# BC Geological Survey Assessment Report 30488

Assessment Report

for the

# **Tillicum Property**

#### 2008 Soils

Slocan Mining Division B.C.G.S. 082 F092 and 082K002 Latitude 49° 59' 29" N, Longitude 117° 43' 31" W

for

AMT Industries Canada Inc. Rt. 1, Box 1092, Fairfield, ID 83327

Submitted by:

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Submitted: December, 2008

#### SUMMARY

The 2008 soil program was undertaken as an initial geochemical evaluation of the Tillicum property by AMT Industries Canada Inc. (hereafter referred to as "AMT"). The property has been the locus of a considerable amount of exploratory work since its initial acquisition in 1960 by local prospectors Arnie and Elaine Gustafson.

The Tillicum property consists of 11 MTO Mineral Tenures, comprising 3,552 ha (8,777 acres), located east of the village of Burton and east of Lower Arrow Lake in southeast British Columbia.(Fig. 1 to 3). The property can be accessed using Highway 6 to Burton, then east along the Caribou Creek Forest Service Road to Londonderry Creek. The property covers the height of land between Caribou and Snow Creeks, northwest of Valhalla Provincial Park, including Tillicum Mountain, Golden Hope Peak, Grey Wolf Mountain, Hailstorm Peak and Hailstorm Ridge.

The property is underlain by metasediments of the Triassic Milford Group on the south and east portion of the property. The Milford Group is host to the silver mineralization documented on the property. The Milford Group is overlain by the Lower Jurassic Rossland Groupp, comprised metamorphosed metamorphosed metamorphosed massive basaltic - andesitic flows with interbedded and overlying mafic tuffs and shales correlated to the Elise Formation.

The predominantly volcanic to volcaniclastic lithologies were subsequently intruded by intrusive quartz monzonite, granodiorite and quartz diorites lithologies of the Cretaceous Goat Canyon and Halifax Creek stocks.

Subsequent deformation has divided the property into a number of fault bounded blocks. Most faults are interpreted to have minor displacement, however, several are interpreted to have more significant offsets.

Gold and/or silver mineralization occurs in shear and fracture related, calc-silicate, quartz skarns developed in metasedimentary and metavolcanic rocks of both the Milford and Rossland Groups adjacent to or in close proximity to quartz monzodiorite porphyry sills. These skarns are divisible into gold-rich and silver rich types.

A total of 97 soil samples were taken with stations every 25 metres on 7 short sample lines and a single road traverse. Samples were submitted to Acme Analytical Laboratories for processing using the SS80 package and analysis using the Group 1DX package.

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#### **INTRODUCTION**

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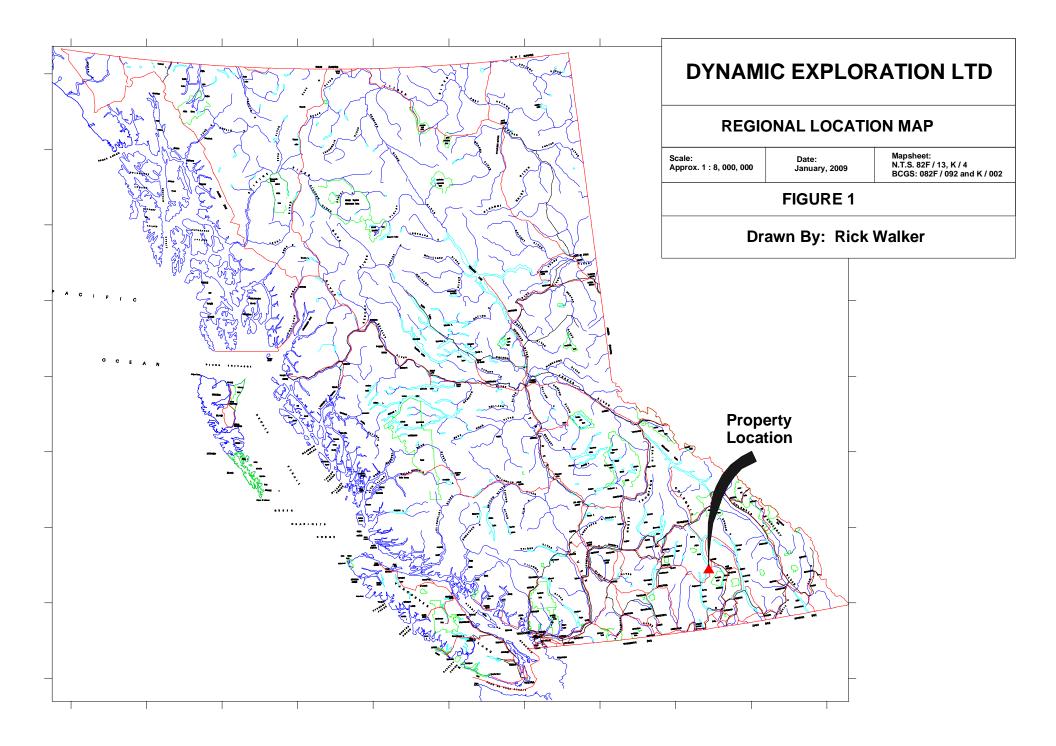
The property is underlain by metasediments of the Triassic Milford Group on the south and east portion of the property (Fig. 4b). The Milford Group is host to the silver mineralization documented on the property. The Milford Group is overlain by the Lower Jurassic Rossland Grouyp, comprised metamorphosed measive basaltic - andesitic flows with interbedded and overlying mafic tuffs and shales correlated to the Elise Formation.

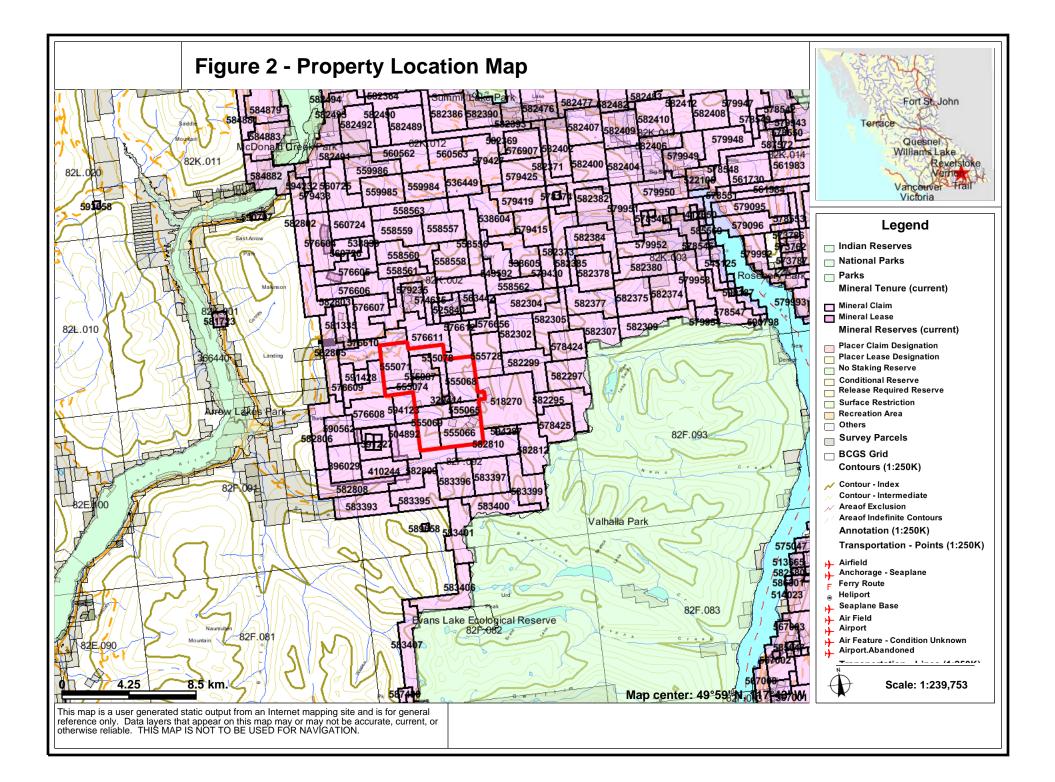
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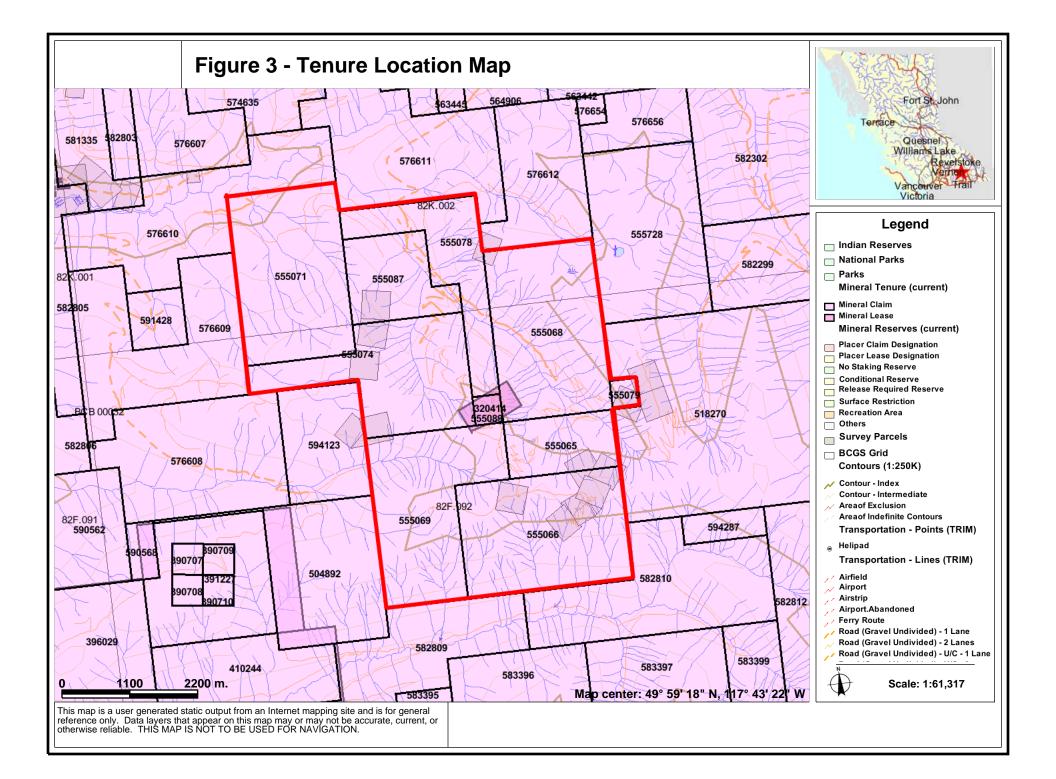
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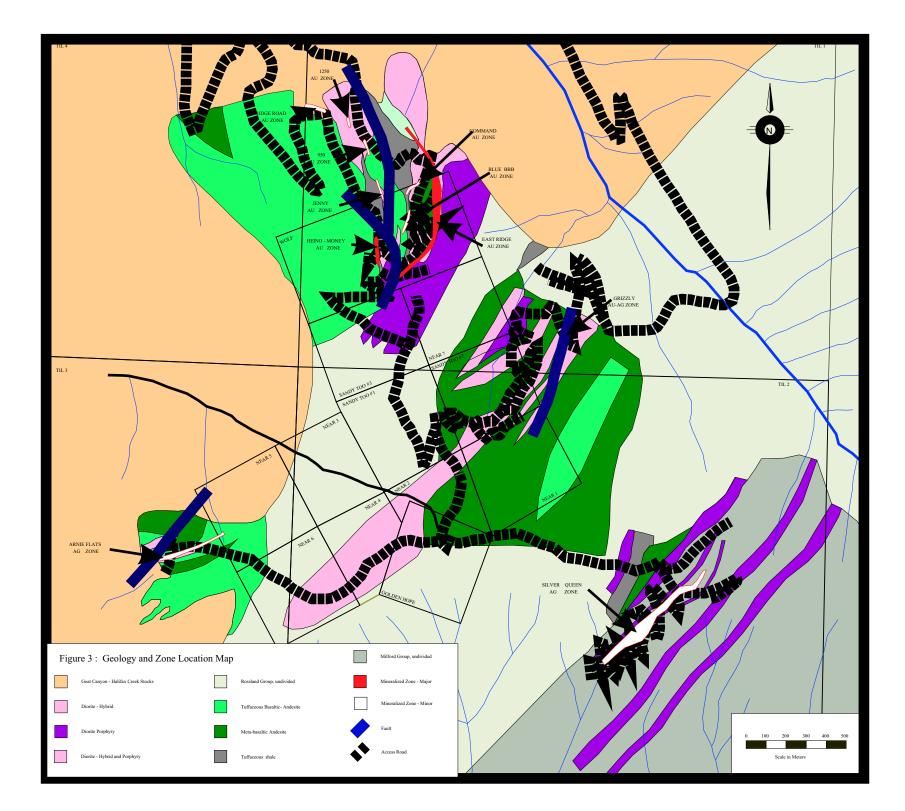
"Gold and/or silver mineralization occurs in shear and fracture related, calc-silicate, quartz skarns developed in metasedimentary and metavolcanic rocks of both the Milford and Rossland Groups adjacent to or in close proximity to quartz monzodiorite porphyry sills. These skarns are divisible into gold-rich and silver rich types" (Dykes 2003).

A total of 97 soil samples were taken with stations every 25 metres on 7 short sample lines and a single road traverse. Samples were submitted to Acme Analytical Laboratories for processing using the SS80 package and analysis using the Group 1DX package.









## LOCATION AND ACCESS

The property is located approximately 12 km east of the village of Burton, east of Lower Arrow Lake in southeastern British Columbia (Fig. 1 to 3). The Tillicum occurrence (Minfile 082FNW234; Fig. 4) is located in the approximate centre of the current Tillicum property, which is currently in good standing. The Silver Queen occurrence (Minfile 082FNW220) is located in the southern portion of the property.

The property is located on NTS mapsheets 082F/13 and 082K/4 (B.C.G.S. mapsheet F092 and 082K002), and is centred approximately at:

UTM: 449291 E, 5537473 N, or Latitude 49° 59' 29" N, Longitude 117° 43' 31" W

The claims can be easily accessed by following Highway 6 to the community of Burton on the east side of Lower Arrow Lake. Follow the Caribou Creek Forest Service Road east out of Burton, staying on the south side of the creek. Turn south onto the Londonderry Creek road approximately 11 km along the Caribou Creek FSR.

The property covers the height of land between Caribou and Snow Creeks, northwest of Valhalla Provincial Park, including Tillicum Mountain, Golden Hope Peak, Grey Wolf Mountain, Hailstorm Peak and Hailstorm Ridge.

There are a number of logging roads in various states of repair that facilitate access to and through the property. The main road is accessible using 2WD whereas many of the other roads are best negotiated using 4WD.

# PHYSIOGRAPHY AND CLIMATE

The property is located east of Lower Arrow Lake (Fig. 2) and is characterized by moderate to high precipitation, resulting moderate to heavy rain during the summer months and heavy snowfall during the winter, particularly at higher elevations. "Total annual precipitation in the main valley is 810 mm with about 280 mm of that in the form of rain between May and September" (Dykes 2003).

Topography on the property ranges from 920 m (3,020 feet) along Caribou Creek to 2283 m (7490 feet) at Golden Hope Peak. The extent to which the property is free of snow and, therefore, available for work programs is highly variable given the high level of relief on the property, with lower elevations free of snow much early and later in the year than the higher elevations. In general, the property is available for work between June and September in most years.

"The main camp is located at an elevation of 200 m. The topography is generally steep and in places, precipitous. Bedrock outcrop is generally restricted to ridge crests and covers approximately 10% of the surface area. Slopes are mostly covered with overburden consisting of talus slopes, snow -avalanche debris tracks and unconsolidated glacial debris. Coniferous forests covers the entire area with the exception of the highest peaks and ridges" (Dykes 2003).

#### **CLAIM STATUS**

The property consist of 11 Mineral Tenure Online (MTO) Mineral Tenures (see Figure 3). Pertinent tenure information has been confirmed using the Ministry of Energy and Mines Mineral Tenure Online web-site and is summarized below:

Tenure	Claim Name	Work Recorded	Status	Area (ha)
Number		To*		
555065	TILLICUM 1	2009/SEP/30	In Good Standing	166.2137
555066	TILLICUM 2	2009/SEP/30	In Good Standing	498.7690
555068	TILLICUM 3	2009/SEP/30	In Good Standing	498.4743
555069	TILLICUM 4	2009/SEP/30	In Good Standing	457.1521
555071	TILLICUM 5	2009/SEP/30	In Good Standing	498.3402
555074	TILLICUM 6	2009/SEP/30	In Good Standing	415.4236
555078	TILLICUM 7	2009/SEP/30	In Good Standing	269.9478
555079	TILLICUM 8	2009/SEP/30	In Good Standing	20.7741
555087	TILLICUM 9	2009/SEP/30	In Good Standing	207.6573
555089	TILLICUM 10	2009/SEP/30	In Good Standing	20.7741
555728	TILLICUM 11	2009/SEP/30	In Good Standing	498.3691
			Total	3551.8953

\* Subject to acceptance of the 2008 Assessment Credits

#### WORK HISTORY

The following has been taken from Dykes (2003):

"The following section has been summarized from various sources including assessment files, internal company reports and BC Government Minfile information. The town of Burton was founded in 1895 as a result of gold mining activity in the area. There are reports of numerous placer operations within the Caribou Creek drainage system during the early 1990's.

During the period 1896 to 1930 several small-scale, hard rock mine workings were active and are found throughout the area. Prospecting was carried out in the Tillicum Mountain area up to 1960, but the source of the placer gold was never identified. In 1980 local prospectors Arnie and Elaine Gustafson discovered gold in what is now known as the Heino-Money Zone, on the north slope of Tillicum Mountain.

Esperanza Explorations Ltd. optioned the property in the fall and 1981 and initiated an exploration program that sparked a district wide staking rush. The Tillicum property covers in excess of 15,00 acres containing 10 known deposits and prospects of gold-silver mineralization.

Early exploration was initially focused on the discovery zone, which later became the Heino-Money Mine. Work consisted of geophysical and geochemical surveys, mapping, trenching, surface drilling, underground drifting and raising, underground drilling and bulk sampling. Exploration work outside of the discovery zone led to the finding of several other significant mineralized zones. These include "East Ridge" and "Grizzly " zones. (Figure 3).

In 1993 Bethlehem Resources Corporation and Goldnev Resources Inc. optioned the property and obtained a permit for an underground mining operation. Mining commenced in mid-August of that year and was completed in late October. A total of 29,009 m (95,150 feet) of surface and 3,865 m (12,677feet) of underground drilling for a total of 376 holes have been completed. In addition, underground development consisting of : 1,374 m(4,507 feet) in the Heino-Money zone and 410 m (1,345 feet) in the East Ridge zone was completed.

Mineral Zone	Years	Drilling	Drilling (surface) Drilling (Underground) Under		Drilling (surface)		Underground Development
		Holes	Meters	Holes	Meters		
Heino_Money	1981 - 87	100	7060	9	177	955 m – 4 levels	
	1988			92	3079	442 m	
	1993			8	284	121 m	
East Ridge	1981-84	26	1586			60m – 2118 xc	
	1988	75	13149	14	610	350 m – 2062 Dr	
	1989	10	1446				
Silver Queen	1984	12	????				

Grizzly	1984	4	615		
Arnie Flats	1984	5	292		

Considering the size of the property and the money spent the amount of drilling is relatively small and concentrated in a single area.

Small scale production occurred in 1981, 1985,1991 and 1993 from the Heino\_Money zone.

Year	Mined Tonnes	Milled Tonnes	Au grams Recovered	Au ounces recovered	Ag grams recovered	Ag ounces recovered
1993	5,503	5,503	102,455	3,294	164,071	5,275
1991			9,207	296		
1985	227	168	48,351	1,554	51,570	1658
1981	58	58	4,539	146	3,267	105
Total	5,788	5,729	164,552	5,290	218,908	7,038

It is important to note that mining was discontinued, as the recovered grades did not match the expected grades from the reserve calculations. The 1993 mining was supposed to mine 17,490 tons (15,874 tonnes) grading 1.002 oz Au/ton (34.28 gms/tonne), however only 6,064 tons (5,503 tonnes) grading 0.543 oz Au/ton (18.61 gms/tonne) were produced. The probable reasons for these discrepancies are discussed later in this report".

In fall 2002, Mustang Minerals Corp sold the company to 1330275 ONTARIO LIMITED which commissioned a comprehensive report emphasizing the sub-surface drill information.

The following has been taken from (Dykes 2003) report:

Data Used in Analysis

All data in the possession of Mustang Minerals has been examined. The data consists of summary reports, surface and underground plans, assay data, sections and drill logs. Additional data is supposed to be in the possession of Mr. George Addie, a geologist who recently worked on the property, however, at this time this has not been examined.

A fairly complete record of all exploration and mining carried out on the property is present with the exception of exploration data for the Silver Queen zone. This data was lost in a landslide at the home of the property vendors. The data however is not indexed and stored in a haphazard manner.

Detailed plans and sections were found for the Heino-Money and East Ridge Zones along with drill log and assay data for the underground workings and the drill holes and surface samples. Gemcom database was also found from the previous compilation work, however, this database had only partial underground workings and several assay problems. Sections and the model created by the Gemcom system were based on connecting up assay values only with no regard for the geology. This is a common practice but quite often leads to erroneous assumptions and conclusions, especially in high grade gold deposits. The Gemcom database had 339 drill holes, 19 trenches with 17,042 drill hole assays, 294 trench assay and 11,706 lithology records. Sections and solid models developed were basically discarded, once an examination of the gold grade distribution was completed.

#### Construction of the Property Database

Rather than use Gemcom to store the project data, maps and sections etc., it was decided to store the data in a more flexible and readily available system. Microsoft Excel (spreadsheet) was selected to storeall the assay and drill hole information, AutoCAD used for all maps, section, plans and 3D images, finally CorelDraw was used for all presentation maps. Data was processed using Geologic Systems proprietary software, which does geological controlled statistical analyses, direct AutoCad drawing files and 3D models. Rendering of the 3D models is done using either AutoCAD or 3D studio. All these are well supported and easily obtained commercial software programs.

Having analyzed all available data, compilation of the data began with data entry and confirmation of the drill hole database including assays, lithologies, drill hole surveys and collars. Underground workings, mining and geology missing from the Gemcom database were electronically scanned. All data and maps were checked to ensure reliability. The resulting database consists of several Excel files and AutoCAD drawings and 3D models. Appendix A has a complete list of all files included with this assessment report.

Interpretation and Results of Data Compilation.

The results of the analysis and compilation appear to shed light on the problems encountered during exploration and development of the property. In addition the tremendous potential of this property is readily apparent. Once the very high grade narrow vein of the Heino-Money zone was identified, exploration and development of the property was concentrated on following and finding more of this type of mineralization, other styles of lower grade were noted but explored only for very high grade (> 1 oz Au/ton) mineralization. Very little work was done in trying to understand the large scale picture, the overall regional metal zoning,

geological and structural patterns were never fully understood. As a result only a fraction of the property has been explored.

## **GENERAL GEOLOGY**

The Tillicum Mountain Gold Property covers a portion of a roof pendant situated at the northwest end of a 250 kilometer long arcuate belt of Rossland Group volcanics. This belt is host to several gold mines and prospects with recorded production in excess of 4 million ounces of gold.

The property is underlain by a sequence of Pennsylvanian to Triassic Milford Group volcanosedimentary siltstone, arkosic sandstone and wacke overlain by Lower Jurassic Rossland Group basaltic-andesite flows and tuffaceous siltstones.

Three episodes of intrusion are recognized within the area. The first consists of swarms of dioritic sills of uncertain age, the second is the large-scale Cretaceous monzonitic stocks and the third are swarms of Lamprophyre dykes that cut all rocks. Gold and silver mineralization occurs in shear related calc-silicate quartz skarns, developed in metavolcanic and metasedimentary rocks of both the Milford and Rossland Groups, adjacent to or in close proximity to these stocks and sills.

The metamorphic grade throughout the region is generally sillimanite facies, however the grade is lower around Tillicum Mountain with biotite, muscovite, chlorite and amphibole the main metamorphic minerals.

# PROPERTY GEOLOGY

Pennsylvanian to Triassic Milford Group forms the base of the stratigraphic succession on the property. It consists of siltstones, quartzites and limey sediments that have been regionally metamorphosed to hornfels, schists and gneisses (figure 3). The Milford Succession underlies much of the south and eastern portion of the claims and is host for the stratabound silver mineralization at the Silver Queen zone.

The Milford group units are overlain by metamorphosed and volcanoclastic rocks that are correlated to the Elise Formation of the Lower Jurassic Rossland Group. In the Tillicum

Mountain area, the Elise Formation is comprised of massive basaltic-andesite flows, which are both overlain by and locally interbedded with mafic tuff and shale. The Elise Formation can be further divided into massive flows, breccia and tuffs of the Lower Elise Formation, which are overlain by pyroclastic, epiclastic and minor flows of the Upper Elise Formation. Metavolcanics of the Lower Elise Formation consisting of pillow flows, agglomerates and breccias are found on the west and north slopes of Tillicum Mountain with an estimated thickness varying to 200 meter feet. It appears that the largest exposure of basaltic andesite is overlain by a sequence of tuffaceous sediments interbedded with up to 20 meter thick flows of basaltic andesite. The Upper Elise Formation consists of intercalated tuffaceous volcanic cycles along with clastic sedimentation that includes recognizable units of epiclastics, tuffaceous siltstone, lapilli tuff, ash flow tuffs and shaly siltstone. This formation, which is exposed throughout the property, is best exposed on the north slope of Tillicum Mountain where the apparent thickness has been measured in excess of 250 meters.

Porphyritic dykes and sills, up to 200 meters thick intrude the Milford-Rossland Group succession. These intrusives pre-date the Cretaceous stocks and occur in northeast trending belts that host all known gold and silver skarn mineralized zones. Composition of these porphyry rocks varies from quartz monzodiorite at Tillicum Mountain to quartz monzonite at Hailstorm Ridge. The intrusive bodies have cores with medium grained packed porphyritic texture grading to fine grained and granular margins. Intense alteration and recrystallization of the sedimentary units adjacent to larger porphyry bodies has produced a dioritized unit unique to the district (Devlin and Robert's 1989).

The Cretaceous-age Goat Canyon and Halifax Creek stocks are intrusive into all the above mentioned units and postdate regional greenschist metamorphism. The stocks are compositionally similar and consist of fine to medium grained, hypidiomorphic granular quartz monzonite, granodiorite and quartz diorite with contaminated border phases of monzonite and diorite.

The youngest rocks on the property are narrow (less than 4 meter), north trending, steeply dipping lamprophyre dykes. Although present throughout the property, these dykes are concentrated in two swarms that cross through the East Ridge and Heino-Money gold zones. They are probably Tertiary in age.

Faulting on the property is dominated by moderate to steep angle, normal and reverse structures. Most faults have minor offsets, however several faults with large displacements segment the property into fault bounded blocks. Within the fault bounded blocks little evidence of folding exists. The metamorphic fabric of the rock closely parallels the bedding planes with minor or parasitic folding only very rarely observed. Further details on the property geology and the skarns are available in several publications, including those by Ray, McClintock and Roberts (1985) and Ettinger and Ray (1989).

#### **MINERALIZATION**

Gold and/or silver mineralization occurs in shear and fracture related, calc-silicate, quartz skarns developed in metasedimentary and metavolcanic rocks of both the Milford and Rossland Groups adjacent to or in close proximity to quartz monzodiorite porphyry sills. These skarns are divisible into gold-rich and silver rich types. In fact Addie (1997) noted a semi-circular regional geochemical pattern centered on Tillicum Mountain, consisting of an outer anomalous molybdenum zone grading inward to higher silver values followed by gold. The skarn mineralization appears to follow this pattern.

Skarn assemblages consist of quartz, plagioclase, sericite, tremolite-actinolite, clinozoisite, garnet, biotite and microcline. High grade "bonanza type" gold ore shoots are hosted within quartz-actinolite-chlorite assemblage. Skarns contain quartz-calc-silicate segregations, injections and veins that vary from less than 10 cm to 4 meters thick. Skarn zones vary in thickness from 1 to 60 meters. Skarns also contain variable amounts of pyrrhotite, pyrite, sphalerite, galena, as well as traces of chalcopyrite and tetrahedrite. The sulphides occur as fine disseminations orientated within the plane of the metamorphic fabric or as coarse grained aggregates within the segregations. Native gold occurs within the skarn assemblages as 25-micron disseminations to over several millimeter diameter flakes within and along the margins of the quartz calc-silicate segregations. Petrographic studies (Northcote, 1983) of polished thin sections indicate that the gold occurs as plates and anhedral grains which are generally free, but are intimately associated with pyrrhotite, arsenopyrite, sphalerite and pyrite-marcasite.

There are a number of significant mineralized zones identified to date on the property. These include the following gold rich zones: Heino-Money zone, East Ridge Zone, Grizzly, Lower Jennie, and Road Ridge; and the following silver rich zones: Silver Queen and Arnie Flats. The zones are located in figure 3.

#### **Heino-Money Zone**

This Gold rich mineralized zone has had extensive work including underground mining. The mining reserve is outlined in four south raking shoots that occur in a near vertical shear structure, which averages about 2 meters wide and has a strike length of approximately 200 meters and vertical extent of 100 meters. Three distinct types of mineralization have been identified (Tindall 1993).

*High sulphide polymetallic mineralization* occurs in the 2112 zone in a high angle crosscutting breccia. Alteration, consisting of strong silicification and calc-silicate replacement of wall rocks and breccia fragments, are confined to the Breccia zone. Sulphides in order of abundance, are pyrrhotite, sphalerite, galena and pyrite with minor chalcopyrite and arsenopyrite. They occur as blebs, lenses, stringers and massive accumulations. Sulphide content within the zone is highly variable but averaged in excess of 10%. Gold grades are significantly higher in areas of quartz stringer veining or high sulphide content.

*Low sulphide polymetallic mineralization* exemplified by the 2130 zone that crosscuts metavolcanic and metasedimentary rocks at a high angle confined by steeply dipping shears. Alteration consists of strong to moderate hornfels and calc-silicate replacement. Quartz stringers, lenses and small veins were common. Sulphides content is less than 5% consisting of pyrrhotite, pyrite, sphalerite and galena with minor chalcopyrite and arsenopyrite. Gold values are extremely variable over short distances and were generally less than 0.5 oz/ton.

The final type consists of *low sulphide, pyrite dominated mineralization* that occurs on the 2148, 2160 and 2171 levels. Alteration ranges from moderate to strong hornfels and calc-silicate replacement to weak chloritization. In all levels, veining and alteration are confined to steeply dipping shear zones.

Total sulphide content is generally less than 3% with pyrite predominant and only minor amounts of other base metal sulphides. Gold values tend to be highly erratic but overall the grade is low. Ettlinger and Ray (1989) report that whole-rock and trace element analyses of samples from one of the Heino-Money drill holes indicates that there were at least two episodes of mineralization, the first being gold-rich and silver-poor and a slightly younger episode of silver and lead-rich, gold -poor mineralization.

### **East Ridge Zone**

Mineralization in the East Ridge zone occurs in multiple skarn horizons within a calc-silicate altered succession of tuffaceous sediments and volcanics approximately 125 meters thick overlying a diorite porphyry intrusion. Mineralization has been traced for at least 1100 meters along strike and 360 meters down dip. It is currently open in all directions. The exact nature and structural relationships of the mineralization to the host rocks is poorly understood. The zones range in thickness up to 51 meters ... and dip 55 degrees to the west. High grade gold values are associated with quartz-pyrite-pyrrhotite mineralization with trace amounts of sphalerite and galena. High grade zones appear restricted to zones of narrow calc-silicate altered areas surrounded by lower grade over larger intervals. The overall indicated grade of the zone is considerably less than the Heino-Money Zone.

#### **Grizzly Zone**

This area of mineralization is approximately 900 meters southeast of the Heino-Money zone. Addie (1997) reports that the mineralization is similar to that found in the Heino-Money zone. Gold and silver mineralization occurs in shear-related calc-silicate-quartz skarns that contain elongate zones of massive pyrrhotite with minor sphalerite, galena, chalcopyrite and traces of visible gold. The skarns are hosted within zones of moderate to intense calc-silicate alteration and silicification in the host rocks. The zone is poorly understood with only a limited amount of work.

#### Lower Jennie, Command and Road Ridge zones

Thought to be similar to the East Ridge zone only minor amounts of surface sampling and geological mapping have been completed.

#### Silver Queen Zone

This prospect, active in the 1930's, is silver -rich and gold-poor. It consists of skarn alteration and mineralization associated with feldspar porphyry sills intruded into impure calcareous metasedimentary rocks. Skarn minerals include quartz, tremolite-actinolite, clinozoisite, garnet, biotite and carbonate.

Sulphides include pyrite, pyrrhotite, tetrahedrite, sphalerite and galena.

#### **Arnie Flats Zone**

The zone located 2 kilometers to the southwest of the Heino-Money zone, is silver rich and in a similar setting to the East ridge zone. Mineralization is hosted in a sequence of interbedded tuffaceous volcanics and meta-basaltic-andesite of the Elise Formation overlain by a dioritic sill. Silver mineralization with low gold values occur in two sub-parallel calcsilicate-quartz skarn horizons within the host rock sequence. The two skarn horizons strike north east and dip 45 degrees to the southwest. The upper A horizon ranges from 1 to 3 meters thick and contains 5%, medium grained disseminated pyrite. The lower B horizon is similar in thickness with 3% disseminated and stringer pyrrhotite with minor pyrite. Both horizons have been traced for 120 meters along strike.

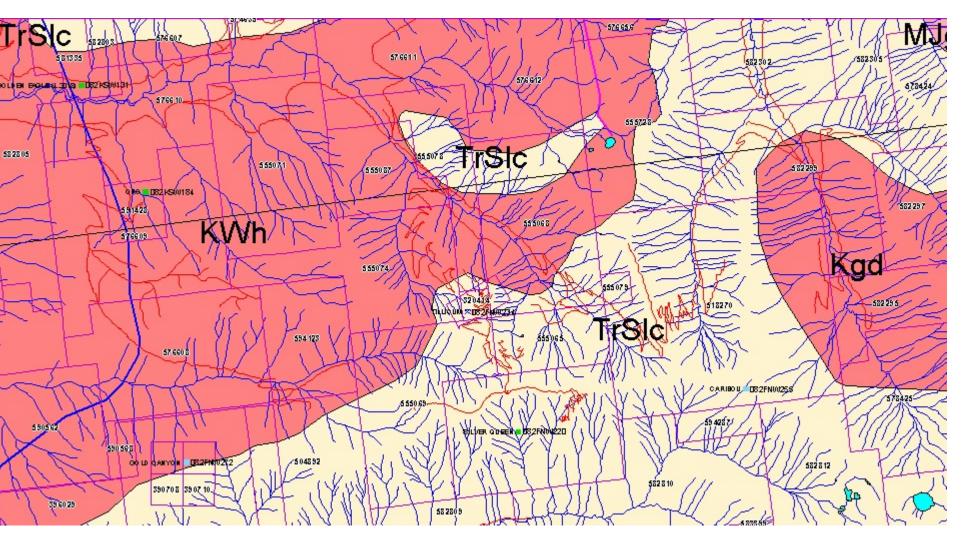


Figure 4 - Geological Map for the Tillicum Property. Simple geological map in which the Cretaceous Whatshan Batholith (KWh) intruded the Triassic Slocan Group (TrSlc). MINFILE occurrences documented on the property include the Tillicum (082FNW234) and the Silver Queen (082FNW220). Approximate scale - 1: 60,000. Map produced using The MapPlace.

### 2008 FIELD PROGRAM

The program completed represents an initial evaluation of the Tillicum property by AMT Industries Canada Inc. Sample were taken across the contact between the Goat Canyon - Halifax Creek stocks and metavolcanics of the host Slocan Group (Fig. 5).

A total of 97 soil samples were taken with stations every 25 metres on 7 short sample lines and a single road traverse. Samples were collected from a variably, generally poorly developed "B Horizon", with sample depths between 5 and 20 cm. Sample locations were recorded using hand-held GPS and are generally considered to be accurate to within 10 m.

All samples were submitted to Acme Analytical Laboratories Ltd for processing using the SS80 package and analysis using the Group 1DX (39 element ICP) package. Sample locations are plotted on Figure 6, with analytical results included in Appendix B.

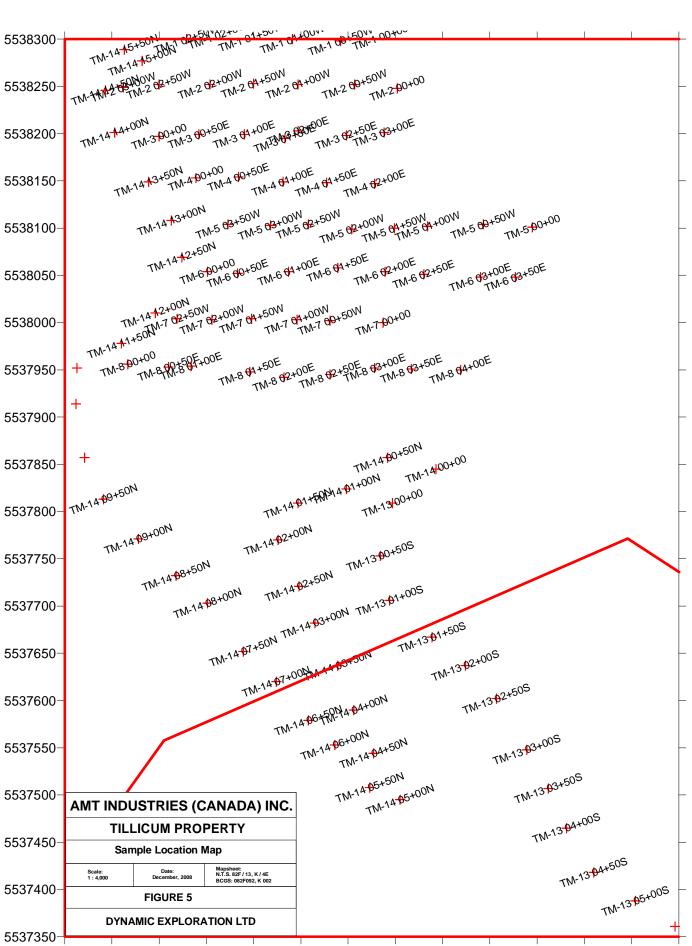
## RESULTS

### **Soil Sampling**

Of the 100 sample sites visited, three resulted in "No Sample" stations, designated as L.N.R. (Label Not Received) on figures 6 to 9 and in the accompanying analytical results. As a result, there are a total of 97 analyses on which this report is based. The following table documents the basic statistical data for the four elements of interest.

	Gold	Copper	Lead	Zinc
Mean	11.26	69.62	17.08	145.98
Stan. Dev.	50.92	74.41	24.21	247.69
Min	0.5	5.1	3.8	19
Max	446.8	308	178	1537
# Samples	80	97	97	97

In general, background values are designated as those values less than the median value (50%). Weakly anomalous values are those lying between the median and 1 standard deviation above the median,



448400 448450 448500 448550 448600 448650 448700 448750 448800 448850 448900 448950 449000 44905

moderately anomalous values are those between 1 and 2 standard deviations above the median and strongly anomalous values are those greater than the median + 2 standard deviations, as follows:

Element	Mean	Median + 18	$Median + 2\delta$	Minimum	Maximum
Gold	11.26	62.18	113.10	0.5	446.8
Copper	69.62	144.03	218.44	5.1	308
Lead	17.08	41.29	65.50	3.8	178
Zinc	145.98	393.67	641.36	19	1537

Due to the small size of the sample population and for the purposes of plotting contoured data, generally regular contour intervals were selected between the median and maximum value.

#### Gold

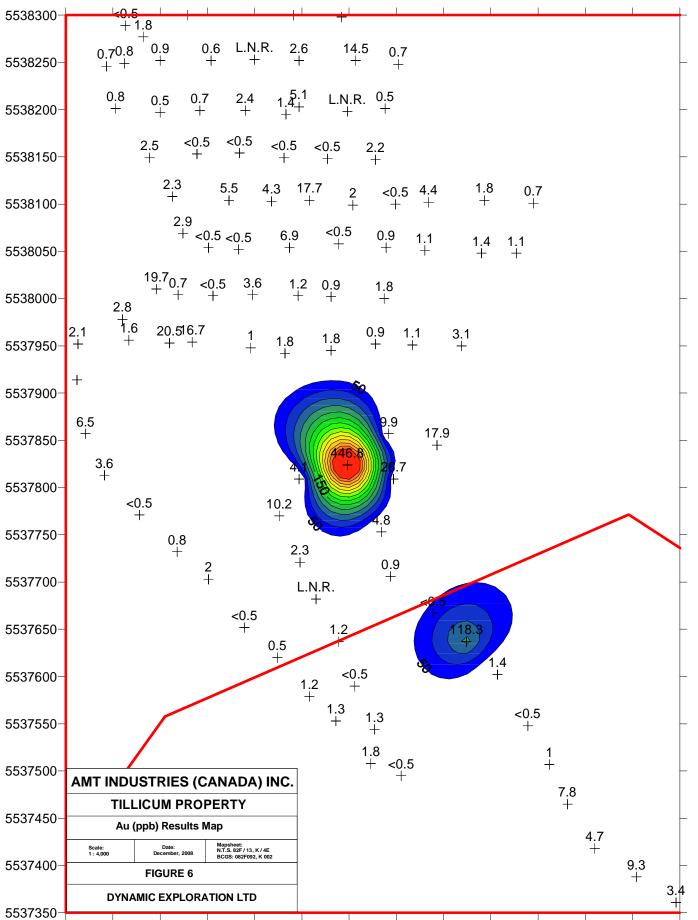
Of the 97 analyses available, only 80 returned values above the minimum detection limit for gold. Analysis of the available database returned a mean value of 11.26 ppb and a standard deviation of 50.92. The minimum value was 0.5 ppb and the maximum was 446.8 ppb.

The results are plotted in Figure 6 and document two geochemical anomalies, one on each side of the contact between the Goat-Canyon and Halifax Creek Stocks and metavolcanics of the Slocan Group. The anomaly north of contact is a single spike high of 446.8 ppb, while the anomaly to the south is a single spike high of 118.3 ppb. The remainder of the data document analytical results less than 26.7 ppb, with most below 5 ppb.

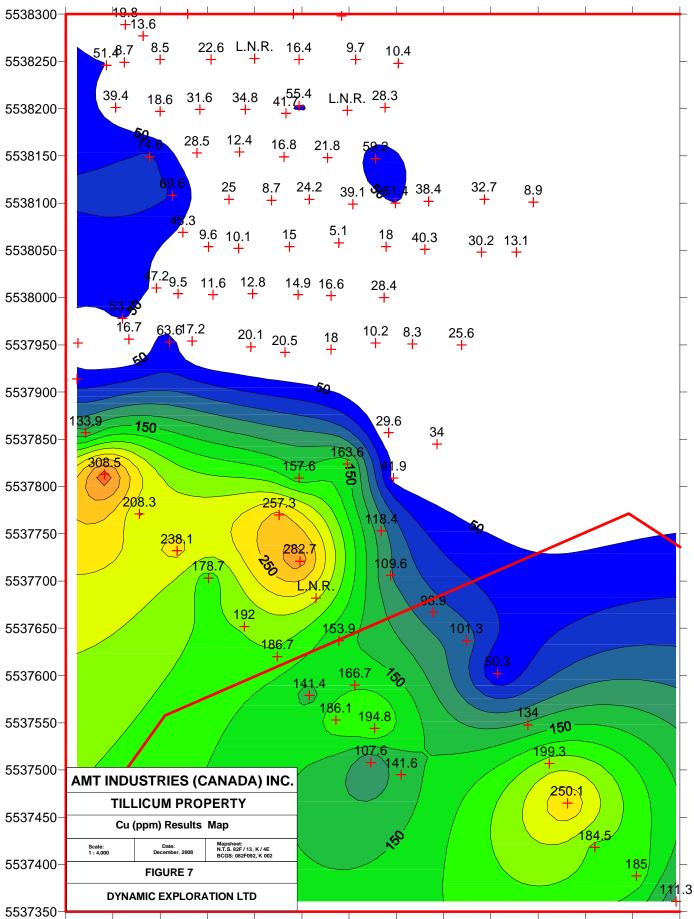
#### Copper

Of the 97 analyses available, all returned values above the minimum detection limit for copper. Analysis of the available database returned a mean value of 69.62 ppm and a standard deviation of 74.41. The minimum value was 5.1 ppm and the maximum was 308 ppm.

The results are plotted in graphical form in Figure 7. The data appear to document a number of weakly to anomalous results straddling the geological contact between intrusives and host metavolcanics. Results in the mafic metavolcanics range form 50. 3 to 250.1 ppm. In contrast, analytical results along the traverse lines in the intrusives document results ranging between 5.1 and 74.6 ppm.



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#### Lead

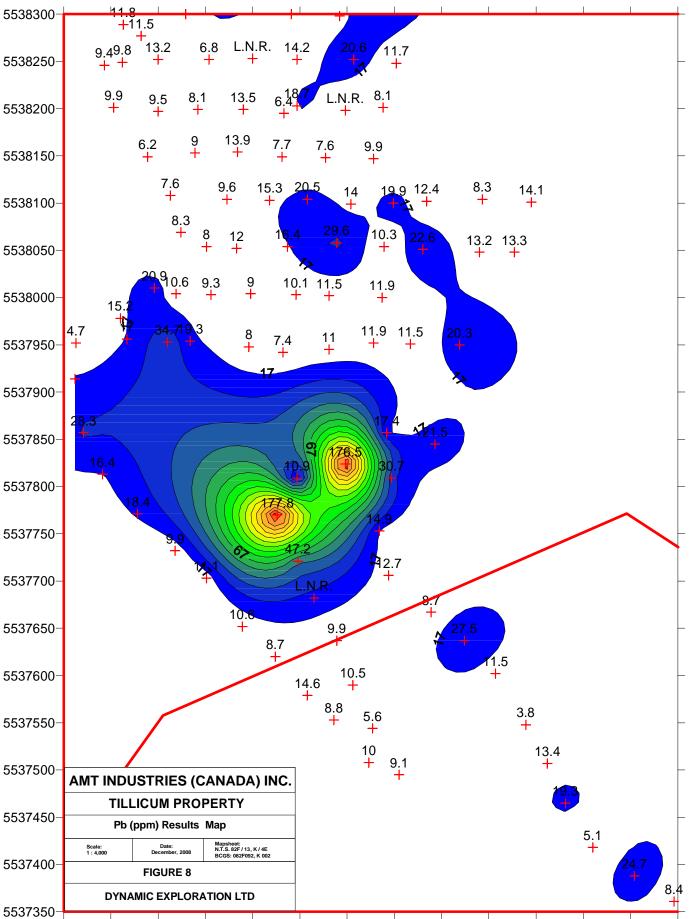
Of the 97 analyses available, all returned values above the minimum detection limit for lead. Analysis of the available database returned a mean value of 17.08 ppm and a standard deviation of 24.21. The minimum value was 3.8 ppm and the maximum was 178 ppm.

Graphical results for lead are presented in Figure 8. The data document anomalous results immediately north of the geological contact (within the intrusive lithologies). The anomaly is based upon two single station highs, located approximately 100 m apart and sub-parallel to the intrusive contact.

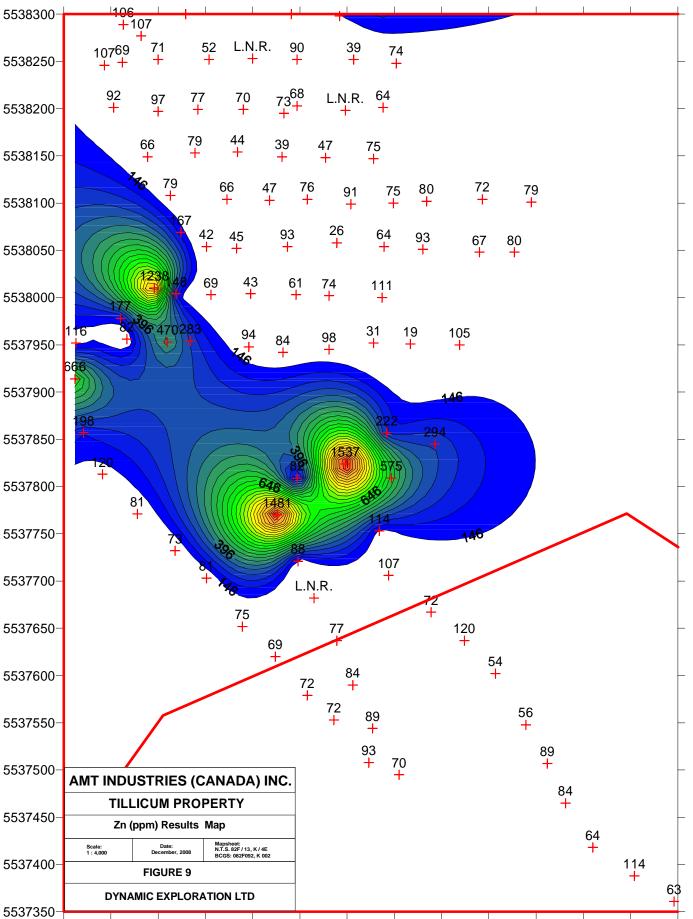
#### Zinc

Of the 97 analyses available, all returned values above the minimum detection limit for zinc. Analysis of the available database returned a mean value of 145.98 ppm and a standard deviation of 247.69. The minimum value was 19 ppm and the maximum was 1537 ppm.

The graphical plot of zinc (Fig. 9) is very similar to that of lead (Fig. 8). There are two single station highs, located at the same stations as the lead highs above. In addition, there are three other strongly elevated to highly anomalous single station highs located slightly farther to the northwest.



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#### DISCUSSION

The first observation to be made is that a sample set of 97 analytical results is a very small population on which to be making any statistical comments. Therefore, only basic statistics were determined for the elements under consideration (i.e. Au, Cu, Pb and Zn). There have been many thousands of soil samples taken on the property over the years, however, many of the analyses are single element analyses (i.e. Gold). Furthermore, and most importantly for this report, none of the data is available to the author in digital form for plotting and/or statistical analysis.

The small size of the sample population, together with the high range in values documented has resulted in a very high value for the standard deviation for each element. As discussed under "Results", the standard deviation is used to define the "Weakly", "Moderately" and "Highly" anomalous categories. However, with such a high Standard Deviation, the cut-offs for these categories is skewed to much higher values than are qualitatively interpreted to be appropriate. For example, the cut-off between "Weakly" and "Moderately" anomalous results for zinc is 394 ppm and between "Moderately" and "Highly" anomalous results 641 ppm. Therefore, the graphical representations for the elements under consideration (i.e. gold, copper, lead and zinc) is based on evenly spaced contours between the mean and the maximum values for the element plotted. A larger sample set is expected to provide more meaningful results for subsequent interpretation.

With specific reference to gold (Fig. 6), the analytical package utilized (Group 1DX) is considered to provide semi-quantitative results for this element. The sample size was relatively small (typical soil sample size in Kraft bags) and the analytical package did not include any special processing to accommodate gold (i.e. 15 g as opposed to 5 g, on the instructions of the client). Despite that, several very anomalous gold values were documented in the data (i.e. 118.3 and 446.8 ppb, or 0.118 and 0.0447 gm/t, respectively). Such values are highly anomalous and, in the case of 0.447 gm/t, approaching a potentially economic value (obviously on the basis of more than a single sample). Given the semi-quantitative nature of the Group 1DX analytical package for gold and the fact that a number of anomalous values were returned, consideration should be given to a different sampling / analytical protocol for samples taken to evaluate gold potential in surface soils in the future, as follows:

- 1. Sample size should be much larger (with corresponding reduction in the daily production rate soil sample recovery),
- 2. The 15 g option should be utilized for Group 1DX 39 element ICP analysis,
- 3. Group 6 Fire Assay should be utilized specifically for determination of quantitative gold values,
- 4. The "Metallics Fire Assay" option should be utilized for samples returning values above a specific value (to be determined).

Standard use of Group 1DX analysis is recommended so as to identify possibly pathfinder elements potentially associated with gold (i.e. arsenic, mercury), as well as other possibly economic metals including, but not limited to, silver, copper, lead and /or zinc.

The graphical plot for copper (Fig. 7) is interpreted to suggest potential for copper as a possible byproduct of any future production from the property. Based on the simple geology indicated in Figure 4b), copper is interpreted to be enriched in the mafic metavolcanics (described as Tuffaceoous Basaltic-Andesite and Meta-basaltic Andesite). Potential for copper has not previously been suggested, based on the author's limited, initial review of previous data and reports. On the basis of the initial analytical results, copper does not have potential as a primary product, however, if metavolcanics were being processed for recovery of gold, this preliminary data suggests copper might be a possible by-product.

In addition, lead and zinc are other possible commodities to pursue on the property. Two soil samples returned coincident, highly anomalous values for lead and zinc (Fig. 8 and 9). In addition, three other moderately to highly anomalous values for zinc were documented in this initial sample set. High grade base metal veins (often silver-enriched ("argentiferous") are typically associated with many felsic intrusive bodies. Furthermore, both lead and zinc-rich skarns have been documented and so potential for these commodities should be considered and evaluated in the future.

In 2003, a compilation effort was undertaken for sub-surface results returned for the property to that date. The result was an initial digital database comprised of sub-surface geology and gold results, sub-surface traces of drill holes in 3D and a drill plan map of collar locations. These data need to be reviewed, confirmed and evaluated for completeness.

The abundant geological database available includes surface soil geochemical results, as well as additional surface geological data. The initial map of surface geology has been compiled but needs to be extended to the other anomalous zones identified.

An integrated program needs to be developed and implemented for the property. The proposed program needs to address completion of the compilation initiated in 2003 so as to have the entirety of the information produced on the property over the years available for future evaluation of the property.

### **CONCLUSIONS**

The 2008 program represents a limited initial, preliminary evaluation of the property by AMT Industries (Canada) Inc. Despite this, the small program (97 samples) has demonstrated the effectiveness of surface soils despite, or even due to, the poor development of soils underlying the 2008 survey area.

Much of the data collected to date from the property has been limited to gold and silver, however, the 2008 analytical results suggest potential for copper, lead and zinc as well. Furthermore, a larger dataset could reasonably be expected to return anomalous results for silver, as well as possible platinum group elements (in association with the Rossland Group mafic lithologies).

The interpreted host for gold and/or mineralization is along "... shear and fracture related, calc-silicate, quartz skarns developed in metasedimentary and metavolcanic rocks of both the Milford and Rossland Groups adjacent to or in close proximity to quartz monzodiorite porphyry sills" (Dykes 2003). Previous geochemical work appears to have defined a number of additional areas of anomalous results at surface. The author believes it is critical to attempt to correlate areas of anomalous surface geochemistry with anomalous sub-surface diamond drill results. The database, as it currently exists, is not sufficient for this attempt. To the author's knowledge, the surface data has not been compiled, nor is the surface mapping available in digital form, with which to constrain potential correlations.

In summary, the 2008 program, although limited in size, has confirmed the value of surface soils and the Group 1DX method for identifying samples with anomalous geochemistry. Furthermore, there would appear to be potential for base metal mineralization in addition to the precious metal mineralization previously reported. Further interpretations are limited due to the small survey area and the small sample population.

#### RECOMMENDATIONS

- 1. Make an effort to locate the Gemcon database referred to in Dykes (2003) report. The database is described as consisting of "... 330 drill holes, 19 trenches with 17,042 drill hole assays, 294 trench assay and 11,706 lithology records" (Dykes 2003). Presumably, these data have been captured in the 2003 database compiled in the AutoCad environment, however, the database should be secured for evaluation and, if nothing else, redundancy;
- 2. Undertake continued compilation of surface / sub-surface analytical and lithological data available for the Tillicum property, including verification of the data compiled in 2003. surface Available surface geochemical results and geology needs to be compiled for the purposes of attempting correlations between sub-surface mineralization and areas of anomalous geochemistry at surface. This work might, potentially, have significant implications for tonnage potential;
- 3. Sub-surface correlations made in 2003 on the basis of the compilation of data at that time need to be evaluated and revised, if necessary, so as to be consistent with the interpretations of AMT Industries (Canada) Inc in future evaluation and exploration programs on the property;
- 4. Review and consider implementing outstanding "Recommendations" from Dykes (2003) report.

# **REFERENCES**

Dykes, S.M. 200. Assessment Work Report - Tillicum Mountain Gold Property, Slocan Mining Division, Assessment Report 27,144, dated April 15, 2003.

Appendix A

**Statement of Qualifications** 

# STATEMENT OF QUALIFICATIONS

I, Richard T. Walker, of 2601 42<sup>nd</sup> Ave South, Cranbrook, BC, hereby certify that:

- 1) I am a graduate of the University of Calgary of Calgary, Alberta, having obtained a Bachelors of Science in 1986.
- 2) I obtained a Masters of Geology at the University of Calgary of Calgary, Alberta in 1989.
- 3) I am a member of good standing with the Association of Professional Engineers and Geoscientists of the Province of British Columbia.
- 4) I am a consulting geologist, residing at  $2601 \ 42^{nd}$  Ave South, Cranbrook, British Columbia.
- 5) I am the author of this report which is based on field work undertaken in late September, 2008.

Dated at Cranbrook, British Columbia this 6<sup>th</sup> day of January, 2009.

Richard T. Walker, P.Geo.

# Appendix B

Analytical Results

#### Client:

### **Dynamic Exploration Ltd.**

2601 42nd Ave. S. Cranbrook BC V1C 7H3 Canada

**Rick Walker** Submitted By: Receiving Lab: Canada-Vancouver Received: Report Date: Page:

### October 27, 2008 November 13, 2008 1 of 5

## VAN08010530.1

### **CLIENT JOB INFORMATION**

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
SS80	97	Dry at 60C sieve 100g to -80 mesh		
Dry at 60C	97	Dry at 60C		
RJSV	97	Save all or part of soil reject fraction		
RJSV	97	Saving all or part of Soil Reject		
1DX	97	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed
DIS-RJT	97	Warehouse handling / Disposition of reject		

### **ADDITIONAL COMMENTS**

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Dynamic Exploration Ltd. Invoice To: 2601 42nd Ave. S. Cranbrook BC V1C 7H3 Canada

CC:

Project: Shipment ID: P.O. Number

RTRN-PLP

RTRN-RJT

Number of Samples:

SAMPLE DISPOSAL



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.

"\*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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CERTIFICATE OF ANALYSIS

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Report Date

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Acmelabs Acmelabs 1020 Cordova St. East Vancouver BC V6A 4A3 Canada Phone (604) 253-3158 Fax (604) 253-1716

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# CERTIFICATE OF ANALYSIS

	N	Method	1DX																			
	۵	Analyte	Мо	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	v	Ca	Р
		Unit	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%							
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
TM-6 00+00	Soil		0.4	9.6	8.0	42	<0.1	4.0	6.6	165	2.26	2.0	0.2	<0.5	0.3	23	0.3	0.1	0.2	124	0.26	0.056
TM-6 00+50E	Soil		1.0	10.1	12.0	45	0.3	4.6	4.0	108	3.63	3.2	0.4	<0.5	1.0	12	0.3	0.2	0.3	151	0.13	0.096
TM-6 01+00E	Soil		1.1	15.0	16.4	93	0.1	9.0	10.5	177	3.50	4.2	0.3	6.9	1.4	14	0.4	0.2	0.3	130	0.16	0.097
TM-6 01+50E	Soil		0.5	5.1	29.6	26	0.2	2.5	2.8	82	1.76	0.6	0.3	<0.5	0.9	8	0.1	0.2	0.3	107	0.17	0.019
TM-6 02+00E	Soil		1.1	18.0	10.3	64	0.1	7.5	11.3	790	2.96	1.9	0.5	0.9	0.2	35	0.5	0.2	0.2	101	0.12	0.046
TM-6 02+50E	Soil		1.3	40.3	22.6	93	0.2	23.5	25.7	383	4.77	4.9	0.4	1.1	0.8	64	0.2	0.1	0.2	165	0.31	0.064
TM-6 03+00E	Soil		0.8	30.2	13.2	67	0.2	9.7	14.6	591	3.07	4.2	0.5	1.4	0.4	65	0.4	0.2	0.2	102	0.42	0.087
TM-6 03+50E	Soil		1.7	13.1	13.3	80	<0.1	6.7	8.7	253	5.14	7.2	0.3	1.1	0.9	49	0.2	0.4	0.3	193	0.14	0.054
TM-5 00+00	Soil		1.2	8.9	14.1	79	<0.1	5.0	5.6	323	3.27	4.6	0.4	0.7	0.9	103	0.4	0.2	0.2	82	0.24	0.064
TM-5 00+50W	Soil		0.4	32.7	8.3	72	0.1	26.4	27.9	617	3.66	3.3	0.4	1.8	0.9	103	0.4	0.2	0.1	128	0.59	0.070
TM-5 01+00W	Soil		0.4	38.4	12.4	80	<0.1	18.3	32.5	769	3.89	4.4	0.5	4.4	1.0	77	0.4	0.2	0.1	140	0.54	0.089
TM-5 01+50W	Soil		1.8	51.4	19.9	75	0.1	25.4	24.7	341	3.87	5.7	0.5	<0.5	0.9	58	0.2	0.1	0.2	142	0.33	0.148
TM-5 02+00W	Soil		2.1	39.1	14.0	91	0.2	19.3	19.7	335	4.71	4.9	0.4	2.0	1.2	70	0.2	0.2	0.3	152	0.29	0.074
TM-5 02+50W	Soil		1.3	24.2	20.5	76	0.3	8.3	5.0	135	2.75	8.5	0.6	17.7	1.5	8	0.3	0.3	0.4	70	0.09	0.055
TM-5 03+00W	Soil		0.7	8.7	15.3	47	0.1	4.9	3.9	91	2.59	2.7	0.3	4.3	0.9	17	0.3	0.3	0.3	102	0.12	0.056
TM-5 03+50W	Soil		0.7	25.0	9.6	66	0.1	13.9	14.2	191	3.11	4.0	0.4	5.5	1.3	34	0.3	0.1	0.1	101	0.31	0.135
TM-4 00+00	Soil		0.9	28.5	9.0	79	0.2	16.8	14.3	203	3.43	4.4	0.5	<0.5	2.0	22	0.3	0.3	0.2	90	0.18	0.116
TM-4 00+50E	Soil		1.1	12.4	13.9	44	0.3	5.9	4.1	87	2.68	4.4	0.4	<0.5	1.5	7	0.3	0.4	0.3	79	0.05	0.064
TM-4 01+00E	Soil		1.2	16.8	7.7	39	0.2	8.2	7.1	111	2.92	3.9	0.4	<0.5	0.6	17	0.3	0.2	0.2	89	0.10	0.075
TM-4 01+50E	Soil		1.1	21.8	7.6	47	0.2	9.0	9.2	194	2.67	4.5	0.5	<0.5	0.5	24	0.3	0.2	0.1	78	0.17	0.123
TM-4 02+00E	Soil		1.6	59.2	9.9	75	0.2	31.1	31.1	284	4.23	7.8	0.7	2.2	1.5	93	0.4	0.3	0.2	132	0.50	0.206
TM-2 00+00	Soil		2.6	10.4	11.7	74	0.1	4.7	6.4	254	3.32	4.5	0.7	0.7	3.1	21	0.2	0.3	0.2	93	0.11	0.101
TM-2 00+50W	Soil		2.2	9.7	20.6	39	0.1	5.3	5.5	156	2.41	2.9	0.4	14.5	0.8	29	0.3	0.2	0.3	109	0.12	0.046
TM-2 01+00W	Soil		1.9	16.4	14.2	90	0.3	9.3	10.4	292	4.09	3.4	0.8	2.6	2.3	21	0.2	0.2	0.3	120	0.22	0.188
TM-2 01+50W	Soil		L.N.R.																			
TM-2 02+00W	Soil		0.8	22.6	6.8	52	<0.1	12.8	11.4	184	2.92	2.0	0.2	0.6	1.1	19	0.1	0.1	0.1	93	0.19	0.060
TM-2 02+50W	Soil		1.2	8.5	13.2	71	0.2	6.6	5.9	189	3.26	4.1	0.5	0.9	2.0	15	0.3	0.3	0.2	84	0.14	0.110
TM-2 03+00W	Soil		1.4	8.7	9.8	69	0.2	5.7	5.6	168	3.96	3.7	0.6	0.8	2.1	8	0.3	0.2	0.2	97	0.09	0.121
TM-7 00+00	Soil		0.9	28.4	11.9	111	0.2	18.6	14.6	597	4.10	12.9	0.8	1.8	1.1	70	0.6	0.3	0.2	92	0.23	0.097
TM-7 00+50W	Soil		0.9	16.6	11.5	74	0.2	10.4	11.4	235	4.10	5.9	0.3	0.9	0.9	29	0.3	0.2	0.2	156	0.15	0.088



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	Method	1DX															
	Analyte	La	Cr	Mg	Ва	Ti	в	AI	Na	к	w	Hg	Sc	ті	S	Ga	Se
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
TM-6 00+00 Se	bil	2	30	0.69	49	0.264	<20	1.18	0.019	0.04	0.3	0.02	2.9	<0.1	<0.05	9	<0.5
TM-6 00+50E Se	bil	2	59	0.37	51	0.241	<20	1.76	0.012	0.04	0.6	0.04	2.4	<0.1	<0.05	15	<0.5
TM-6 01+00E Se	bil	3	64	0.65	69	0.251	<20	2.33	0.013	0.05	0.8	0.04	3.1	<0.1	<0.05	10	<0.5
TM-6 01+50E Se	bil	3	14	0.35	37	0.266	<20	1.09	0.020	0.03	<0.1	0.02	2.1	<0.1	<0.05	9	<0.5
TM-6 02+00E Se	bil	3	185	0.74	101	0.212	<20	1.58	0.015	0.04	0.2	0.03	1.7	<0.1	<0.05	10	<0.5
TM-6 02+50E Se	bil	3	166	1.74	100	0.293	<20	2.68	0.015	0.08	0.8	0.02	4.1	<0.1	<0.05	11	<0.5
TM-6 03+00E Se	bil	4	105	0.91	175	0.194	<20	1.45	0.020	0.11	0.3	0.03	2.6	0.1	<0.05	9	<0.5
TM-6 03+50E Se	bil	3	39	0.83	58	0.379	<20	1.77	0.014	0.06	0.4	0.03	2.5	<0.1	<0.05	15	<0.5
TM-5 00+00 Se	bil	4	22	0.63	83	0.218	<20	1.94	0.016	0.05	1.1	0.04	2.5	<0.1	<0.05	11	<0.5
TM-5 00+50W Se	bil	5	284	2.09	96	0.243	<20	2.36	0.021	0.19	0.3	0.02	3.7	0.1	<0.05	8	<0.5
TM-5 01+00W So	bil	5	328	2.16	113	0.261	<20	2.47	0.012	0.16	1.0	<0.01	4.5	0.1	<0.05	8	<0.5
TM-5 01+50W Se	bil	4	69	0.99	61	0.218	<20	2.30	0.015	0.05	0.9	0.03	2.4	<0.1	< 0.05	8	<0.5
TM-5 02+00W Se	bil	4	59	1.14	55	0.309	<20	2.36	0.015	0.05	0.7	0.03	3.8	<0.1	<0.05	11	<0.5
TM-5 02+50W Se	bil	4	22	0.27	38	0.166	<20	2.25	0.013	0.03	0.6	0.04	1.9	<0.1	<0.05	10	<0.5
TM-5 03+00W Se	bil	2	20	0.30	41	0.279	<20	1.21	0.015	0.03	0.1	0.02	1.5	<0.1	<0.05	12	<0.5
TM-5 03+50W Se	bil	3	35	0.86	48	0.203	<20	2.09	0.015	0.05	0.4	0.03	2.6	<0.1	<0.05	9	<0.5
TM-4 00+00 Se	bil	4	34	0.69	50	0.171	<20	2.55	0.012	0.05	0.5	0.02	2.7	<0.1	<0.05	10	<0.5
TM-4 00+50E Se	bil	3	17	0.19	46	0.177	<20	1.78	0.011	0.03	0.2	0.03	1.4	<0.1	<0.05	13	<0.5
TM-4 01+00E So	bil	3	32	0.36	31	0.174	<20	1.91	0.011	0.02	0.3	0.04	1.3	<0.1	<0.05	9	<0.5
TM-4 01+50E Se	bil	3	24	0.40	40	0.141	<20	2.55	0.011	0.02	0.3	0.05	1.2	<0.1	<0.05	8	<0.5
TM-4 02+00E Se	bil	5	61	1.05	34	0.167	<20	2.86	0.010	0.04	0.4	0.05	3.4	<0.1	<0.05	9	1.9
TM-2 00+00 Se	bil	5	32	0.65	45	0.192	<20	1.90	0.010	0.11	0.4	0.04	2.2	0.2	<0.05	11	<0.5
TM-2 00+50W Se	bil	4	19	0.49	29	0.299	<20	1.25	0.013	0.05	0.5	0.02	1.4	<0.1	<0.05	13	<0.5
TM-2 01+00W Se	bil	5	36	0.71	63	0.214	<20	2.57	0.011	0.11	0.4	0.04	2.1	0.2	<0.05	13	0.5
TM-2 01+50W Se	bil	L.N.R.															
TM-2 02+00W Se	bil	2	49	0.82	40	0.225	<20	1.84	0.018	0.06	0.2	0.02	2.0	<0.1	<0.05	10	0.7
TM-2 02+50W Se	bil	5	26	0.50	49	0.191	<20	1.89	0.013	0.08	0.3	0.07	2.0	0.1	<0.05	13	<0.5
TM-2 03+00W Se	bil	4	30	0.34	62	0.201	<20	2.94	0.011	0.06	0.3	0.05	2.0	<0.1	<0.05	14	<0.5
TM-7 00+00 Se	bil	6	55	1.22	144	0.224	<20	3.46	0.012	0.07	0.4	0.05	3.8	<0.1	<0.05	9	0.6
TM-7 00+50W Se	bil	3	164	1.02	54	0.291	<20	2.03	0.017	0.05	0.4	0.03	3.0	<0.1	<0.05	12	<0.5





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# CERTIFICATE OF ANALYSIS

		Method	1DX																			
		Analyte	Мо	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	v	Ca	P
		Unit	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%							
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
TM-7 01+00W	Soil		1.0	14.9	10.1	61	0.1	7.7	9.7	189	3.90	5.7	0.3	1.2	0.8	21	0.3	0.2	0.2	157	0.15	0.109
TM-7 01+50W	Soil		0.9	12.8	9.0	43	0.2	6.2	6.0	95	2.96	3.0	0.4	3.6	1.0	9	0.4	0.2	0.2	95	0.09	0.054
TM-7 02+00W	Soil		0.6	11.6	9.3	69	<0.1	7.2	9.7	197	3.31	2.7	0.3	<0.5	0.9	28	0.3	0.1	0.2	141	0.31	0.067
TM-7 02+50W	Soil		0.7	9.5	10.6	148	0.2	5.8	7.3	157	2.78	4.4	0.4	0.7	0.8	15	1.1	<0.1	0.2	98	0.14	0.069
TM-8 00+00	Soil		0.8	16.7	17.0	82	0.2	12.2	6.0	170	3.36	10.1	0.4	1.6	0.9	30	0.5	0.2	0.3	102	0.16	0.130
TM-8 00+50E	Soil		1.5	63.6	34.7	470	0.5	16.6	9.0	361	3.61	81.0	0.7	20.5	0.4	24	2.0	0.4	0.5	81	0.10	0.080
TM-8 01+00E	Soil		0.8	17.2	19.3	283	0.2	10.6	10.2	299	3.74	8.1	0.6	16.7	2.2	32	1.0	0.1	0.2	110	0.25	0.128
TM-8 01+50E	Soil		0.8	20.1	8.0	94	0.2	11.0	11.1	189	3.14	3.4	0.5	1.0	1.3	24	0.4	0.1	0.2	119	0.21	0.078
TM-8 02+00E	Soil		1.0	20.5	7.4	84	0.1	11.5	11.8	186	3.03	4.8	0.9	1.8	2.4	18	0.4	0.2	0.2	100	0.10	0.079
TM-8 02+50E	Soil		0.9	18.0	11.0	98	0.2	11.1	11.9	288	3.96	6.0	0.6	1.8	1.8	58	0.2	0.2	0.2	128	0.22	0.112
TM-8 03+00E	Soil		0.7	10.2	11.9	31	0.2	3.2	2.3	110	2.30	3.6	0.5	0.9	0.7	13	0.6	0.3	0.2	60	0.07	0.081
TM-8 03+50E	Soil		0.6	8.3	11.5	19	0.2	2.8	2.2	60	1.51	2.0	0.7	1.1	1.4	7	0.2	0.1	0.2	33	0.03	0.051
TM-8 04+00E	Soil		0.8	25.6	20.3	105	0.3	49.3	18.1	729	4.23	4.7	0.7	3.1	1.8	79	0.5	0.2	0.3	110	0.31	0.088
TM-1 00+00	Soil		2.2	13.3	20.9	216	0.1	7.2	6.8	279	3.93	10.8	0.7	3.9	3.5	23	0.5	0.3	0.3	100	0.14	0.099
TM-1 00+50W	Soil		1.8	16.1	15.4	144	0.1	5.7	6.5	268	3.40	12.3	1.0	20.3	2.4	25	0.6	0.3	0.2	78	0.18	0.130
TM-1 01+00W	Soil		2.0	13.8	11.6	120	<0.1	8.2	10.1	439	4.04	4.1	1.2	0.5	4.2	37	0.2	0.2	0.2	89	0.28	0.130
TM-1 01+50W	Soil		2.0	11.0	16.8	107	0.2	6.7	6.9	362	4.27	3.0	0.9	<0.5	3.2	33	0.3	0.2	0.2	91	0.12	0.122
TM-1 02+00W	Soil		1.3	15.1	19.1	97	0.2	19.0	13.5	635	3.72	3.2	1.5	1.0	2.8	41	0.5	0.1	0.2	74	0.28	0.130
TM-1 02+50W	Soil		0.9	37.4	14.1	90	0.2	54.8	25.4	911	4.91	4.1	1.0	1.7	3.9	135	0.3	<0.1	<0.1	127	1.10	0.186
TM-3 00+00	Soil		0.8	18.6	9.5	97	0.2	10.1	14.2	264	4.01	3.0	0.5	0.5	1.7	20	0.3	0.2	0.1	124	0.38	0.267
TM-3 00+50E	Soil		0.9	31.6	8.1	77	0.1	14.2	15.4	185	3.52	3.6	0.4	0.7	1.7	20	0.3	0.2	0.2	101	0.22	0.128
TM-3 01+00E	Soil		1.9	34.8	13.5	70	0.5	12.6	13.0	315	3.85	4.8	0.5	2.4	0.8	20	0.3	0.1	0.4	112	0.16	0.136
TM-3 01+50E	Soil		1.9	41.7	6.4	73	0.2	16.9	18.4	270	4.05	4.2	0.9	1.4	1.2	58	0.3	0.1	0.2	103	0.42	0.260
TM-3 02+00E	Soil		1.5	55.4	18.7	68	0.3	25.0	29.1	490	4.00	5.3	0.7	5.1	0.9	134	0.4	0.1	0.2	145	1.11	0.256
TM-3 02+50E	Soil		L.N.R.																			
TM-3 03+00E	Soil		1.4	28.3	8.1	64	<0.1	14.3	15.7	218	3.86	3.0	0.4	0.5	0.9	23	0.2	0.1	0.2	140	0.27	0.188
TM-14 00+00	Soil		1.7	34.0	21.5	294	0.3	15.6	9.1	312	4.36	75.0	0.9	17.9	2.5	19	1.0	0.3	0.4	90	0.11	0.158
TM-14 00+50N	Soil		1.2	29.6	17.4	222	0.4	12.6	9.3	398	3.46	28.2	0.9	9.9	1.3	26	1.1	0.2	0.3	93	0.14	0.172
TM-14 01+00N	Soil		17.0	163.6	176.5	1537	1.7	51.6	40.3	1838	11.01	1039	2.4	446.8	3.8	105	13.2	1.6	7.0	134	0.24	0.140
TM-14 01+50N	Soil		0.2	157.6	10.9	82	0.3	42.4	37.2	1119	5.64	27.5	1.1	4.1	3.7	62	0.3	0.1	0.1	175	0.57	0.161



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# CERTIFICATE OF ANALYSIS

		Method	1DX															
		Analyte	La	Cr	Mg	Ва	Ti	в	AI	Na	κ	w	Hg	Sc	ті	s	Ga	Se
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
TM-7 01+00W	Soil		3	112	0.82	53	0.291	<20	1.64	0.017	0.05	0.4	0.03	2.3	<0.1	<0.05	12	<0.5
TM-7 01+50W	Soil		2	119	0.50	37	0.230	<20	2.38	0.008	0.03	0.3	0.06	1.9	<0.1	<0.05	11	<0.5
TM-7 02+00W	Soil		3	79	0.94	59	0.299	<20	1.88	0.031	0.05	0.4	0.02	3.5	<0.1	<0.05	10	<0.5
TM-7 02+50W	Soil		3	66	0.51	58	0.190	<20	2.08	0.016	0.03	0.2	0.03	2.4	<0.1	<0.05	9	<0.5
TM-8 00+00	Soil		4	33	0.57	54	0.230	<20	1.74	0.014	0.04	0.3	0.04	2.5	<0.1	<0.05	13	<0.5
TM-8 00+50E	Soil		5	39	0.64	55	0.111	<20	1.99	0.015	0.05	0.4	0.04	1.8	<0.1	<0.05	9	0.6
TM-8 01+00E	Soil		5	72	0.96	67	0.240	<20	3.03	0.016	0.07	2.6	0.03	3.7	<0.1	<0.05	11	<0.5
TM-8 01+50E	Soil		3	47	0.82	43	0.303	<20	2.62	0.027	0.04	0.9	0.04	3.0	<0.1	<0.05	10	<0.5
TM-8 02+00E	Soil		5	90	0.70	55	0.282	<20	4.49	0.013	0.05	1.8	0.05	4.1	<0.1	<0.05	10	<0.5
TM-8 02+50E	Soil		5	63	1.04	83	0.277	<20	3.59	0.013	0.07	0.8	0.04	3.8	<0.1	<0.05	11	0.5
TM-8 03+00E	Soil		4	18	0.20	33	0.169	<20	2.07	0.012	0.03	0.3	0.05	1.7	<0.1	<0.05	11	<0.5
TM-8 03+50E	Soil		4	11	0.09	36	0.122	<20	2.92	0.016	0.02	<0.1	0.04	1.7	<0.1	<0.05	11	<0.5
TM-8 04+00E	Soil		7	87	1.42	87	0.284	<20	2.88	0.026	0.08	1.9	0.04	4.4	0.1	<0.05	13	<0.5
TM-1 00+00	Soil		5	27	0.71	45	0.212	<20	2.61	0.010	0.07	0.6	0.05	2.3	0.1	<0.05	13	<0.5
TM-1 00+50W	Soil		8	21	0.60	41	0.165	<20	3.55	0.012	0.07	0.6	0.07	2.3	0.1	<0.05	10	0.7
TM-1 01+00W	Soil		8	24	0.90	88	0.214	<20	3.70	0.010	0.21	1.7	0.05	3.3	0.3	<0.05	13	<0.5
TM-1 01+50W	Soil		7	20	0.74	67	0.235	<20	2.68	0.015	0.15	2.9	0.04	2.5	0.2	<0.05	15	<0.5
TM-1 02+00W	Soil		9	42	0.86	89	0.172	<20	3.52	0.017	0.09	0.4	0.06	2.8	0.1	<0.05	12	<0.5
TM-1 02+50W	Soil		19	125	2.51	132	0.209	<20	3.44	0.021	0.29	0.2	0.02	6.3	0.2	<0.05	13	<0.5
TM-3 00+00	Soil		5	34	1.09	116	0.237	<20	3.27	0.014	0.21	0.2	0.04	3.5	0.2	<0.05	11	<0.5
TM-3 00+50E	Soil		3	36	0.90	80	0.237	<20	3.08	0.016	0.09	0.2	0.03	2.8	<0.1	<0.05	10	<0.5
TM-3 01+00E	Soil		3	37	0.54	34	0.160	<20	2.48	0.014	0.04	0.5	0.06	2.3	<0.1	<0.05	10	0.9
TM-3 01+50E	Soil		7	36	0.68	69	0.202	<20	3.75	0.019	0.05	0.3	0.05	2.6	<0.1	<0.05	11	1.2
TM-3 02+00E	Soil		8	52	1.08	63	0.169	<20	3.46	0.017	0.12	0.3	0.04	4.2	<0.1	<0.05	10	2.3
TM-3 02+50E	Soil		L.N.R.															
TM-3 03+00E	Soil		4	50	0.89	38	0.205	<20	2.24	0.011	0.04	0.3	0.03	1.9	<0.1	<0.05	10	0.5
TM-14 00+00	Soil		7	33	0.76	69	0.160	<20	4.45	0.010	0.06	0.7	0.06	3.0	<0.1	<0.05	10	0.7
TM-14 00+50N	Soil		9	29	0.77	63	0.162	<20	3.00	0.012	0.07	1.1	0.05	3.5	0.1	<0.05	10	<0.5
TM-14 01+00N	Soil		13	58	1.07	78	0.042	<20	3.87	0.018	0.07	1.2	0.03	6.4	0.3	0.15	10	7.7
TM-14 01+50N	Soil		15	103	2.16	254	0.214	<20	3.39	0.010	0.95	0.3	<0.01	6.0	0.7	<0.05	11	<0.5

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**IFICATE OF ANALYSIS** 

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	Method	1DX																			
	Analyte	Мо	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	v	Ca	Р
	Unit	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%							
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
TM-14 02+00N Soil		29.9	257.3	177.8	1481	0.8	105.9	46.4	885	6.83	78.4	2.1	10.2	3.6	26	6.7	0.6	2.0	189	0.20	0.083
TM-14 02+50N Soil		3.0	282.7	47.2	88	0.5	91.6	46.9	649	5.36	24.6	0.9	2.3	3.3	22	0.3	<0.1	2.0	136	0.33	0.107
TM-14 03+00N Soil		L.N.R.																			
TM-14 03+50N Soil		0.2	153.9	9.9	77	0.4	52.3	37.9	1162	6.02	3.5	0.8	1.2	1.8	29	0.2	<0.1	0.3	190	0.79	0.214
TM-14 04+00N Soil		0.3	166.7	10.5	84	<0.1	29.9	38.6	812	6.46	2.9	0.7	<0.5	1.8	12	0.1	<0.1	0.4	217	0.34	0.123
TM-14 04+50N Soil		0.1	194.8	5.6	89	0.3	32.8	41.3	1458	7.45	1.6	1.1	1.3	2.7	24	0.2	<0.1	<0.1	253	0.90	0.216
TM-14 05+00N Soil		0.4	141.6	9.1	70	0.1	50.5	35.3	640	5.14	3.7	0.8	<0.5	2.5	16	0.2	<0.1	0.3	138	0.41	0.174
TM-14 05+50N Soil		0.3	107.6	10.0	93	0.2	32.6	31.5	763	5.08	2.6	0.6	1.8	1.7	14	0.2	<0.1	0.4	142	0.35	0.191
TM-14 06+00N Soil		0.4	186.1	8.8	72	0.2	55.9	45.0	1181	6.96	4.3	0.7	1.3	2.5	18	<0.1	<0.1	0.2	221	0.52	0.136
TM-14 06+50N Soil		0.3	141.4	14.6	72	0.1	39.9	33.8	839	5.67	3.2	0.6	1.2	1.8	23	0.1	<0.1	0.3	174	0.48	0.126
TM-14 07+00N Soil		0.2	186.7	8.7	69	<0.1	55.3	41.1	959	6.37	15.3	0.9	0.5	2.6	28	0.1	<0.1	0.2	186	0.50	0.119
TM-14 07+50N Soil		0.4	192.0	10.6	75	0.2	36.3	39.7	880	5.81	11.2	0.8	<0.5	2.0	26	0.2	<0.1	0.3	167	0.52	0.143
TM-14 08+00N Soil		0.9	178.7	11.1	81	0.4	69.7	49.9	1631	6.27	34.9	0.4	2.0	1.3	19	0.2	<0.1	0.5	188	0.34	0.101
TM-14 08+50N Soil		0.8	238.1	9.9	73	0.2	89.3	53.8	917	6.71	39.3	1.1	0.8	2.9	21	0.2	<0.1	0.4	194	0.76	0.225
TM-14 09+00N Soil		1.5	208.3	18.4	81	0.2	46.5	36.7	982	6.40	28.0	0.9	<0.5	2.7	39	0.3	<0.1	0.9	244	0.56	0.152
TM-14 09+50N Soil		0.8	308.5	16.4	120	0.2	58.3	53.2	610	5.21	54.0	0.7	3.6	2.6	26	0.6	0.2	0.3	128	0.37	0.109
TM-14 10+00N Soil		0.6	133.9	28.3	198	0.3	66.0	38.0	584	5.00	52.5	0.7	6.5	2.6	21	0.7	0.1	0.3	136	0.38	0.108
TM-14 10+50N Soil		0.8	57.6	18.1	666	0.3	91.6	35.8	1343	5.41	19.5	1.0	10.9	4.4	706	7.5	0.1	0.2	141	0.94	0.182
TM-14 11+00N Soil		0.2	37.6	4.7	116	0.1	16.7	23.5	754	4.94	3.2	1.0	2.1	2.9	98	0.5	<0.1	<0.1	153	0.77	0.317
TM-14 11+50N Soil		0.7	53.7	15.2	177	0.2	22.8	24.3	468	4.16	27.8	0.8	2.8	2.3	79	0.6	0.2	0.2	148	0.48	0.095
TM-14 12+00N Soil		1.1	47.2	20.9	1238	0.6	22.6	27.5	549	4.21	23.7	2.2	19.7	2.0	51	5.6	0.2	0.3	152	0.38	0.072
TM-14 12+50N Soil		0.4	45.3	8.3	167	0.4	16.4	29.1	480	3.99	4.8	1.0	2.9	2.2	99	0.8	0.1	0.1	177	0.71	0.102
TM-14 13+00N Soil		0.7	69.6	7.6	79	0.3	32.6	29.6	384	3.87	5.0	0.6	2.3	2.2	69	0.3	<0.1	0.1	117	0.61	0.228
TM-14 13+50N Soil		0.6	74.6	6.2	66	0.6	28.7	28.9	449	4.03	3.1	0.7	2.5	2.0	74	0.2	<0.1	0.1	130	0.61	0.211
TM-14 14+00N Soil		0.6	39.4	9.9	92	0.1	20.0	19.9	515	4.63	2.7	1.1	0.8	4.5	47	0.3	<0.1	0.1	128	0.57	0.255
TM-14 14+50N Soil		0.7	51.4	9.4	107	<0.1	21.7	23.0	567	5.23	2.9	0.8	0.7	4.4	43	0.2	<0.1	0.1	153	0.62	0.265
TM-14 15+00N Soil		0.8	13.6	11.5	107	<0.1	11.4	14.4	596	4.82	2.4	1.0	1.8	5.4	41	0.3	<0.1	0.1	111	0.39	0.160
TM-14 15+50N Soil		0.8	19.8	11.8	106	0.1	13.8	16.0	494	4.27	3.6	1.2	<0.5	5.3	36	0.3	<0.1	0.1	104	0.37	0.173
TM-13 00+00 Soil		1.6	41.9	30.7	575	0.7	14.8	14.7	617	5.01	79.0	1.3	26.7	4.2	141	1.8	0.3	0.4	117	0.32	0.163
TM-13 00+50S Soil		1.8	118.4	14.9	114	0.2	47.2	25.0	551	5.06	35.6	0.6	4.8	1.6	11	0.2	<0.1	0.2	137	0.21	0.131





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# CERTIFICATE OF ANALYSIS

	Method	1DX															
	Analyte	La	Cr	Mg	Ва	Ti	в	AI	Na	к	w	Hg	Sc	ті	S	Ga	Se
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
TM-14 02+00N So	I	7	102	1.79	199	0.190	<20	3.35	0.009	0.14	1.7	0.02	6.7	0.4	<0.05	9	2.8
TM-14 02+50N So	I	9	125	2.61	389	0.175	<20	3.79	0.010	0.47	0.6	0.01	3.7	0.5	<0.05	10	0.8
TM-14 03+00N So	I	L.N.R.															
TM-14 03+50N So	il	5	113	3.11	411	0.217	<20	3.49	0.011	1.24	0.2	<0.01	7.7	1.1	<0.05	12	<0.5
TM-14 04+00N So	I	5	37	2.39	397	0.258	<20	3.65	0.008	1.19	0.1	<0.01	3.9	1.1	<0.05	12	<0.5
TM-14 04+50N So	il	7	31	3.03	1053	0.357	<20	3.97	0.011	1.96	0.1	0.01	6.3	1.3	<0.05	15	<0.5
TM-14 05+00N So	I	6	102	2.56	505	0.230	<20	3.47	0.011	1.00	0.2	0.01	2.7	0.8	<0.05	10	<0.5
TM-14 05+50N So	il	4	51	2.09	440	0.237	<20	3.42	0.011	0.80	0.2	0.01	2.6	0.7	<0.05	10	<0.5
TM-14 06+00N So	I	7	216	2.75	372	0.233	<20	3.49	0.011	1.20	0.2	0.01	8.9	0.8	<0.05	12	<0.5
TM-14 06+50N So	I	5	104	2.88	407	0.232	<20	3.58	0.011	1.13	0.2	<0.01	4.7	0.9	<0.05	11	<0.5
TM-14 07+00N So	I	11	106	3.30	460	0.253	<20	4.22	0.012	0.90	0.1	0.01	8.4	0.7	<0.05	12	<0.5
TM-14 07+50N So	I	6	44	2.60	552	0.265	<20	3.85	0.013	0.92	0.3	<0.01	4.1	0.9	<0.05	11	<0.5
TM-14 08+00N So	I	4	95	2.75	363	0.217	<20	3.83	0.018	0.88	0.4	0.02	5.9	0.8	<0.05	11	<0.5
TM-14 08+50N So	il	8	184	3.61	973	0.230	<20	3.97	0.019	2.11	0.2	<0.01	5.2	1.3	<0.05	12	<0.5
TM-14 09+00N So	I	10	78	2.81	329	0.220	<20	3.42	0.013	0.61	3.0	<0.01	10.9	0.6	<0.05	11	0.6
TM-14 09+50N So	il	10	58	1.76	218	0.192	<20	3.25	0.015	0.21	0.5	0.02	4.3	0.4	<0.05	10	<0.5
TM-14 10+00N So	I	7	114	1.96	251	0.205	<20	3.60	0.012	0.28	0.3	0.02	3.5	0.4	<0.05	10	<0.5
TM-14 10+50N So	il	29	83	2.42	337	0.192	<20	4.22	0.033	0.19	0.7	0.01	8.9	0.3	<0.05	11	<0.5
TM-14 11+00N So	il	13	78	1.80	468	0.266	<20	3.75	0.023	0.76	0.3	0.02	3.9	0.3	<0.05	11	<0.5
TM-14 11+50N So	il	10	61	1.64	129	0.232	<20	3.63	0.019	0.11	0.4	0.02	5.5	0.2	<0.05	9	<0.5
TM-14 12+00N So	il	9	137	1.68	74	0.229	<20	3.66	0.014	0.09	1.3	0.03	7.2	<0.1	<0.05	9	<0.5
TM-14 12+50N So	il	7	106	1.70	120	0.274	<20	3.91	0.015	0.12	1.0	0.03	6.4	0.1	<0.05	10	<0.5
TM-14 13+00N So	il	9	50	1.21	83	0.151	<20	2.86	0.017	0.10	0.4	0.02	3.7	<0.1	<0.05	8	<0.5
TM-14 13+50N So	il	9	48	1.37	78	0.147	<20	2.75	0.016	0.09	0.4	0.02	4.1	<0.1	<0.05	8	<0.5
TM-14 14+00N So	il	13	49	1.53	174	0.211	<20	3.37	0.015	0.31	0.4	0.02	4.5	0.3	<0.05	10	0.6
TM-14 14+50N So	il	14	47	1.70	141	0.218	<20	3.68	0.012	0.30	1.0	<0.01	4.9	0.2	<0.05	11	<0.5
TM-14 15+00N So	il	12	37	1.23	102	0.223	<20	3.66	0.011	0.33	0.4	0.05	3.7	0.4	<0.05	13	<0.5
TM-14 15+50N So	il	15	48	1.32	110	0.188	<20	3.12	0.011	0.21	0.4	0.02	3.9	0.2	<0.05	11	<0.5
TM-13 00+00 So	il	10	34	1.17	151	0.178	<20	5.15	0.019	0.11	1.3	0.04	6.0	0.1	<0.05	11	<0.5
TM-13 00+50S So		5	85	1.95	109	0.171	<20	4.27	0.012	0.14	0.3	0.03	3.3	0.2	<0.05	10	<0.5





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VAN08010530.1

# CERTIFICATE OF ANALYSIS

	Meth	od	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Anal	/te	Мо	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	v	Ca	Р
	U	nit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	М	DL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
TM-13 01+00S	Soil		0.8	109.6	12.7	107	0.1	32.1	29.6	563	6.16	16.5	1.0	0.9	4.0	11	0.2	<0.1	0.2	205	0.19	0.114
TM-13 01+50S	Soil		0.4	98.9	8.7	72	0.3	24.5	22.8	453	4.86	7.2	0.7	<0.5	2.6	9	0.1	0.1	0.2	142	0.19	0.147
TM-13 02+00S	Soil		1.1	101.3	27.5	120	0.3	27.3	23.0	680	4.85	63.3	1.0	118.3	2.5	17	0.6	0.2	0.4	150	0.44	0.131
TM-13 02+50S	Soil		1.3	50.3	11.5	54	0.3	19.8	12.2	389	3.59	10.8	0.6	1.4	1.7	8	0.2	0.2	0.3	86	0.10	0.101
TM-13 03+00S	Soil		0.2	134.0	3.8	56	<0.1	32.3	25.7	481	5.06	8.6	0.9	<0.5	2.3	10	0.1	<0.1	0.1	157	0.37	0.176
TM-13 03+50S	Soil		1.2	199.3	13.4	89	<0.1	103.7	52.5	728	5.15	17.3	0.6	1.0	2.0	32	0.2	<0.1	0.3	133	0.23	0.056
TM-13 04+00S	Soil		3.1	250.1	19.3	84	0.3	103.2	73.6	1389	4.90	25.6	0.5	7.8	2.0	21	0.3	0.2	0.3	131	0.21	0.083
TM-13 04+50S	Soil		0.4	184.5	5.1	64	0.5	47.2	37.2	1240	5.33	41.0	0.6	4.7	1.8	37	0.2	<0.1	0.2	186	0.71	0.166
TM-13 05+00S	Soil		0.9	185.0	24.7	114	0.7	187.1	66.7	845	4.12	153.1	2.7	9.3	2.1	36	0.6	0.1	0.6	92	0.40	0.101
TM-13 05+50S	Soil		0.8	111.3	8.4	63	0.2	33.1	32.6	649	4.52	83.7	0.7	3.4	1.0	10	0.2	0.1	0.2	126	0.27	0.140



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# CERTIFICATE OF ANALYSIS

		Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Analyte	La	Cr	Mg	Ва	Ti	В	AI	Na	ĸ	w	Hg	Sc	TI	S	Ga	Se
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
TM-13 01+00S	Soil		8	79	2.03	115	0.223	<20	4.05	0.008	0.30	0.3	0.03	4.9	0.2	<0.05	11	<0.5
TM-13 01+50S	Soil		6	49	1.60	128	0.219	<20	3.33	0.010	0.46	0.3	0.02	2.3	0.3	<0.05	10	<0.5
TM-13 02+00S	Soil		8	58	1.59	207	0.210	<20	3.17	0.013	0.62	0.3	0.02	3.2	0.5	0.05	11	<0.5
TM-13 02+50S	Soil		4	42	0.79	87	0.177	<20	3.00	0.012	0.11	0.2	0.05	1.7	0.2	<0.05	11	<0.5
TM-13 03+00S	Soil		8	92	2.21	499	0.231	<20	3.28	0.009	0.90	0.1	<0.01	1.4	0.6	<0.05	11	<0.5
TM-13 03+50S	Soil		6	249	3.23	348	0.223	<20	4.26	0.011	0.56	0.4	0.01	4.7	0.5	<0.05	10	<0.5
TM-13 04+00S	Soil		6	119	2.06	260	0.180	<20	3.11	0.012	0.40	0.8	0.01	6.3	0.6	<0.05	9	0.7
TM-13 04+50S	Soil		5	63	2.19	345	0.196	<20	2.63	0.013	1.32	0.2	<0.01	5.9	1.0	<0.05	9	<0.5
TM-13 05+00S	Soil		10	221	2.36	176	0.142	<20	3.30	0.011	0.31	7.0	0.02	4.3	0.7	<0.05	8	<0.5
TM-13 05+50S	Soil		5	66	1.80	316	0.178	<20	2.85	0.010	0.66	0.2	0.01	2.4	0.6	<0.05	9	<0.5

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QUALITY CONTROL REPORT VAN08010530.1																					
	Method Analyte	1DX Mo	1DX Cu	1DX Pb	1DX Zn	1DX Ag	1DX Ni	1DX Co	1DX Mn	1DX Fe	1DX As	1DX U	1DX Au	1DX Th	1DX Sr	1DX Cd	1DX Sb	1DX Bi	1DX V	1DX Ca	1DX P
	Unit	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%							
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
TM-6 02+00E	Soil	1.1	18.0	10.3	64	0.1	7.5	11.3	790	2.96	1.9	0.5	0.9	0.2	35	0.5	0.2	0.2	101	0.12	0.046
REP TM-6 02+00E	QC	1.0	16.1	9.9	63	0.1	7.0	10.4	734	2.76	1.7	0.4	<0.5	0.2	33	0.4	0.1	0.2	98	0.12	0.044
TM-8 01+00E	Soil	0.8	17.2	19.3	283	0.2	10.6	10.2	299	3.74	8.1	0.6	16.7	2.2	32	1.0	0.1	0.2	110	0.25	0.128
REP TM-8 01+00E	QC	0.8	17.6	18.0	286	0.2	10.4	10.7	303	3.73	7.9	0.6	5.5	2.1	32	1.0	0.1	0.2	110	0.25	0.128
TM-14 01+00N	Soil	17.0	163.6	176.5	1537	1.7	51.6	40.3	1838	11.01	1039	2.4	446.8	3.8	105	13.2	1.6	7.0	134	0.24	0.140
REP TM-14 01+00N	QC	17.2	174.2	195.3	1582	1.6	55.1	42.9	1952	11.61	1094	2.5	350.4	4.0	115	13.5	1.4	7.4	139	0.25	0.147
Reference Materials																					
STD DS7	Standard	21.2	102.2	67.0	379	0.8	53.1	8.9	602	2.31	50.3	4.8	60.3	3.8	74	5.8	4.8	4.4	77	0.90	0.071
STD DS7	Standard	18.9	102.1	66.3	378	0.8	51.8	8.9	600	2.28	52.1	4.9	49.6	4.2	73	5.9	5.1	4.4	78	0.95	0.075
STD DS7	Standard	19.1	99.0	61.3	379	0.8	55.0	9.5	580	2.25	49.8	4.4	55.5	3.9	70	6.3	5.0	4.4	79	0.89	0.083
STD DS7	Standard	19.2	103.6	63.8	379	0.8	55.0	9.3	609	2.29	48.9	4.7	59.5	4.2	71	6.3	5.1	4.5	81	0.90	0.079
STD DS7	Standard	19.0	110.3	65.4	386	0.8	53.6	9.9	581	2.30	56.9	5.0	52.9	4.3	66	6.2	5.8	4.8	77	0.88	0.084
STD DS7	Standard	21.4	117.3	68.8	410	0.9	57.3	10.3	638	2.49	57.9	4.8	53.8	4.5	69	6.9	6.2	5.1	89	0.93	0.094
STD DS7	Standard	22.0	127.0	75.2	408	0.9	66.1	11.1	666	2.69	52.9	4.9	80.1	4.3	76	6.6	4.9	4.9	87	0.91	0.081
STD DS7	Standard	21.9	118.6	76.7	415	0.9	60.4	10.3	690	2.74	55.3	5.4	49.1	4.6	76	6.8	4.8	5.1	91	0.95	0.078
STD DS7 Expected		20.9	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	5.9	4.5	86	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.04	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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# QUALITY CONTROL REPORT

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	La	Cr	Mg	Ba	Ті	в	AI	Na	к	w	Hg	Sc	ті	S	Ga	Se
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Pulp Duplicates																	
TM-6 02+00E	Soil	3	185	0.74	101	0.212	<20	1.58	0.015	0.04	0.2	0.03	1.7	<0.1	<0.05	10	<0.5
REP TM-6 02+00E	QC	3	174	0.71	97	0.203	<20	1.47	0.015	0.04	0.2	0.03	1.6	<0.1	<0.05	9	<0.5
TM-8 01+00E	Soil	5	72	0.96	67	0.240	<20	3.03	0.016	0.07	2.6	0.03	3.7	<0.1	<0.05	11	<0.5
REP TM-8 01+00E	QC	6	72	1.00	68	0.245	<20	3.20	0.016	0.07	1.2	0.02	3.9	<0.1	<0.05	11	0.5
TM-14 01+00N	Soil	13	58	1.07	78	0.042	<20	3.87	0.018	0.07	1.2	0.03	6.4	0.3	0.15	10	7.7
REP TM-14 01+00N	QC	13	58	1.11	79	0.045	<20	4.24	0.019	0.08	0.9	0.04	6.8	0.3	0.15	10	7.7
Reference Materials																	
STD DS7	Standard	13	197	0.98	395	0.115	24	0.99	0.092	0.45	3.3	0.18	2.3	4.0	0.15	5	3.3
STD DS7	Standard	12	200	0.99	398	0.118	36	0.97	0.093	0.45	3.3	0.18	2.3	4.0	0.17	5	3.8
STD DS7	Standard	12	191	1.03	391	0.111	23	1.04	0.097	0.44	3.4	0.18	2.3	4.0	0.19	5	3.3
STD DS7	Standard	12	195	0.98	392	0.120	29	0.99	0.096	0.46	3.5	0.18	2.5	4.1	0.18	5	3.3
STD DS7	Standard	12	167	1.01	393	0.109	38	0.90	0.094	0.45	3.5	0.20	2.6	4.2	0.19	4	3.4
STD DS7	Standard	12	177	1.01	414	0.113	46	0.96	0.088	0.46	3.8	0.19	2.7	4.3	0.20	5	3.6
STD DS7	Standard	12	213	1.12	429	0.119	36	1.05	0.094	0.47	3.5	0.21	2.5	4.5	0.21	5	3.6
STD DS7	Standard	12	218	1.06	436	0.118	39	1.04	0.096	0.46	3.3	0.20	2.5	4.3	0.25	5	3.4
STD DS7 Expected		13	163	1.05	370	0.124	39	0.959	0.073	0.44	3.8	0.2	2.5	4.2	0.21	5	3.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5

VAN08010530.1

Appendix C

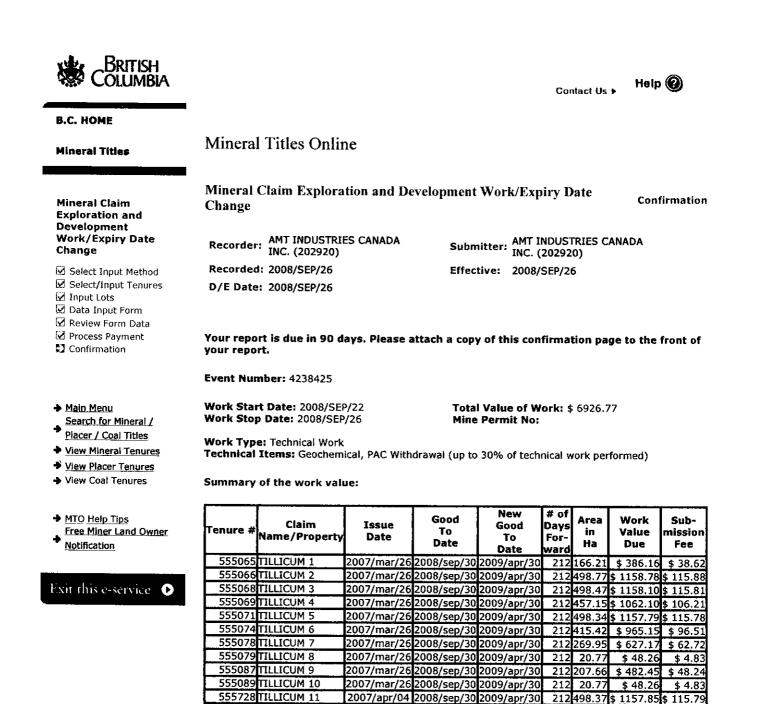
Statement of Expenditures

<b>Pre-Field</b>			
Manager		1 days at \$650 / day	\$650.00
Field Manager	Amy Freisen	1 day at \$400 / day	\$400.00
Plotting	Maps sheets 082K 091, 092, 082N 001, 00	4 plots at \$51.94	\$207.76
Field Program	ı		
Field Manager	Amy Freisen	5 days at \$400 / day	\$2,000.00
Assistant	Chris Darula	5 man-days at \$350 / day	\$1,750.00
Field Supplies		6 man-days at \$20 / day	\$120.00
Quad		3 days at \$150 / day	\$450.00
Satellite Phone	does not include time charges	5 days at \$15 / day	\$75.00
Hand-held VH	F Radios	6 man-days at \$10 / day	\$60.00
Lap-top		3 days at \$20 / day	\$60.00
4WD Truck		4 days at \$75 / day	\$300.00
	Mileage	1,273 km at \$0.80 / km	\$1,018.40
Truck Radio		4 man-days at \$20 / day	\$80.00
	DISBURSEMENTS		
Accommodatio	ns 4 nights		\$668.96
Meals / Grocer	ies		\$351.92
Fuel	Quad		\$292.49
Analyses		97 samples at \$25 / sample	\$2,425.00
Shipping	Greyhound		\$90.00
Post - Field			
Geologist	Report / Data Analysis /	Figures - 4 days at \$650 / day	\$2,600.00 3 charged
Lap-top		4 days at \$20 / day	\$80.00
<b>Binding Report</b>	2 reports at \$4.00 / report	t	\$8.00
Photocopying	164 pages at \$.10 / pg		\$16.40
	colour figures	18 figures at \$0.50	\$9.00
FEDEX - couri		-	\$38.70
		Total	<u>\$13,751.63</u>

Pre-Field			
Manager		1.75 day at \$650 / day	\$1,137.50
Field Manager	Amy Freisen	1 day at \$400 / day	\$400.00
Plotting Maps sheets	082K 091, 092, 082N 001, 002	4 plots at \$51.94	\$207.76
			\$51.94
Field Program			
Field Manager	Amy Freisen	5 days at \$400 / day	
Assistant	Chris Darula	5 man-days at \$350 / day	\$2,000.00
Field Supplies		6 man-days at \$20 / day	\$1,750.00
Quad		3 days at \$150 / day	\$120.00
Satellite Phone	does not include time charges	5 days at \$15 / day	\$450.00
Hand-held VHF Radios		6 man-days at \$10 / day	\$75.00
Lap-top		3 days at \$20 / day	\$60.00
4WD Truck		4 days at \$75 / day	\$60.00
	Mileage	1,273 km at \$0.80 / km	\$300.00
Truck Radio		4 man-days at \$20 / day	\$1,018.40
DISBURSEMENTS			\$80.00
Accommodations	4 nights		çooloo
Meals / Groceries		Meals / Groceries	\$668.96
Fuel	Quad		\$351.92
Analyses	2	97 samples at \$25 / sample	\$292.49
Shipping		Greyhound	\$2,425.00
			\$90.00
Post - Field			
Geologist		Report / Data Analysis / Figures - 4 days at \$650 / da	y \$2,600.00 3 charged
Lap-top		4 days at \$20 / day	\$80.00
Binding Report		2 reports at \$4.00 / report	\$8.00
Photocopying		164 pages at \$.10 / pg	\$16.40
	colour figures	18 figures at \$0.50	\$9.00
FEDEX - courier report	2	FEDEX - courier report	\$38.70
		Total	<u>\$14,291.07</u>

Appendix D

**Program-Related Documents** 



Total required work value: \$ 8252.07 PAC name: AMT Industries Canada **Debited PAC amount:** 1325.30 \$ **Credited PAC amount:** \$ 0.00 **Total Submission Fees:** \$ 825.21 **Total Paid:** 825.21 \$

The event was successfully saved.

Please use **Back** button to go back to event confirmation index.

Help 🚱



#### **B.C. HOME**

**Mineral Titles** 

### Mineral Titles Online

**Credit Card Payment** 

Current time: 2008/SEP/26 14:44:00 You are logged in as: BCeID\PWSHORT

Contact Us 🕨

MTO - Payment

Shopping Cart

Payment Processing
 Payment Confirmation

Event(s) Confirmation

Continue

Approved

#### Please click "Continue" to proceed.

The following information details the approval of your credit card transaction. Please use the Print options below to print a copy of this page for your records. The information on this receipt will be required if you contact our Help Desk regarding your payment.

Service Provided: Mineral Titles Br.

Date:	Sep 26, 2008	Transaction Type:	Purchase
Card Type:	Visa	Amount:	\$ 825.21
Card Number:	XXXXXXXXXXXXXXXXX	Invoice Number:	110144372

Note 1: The above card number is hidden for privacy.

Approval Code:	616234	Response Message:	Approved
Host Date/Time:	Sep 26, 2008 / 02:43:55PM	Sequence Number:	000000000000000000
ISO Response Code:	00	Terminal ID:	Y20665182001
Response Code:	000		
ISO Response Code:	00	•	

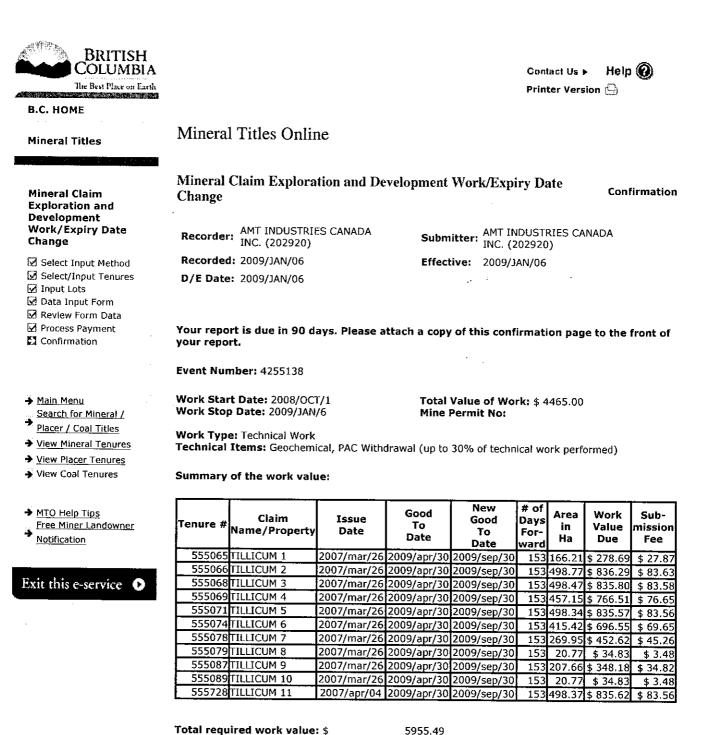
Note 2: "Mineral Tenure Operation" will appear on your credit card statement.

#### Print

Click here to print copies of your document. A printer-friendly window will open and you can print and save it for your records.

#### **Thank You**

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 PAC name:
 AMT Industries Canada

 Debited PAC amount:
 \$ 1490.49

 Credited PAC amount:
 \$ 0.00

 Total Submission Fees:
 \$ 595.55

 Total Paid:
 \$ 595.55

The event was successfully saved.

Please use **Back** button to go back to event confirmation index.

Help 🚱



**B.C. HOME** 

**Mineral Titles** 

### Mineral Titles Online

**MTO ~ Payment** 

Shopping Cart

Payment Processing E Payment Confirmation

Event(s) Confirmation

Current time: 2009/JAN/06 13:17:48 You are logged in as: BCeID\PWSHORT

Contact Us >

Printer Version

**Credit Card Payment** 

### Approved

Continue

Please click "Continue" to proceed.

The following information details the approval of your credit card transaction. Please use the Print options below to print a copy of this page for your records. The information on this receipt will be required if you contact our Help Desk regarding your payment.

Service Provided: Mineral Titles Br.

Date:	Jan 06, 2009	Transaction Type:	Purchase
Card Type:	Visa	Amount:	\$ 595.55
Card Number	: XXXXXXXXXXXXXXXX	Invoice Number:	110153589

Note 1: The above card number is hidden for privacy.

Approval Code:	516071	Response Message:	Approved
Host Date/Time:	Jan 06, 2009 / 01:17:43PM	Sequence Number:	000000000000000000
ISO Response Code:	00	Terminal ID:	Y20665182001
Response Code:	000		

Note 2: "Mineral Tenure Operation" will appear on your credit card statement.

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Thank You

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