-7004	13.1	175	<10	0.3	<10	150	<0.5	14
A0027-7005	7.0	211	30	<0.1	<10	140	<0.5	25
A0027-7006	3.7	227	40	<0.1	<10	280	0.9	3
A0027-7007	3.1	169	10	0.1	<10	70	<0.5	5
A0027-7008	4.7	143	40	0.5	20	740	2.7	116
A0027-7009	9.7	186	<10	<0.1	<10	440	<0.5	24
A0027-7010	5.8	211	20	19.3	<10	930	9.6	73
A0027-7011	14.6	104	<10	0.3	<10	180	<0.5	93
A0027-7012	16.4	205	10	0.2	<10	160	<0.5	11
A0027-7013	1.9	157	40	<0.1	<10	400	1.3	9
A0027-7014	4.3	125	<10	<0.1	<10	120	<0.5	89
A0027-7015	4.1	191	<10	<0.1	<10	100	<0.5	11
A0027-7016	3.2	216	20	<0.1	10	400	0.5	14
A0027-7017	20.7	155	10	0.1	<10	220	<0.5	87
A0027-7018	7.5	153	20	0.5	<10	120	0.7	119
A0027-7019	19.6	115	<10	1.1	<10	1690	<0.5	210
A0027-7020	2.4	178	<10	<0.1	<10	170	<0.5	2
A0027-7021	1.6	198	<10	<0.1	<10	90	<0.5	<2
A0027-7022	10.9	129	130	0.3	<10	220	<0.5	113
A0027-7023	2.8	167	20	<0.1	<10	310	<0.5	95
A0027-7024	5.9	143	<10	0.1	<10	500	<0.5	136
A0027-7025	1.2	183	<10	<0.1	<10	310	<0.5	17
A0027-7026	1.7	163	<10	<0.1	<10	150	0.6	4
A0027-7027	6.9	105	<10	<0.1	<10	50	<0.5	4
A0027-7028	11.7	211	10	<0.1	<10	220	<0.5	32
A0027-7029	4.5	152	<10	<0.1	<10	120	<0.5	27
A0027-7030	7.0	208	<10	0.9	<10	170	<0.5	7
A0027-7031	14.0	176	20	0.8	<10	430	2.1	132
A0027-7032	4.5	216	20	<0.1	10	350	0.7	76
A0027-7033	8.5	223	10	0.1	<10	160	<0.5	20
A0027-7034	10.1	229	10	<0.1	10	650	0.7	4
A0027-7035	19.4	188	<10	<0.1	<10	160	<0.5	35
A0027-7036	6.4	162	<10	<0.1	<10	80	<0.5	21
A0027-7037	7.5	219	<10	0.7	<10	240	1.7	17
A0027-7038	6.1	204	30	<0.1	<10	310	<0.5	18
A0027-7039	5.1	187	70	1.0	<10	180	0.8	24
A0027-7040	28.0	194	30	0.9	<10	440	0.7	72

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Element Method Det.Lim. Units	Ag	Al	As	Au	B	Ba	Bi	Ca
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5 ppb	1 ppm	10 ppb	0.1 ppb	10 ppb	10 ppb	0.5 ppb	2 ppm
A0027-7041	8.3	99	10	0.2	<10	540	<0.5	153
A0027-7042	3.0	183	<10	<0.1	<10	2660	<0.5	163
A0027-7043	3.0	213	<10	<0.1	<10	650	<0.5	51
A0027-7044	6.5	242	30	0.6	<10	380	1.1	27
A0027-7045	3.4	231	30	0.2	<10	90	<0.5	3
A0027-7046	6.2	228	60	<0.1	<10	500	1.8	5
A0027-7047	4.0	213	70	0.2	<10	150	<0.5	9
A0027-7048	7.3	237	40	0.1	<10	440	0.7	35
A0027-7049	9.1	209	10	<0.1	<10	170	<0.5	38
A0027-7050	4.1	193	10	<0.1	10	280	<0.5	43
A0027-7051	2.1	253	<10	<0.1	<10	210	<0.5	22
A0027-7052	5.1	206	<10	<0.1	<10	60	<0.5	6
A0027-7053	2.3	186	<10	<0.1	<10	190	<0.5	13
A0027-7054	4.1	209	<10	<0.1	<10	200	<0.5	14
A0027-7055	6.1	209	<10	0.1	<10	170	<0.5	30
A0027-7056	6.1	197	40	0.3	<10	190	<0.5	56
A0027-7057	3.6	192	<10	0.2	<10	160	<0.5	6
A0027-7058	3.3	163	<10	<0.1	<10	170	<0.5	16
A0027-7059	4.0	167	<10	<0.1	<10	210	<0.5	20
A0027-7060	4.4	180	10	<0.1	<10	120	<0.5	8
A0027-7061	8.0	236	480	0.9	10	170	2.6	48
A0027-7062	32.9	138	3720	8.8	10	320	4.4	141
A0027-7063	9.2	108	60	0.6	<10	580	0.9	194
A0027-7064	11.6	207	170	1.4	10	290	0.8	133
A0027-7065	2.7	184	<10	<0.1	<10	280	<0.5	22
A0027-7066	11.2	199	70	0.4	<10	220	<0.5	14
A0027-7067	2.7	245	250	<0.1	<10	510	0.9	6
A0027-7068	4.8	286	530	<0.1	10	370	0.9	4
A0027-7069	3.3	94	210	0.7	<10	1360	<0.5	445
A0027-7070	2.6	266	20	0.5	<10	830	1.4	15
A0027-7071	4.9	278	30	0.6	<10	310	0.5	11
A0027-7072	16.3	115	190	26.7	10	500	9.9	225
A0027-7073	4.4	174	<10	0.2	<10	90	<0.5	3
A0027-7074	3.3	199	<10	0.1	<10	120	<0.5	<2
A0027-7075	1.7	239	<10	<0.1	<10	170	<0.5	<2
A0027-7076	2.5	262	50	0.1	10	710	2.1	6
A0027-7077	1.7	229	<10	<0.1	<10	210	<0.5	3
A0027-7078	5.8	165	60	0.6	<10	430	<0.5	136
A0027-7079	1.3	236	<10	0.3	<10	300	<0.5	4
A0027-7080	4.1	221	<10	<0.1	<10	210	<0.5	7

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Element Method Det.Lim. Units	Ag	Al	As	Au	B	Ba	Bi	Ca
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5 ppb	1 ppm	10 ppb	0.1 ppb	10 ppb	10 ppb	0.5 ppb	2 ppm
A0027-7081	11.2	221	<10	<0.1	<10	280	<0.5	82
A0027-7082	4.3	260	10	<0.1	<10	570	<0.5	39
A0027-7083	6.1	210	10	<0.1	<10	100	<0.5	11
A0027-7084	3.8	167	<10	0.1	<10	40	<0.5	2
A0027-7085	5.3	172	90	6.3	<10	210	5.3	22
A0027-7086	3.8	240	<10	<0.1	<10	210	<0.5	7
A0027-7087	5.9	248	<10	0.2	<10	190	<0.5	<2
A0027-7088	5.9	160	<10	0.1	<10	360	<0.5	91
A0027-7089	2.0	241	<10	<0.1	<10	570	<0.5	2
A0027-7090	6.9	203	<10	0.1	<10	330	<0.5	70
A0027-7091	2.2	228	10	0.2	<10	510	0.9	52
A0027-7092	4.8	268	10	0.2	<10	160	<0.5	8
A0027-7093	13.8	263	30	1.6	<10	460	1.2	13
A0027-7094	6.3	210	20	0.4	<10	190	0.6	<2
A0027-7095	5.1	245	10	0.1	<10	190	<0.5	<2
A0027-7096	4.2	201	<10	<0.1	<10	150	<0.5	18
A0027-7097	3.6	124	10	<0.1	<10	210	<0.5	74
A0027-7098	4.9	197	<10	0.4	<10	140	<0.5	32
A0027-7099	11.3	222	<10	0.1	<10	160	<0.5	17
A0027-7100	9.7	250	<10	<0.1	<10	160	<0.5	4
A0027-7101	13.4	273	<10	<0.1	<10	270	<0.5	9
A0027-7102	3.9	261	<10	0.1	<10	160	<0.5	<2
A0027-7103	1.6	261	10	0.3	<10	180	<0.5	12
A0027-7104	1.6	275	60	<0.1	20	580	1.4	10
A0027-7105	1.1	117	50	<0.1	20	750	3.1	18
A0027-7106	1.0	219	20	<0.1	<10	190	0.8	2
A0027-7107	1.3	205	<10	<0.1	<10	390	<0.5	4
A0027-7108	<0.5	143	<10	<0.1	<10	170	<0.5	<2
A0027-7109	5.8	219	<10	0.3	<10	240	<0.5	6
A0027-7110	2.6	119	<10	<0.1	<10	100	<0.5	<2
A0027-7111	1.9	223	30	<0.1	<10	680	0.5	11
A0027-7112	8.1	96	<10	<0.1	<10	1130	<0.5	4
A0027-7113	2.5	167	<10	<0.1	<10	80	<0.5	4
A0027-7114	2.1	124	<10	<0.1	<10	80	<0.5	3
A0027-7115	1.6	136	<10	<0.1	<10	110	<0.5	<2
A0027-7116	1.4	226	40	<0.1	10	440	3.1	5
A0027-7117	1.4	233	10	<0.1	<10	190	<0.5	<2
A0027-7118	1.8	185	10	<0.1	<10	360	<0.5	2
A0027-7119	1.3	180	10	<0.1	<10	160	<0.5	<2
A0027-7120	1.1	146	<10	<0.1	<10	100	<0.5	<2

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Element Method Det.Lim. Units	Ag	Al	As	Au	B	Ba	Bi	Ca
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5 ppb	1 ppm	10 ppb	0.1 ppb	10 ppb	10 ppb	0.5 ppb	2 ppm
A0027-7121	1.5	101	<10	0.1	<10	40	<0.5	5
A0027-7122	0.9	193	20	<0.1	<10	70	<0.5	<2
A0027-7123	0.8	211	20	0.2	<10	160	<0.5	<2
A0027-7124	1.8	215	20	<0.1	<10	240	<0.5	<2
A0027-7125	3.3	221	10	0.1	<10	220	<0.5	<2
A0027-7126	0.6	186	<10	0.1	<10	120	<0.5	3
A0027-7127	2.5	204	140	0.1	40	1160	5.7	30
A0027-7128	3.1	88	70	<0.1	20	560	2.5	39
A0027-7129	10.4	145	10	<0.1	<10	1530	<0.5	26
A0027-7130	14.8	62	<10	<0.1	<10	320	<0.5	4
A0027-7131	1.3	261	20	<0.1	<10	300	0.8	2
A0027-7132	3.6	257	20	<0.1	<10	340	<0.5	<2
A0027-7133	LNR	LNR	LNR	LNR	LNR	LNR	LNR	LNR
*Rep A0027-7020	2.5	177	<10	<0.1	<10	170	<0.5	3
*Rep A0027-7043	3.4	213	<10	<0.1	<10	720	0.6	60
*Rep A0027-7056	6.5	200	30	0.2	<10	200	<0.5	54
*Rep A0027-7065	2.8	193	<10	<0.1	<10	260	<0.5	28
*Rep A0027-7081	11.1	223	<10	<0.1	<10	280	<0.5	81
*Rep A0027-7091	2.9	244	10	0.2	<10	490	0.8	57
*Rep A0027-7107	1.4	207	<10	<0.1	<10	450	<0.5	5
*Rep A0027-7119	1.4	175	10	<0.1	<10	160	<0.5	<2
*Rep A0027-7130	16.1	52	<10	0.1	<10	360	<0.5	5
*Std MMISRM19	25.8	21	<10	5.9	90	1270	<0.5	607
*Std MMISRM19	28.5	23	<10	5.6	90	1340	<0.5	629
*Std AMIS0169	8.2	54	10	0.3	<10	770	<0.5	32
*Std AMIS0169	9.1	57	10	1.4	10	700	<0.5	32
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<10	<0.5	<2
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<10	<0.5	<2
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<10	<0.5	<2
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<10	<0.5	<2

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Element Method Det.Lim. Units	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	1	2	1	100	0.2	10	0.5	0.2
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
A0027-7001	24	190	43	<100	70.3	270	35.8	20.2
A0027-7002	36	559	148	100	369	1670	62.1	36.1
A0027-7003	17	64	92	<100	246	190	18.3	9.6
A0027-7004	8	69	49	<100	115	620	23.1	13.6
A0027-7005	14	44	94	<100	48.6	750	19.9	12.4
A0027-7006	32	73	115	100	21.8	520	22.5	15.3
A0027-7007	12	45	40	100	66.4	1520	14.4	9.3
A0027-7008	28	127	25	100	28.8	260	14.3	8.2
A0027-7009	13	82	43	<100	29.1	300	19.1	9.8
A0027-7010	55	104	154	<100	241	3580	75.2	46.6
A0027-7011	10	202	80	<100	96.1	1520	55.9	31.4
A0027-7012	17	189	57	<100	90.0	490	21.5	12.4
A0027-7013	14	48	303	200	44.9	2460	10.7	7.2
A0027-7014	9	74	52	<100	27.5	490	21.3	12.4
A0027-7015	35	79	41	<100	45.4	890	22.4	12.6
A0027-7016	50	26	178	100	20.3	370	16.9	12.3
A0027-7017	14	194	84	<100	31.1	1220	36.3	20.6
A0027-7018	27	63	32	<100	64.8	350	23.3	14.6
A0027-7019	27	164	94	<100	134	1940	19.6	12.3
A0027-7020	19	234	19	<100	49.9	480	57.6	36.9
A0027-7021	28	65	26	<100	15.4	240	22.1	15.0
A0027-7022	12	1260	111	<100	85.9	3400	142	72.7
A0027-7023	58	122	136	<100	18.8	650	22.6	15.5
A0027-7024	77	102	136	<100	28.2	690	25.0	16.6
A0027-7025	16	92	81	<100	16.6	350	19.5	10.2
A0027-7026	52	19	251	<100	13.7	910	21.0	19.1
A0027-7027	12	149	40	<100	32.3	570	45.4	28.5
A0027-7028	29	51	84	100	111	820	15.2	9.4
A0027-7029	17	167	62	<100	157	1420	44.2	29.9
A0027-7030	29	114	47	<100	94.6	960	39.0	21.7
A0027-7031	27	157	194	<100	86.8	3690	34.1	19.1
A0027-7032	55	35	99	<100	58.9	710	15.6	9.9
A0027-7033	26	91	143	<100	39.8	1440	25.7	16.2
A0027-7034	49	69	156	<100	18.1	370	18.5	12.4
A0027-7035	25	166	106	<100	18.9	770	29.3	17.8
A0027-7036	11	463	16	<100	30.5	700	74.4	41.8
A0027-7037	64	40	319	<100	141	1840	36.5	25.8
A0027-7038	18	54	100	<100	88.6	190	13.4	7.9
A0027-7039	15	145	80	<100	179	2060	37.2	20.0
A0027-7040	16	242	145	<100	179	1330	36.9	16.4

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Element Method Det.Lim. Units	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	1	2	1	100	0.2	10	0.5	0.2
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
A0027-7041	11	41	142	<100	84.5	710	11.9	7.9
A0027-7042	49	50	269	<100	25.6	440	32.8	21.0
A0027-7043	37	22	272	<100	26.5	320	9.9	5.9
A0027-7044	39	80	151	<100	77.7	250	20.3	12.4
A0027-7045	36	83	23	<100	18.5	680	17.3	9.3
A0027-7046	143	74	26	<100	33.1	810	17.9	15.0
A0027-7047	17	180	37	<100	29.5	1000	33.4	18.9
A0027-7048	49	194	78	<100	104	670	22.5	13.4
A0027-7049	21	140	60	<100	42.6	180	27.3	17.3
A0027-7050	81	108	53	<100	86.7	310	23.7	15.0
A0027-7051	32	100	76	<100	44.7	220	22.0	13.4
A0027-7052	27	72	80	<100	15.4	410	19.9	12.3
A0027-7053	51	79	236	<100	30.1	620	36.1	23.8
A0027-7054	44	77	273	<100	28.4	550	17.7	9.3
A0027-7055	23	149	26	<100	84.0	1050	32.6	18.1
A0027-7056	12	290	18	<100	43.6	620	34.4	17.4
A0027-7057	28	81	70	<100	53.2	710	22.4	12.7
A0027-7058	11	68	73	<100	21.9	1410	15.3	11.1
A0027-7059	11	374	126	<100	55.4	1630	67.8	36.0
A0027-7060	16	125	47	<100	54.9	590	27.9	15.7
A0027-7061	23	126	113	<100	298	1720	21.6	10.9
A0027-7062	42	526	869	100	87.8	9870	301	179
A0027-7063	24	239	298	<100	214	2580	28.1	17.5
A0027-7064	37	65	81	<100	248	1490	11.3	6.0
A0027-7065	42	25	46	<100	42.1	190	20.5	14.6
A0027-7066	10	891	99	<100	35.4	7140	216	146
A0027-7067	47	35	201	<100	97.4	250	12.1	7.9
A0027-7068	80	170	145	<100	454	600	20.1	13.1
A0027-7069	32	15	81	100	260	130	3.8	2.7
A0027-7070	37	410	660	<100	90.8	2180	87.9	52.6
A0027-7071	27	70	175	<100	133	350	15.1	8.2
A0027-7072	112	81	23	<100	414	570	9.2	5.5
A0027-7073	33	115	15	<100	193	710	35.9	20.5
A0027-7074	22	366	26	<100	66.6	3160	107	57.5
A0027-7075	10	131	36	<100	26.4	310	43.1	25.0
A0027-7076	18	83	38	100	15.6	220	15.7	9.3
A0027-7077	19	133	40	<100	75.1	130	26.7	17.1
A0027-7078	32	148	33	100	294	660	105	77.7
A0027-7079	38	41	49	<100	161	180	16.2	10.9
A0027-7080	21	120	58	<100	80.6	140	23.9	15.9

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Element Method Det.Lim. Units	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	1	2	1	100	0.2	10	0.5	0.2
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
A0027-7081	27	112	23	<100	131	140	15.6	7.6
A0027-7082	78	120	34	<100	136	1060	20.5	11.3
A0027-7083	26	85	38	<100	96.0	160	25.3	13.9
A0027-7084	14	28	54	<100	93.8	1490	13.0	9.5
A0027-7085	16	18	157	<100	145	80	10.6	7.5
A0027-7086	36	194	20	<100	135	100	27.6	14.5
A0027-7087	34	74	19	<100	128	130	21.7	15.3
A0027-7088	15	278	96	<100	160	80	55.1	29.0
A0027-7089	33	68	15	<100	66.4	90	18.5	12.3
A0027-7090	39	344	14	<100	86.1	130	60.4	26.0
A0027-7091	108	131	83	<100	342	240	42.4	24.4
A0027-7092	21	48	21	200	178	150	25.0	14.4
A0027-7093	24	173	175	100	127	620	25.5	15.7
A0027-7094	45	52	68	<100	155	970	25.4	19.9
A0027-7095	51	47	92	<100	51.0	490	18.4	13.0
A0027-7096	10	55	30	<100	36.4	150	20.7	11.8
A0027-7097	14	535	32	<100	32.8	350	70.0	35.5
A0027-7098	25	32	33	<100	20.5	5270	11.3	6.8
A0027-7099	31	144	51	<100	82.9	360	33.9	20.6
A0027-7100	17	243	20	<100	82.5	110	53.2	30.1
A0027-7101	67	94	46	<100	160	130	23.5	14.1
A0027-7102	23	161	69	<100	73.5	230	44.6	25.1
A0027-7103	8	1310	28	<100	35.4	270	191	89.3
A0027-7104	21	248	74	200	32.4	270	25.7	14.8
A0027-7105	39	162	62	100	21.8	160	17.8	10.1
A0027-7106	13	52	31	<100	18.1	100	7.0	4.7
A0027-7107	31	80	63	<100	28.8	70	21.3	14.0
A0027-7108	6	246	24	<100	22.4	60	51.5	30.0
A0027-7109	14	198	17	<100	45.1	90	29.0	14.5
A0027-7110	16	156	38	<100	24.5	160	42.4	30.0
A0027-7111	9	629	95	<100	11.8	160	69.3	31.5
A0027-7112	8	409	34	<100	20.8	220	61.8	29.8
A0027-7113	17	373	25	<100	32.0	140	64.9	37.5
A0027-7114	12	209	46	<100	34.3	260	51.5	29.7
A0027-7115	14	220	16	<100	53.8	210	43.7	27.9
A0027-7116	20	294	46	<100	20.7	250	24.7	11.8
A0027-7117	36	79	28	<100	69.6	110	12.5	8.8
A0027-7118	30	133	51	<100	54.3	180	22.7	11.3
A0027-7119	24	75	25	<100	51.4	190	18.9	13.9
A0027-7120	17	199	13	<100	54.4	200	43.6	23.8

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	GE_MMI_M 1 ppb	GE_MMI_M 2 ppb	GE_MMI_M 1 ppb	GE_MMI_M 100 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 0.2 ppb
A0027-7121	10	421	12	<100	49.0	680	57.6	30.8
A0027-7122	35	324	36	<100	31.8	180	65.3	36.4
A0027-7123	25	185	53	<100	34.1	480	29.7	15.7
A0027-7124	29	200	32	<100	29.1	220	31.6	18.5
A0027-7125	28	522	47	<100	31.6	880	71.8	38.3
A0027-7126	21	502	38	<100	34.2	520	71.0	42.4
A0027-7127	13	471	68	200	33.4	610	32.4	16.7
A0027-7128	6	254	27	<100	8.7	280	15.6	8.1
A0027-7129	11	307	44	<100	12.1	180	88.8	46.8
A0027-7130	10	453	31	<100	32.8	110	85.1	46.0
A0027-7131	21	149	44	<100	84.0	140	19.2	11.8
A0027-7132	27	137	90	<100	34.8	180	26.9	15.0
A0027-7133	LNR	LNR	LNR	LNR	LNR	LNR	LNR	LNR
*Rep A0027-7020	18	213	16	<100	51.1	440	54.7	35.0
*Rep A0027-7043	32	28	258	<100	29.4	320	9.3	5.6
*Rep A0027-7056	13	292	18	<100	48.2	620	35.5	17.6
*Rep A0027-7065	37	27	34	<100	40.4	210	20.6	14.9
*Rep A0027-7081	27	109	22	<100	127	140	15.6	7.6
*Rep A0027-7091	98	146	77	<100	347	250	42.5	23.9
*Rep A0027-7107	34	74	65	<100	28.1	80	19.5	13.3
*Rep A0027-7119	26	77	27	<100	52.6	210	19.7	15.3
*Rep A0027-7130	11	540	32	<100	35.1	120	94.1	49.0
*Std MMISRM19	36	19	401	<100	4.6	2030	12.6	6.9
*Std MMISRM19	35	20	404	<100	4.8	2070	12.7	7.1
*Std AMIS0169	2	724	84	<100	7.1	3580	26.9	11.6
*Std AMIS0169	2	714	90	<100	7.5	3920	28.0	12.2
*Blk BLANK	<1	<2	<1	<100	<0.2	<10	<0.5	<0.2
*Blk BLANK	<1	<2	<1	<100	<0.2	<10	<0.5	<0.2
*Blk BLANK	<1	<2	<1	<100	<0.2	<10	<0.5	<0.2
*Blk BLANK	<1	<2	<1	<100	<0.2	<10	<0.5	<0.2

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Element Method Det.Lim. Units	Eu	Fe	Ga	Gd	Hg	In	K	La
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.2 ppb	1 ppm	0.5 ppb	0.5 ppb	1 ppb	0.1 ppb	0.5 ppm	1 ppb
A0027-7001	6.2	24	10.5	29.1	3	0.1	15.2	58
A0027-7002	11.0	103	16.6	52.6	3	0.2	24.5	73
A0027-7003	4.1	47	9.8	16.8	2	<0.1	25.2	24
A0027-7004	4.0	30	8.2	18.2	<1	0.1	5.8	24
A0027-7005	3.6	95	19.3	14.8	1	0.2	5.7	15
A0027-7006	3.8	85	28.8	15.1	2	0.3	6.5	29
A0027-7007	2.5	72	5.7	9.9	<1	0.2	4.1	18
A0027-7008	3.3	108	44.5	14.0	1	0.3	16.8	49
A0027-7009	3.0	23	6.2	12.8	<1	<0.1	7.4	23
A0027-7010	8.3	93	7.9	41.0	1	0.1	30.2	38
A0027-7011	14.5	22	5.2	60.9	1	<0.1	5.2	94
A0027-7012	4.9	36	10.7	20.7	2	0.1	4.5	36
A0027-7013	2.2	304	57.9	8.7	1	0.3	6.4	20
A0027-7014	4.9	25	7.7	19.7	<1	<0.1	6.6	29
A0027-7015	4.0	20	7.0	16.9	2	0.1	4.4	21
A0027-7016	2.2	136	48.5	11.0	2	0.3	7.5	11
A0027-7017	9.1	42	17.2	38.2	2	<0.1	3.8	64
A0027-7018	3.7	31	5.9	16.3	<1	<0.1	6.3	12
A0027-7019	4.3	29	6.0	20.1	<1	<0.1	9.0	32
A0027-7020	10.9	21	10.2	46.7	3	0.1	8.4	81
A0027-7021	3.2	54	18.9	14.4	2	0.3	7.0	32
A0027-7022	49.3	38	8.2	206	2	<0.1	8.5	669
A0027-7023	3.4	48	12.5	16.1	<1	0.1	7.2	19
A0027-7024	5.4	64	16.3	24.8	1	<0.1	11.5	34
A0027-7025	4.1	26	8.5	15.6	1	0.1	5.4	29
A0027-7026	1.7	84	15.3	9.4	<1	0.3	8.8	8
A0027-7027	10.6	15	10.2	43.6	2	<0.1	3.9	54
A0027-7028	3.2	93	18.0	12.5	2	0.2	7.4	18
A0027-7029	12.1	37	15.8	47.6	2	0.1	7.9	55
A0027-7030	6.5	21	5.7	28.1	2	<0.1	8.5	39
A0027-7031	8.1	66	9.6	33.3	2	0.1	4.7	43
A0027-7032	2.8	97	27.2	11.8	1	0.2	9.4	14
A0027-7033	4.7	60	11.5	20.1	2	0.2	6.6	25
A0027-7034	3.5	95	69.1	12.7	<1	0.3	7.5	26
A0027-7035	5.5	22	8.3	23.9	1	0.1	4.6	43
A0027-7036	14.8	43	16.8	64.1	1	0.1	4.2	89
A0027-7037	5.8	68	24.1	25.2	<1	0.3	10.0	14
A0027-7038	2.7	78	22.8	10.6	2	0.1	4.9	26
A0027-7039	8.5	28	7.6	37.2	<1	<0.1	4.8	52
A0027-7040	7.8	23	4.4	34.6	1	<0.1	4.3	49

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Element Method Det.Lim. Units	Eu	Fe	Ga	Gd	Hg	In	K	La
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.2 ppb	1 ppm	0.5 ppb	0.5 ppb	1 ppb	0.1 ppb	0.5 ppm	1 ppb
A0027-7041	2.8	60	5.2	12.1	<1	<0.1	6.9	29
A0027-7042	5.6	56	6.5	26.3	<1	0.4	19.7	18
A0027-7043	1.6	137	27.0	7.1	<1	0.3	14.8	8
A0027-7044	3.8	50	19.7	15.3	1	0.2	3.5	27
A0027-7045	2.9	32	6.5	12.1	2	0.2	3.1	18
A0027-7046	2.1	106	30.7	9.7	1	0.6	8.1	14
A0027-7047	9.3	55	15.8	34.4	2	0.1	4.5	55
A0027-7048	4.9	69	18.0	19.4	2	0.2	9.4	30
A0027-7049	5.4	39	15.7	23.2	1	0.2	3.2	47
A0027-7050	5.4	97	40.2	21.0	<1	0.3	7.0	30
A0027-7051	4.2	55	26.3	16.1	2	0.2	4.6	27
A0027-7052	3.2	21	8.8	14.2	<1	0.1	3.3	18
A0027-7053	4.2	23	6.4	21.4	1	0.1	6.6	23
A0027-7054	2.6	32	5.9	12.0	2	<0.1	3.8	18
A0027-7055	6.5	20	5.0	28.4	1	<0.1	6.7	44
A0027-7056	7.9	27	8.4	33.9	1	<0.1	3.2	60
A0027-7057	3.2	49	6.3	14.9	1	0.1	5.2	28
A0027-7058	2.6	26	6.3	11.5	<1	<0.1	2.6	16
A0027-7059	17.9	54	9.2	79.3	2	<0.1	3.5	179
A0027-7060	5.0	41	3.9	21.7	1	<0.1	2.6	39
A0027-7061	6.5	75	22.1	25.2	2	<0.1	7.1	36
A0027-7062	74.0	129	4.5	356	1	0.1	3.7	460
A0027-7063	6.8	110	11.0	30.6	<1	<0.1	14.7	90
A0027-7064	2.4	54	10.4	9.8	1	0.1	10.1	22
A0027-7065	2.7	64	19.0	12.3	<1	0.1	5.3	11
A0027-7066	62.3	47	15.9	260	2	0.1	4.0	428
A0027-7067	1.9	73	10.2	7.7	1	0.3	8.0	15
A0027-7068	4.0	87	29.6	15.7	2	0.4	8.8	37
A0027-7069	0.6	19	2.0	3.0	<1	<0.1	17.6	5
A0027-7070	17.9	99	10.6	79.4	2	0.3	9.3	133
A0027-7071	3.0	64	12.7	12.2	2	0.2	7.4	26
A0027-7072	2.4	27	8.8	10.4	<1	<0.1	12.8	28
A0027-7073	5.8	17	11.8	24.2	<1	<0.1	5.2	31
A0027-7074	18.7	14	7.3	80.9	2	<0.1	4.5	114
A0027-7075	7.7	43	11.6	32.2	1	0.2	5.2	52
A0027-7076	3.9	177	99.3	14.4	<1	0.3	3.0	39
A0027-7077	4.5	37	11.4	18.9	1	0.2	5.8	40
A0027-7078	19.4	44	5.8	96.2	2	<0.1	31.3	65
A0027-7079	2.9	69	13.6	12.2	1	0.2	5.6	16
A0027-7080	4.3	25	8.2	18.2	1	0.1	6.4	26

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	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.2 ppb	1 ppm	0.5 ppb	0.5 ppb	1 ppb	0.1 ppb	0.5 ppm	1 ppb
A0027-7081	3.1	18	7.3	14.1	1	<0.1	6.4	34
A0027-7082	4.0	22	10.2	17.4	2	0.1	8.8	32
A0027-7083	4.4	13	5.9	17.5	2	<0.1	4.4	23
A0027-7084	2.1	7	4.7	9.1	<1	<0.1	3.9	9
A0027-7085	1.4	54	8.9	6.7	<1	<0.1	3.2	7
A0027-7086	4.8	15	8.6	22.4	1	0.1	4.8	47
A0027-7087	3.4	28	17.2	14.8	2	0.2	7.4	21
A0027-7088	11.5	46	16.8	53.8	1	<0.1	4.2	78
A0027-7089	2.5	30	10.7	11.3	1	0.2	5.5	19
A0027-7090	13.5	23	11.4	63.9	1	<0.1	3.8	150
A0027-7091	6.4	29	9.2	31.3	2	0.2	18.5	55
A0027-7092	4.8	44	13.2	21.4	3	0.1	4.2	17
A0027-7093	5.7	100	62.4	22.3	2	0.3	7.3	40
A0027-7094	3.5	54	15.7	16.4	2	0.2	5.8	19
A0027-7095	2.8	66	21.8	11.6	2	0.4	6.7	14
A0027-7096	3.1	20	9.1	13.7	1	0.1	4.0	16
A0027-7097	18.1	17	6.0	80.8	1	<0.1	2.2	181
A0027-7098	1.9	30	10.6	7.9	1	<0.1	3.0	12
A0027-7099	5.4	42	19.3	25.0	1	0.2	4.6	48
A0027-7100	11.4	21	19.0	47.3	2	0.2	2.0	72
A0027-7101	4.6	27	17.0	18.1	1	0.2	5.9	30
A0027-7102	7.1	17	6.5	33.9	2	0.1	3.4	61
A0027-7103	57.4	51	16.5	278	2	0.2	5.4	732
A0027-7104	6.3	240	60.9	25.9	3	0.9	16.6	102
A0027-7105	4.1	64	11.7	18.1	<1	0.3	10.4	80
A0027-7106	1.2	126	38.3	5.1	1	0.3	9.9	26
A0027-7107	3.9	43	28.8	15.7	2	0.2	4.2	28
A0027-7108	8.4	54	6.0	37.9	<1	0.1	4.7	101
A0027-7109	7.0	44	27.6	30.5	2	0.1	7.4	74
A0027-7110	9.5	31	22.1	39.8	<1	0.1	4.1	63
A0027-7111	20.0	52	27.5	86.0	2	0.3	2.5	287
A0027-7112	15.0	24	12.0	57.1	<1	0.1	4.5	102
A0027-7113	14.7	23	9.1	61.4	5	<0.1	6.0	154
A0027-7114	11.0	16	9.7	48.4	1	0.1	4.2	87
A0027-7115	10.4	17	8.2	40.9	2	0.1	5.3	63
A0027-7116	5.8	185	37.2	26.4	1	0.3	8.4	155
A0027-7117	2.0	74	21.1	9.0	1	0.2	9.1	35
A0027-7118	4.9	42	16.0	20.0	2	0.2	8.7	58
A0027-7119	3.2	40	15.8	12.3	3	0.2	6.6	32
A0027-7120	11.0	19	12.2	41.3	2	0.1	3.6	60

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Element Method Det.Lim. Units	Eu	Fe	Ga	Gd	Hg	In	K	La
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.2 ppb	1 ppm	0.5 ppb	0.5 ppb	1 ppb	0.1 ppb	0.5 ppm	1 ppb
A0027-7121	16.6	23	9.8	79.0	1	0.1	4.5	178
A0027-7122	11.3	30	8.6	53.1	1	0.2	4.0	135
A0027-7123	6.0	48	9.3	27.2	2	0.2	4.6	80
A0027-7124	6.9	47	21.2	26.3	2	0.2	6.0	58
A0027-7125	16.4	38	16.3	69.6	2	0.2	6.6	221
A0027-7126	13.7	34	4.9	64.4	2	0.2	3.2	229
A0027-7127	9.4	314	127	42.3	1	0.4	11.0	231
A0027-7128	4.4	85	28.3	19.9	<1	0.1	7.4	120
A0027-7129	21.6	29	12.7	91.7	2	0.1	10.1	198
A0027-7130	20.4	10	10.2	87.8	<1	<0.1	4.8	149
A0027-7131	3.7	108	24.0	16.5	<1	0.3	11.2	56
A0027-7132	4.4	38	14.1	18.8	3	0.2	6.2	45
A0027-7133	LNR	LNR	LNR	LNR	LNR	LNR	LNR	LNR
*Rep A0027-7020	9.8	20	9.9	43.8	3	<0.1	7.9	72
*Rep A0027-7043	1.8	164	32.6	7.1	<1	0.4	14.2	11
*Rep A0027-7056	8.2	27	8.8	35.4	2	<0.1	3.7	61
*Rep A0027-7065	2.9	59	17.5	13.0	1	0.2	5.0	11
*Rep A0027-7081	3.3	19	7.7	14.1	2	<0.1	6.1	34
*Rep A0027-7091	6.6	29	9.6	32.6	1	0.2	19.2	58
*Rep A0027-7107	3.7	42	28.8	14.4	2	0.2	4.7	26
*Rep A0027-7119	3.0	41	17.8	13.0	2	0.2	6.5	34
*Rep A0027-7130	23.3	8	10.4	101	<1	<0.1	5.6	176
*Std MMISRM19	2.5	4	<0.5	12.8	2	<0.1	85.7	4
*Std MMISRM19	2.3	5	<0.5	14.1	2	<0.1	90.8	4
*Std AMIS0169	10.6	36	8.4	44.6	<1	<0.1	40.1	387
*Std AMIS0169	10.6	36	8.9	43.3	<1	<0.1	42.1	394
*Blk BLANK	<0.2	<1	<0.5	<0.5	<1	<0.1	<0.5	<1
*Blk BLANK	<0.2	<1	<0.5	<0.5	<1	<0.1	<0.5	<1
*Blk BLANK	<0.2	<1	<0.5	<0.5	<1	<0.1	<0.5	<1
*Blk BLANK	<0.2	<1	<0.5	<0.5	<1	<0.1	<0.5	<1

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A0027-7001	2	1.3	900	3	3.7	94	76	3.4
A0027-7002	10	7.3	4000	4	4.9	141	699	4.9
A0027-7003	3	3.6	700	<2	1.1	45	153	2.1
A0027-7004	2	1.1	400	<2	1.3	50	136	1.6
A0027-7005	2	2.1	400	2	3.1	34	197	1.9
A0027-7006	6	1.3	600	4	10.9	47	171	2.1
A0027-7007	<1	<0.5	700	2	<0.5	29	344	1.3
A0027-7008	8	8.8	2000	5	33.8	60	112	5.3
A0027-7009	3	1.2	300	2	2.7	36	99	1.3
A0027-7010	4	19.5	4600	<2	1.2	74	453	3.0
A0027-7011	2	1.9	10100	3	0.9	201	122	1.2
A0027-7012	2	1.3	2700	2	1.7	70	182	1.9
A0027-7013	19	3.5	11400	6	12.3	30	506	3.4
A0027-7014	1	3.0	800	2	3.3	60	111	0.7
A0027-7015	<1	1.0	1100	2	0.9	46	175	2.1
A0027-7016	10	3.6	3400	4	6.3	19	397	4.0
A0027-7017	5	2.5	700	4	5.1	121	141	1.5
A0027-7018	<1	9.8	2700	<2	0.7	36	80	0.5
A0027-7019	4	7.7	2000	<2	3.0	60	425	0.5
A0027-7020	1	<0.5	400	2	1.6	163	80	1.7
A0027-7021	<1	<0.5	300	3	6.1	44	47	2.5
A0027-7022	3	2.3	700	3	2.7	1020	89	0.9
A0027-7023	3	8.0	1600	<2	4.5	40	185	0.7
A0027-7024	8	11.5	5300	3	5.3	69	764	1.2
A0027-7025	3	1.2	400	<2	2.6	55	133	1.4
A0027-7026	2	2.2	1500	3	1.7	18	305	2.4
A0027-7027	<1	<0.5	600	2	0.9	136	50	0.7
A0027-7028	5	1.4	3400	4	2.0	35	216	3.8
A0027-7029	1	0.8	400	4	1.2	142	41	2.5
A0027-7030	<1	0.9	400	2	0.5	73	75	2.2
A0027-7031	4	6.5	3600	3	2.5	101	363	2.0
A0027-7032	5	5.7	2200	4	3.5	27	138	5.5
A0027-7033	2	2.9	700	2	2.9	54	201	2.9
A0027-7034	8	1.6	500	3	21.6	42	449	2.1
A0027-7035	<1	1.8	800	2	2.0	76	204	1.7
A0027-7036	1	<0.5	300	6	4.1	213	40	1.3
A0027-7037	4	6.9	3700	<2	1.2	46	302	4.1
A0027-7038	2	1.4	400	2	6.4	35	172	1.9
A0027-7039	2	0.9	300	<2	1.2	116	125	0.9
A0027-7040	2	2.5	1500	<2	0.5	98	109	1.4

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A0027-7041	2	4.0	5200	3	1.3	43	98	0.6
A0027-7042	1	70.6	2300	<2	<0.5	56	640	0.6
A0027-7043	6	18.2	1000	<2	3.7	16	203	2.8
A0027-7044	3	3.2	900	<2	5.0	47	170	2.7
A0027-7045	<1	<0.5	1000	2	0.9	36	89	2.7
A0027-7046	4	1.5	5300	4	10.5	24	382	4.2
A0027-7047	1	<0.5	2000	4	1.7	113	52	3.2
A0027-7048	4	2.5	6700	4	3.7	64	284	5.0
A0027-7049	2	1.9	300	2	3.8	77	189	1.5
A0027-7050	6	2.2	1700	5	10.9	64	123	2.6
A0027-7051	2	1.3	200	2	6.4	52	170	2.9
A0027-7052	<1	<0.5	500	<2	0.7	40	98	1.3
A0027-7053	2	1.5	800	<2	1.1	53	276	1.8
A0027-7054	2	0.7	8100	2	1.1	32	180	2.6
A0027-7055	1	0.8	500	<2	1.2	88	99	1.7
A0027-7056	3	1.0	200	2	2.4	119	29	1.7
A0027-7057	<1	<0.5	1500	<2	1.3	43	108	2.0
A0027-7058	3	0.6	19700	3	1.4	30	133	1.9
A0027-7059	1	<0.5	5800	3	3.4	319	95	1.7
A0027-7060	<1	<0.5	1100	<2	0.9	74	82	1.7
A0027-7061	7	4.4	2900	3	3.6	81	127	4.6
A0027-7062	2	20.3	5400	3	<0.5	824	1680	2.1
A0027-7063	5	9.9	19600	21	3.6	127	452	1.7
A0027-7064	5	4.8	1500	3	2.0	29	194	2.7
A0027-7065	4	3.2	1500	2	2.3	22	183	2.4
A0027-7066	3	0.8	600	3	3.3	944	127	2.5
A0027-7067	3	1.4	1000	2	1.9	21	300	3.1
A0027-7068	3	1.5	700	3	7.9	57	197	5.4
A0027-7069	<1	30.3	4200	<2	<0.5	6	814	0.2
A0027-7070	6	2.9	2800	2	0.9	273	476	5.2
A0027-7071	4	1.9	600	2	2.3	42	308	3.7
A0027-7072	4	9.9	3700	6	4.6	42	453	2.0
A0027-7073	<1	<0.5	600	3	<0.5	73	47	1.5
A0027-7074	<1	<0.5	600	3	0.8	269	69	2.5
A0027-7075	3	0.6	300	4	2.0	88	37	2.1
A0027-7076	10	1.9	100	9	38.8	53	60	4.0
A0027-7077	1	<0.5	500	<2	2.2	71	81	2.6
A0027-7078	4	9.0	7900	<2	0.5	176	606	2.1
A0027-7079	3	1.2	1100	<2	1.2	35	153	5.7
A0027-7080	1	0.7	500	2	1.4	58	120	2.0

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Element Method Det.Lim. Units	Li	Mg	Mn	Mo	Nb	Nd	Ni	P
	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppm	GE_MMI_M 100 ppb	GE_MMI_M 2 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 5 ppb	GE_MMI_M 0.1 ppm
A0027-7081	2	2.4	1300	3	1.7	49	87	2.7
A0027-7082	1	1.9	1600	5	2.7	52	164	3.8
A0027-7083	<1	0.9	300	<2	1.0	54	82	1.6
A0027-7084	<1	<0.5	200	<2	<0.5	25	42	1.0
A0027-7085	3	2.1	2500	<2	<0.5	13	253	1.7
A0027-7086	<1	0.7	700	3	3.1	79	117	3.0
A0027-7087	1	<0.5	1300	3	2.9	41	105	3.1
A0027-7088	4	1.9	8400	<2	4.6	170	66	2.5
A0027-7089	<1	<0.5	1200	<2	2.9	33	96	2.4
A0027-7090	1	2.0	300	2	3.8	218	79	1.6
A0027-7091	2	4.3	2900	4	2.6	88	241	2.4
A0027-7092	3	0.9	2100	3	1.3	48	71	4.3
A0027-7093	3	1.7	2800	5	14.7	66	458	4.7
A0027-7094	3	0.6	1300	3	2.3	38	144	2.8
A0027-7095	1	0.5	700	3	3.1	28	157	4.2
A0027-7096	2	1.4	400	<2	1.5	36	88	1.7
A0027-7097	<1	2.2	200	3	2.5	335	70	0.8
A0027-7098	2	2.3	300	<2	1.8	21	99	1.2
A0027-7099	2	0.9	1900	<2	4.9	79	100	1.8
A0027-7100	<1	<0.5	500	3	5.6	158	63	2.1
A0027-7101	<1	0.9	700	<2	3.1	59	147	2.3
A0027-7102	2	<0.5	200	<2	2.3	114	81	1.8
A0027-7103	5	0.7	200	5	5.7	1300	35	2.3
A0027-7104	8	3.1	1100	7	23.1	127	128	4.5
A0027-7105	4	2.6	800	4	5.1	92	121	8.2
A0027-7106	3	1.0	<100	3	15.1	24	46	2.4
A0027-7107	2	0.6	200	2	7.9	50	89	2.1
A0027-7108	<1	<0.5	<100	3	0.9	148	33	1.5
A0027-7109	2	0.6	1700	4	8.0	117	33	3.3
A0027-7110	1	<0.5	500	<2	2.9	146	64	0.4
A0027-7111	7	0.7	1100	7	13.1	397	60	2.2
A0027-7112	<1	<0.5	300	4	2.8	188	21	0.3
A0027-7113	2	<0.5	500	3	1.7	268	37	1.4
A0027-7114	<1	<0.5	300	<2	0.8	182	52	0.5
A0027-7115	<1	<0.5	300	<2	1.1	147	30	0.4
A0027-7116	6	1.7	<100	8	5.8	135	96	4.7
A0027-7117	3	0.6	<100	2	5.9	41	59	3.8
A0027-7118	4	0.9	700	3	5.0	76	104	1.2
A0027-7119	1	<0.5	700	3	4.6	41	74	1.3
A0027-7120	<1	<0.5	500	2	2.2	154	23	1.2

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Element Method Det.Lim. Units	Li	Mg	Mn	Mo	Nb	Nd	Ni	P
	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppm	GE_MMI_M 100 ppb	GE_MMI_M 2 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 5 ppb	GE_MMI_M 0.1 ppm
A0027-7121	<1	<0.5	400	<2	1.7	331	12	0.5
A0027-7122	<1	<0.5	800	<2	1.1	205	41	1.4
A0027-7123	4	<0.5	400	2	3.1	109	93	1.5
A0027-7124	2	<0.5	400	4	10.0	99	43	1.7
A0027-7125	<1	<0.5	1500	3	4.6	329	57	3.0
A0027-7126	<1	<0.5	<100	<2	0.7	298	59	1.2
A0027-7127	26	7.5	1600	20	65.9	238	146	10.1
A0027-7128	5	2.9	1200	12	21.5	116	71	8.9
A0027-7129	1	0.7	400	4	5.0	318	37	0.8
A0027-7130	<1	<0.5	300	5	<0.5	324	34	0.2
A0027-7131	3	0.9	<100	3	9.2	69	73	2.7
A0027-7132	2	0.5	<100	3	4.7	64	96	2.9
A0027-7133	LNR	LNR	LNR	LNR	LNR	LNR	LNR	LNR
*Rep A0027-7020	<1	<0.5	400	2	1.4	149	84	1.5
*Rep A0027-7043	7	16.6	1400	2	5.3	20	208	3.5
*Rep A0027-7056	2	1.0	300	3	2.3	121	31	1.8
*Rep A0027-7065	3	2.6	600	<2	1.8	24	175	2.3
*Rep A0027-7081	2	2.4	1200	3	1.7	48	89	2.5
*Rep A0027-7091	3	4.1	2800	4	2.7	95	266	2.5
*Rep A0027-7107	2	0.6	300	<2	8.1	45	104	2.0
*Rep A0027-7119	<1	<0.5	800	2	5.0	43	72	1.2
*Rep A0027-7130	<1	<0.5	300	5	<0.5	375	32	0.2
*Std MMISRM19	1	167	6600	9	<0.5	16	1980	0.3
*Std MMISRM19	1	180	7100	9	<0.5	18	1990	0.4
*Std AMIS0169	<1	28.3	3700	4	3.2	356	386	2.5
*Std AMIS0169	<1	28.7	3900	4	3.0	368	399	2.5
*Blk BLANK	<1	<0.5	<100	<2	<0.5	<1	<5	<0.1
*Blk BLANK	<1	<0.5	<100	<2	<0.5	<1	<5	<0.1
*Blk BLANK	<1	<0.5	<100	<2	<0.5	<1	<5	<0.1
*Blk BLANK	<1	<0.5	<100	<2	<0.5	<1	<5	<0.1

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Element Method Det.Lim. Units	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	5 ppb	1 ppb	0.5 ppb	0.1 ppb	1 ppb	0.5 ppb	5 ppb	1 ppb
A0027-7001	354	<1	19.3	<0.1	122	0.6	34	25
A0027-7002	103	<1	27.9	<0.1	161	1.4	90	44
A0027-7003	139	<1	8.7	<0.1	130	0.9	50	14
A0027-7004	185	<1	9.3	<0.1	25	0.6	52	14
A0027-7005	163	<1	6.1	<0.1	38	1.3	78	11
A0027-7006	629	<1	9.5	<0.1	35	1.4	82	13
A0027-7007	71	<1	6.5	<0.1	53	0.7	44	8
A0027-7008	640	<1	13.9	<0.1	165	2.1	35	14
A0027-7009	212	<1	7.6	<0.1	49	0.8	18	10
A0027-7010	89	<1	14.4	<0.1	269	<0.5	119	26
A0027-7011	30	<1	40.0	<0.1	36	<0.5	93	56
A0027-7012	166	<1	14.2	<0.1	29	0.8	50	20
A0027-7013	52	<1	6.1	<0.1	40	3.6	101	8
A0027-7014	136	<1	11.8	<0.1	45	1.0	38	17
A0027-7015	290	<1	8.9	<0.1	48	0.7	50	13
A0027-7016	291	<1	3.5	<0.1	56	1.7	96	7
A0027-7017	142	<1	24.7	<0.1	34	0.9	52	34
A0027-7018	135	<1	6.5	<0.1	115	<0.5	33	14
A0027-7019	268	<1	12.1	<0.1	70	<0.5	22	17
A0027-7020	174	<1	33.4	<0.1	79	0.8	64	44
A0027-7021	464	<1	9.8	<0.1	43	1.7	25	13
A0027-7022	163	<1	224	<0.1	120	0.6	104	217
A0027-7023	770	<1	7.8	<0.1	48	0.6	36	12
A0027-7024	218	<1	13.3	<0.1	112	0.9	52	20
A0027-7025	250	<1	11.1	<0.1	46	0.8	33	15
A0027-7026	625	<1	3.3	<0.1	48	1.3	73	6
A0027-7027	151	<1	25.4	<0.1	24	<0.5	74	39
A0027-7028	368	<1	7.0	<0.1	80	1.2	70	11
A0027-7029	148	<1	26.9	<0.1	106	<0.5	163	40
A0027-7030	132	<1	14.4	<0.1	90	<0.5	120	21
A0027-7031	492	<1	18.9	<0.1	72	0.8	89	30
A0027-7032	271	<1	5.2	<0.1	73	0.6	61	9
A0027-7033	208	<1	10.4	<0.1	53	0.9	64	15
A0027-7034	363	<1	8.9	<0.1	63	0.9	46	11
A0027-7035	78	<1	16.4	<0.1	28	0.6	33	21
A0027-7036	104	<1	40.9	<0.1	31	<0.5	47	64
A0027-7037	613	<1	7.1	<0.1	366	<0.5	130	16
A0027-7038	219	<1	7.6	<0.1	44	0.6	33	10
A0027-7039	193	<1	22.7	<0.1	61	<0.5	41	31
A0027-7040	184	<1	19.6	<0.1	48	0.6	39	31

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	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	5 ppb	1 ppb	0.5 ppb	0.1 ppb	1 ppb	0.5 ppb	5 ppb	1 ppb
A0027-7041	71	<1	9.0	<0.1	46	0.8	27	11
A0027-7042	695	<1	9.0	<0.1	193	<0.5	67	19
A0027-7043	377	<1	3.1	<0.1	85	<0.5	39	5
A0027-7044	229	<1	10.2	<0.1	28	0.6	42	13
A0027-7045	84	<1	7.6	<0.1	13	0.7	41	11
A0027-7046	1740	<1	5.1	<0.1	56	2.7	55	8
A0027-7047	171	<1	22.4	<0.1	39	<0.5	94	32
A0027-7048	279	<1	12.6	<0.1	67	1.2	56	19
A0027-7049	188	<1	17.0	<0.1	25	0.5	36	20
A0027-7050	372	<1	12.6	<0.1	74	1.9	65	19
A0027-7051	244	<1	10.4	<0.1	49	0.8	30	14
A0027-7052	188	<1	8.2	<0.1	22	<0.5	32	11
A0027-7053	314	<1	10.5	<0.1	33	<0.5	33	16
A0027-7054	105	<1	6.7	<0.1	24	0.8	32	10
A0027-7055	190	<1	18.4	<0.1	63	<0.5	32	26
A0027-7056	77	<1	25.0	<0.1	29	<0.5	33	33
A0027-7057	255	<1	9.7	<0.1	24	<0.5	33	13
A0027-7058	70	<1	6.1	<0.1	17	0.5	47	9
A0027-7059	110	<1	69.5	<0.1	34	0.6	63	79
A0027-7060	117	<1	14.8	<0.1	14	0.8	35	20
A0027-7061	95	<1	15.2	<0.1	73	0.7	72	24
A0027-7062	2130	<1	151	<0.1	23	1.8	381	240
A0027-7063	64	<1	28.7	<0.1	94	1.5	46	28
A0027-7064	121	<1	6.2	<0.1	109	1.0	46	9
A0027-7065	247	<1	4.2	<0.1	35	<0.5	79	8
A0027-7066	140	<1	193	<0.1	24	0.6	166	245
A0027-7067	641	<1	4.5	<0.1	55	1.1	50	6
A0027-7068	565	<1	12.5	<0.1	108	1.6	43	15
A0027-7069	104	<1	1.3	<0.1	116	<0.5	32	2
A0027-7070	418	<1	55.0	<0.1	45	1.2	114	75
A0027-7071	229	<1	8.7	<0.1	51	0.9	35	11
A0027-7072	122	<1	8.8	<0.1	474	0.8	13	10
A0027-7073	271	<1	14.9	<0.1	71	0.6	44	21
A0027-7074	443	<1	56.5	<0.1	39	0.7	94	77
A0027-7075	168	<1	18.7	<0.1	41	<0.5	77	26
A0027-7076	115	<1	11.7	<0.1	33	1.4	45	13
A0027-7077	294	<1	15.1	<0.1	65	<0.5	34	18
A0027-7078	181	<1	29.8	<0.1	315	0.9	155	64
A0027-7079	125	<1	6.8	<0.1	57	<0.5	62	10
A0027-7080	134	<1	11.8	<0.1	82	<0.5	29	16

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	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	5 ppb	1 ppb	0.5 ppb	0.1 ppb	1 ppb	0.5 ppb	5 ppb	1 ppb
A0027-7081	119	<1	10.7	<0.1	93	1.1	17	12
A0027-7082	406	<1	11.0	<0.1	78	1.6	38	15
A0027-7083	160	<1	10.4	<0.1	36	<0.5	27	15
A0027-7084	141	<1	4.7	<0.1	28	<0.5	27	7
A0027-7085	139	<1	2.5	<0.1	32	<0.5	38	4
A0027-7086	183	<1	17.7	<0.1	45	0.9	25	21
A0027-7087	326	<1	8.5	<0.1	70	0.6	52	12
A0027-7088	96	<1	34.8	<0.1	62	0.6	76	48
A0027-7089	222	<1	7.0	<0.1	48	1.3	22	9
A0027-7090	107	<1	48.2	<0.1	56	<0.5	30	58
A0027-7091	4700	<1	19.3	<0.1	141	0.8	34	25
A0027-7092	94	<1	8.5	<0.1	53	0.6	119	16
A0027-7093	457	<1	14.1	<0.1	67	1.3	88	19
A0027-7094	354	<1	7.4	<0.1	71	0.9	89	11
A0027-7095	418	<1	5.5	<0.1	52	1.5	59	10
A0027-7096	270	<1	7.1	<0.1	32	0.7	24	10
A0027-7097	44	<1	72.1	<0.1	33	1.5	48	81
A0027-7098	209	<1	4.4	<0.1	21	<0.5	26	6
A0027-7099	240	<1	16.6	<0.1	56	0.5	38	22
A0027-7100	146	<1	32.0	<0.1	27	<0.5	50	44
A0027-7101	431	<1	11.5	<0.1	58	1.1	39	16
A0027-7102	190	<1	24.1	<0.1	49	<0.5	37	30
A0027-7103	191	<1	275	<0.1	39	<0.5	80	281
A0027-7104	1420	<1	29.4	<0.1	132	3.8	46	28
A0027-7105	473	<1	22.8	<0.1	72	1.6	34	20
A0027-7106	159	<1	6.2	<0.1	69	1.6	25	5
A0027-7107	303	<1	10.1	<0.1	76	0.8	44	14
A0027-7108	109	<1	35.9	<0.1	37	<0.5	67	38
A0027-7109	272	<1	26.6	<0.1	121	<0.5	42	29
A0027-7110	288	<1	28.8	<0.1	39	<0.5	40	37
A0027-7111	239	<1	87.8	<0.1	13	1.3	58	90
A0027-7112	263	<1	39.6	<0.1	56	<0.5	69	52
A0027-7113	278	<1	55.5	<0.1	63	<0.5	79	59
A0027-7114	259	<1	36.1	<0.1	37	<0.5	45	46
A0027-7115	223	<1	29.9	<0.1	88	<0.5	69	40
A0027-7116	1100	<1	35.3	<0.1	50	3.0	31	28
A0027-7117	234	<1	9.8	<0.1	117	1.0	31	10
A0027-7118	408	<1	17.3	<0.1	77	0.7	36	19
A0027-7119	349	<1	9.7	<0.1	89	1.4	43	11
A0027-7120	286	<1	31.5	<0.1	68	<0.5	65	41

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	5 ppb	1 ppb	0.5 ppb	0.1 ppb	1 ppb	0.5 ppb	5 ppb	1 ppb
A0027-7121	253	<1	68.8	<0.1	42	<0.5	33	72
A0027-7122	241	<1	48.3	<0.1	43	1.0	49	50
A0027-7123	350	<1	24.4	<0.1	42	1.4	39	28
A0027-7124	342	<1	20.7	<0.1	55	2.2	68	26
A0027-7125	621	<1	74.4	<0.1	75	1.6	66	73
A0027-7126	392	<1	71.1	<0.1	31	1.0	50	63
A0027-7127	280	<1	58.3	<0.1	107	5.2	77	47
A0027-7128	337	<1	28.4	<0.1	80	4.7	32	22
A0027-7129	153	<1	69.1	<0.1	77	<0.5	81	83
A0027-7130	150	<1	65.6	<0.1	82	<0.5	56	81
A0027-7131	281	<1	16.4	<0.1	133	1.1	37	16
A0027-7132	276	<1	14.7	<0.1	77	1.1	34	17
A0027-7133	LNR	LNR	LNR	LNR	LNR	LNR	LNR	LNR
*Rep A0027-7020	175	<1	30.8	<0.1	79	0.9	57	42
*Rep A0027-7043	372	<1	3.8	<0.1	89	<0.5	42	6
*Rep A0027-7056	79	<1	25.3	<0.1	32	<0.5	33	35
*Rep A0027-7065	261	<1	4.4	<0.1	33	0.6	79	8
*Rep A0027-7081	126	<1	11.1	<0.1	91	1.1	17	13
*Rep A0027-7091	4200	<1	20.7	<0.1	140	0.8	35	28
*Rep A0027-7107	293	<1	9.7	<0.1	81	0.8	43	12
*Rep A0027-7119	374	<1	9.8	<0.1	86	1.3	40	11
*Rep A0027-7130	120	<1	74.0	<0.1	97	<0.5	53	95
*Std MMISRM19	1050	<1	2.3	<0.1	188	0.9	12	8
*Std MMISRM19	1020	<1	2.7	<0.1	197	1.0	13	8
*Std AMIS0169	109	<1	95.5	0.1	228	0.7	55	59
*Std AMIS0169	111	<1	94.8	0.1	245	0.9	56	60
*Blk BLANK	<5	<1	<0.5	<0.1	<1	<0.5	<5	<1
*Blk BLANK	<5	<1	<0.5	<0.1	<1	<0.5	<5	<1
*Blk BLANK	<5	<1	<0.5	<0.1	<1	<0.5	<5	<1
*Blk BLANK	<5	<1	<0.5	<0.1	<1	<0.5	<5	<1

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Element Method Det.Lim. Units	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
	GE_MMI_M 1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.1 ppb
A0027-7001	1	30	<1	5.4	<10	29.5	860	1.1
A0027-7002	2	70	<1	9.6	<10	39.8	2470	3.6
A0027-7003	<1	60	<1	2.9	<10	5.5	1520	2.4
A0027-7004	<1	10	<1	3.4	<10	7.0	510	1.4
A0027-7005	1	60	<1	2.7	<10	9.6	1720	0.4
A0027-7006	4	20	<1	3.1	<10	17.9	3570	0.5
A0027-7007	<1	<10	<1	1.9	<10	9.2	190	0.5
A0027-7008	14	290	2	2.4	<10	47.8	12800	1.1
A0027-7009	<1	120	<1	2.7	<10	9.4	730	0.9
A0027-7010	<1	170	<1	9.8	<10	15.4	1270	2.3
A0027-7011	<1	20	<1	8.8	<10	18.3	320	1.0
A0027-7012	<1	30	<1	3.5	<10	24.4	720	0.9
A0027-7013	5	30	<1	1.6	<10	9.1	5480	1.2
A0027-7014	<1	100	<1	3.3	<10	13.6	1120	0.4
A0027-7015	<1	20	<1	3.2	<10	12.1	440	0.8
A0027-7016	4	50	<1	2.2	<10	6.2	7290	0.8
A0027-7017	2	50	<1	5.7	<10	17.6	1560	0.7
A0027-7018	<1	90	<1	3.1	<10	14.5	290	0.6
A0027-7019	1	160	<1	3.1	<10	18.2	900	0.7
A0027-7020	<1	<10	<1	8.4	<10	32.1	440	0.6
A0027-7021	2	10	<1	2.9	<10	16.6	2100	0.6
A0027-7022	<1	50	<1	25.7	<10	26.3	920	0.8
A0027-7023	2	140	<1	3.2	<10	9.8	1590	0.7
A0027-7024	2	140	<1	3.9	<10	13.0	1820	0.8
A0027-7025	<1	50	<1	2.8	<10	13.4	840	0.3
A0027-7026	2	40	<1	2.2	<10	3.8	840	0.5
A0027-7027	<1	<10	<1	7.0	<10	8.9	380	0.3
A0027-7028	1	30	<1	2.1	<10	9.2	1220	0.8
A0027-7029	<1	10	<1	6.8	<10	5.1	680	0.8
A0027-7030	<1	10	<1	5.7	<10	16.7	300	1.0
A0027-7031	1	140	<1	5.4	<10	18.7	930	0.6
A0027-7032	2	110	<1	2.1	<10	7.4	1660	0.8
A0027-7033	<1	40	<1	3.7	<10	12.5	1000	1.2
A0027-7034	6	20	1	2.4	<10	11.8	7550	0.7
A0027-7035	<1	50	<1	4.4	<10	18.2	480	0.4
A0027-7036	1	10	<1	11.6	<10	29.4	1290	0.4
A0027-7037	1	40	<1	4.8	<10	8.7	740	1.2
A0027-7038	2	70	<1	1.9	<10	11.4	2670	0.6
A0027-7039	<1	20	<1	5.8	<10	11.5	520	1.0
A0027-7040	<1	60	<1	6.1	<10	18.3	610	1.4

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	GE_MMI_M 1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.1 ppb
A0027-7041	<1	90	<1	1.8	<10	6.2	520	1.2
A0027-7042	<1	490	<1	4.8	<10	3.8	600	1.2
A0027-7043	2	150	<1	1.3	<10	5.1	2810	1.0
A0027-7044	1	60	<1	2.8	<10	11.2	1490	1.4
A0027-7045	<1	<10	<1	2.7	<10	18.5	220	0.4
A0027-7046	9	30	<1	2.1	<10	33.6	2820	0.7
A0027-7047	<1	<10	<1	5.4	<10	13.6	700	0.3
A0027-7048	2	40	<1	3.4	<10	24.6	1180	1.4
A0027-7049	1	60	<1	4.0	<10	18.5	1070	0.5
A0027-7050	4	50	<1	3.5	<10	20.8	4300	1.3
A0027-7051	2	60	<1	3.1	<10	9.7	1950	0.8
A0027-7052	<1	10	<1	2.8	<10	9.9	230	0.4
A0027-7053	1	60	<1	4.6	<10	7.5	420	1.1
A0027-7054	<1	30	<1	2.4	<10	14.8	390	0.4
A0027-7055	<1	30	<1	4.9	<10	17.1	330	0.8
A0027-7056	<1	30	<1	5.8	<10	26.7	740	0.7
A0027-7057	<1	<10	<1	3.1	<10	14.9	440	0.6
A0027-7058	<1	10	<1	2.1	<10	8.5	500	0.5
A0027-7059	<1	<10	<1	11.4	<10	48.3	890	0.8
A0027-7060	<1	<10	<1	4.1	<10	14.6	240	0.9
A0027-7061	1	30	<1	3.7	<10	13.1	1710	1.9
A0027-7062	<1	90	<1	49.9	<10	11.7	340	1.5
A0027-7063	2	150	<1	4.6	<10	40.7	1930	3.5
A0027-7064	<1	100	<1	1.8	<10	9.8	920	1.9
A0027-7065	<1	60	<1	2.6	<10	4.4	1400	0.6
A0027-7066	<1	10	<1	36.0	<10	40.7	950	0.5
A0027-7067	1	30	<1	1.6	<10	7.9	780	1.3
A0027-7068	5	30	<1	2.8	<10	27.9	2280	1.4
A0027-7069	<1	760	<1	0.5	<10	2.5	70	7.1
A0027-7070	1	50	<1	13.1	<10	24.8	1200	2.5
A0027-7071	1	40	<1	2.3	<10	8.3	890	1.6
A0027-7072	3	190	<1	1.5	<10	15.1	1370	2.5
A0027-7073	<1	<10	<1	5.2	<10	11.6	280	1.0
A0027-7074	<1	<10	<1	15.7	<10	18.6	380	0.5
A0027-7075	<1	<10	<1	6.4	<10	30.5	960	0.3
A0027-7076	12	70	2	2.4	<10	21.5	14200	0.5
A0027-7077	<1	20	<1	3.8	<10	25.5	620	0.8
A0027-7078	<1	100	<1	15.0	<10	12.9	700	3.1
A0027-7079	<1	20	<1	2.3	<10	5.8	650	0.9
A0027-7080	<1	20	<1	3.5	<10	23.1	400	0.7

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	GE_MMI_M 1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.1 ppb
A0027-7081	<1	90	<1	2.5	<10	17.9	490	1.4
A0027-7082	1	110	<1	3.1	<10	19.9	690	1.1
A0027-7083	<1	20	<1	3.5	<10	14.7	290	0.7
A0027-7084	<1	<10	<1	1.7	<10	1.1	120	0.4
A0027-7085	<1	60	<1	1.4	<10	3.0	450	1.0
A0027-7086	<1	20	<1	4.2	<10	33.9	670	0.7
A0027-7087	<1	<10	<1	2.8	<10	20.9	750	1.4
A0027-7088	1	60	<1	8.9	<10	27.3	1640	1.2
A0027-7089	<1	20	<1	2.5	<10	26.1	400	0.9
A0027-7090	<1	90	<1	10.2	<10	27.9	980	1.6
A0027-7091	2	150	<1	5.8	<10	29.0	590	1.6
A0027-7092	<1	<10	<1	3.8	<10	5.3	1340	1.7
A0027-7093	5	30	<1	3.8	<10	24.8	4920	1.8
A0027-7094	<1	<10	<1	3.2	<10	10.8	890	1.3
A0027-7095	<1	<10	<1	2.4	<10	16.6	840	0.7
A0027-7096	<1	30	<1	2.7	<10	6.0	450	0.6
A0027-7097	<1	50	<1	11.7	<10	27.7	520	0.5
A0027-7098	<1	100	<1	1.6	<10	5.3	520	0.3
A0027-7099	1	50	<1	4.7	<10	29.5	1290	0.5
A0027-7100	<1	<10	<1	8.0	<10	32.5	1250	0.8
A0027-7101	<1	30	<1	3.3	<10	15.2	680	1.6
A0027-7102	<1	<10	<1	6.6	<10	53.5	450	1.0
A0027-7103	<1	10	<1	35.5	<10	82.7	1370	1.1
A0027-7104	9	60	1	4.2	<10	93.7	7370	1.3
A0027-7105	5	60	<1	3.0	<10	178	2610	0.7
A0027-7106	4	30	<1	0.9	<10	32.2	4110	0.5
A0027-7107	2	50	<1	3.1	<10	18.9	2340	0.5
A0027-7108	<1	<10	<1	7.2	<10	49.9	270	0.3
A0027-7109	2	<10	<1	4.8	<10	43.6	3620	0.3
A0027-7110	<1	<10	<1	6.3	<10	8.8	950	0.4
A0027-7111	3	10	<1	12.1	<10	55.6	3530	0.8
A0027-7112	<1	30	<1	10.4	<10	24.5	870	0.3
A0027-7113	<1	<10	<1	9.9	<10	37.4	520	0.5
A0027-7114	<1	<10	<1	7.8	<10	20.7	240	0.4
A0027-7115	<1	<10	<1	6.8	<10	20.6	300	0.2
A0027-7116	6	20	<1	4.3	<10	121	4110	1.2
A0027-7117	2	<10	<1	1.7	<10	52.7	2360	0.6
A0027-7118	1	<10	<1	3.4	<10	37.5	1630	0.5
A0027-7119	1	<10	<1	2.4	<10	18.1	1250	1.0
A0027-7120	<1	<10	<1	6.6	<10	30.4	630	0.5

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	GE_MMI_M 1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.1 ppb
A0027-7121	<1	<10	<1	10.0	<10	19.2	590	0.4
A0027-7122	<1	<10	<1	9.6	<10	24.0	370	0.7
A0027-7123	<1	<10	<1	4.7	<10	52.7	990	0.3
A0027-7124	3	<10	<1	4.8	<10	51.5	2580	0.3
A0027-7125	1	<10	<1	11.3	<10	71.7	1310	0.6
A0027-7126	<1	10	<1	10.8	<10	37.0	220	0.3
A0027-7127	24	100	4	6.1	<10	80.7	22500	2.4
A0027-7128	11	80	1	2.8	<10	24.6	6640	2.6
A0027-7129	<1	90	<1	15.4	<10	31.6	1350	0.7
A0027-7130	<1	20	<1	14.0	<10	16.3	90	0.5
A0027-7131	3	40	<1	2.9	<10	50.0	2990	1.0
A0027-7132	<1	20	<1	3.7	<10	25.7	1080	1.0
A0027-7133	LNR	LNR	LNR	LNR	LNR	LNR	LNR	LNR
*Rep A0027-7020	<1	<10	<1	7.9	<10	28.9	400	0.6
*Rep A0027-7043	2	150	<1	1.4	<10	6.1	3610	1.1
*Rep A0027-7056	<1	30	<1	5.7	<10	28.1	720	0.6
*Rep A0027-7065	<1	50	<1	2.6	<10	4.7	1160	0.5
*Rep A0027-7081	<1	80	<1	2.3	<10	18.1	480	1.4
*Rep A0027-7091	2	140	<1	6.0	<10	28.2	620	1.8
*Rep A0027-7107	2	60	<1	2.9	<10	19.2	2270	0.5
*Rep A0027-7119	1	<10	<1	2.5	<10	16.8	1440	0.9
*Rep A0027-7130	<1	20	<1	15.4	<10	14.9	40	0.6
*Std MMISRM19	<1	2990	<1	2.0	<10	17.5	<10	0.9
*Std MMISRM19	<1	2990	<1	2.0	<10	18.3	20	0.9
*Std AMIS0169	<1	80	<1	5.4	<10	72.9	360	1.4
*Std AMIS0169	<1	70	<1	5.4	<10	69.7	380	1.2
*Blk BLANK	<1	<10	<1	<0.1	<10	<0.5	<10	<0.1
*Blk BLANK	<1	<10	<1	<0.1	<10	<0.5	<10	<0.1
*Blk BLANK	<1	<10	<1	<0.1	<10	<0.5	<10	<0.1
*Blk BLANK	<1	<10	<1	<0.1	<10	<0.5	<10	<0.1

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	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5 ppb	0.5 ppb	1 ppb	0.2 ppb	10 ppb	2 ppb
A0027-7001	15.9	0.7	174	14.9	1150	26
A0027-7002	26.6	12.5	268	32.3	360	36
A0027-7003	5.7	1.3	89	6.8	590	11
A0027-7004	6.1	<0.5	118	10.1	310	12
A0027-7005	4.0	<0.5	104	10.4	1140	17
A0027-7006	6.6	1.5	108	14.3	810	36
A0027-7007	6.0	<0.5	77	7.3	910	14
A0027-7008	12.6	2.0	67	6.3	4290	39
A0027-7009	8.4	<0.5	81	6.9	430	13
A0027-7010	11.7	9.0	378	35.3	710	12
A0027-7011	20.6	0.8	272	27.2	180	15
A0027-7012	14.0	<0.5	103	9.6	290	24
A0027-7013	6.2	2.5	57	7.5	530	32
A0027-7014	8.2	<0.5	101	9.8	90	19
A0027-7015	9.1	<0.5	112	9.7	1500	14
A0027-7016	4.5	0.8	93	11.4	2990	32
A0027-7017	12.0	0.7	174	17.1	1050	22
A0027-7018	7.7	<0.5	107	11.9	1000	12
A0027-7019	7.9	0.9	114	10.7	1230	11
A0027-7020	23.4	<0.5	289	31.0	1820	34
A0027-7021	7.4	0.7	103	12.9	640	22
A0027-7022	25.7	0.7	822	51.1	390	20
A0027-7023	6.0	0.8	123	13.2	4210	11
A0027-7024	9.2	0.7	142	13.3	8500	19
A0027-7025	7.2	<0.5	88	8.9	580	22
A0027-7026	3.1	<0.5	127	17.5	4350	10
A0027-7027	8.7	<0.5	263	24.0	240	12
A0027-7028	5.2	0.6	69	7.6	640	19
A0027-7029	9.3	<0.5	280	22.9	510	12
A0027-7030	11.4	<0.5	172	16.2	230	19
A0027-7031	11.8	<0.5	148	15.4	590	20
A0027-7032	6.2	0.7	77	7.3	2330	20
A0027-7033	6.5	0.6	140	12.1	1770	15
A0027-7034	6.8	1.4	98	10.6	4730	34
A0027-7035	10.8	<0.5	140	13.1	380	17
A0027-7036	23.9	<0.5	315	36.0	70	28
A0027-7037	5.1	<0.5	192	22.9	1420	17
A0027-7038	6.1	1.0	66	5.4	960	18
A0027-7039	10.2	1.5	186	14.8	90	11
A0027-7040	10.4	2.8	122	12.3	400	12

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Element Method Det.Lim. Units	U	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5 ppb	0.5 ppb	1 ppb	0.2 ppb	10 ppb	2 ppb
A0027-7041	7.8	0.6	81	7.1	340	8
A0027-7042	6.0	<0.5	210	16.8	1540	3
A0027-7043	2.5	<0.5	48	4.5	2420	10
A0027-7044	8.1	1.2	101	10.0	3630	21
A0027-7045	10.8	<0.5	63	7.5	530	18
A0027-7046	10.8	1.8	91	14.7	5760	44
A0027-7047	13.3	0.6	152	15.9	350	25
A0027-7048	13.6	0.9	95	10.8	1840	31
A0027-7049	10.5	0.5	139	12.9	940	22
A0027-7050	10.1	0.9	112	13.2	1770	30
A0027-7051	7.3	0.6	114	10.5	1900	20
A0027-7052	9.7	<0.5	100	9.0	890	12
A0027-7053	7.3	<0.5	191	17.8	5500	9
A0027-7054	12.7	0.8	67	7.5	3230	13
A0027-7055	13.5	1.0	169	14.5	580	14
A0027-7056	19.0	0.6	140	13.2	200	23
A0027-7057	8.8	<0.5	104	9.9	1180	18
A0027-7058	9.4	1.0	80	9.3	210	10
A0027-7059	26.8	0.6	287	28.6	700	39
A0027-7060	12.8	0.7	129	11.7	400	16
A0027-7061	9.5	56.0	99	9.0	440	25
A0027-7062	12.4	7.2	1830	138	3510	23
A0027-7063	35.1	7.4	164	16.6	270	14
A0027-7064	7.0	0.6	47	4.7	2020	16
A0027-7065	5.0	1.1	115	11.0	5530	13
A0027-7066	24.3	1.9	1370	134	140	36
A0027-7067	4.7	3.8	56	6.6	6150	15
A0027-7068	11.6	2.0	91	11.3	3320	31
A0027-7069	5.4	<0.5	24	2.2	420	7
A0027-7070	17.0	<0.5	456	46.5	2240	22
A0027-7071	5.3	0.9	75	6.5	2810	14
A0027-7072	6.3	0.7	44	4.0	3070	18
A0027-7073	13.8	<0.5	157	15.5	750	12
A0027-7074	23.2	<0.5	415	45.2	610	23
A0027-7075	23.4	<0.5	213	21.0	290	21
A0027-7076	8.2	3.4	66	7.6	1210	44
A0027-7077	14.2	<0.5	138	15.1	1000	23
A0027-7078	18.4	0.5	773	70.9	450	15
A0027-7079	4.2	<0.5	81	8.5	2050	14
A0027-7080	13.8	<0.5	122	13.1	860	20

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Element Method Det.Lim. Units	U	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5 ppb	0.5 ppb	1 ppb	0.2 ppb	10 ppb	2 ppb
A0027-7081	9.6	<0.5	61	5.5	1090	19
A0027-7082	12.6	0.9	96	8.6	4950	19
A0027-7083	10.3	<0.5	116	9.8	550	14
A0027-7084	1.5	<0.5	89	8.0	390	2
A0027-7085	7.1	1.5	58	5.2	590	5
A0027-7086	16.1	0.6	110	10.9	990	25
A0027-7087	11.7	0.8	111	13.5	600	26
A0027-7088	47.3	0.8	242	23.5	700	26
A0027-7089	14.6	<0.5	83	10.0	5890	22
A0027-7090	25.2	0.7	220	16.7	330	16
A0027-7091	14.5	1.0	199	18.2	4470	18
A0027-7092	7.3	0.6	122	10.8	310	16
A0027-7093	11.6	2.6	121	14.3	1310	38
A0027-7094	10.0	0.8	141	18.4	1550	20
A0027-7095	10.9	0.6	87	13.4	1030	20
A0027-7096	6.0	<0.5	93	8.6	1060	10
A0027-7097	20.9	0.6	342	26.6	270	27
A0027-7098	5.0	0.7	58	4.9	370	10
A0027-7099	12.8	0.6	167	17.2	530	31
A0027-7100	21.6	1.0	254	25.3	300	41
A0027-7101	9.6	0.5	121	11.2	910	24
A0027-7102	22.5	0.5	200	19.3	2330	21
A0027-7103	61.3	0.9	984	55.9	190	41
A0027-7104	19.7	2.8	114	13.1	1260	86
A0027-7105	13.2	1.3	82	8.0	3070	61
A0027-7106	12.4	0.9	29	5.5	720	24
A0027-7107	8.8	0.6	100	12.1	3860	33
A0027-7108	37.9	<0.5	170	23.3	540	40
A0027-7109	15.1	0.8	120	10.8	120	39
A0027-7110	10.3	<0.5	257	25.1	890	14
A0027-7111	32.3	1.7	285	22.7	570	56
A0027-7112	22.9	<0.5	261	21.6	100	25
A0027-7113	40.0	<0.5	337	29.2	550	33
A0027-7114	21.7	<0.5	276	24.1	890	16
A0027-7115	14.9	<0.5	208	25.4	420	24
A0027-7116	22.8	1.3	97	8.0	800	31
A0027-7117	9.3	0.6	54	7.7	750	32
A0027-7118	14.4	<0.5	91	8.7	1160	27
A0027-7119	9.3	<0.5	105	13.3	650	32
A0027-7120	17.7	<0.5	182	20.3	780	30

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Element Method Det.Lim. Units	U	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	0.5	1	0.2	10	2
	ppb	ppb	ppb	ppb	ppb	ppb
A0027-7121	31.1	<0.5	341	21.8	310	13
A0027-7122	15.6	<0.5	315	26.9	1020	19
A0027-7123	21.0	<0.5	118	11.7	1080	37
A0027-7124	19.6	1.0	131	16.3	550	58
A0027-7125	35.1	0.8	324	27.0	760	52
A0027-7126	23.7	<0.5	386	31.6	680	24
A0027-7127	41.0	7.6	148	12.8	690	102
A0027-7128	21.1	4.5	82	6.4	280	51
A0027-7129	17.4	<0.5	417	34.5	160	42
A0027-7130	16.1	<0.5	447	39.1	50	13
A0027-7131	13.4	1.2	79	11.0	1230	41
A0027-7132	13.6	1.0	113	12.9	2140	29
A0027-7133	LNR	LNR	LNR	LNR	LNR	LNR
*Rep A0027-7020	20.6	<0.5	295	29.9	1880	30
*Rep A0027-7043	3.0	<0.5	45	4.0	2280	13
*Rep A0027-7056	19.4	0.6	144	13.3	220	24
*Rep A0027-7065	5.3	0.5	117	11.5	4280	12
*Rep A0027-7081	10.0	<0.5	65	6.0	1120	17
*Rep A0027-7091	14.6	1.0	203	16.8	4290	20
*Rep A0027-7107	8.7	0.7	96	11.5	4000	33
*Rep A0027-7119	8.3	<0.5	113	13.9	690	29
*Rep A0027-7130	16.6	<0.5	494	40.5	50	11
*Std MMISRM19	63.7	<0.5	61	5.2	2230	12
*Std MMISRM19	64.5	<0.5	65	5.3	2240	13
*Std AMIS0169	24.9	1.3	112	9.0	180	50
*Std AMIS0169	24.8	1.2	117	8.7	200	48
*Blk BLANK	<0.5	<0.5	<1	<0.2	<10	<2
*Blk BLANK	<0.5	<0.5	<1	<0.2	<10	<2
*Blk BLANK	<0.5	<0.5	<1	<0.2	<10	<2
*Blk BLANK	<0.5	<0.5	<1	<0.2	<10	<2

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Project Expense Summary

Period: Nov 17, 2017- Jan 15, 2018

Consultant: Dev on Geological / Garry K Smith, P.Geo

Union Glory MMI Survey

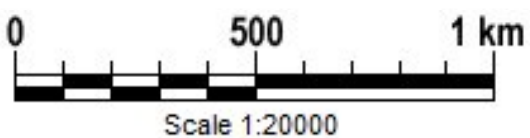
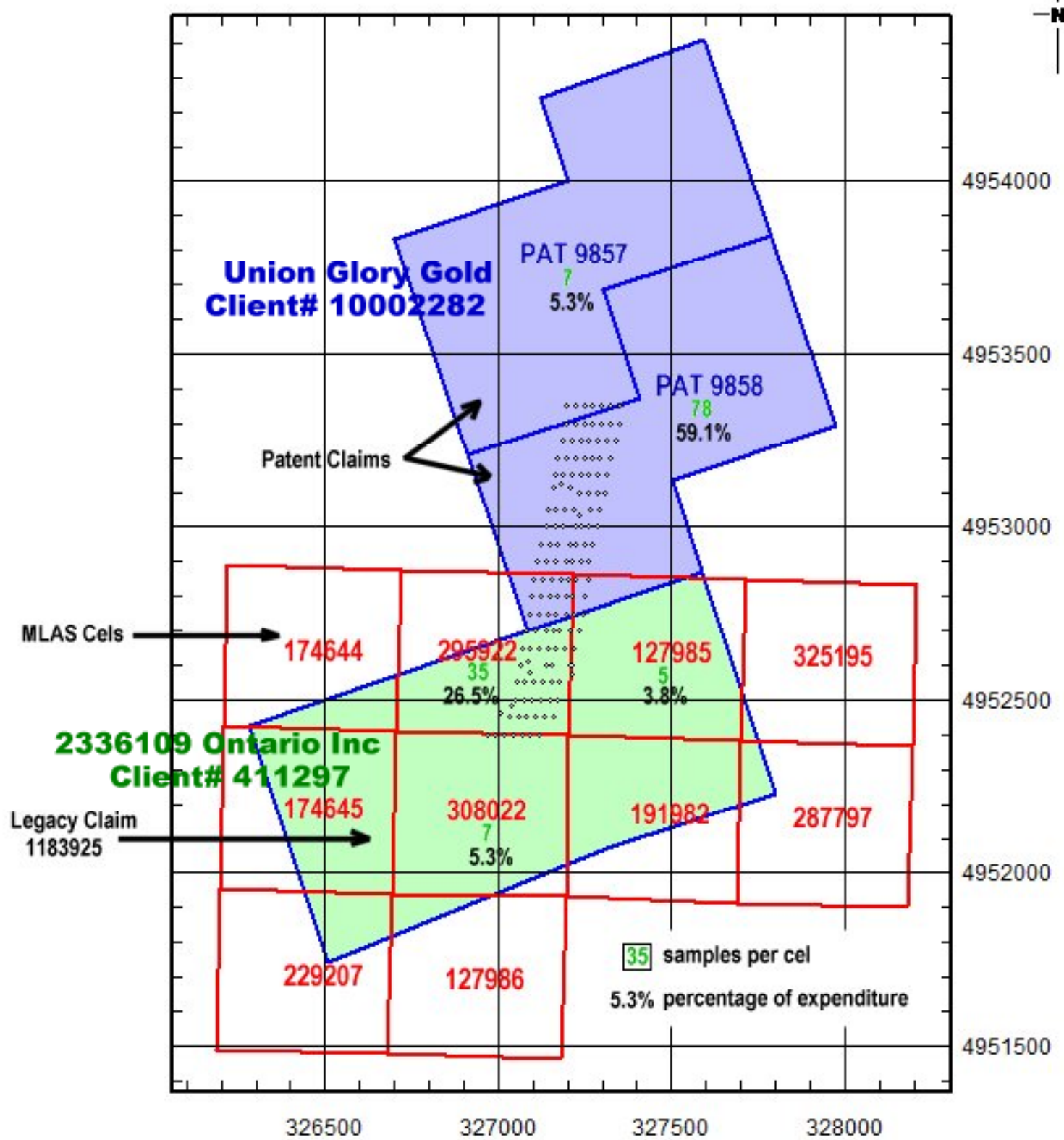
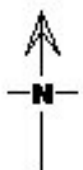
Invoice	Transportation		Lodging	Field Costs				Wages	CDN\$	HST	CDN\$ Total
	Fares	Vehicle	Lodging	Supplies	Assaying	Rentals	Shipping	Fees			
2017 UGG-21		135.65	994.36			325.00	4.80	7,350.00	8,809.81	1,134.21	9,944.02
2018 UGG-01					4,709.76			3,000.00	7,709.76	1,002.27	8,712.03
TOTAL	0.00	135.65	994.36	0.00	4,709.76	325.00	4.80	10,350.00	16,519.57	2,136.48	18,656.05

Expenses 16,519.57
 TOTAL HST 2,136.48
 TOTAL EXPENSES 18,656.05

Claimed Assessment expenses, before HST, are \$16,520

Claim	Owner	Client#	% of samples	\$ per claim	
PAT 9857	Patent Union Glory Gold Corporation	10002282	5.30	876	
PAT 9858	Patent Union Glory Gold Corporation	10002282	59.10	9,763	doner claim
				<u>10,639</u>	

						Work due plus 5 yrs	Distribution	Bank
127985	Cel	2336109 Ontario Inc.	411297	3.80	628	1,200	572	
127986	Cel	2336109 Ontario Inc.	411297	0.00	0	1,200	1,200	
174644	Cel	2336109 Ontario Inc.	411297	0.00	0	1,200	1,200	
174645	Cel	2336109 Ontario Inc.	411297	0.00	0	1,200	1,200	
191982	Cel	2336109 Ontario Inc.	411297	0.00	0	1,200	1,200	
229207	Cel	2336109 Ontario Inc.	411297	0.00	0	1,200	1,200	
287797	Cel	2336109 Ontario Inc.	411297	0.00	0	1,200	1,200	
295922	Cel	2336109 Ontario Inc.	411297	26.50	4,378	1,200	0	3,178
308022	Cel	2336109 Ontario Inc.	411297	5.30	876	1,200	324	
325195	Cel	2336109 Ontario Inc.	411297	0.00	0	1,200	1,200	
				<u>100.00</u>	<u>5,881</u>	<u>12,000</u>	<u>9,297</u>	



**Assessment Work
as percentage of
samples per cel**