

**PHASE ONE DIAMOND DRILLING PROGRAM REPORT**

**BEAVER LAKE PROJECT**

**GREENWICH LAKE AREA**

**THUNDER BAY MINING DIVISION**

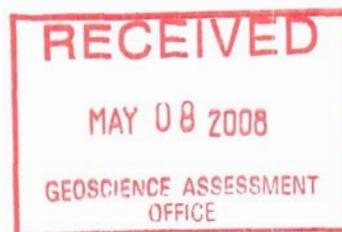
**NORTHWESTERN ONTARIO**

**2007**

**Magma Metals (Canada) Limited,**  
P.O. Box 10628, Thunder Bay, Ontario P7B 6V1  
871A Tungsten Street, Thunder Bay, Ontario P7B 6H2

Justin R. Johnson, M.Sc.  
Project Geologist

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## Table of Contents

Summary.....	i
Introduction.....	1
Property, Location, and Access.....	1
Exploration History.....	3
Phase I Drilling Results.....	4
Summary of Rock Units.....	7
Summary of Drill Holes.....	8
Interpretation and Recommendations.....	9
References.....	10
Certificate of Qualification, Justin R. Johnson.....	11

## List of Tables

Table 1: Claim List.....	1
Table 2: Road Log.....	1
Table 3: Phase I Drill Hole.....	4

## List of Figures

Figure 1: Property Location Map.....	2
Figure 2: Claim Continuity Map.....	5
Figure 3: Drill Hole Plan Map.....	6

## List of Appendices

Appendix 1: Drill Log BL07-01.....	12
Appendix 2: Certificates of Analysis.....	13

## List of Drill Sections

BL07-01.....	Back Pocket
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## Summary

The Magma Metals (Canada) Limited Beaver Lake project is located 45 km northeast of Thunder Bay, ON and targets Ni-Cu-PGE mineralization within an ultramafic intrusion of presumed Keweenawan age. One diamond drill hole tested a strong, roughly circular, magnetic low defined by a previous airborne magnetometer survey. The source of this anomaly was thought to be a reversely magnetized (polarized) body of mafic to ultramafic intrusive rock.

A single, 500m hole was drilled between September 6 and September 21, 2007 and intersected a thick ultramafic intrusive body composed of medium-grained, often feldspathic peridotite. The hole collared within granitic rocks and, with depth emerged into to clastic metasedimentary rock, of the Quetico Subprovince, that was crosscut by granitic dykes. At a depth of 186.5m a diorite to monzonite containing subround quartz clasts was intersected and is interpreted to be a magma mixing zone between the underlying peridotite and the melted overlying country rocks. The ultramafic intrusive body intersected within the hole consisted of 224.5m of peridotite and feldspathic peridotite containing trace to 3% disseminated pyrrhotite, pyrite, and some chalcopyrite. Strongly anomalous to low-grade values of Pt and Pd were intersected near the upper and lower contacts of the peridotite and graded 0.53 grams per tonne (g/t) Pt+Pd/20.90m and 0.66 g/t Pt+Pd/15.00m, respectively. Additional elevated and anomalous (>0.5 g/t Pt+Pd) values were intersected within the body of the peridotite. Below the peridotite additional clastic metasedimentary rocks were intersected.

## Introduction

Magma Metals (Canada) Limited (a wholly-owned subsidiary of Magma Metals Limited of Australia) completed a single, 500m, diamond drill hole on the Beaver Lake project during September, 2007. The drill hole tested a strong, roughly circular, magnetic low defined by a previous airborne magnetometer survey. The source of this anomaly was thought to be a reversely magnetized (polarized) body of mafic to ultramafic intrusive rock.

## Property, Location, and Access

The Beaver Lake Property consists of a single 12 unit claim, under option from Casimir Zimowski and Ronald Pizzolato (Table 1), and is located approximately 45 km northeast of the city of Thunder Bay. The property is accessible by proceeding east on Trans-Canada Highway 17 East, then turning north on Highway 527, the Armstrong Highway, then turning east onto the Escape Road, and finally north onto the Shallowest East Road. A road log to the property is presented within Table 2.

**Table 1: Claim List**

Claim Number	Claim Units	Claim Ownership	Claim Due Date	Amount Due (\$)
4210157	12	C. Zimowski, R. Pizzolato	May 10, 2008	4800
<b>TOTALS</b>	<b>12</b>			<b>4,800</b>

**Table 2: Road Log**

<i>Km (section)</i>	<i>Location, feature</i>	<i>Notes</i>
0.0	Thunder Bay	
10.4	Hwy. 17E / Hwy. 527 turn	N up Armstrong Highway
22.7	Escape Road (turn right)	E on gravel road off Hwy. 527
17.3	Shallowest East Road	Go left (N)
5.3	Main junction to left (W)	Go left (W)
2.0	Spur on left (S) in clear-cut	Go straight (W)
1.0	Located ~north of Beaver Lake	

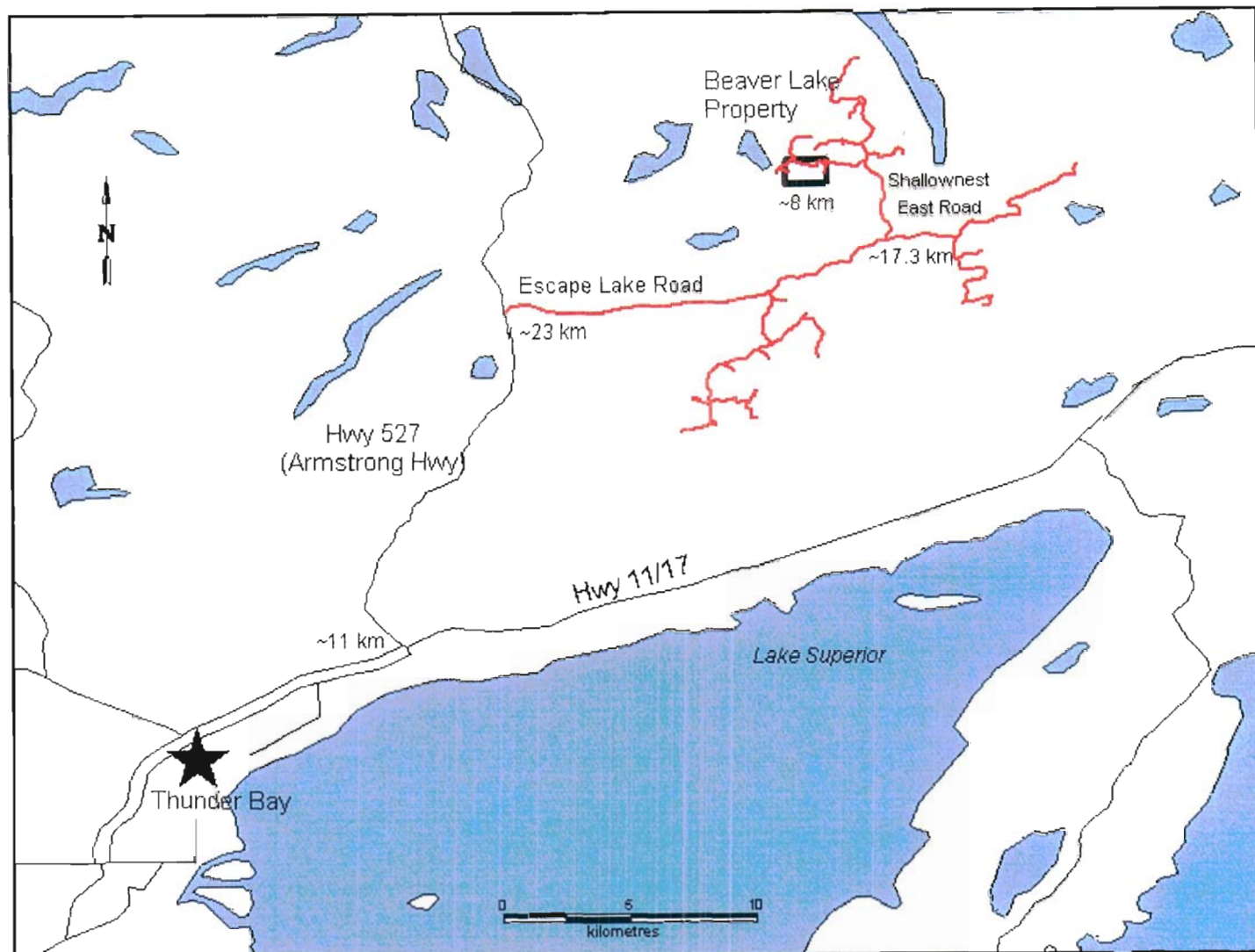


Figure 1: Property Location map

## Exploration History

The Beaver Lake property is located in an area that, until recently, was relatively unexplored. No known previous exploration has been completed on the Beaver Lake claim. Recent exploration work, including geophysics, prospecting and diamond drilling, has been completed on Magma Metals adjacent Thunder Bay North Property to the north and. Known exploration activity in the vicinity of the Beaver Lake property is summarized below.

**Pre-1993:** Early exploration within the area concentrated on uranium, more specifically the Christianson (1949) showing which is located a few km east of Current Lake, near the western shore of Greenwich Lake. Rio Tinto optioned the Christianson showing from MW Resources Ltd in January 1976 and staked additional claim units that extended west from Greenwich Lake over northern Current Lake towards Steepledge and Ray lakes (Benkis, 1977. Rio Tinto completed a program of field mapping and diamond drilling (Benkis, 1977).

**1993 to 1998:** In September 1993 G. Harper, G. Wilson, and F. Manns began preliminary exploration within the Onion Lake, Tartan Lake and Greenwich Lake areas. This work consisted of rock and soil sampling in addition to petrographic and geochemical research. The initial focus was based on airborne magnetic anomalies within the area and specifically targeted diamonds. The initial staking of the Thunder Bay North Property was completed during this period.

**1999-2000:** In 1999 Harper and Wilson conducted a range of prospecting and sampling work in the region, including limited soil sampling and ground magnetic surveys (Harper and Wilson, 2000; Wilson and Harper, 2000).

**2001-2002:** Pacific North West Capital Corporation of Vancouver optioned the Thunder Bay North Property in 2001 from Harper and Wilson. The option was based on the Wilson and Harper discovery of ultramafic boulders along the western shoreline of Current Lake. These peridotite boulders contained appreciable grades of Cu-Ni-Pt-Pd. Work completed included ground-magnetic and electromagnetic surveys over the ice on Current Lake and the small pond (Beaver Lake) located within the present property. In addition, a 6 hole, 813.50m diamond drilling program, tested three locations along the west shoreline of Current Lake in September and October 2002 (Kleinboeck and Jobin-Bevans, 2002). The drilling encountered only weak mineralization with minimal assay values within what was described as a north-south, west- dipping "gabbro" or "diabase". This dyke, not seen at surface, appeared to be  $\leq 0$  m thick and did not resemble the mineralized ultramafic boulders. Pacific North West Capital dropped the option in 2002.

**2005-2006:** In 2005 Magma Metals Limited optioned the Thunder Bay North Property after the discovery of additional mineralized ultramafic boulders south of the original boulder discovery. In early to mid-2006 Magma completed basic mapping of Thunder Bay North claim 842189 (Wilson, 2006a) with some petrographic and additional follow-up work (Wilson, 2006b) and a McPhar Geosurveys Limited combined helicopter-borne magnetic and gamma-ray spectrometer survey over the Thunder Bay North area. Magma Metals optioned the Beaver lake property from C. Zimowski and R. Pizzolato in October 2006. Soon thereafter a Geotech Limited helicopter-borne VTEM

electromagnetic survey was flown over the southern Current Lake-Beaver Lake area that outlined several moderate EM anomalies. During January and February 2007 a ground I.P. survey was completed over the southern portion of the Thunder Bay North Property and the western half of the Beaver Lake which outlined several chargeability and resistivity anomalies. Between late November 2006 and mid-August 2007 Magma Metals completed 26 diamond drill holes, totalling 3917.3m in the Current Lake area of the Thunder Bay North Property.

### Phase-1 Drilling Results

The Phase 1 diamond drilling program began September 4, 2007, ended September 22, 2007, and consisted of one 500m hole (BL07-01) (*see* Table 1 and Figures 2 and 3). The drilling was contracted to Dominion Drilling Limited of Pleasantdale Saskatchewan who used a modified, helicopter-portable Boyles 37 rig drilling NQ-size core. Wisk Air Helicopters of Thunder Bay provided all helicopter support for the exploration program. Downhole orientation surveys were completed with a Reflex EZ-Shot tool at regular intervals. Drill pads were prepared by Magma Metals (Canada) Limited contract personnel.

All core logging and sampling was completed at a secure location in Thunder Bay ON. Selected intervals were sawn and half the material bagged for assay with a total of 464 samples taken. The assay intervals were generally 1 metre in length, but somewhat lesser or greater intervals would be taken on the basis of differing lithologies and mineralization. All samples were taken to the ALS Chemex prep-lab in Thunder Bay, ON where primary crushing and pulverizing took place. Analyses of pulps were done at the ALS Chemex Laboratory located in North Vancouver, BC.

Internal quality control consisted of regularly spaced silica blanks and a standard (placed within the sample sequence). The drill-core technicians (responsible magnetic susceptibility measurement and sampling of drill core) were J. Martin and J. Black

**Table 3: Phase 1 Drill Holes.**

Drill Hole	UTM Nad83 N	UTM Nad83 E	Azimuth	Dip	Depth (m)	Dates Drilled
BL07-01	5402550	358600	200	-45	550	September 6-21, 2007

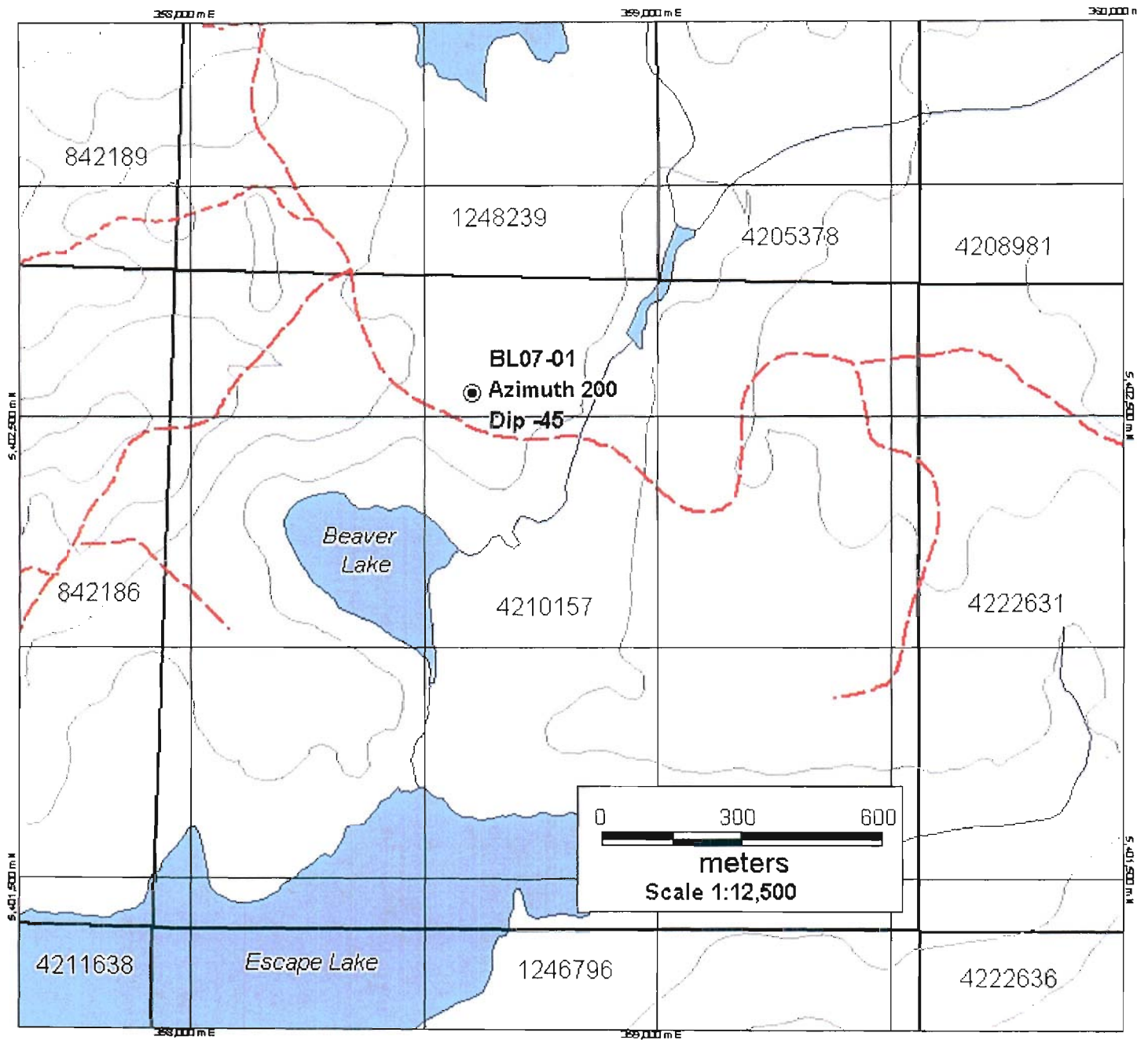


Figure 2: Claim Continuity Map, NAD83 Zone 16



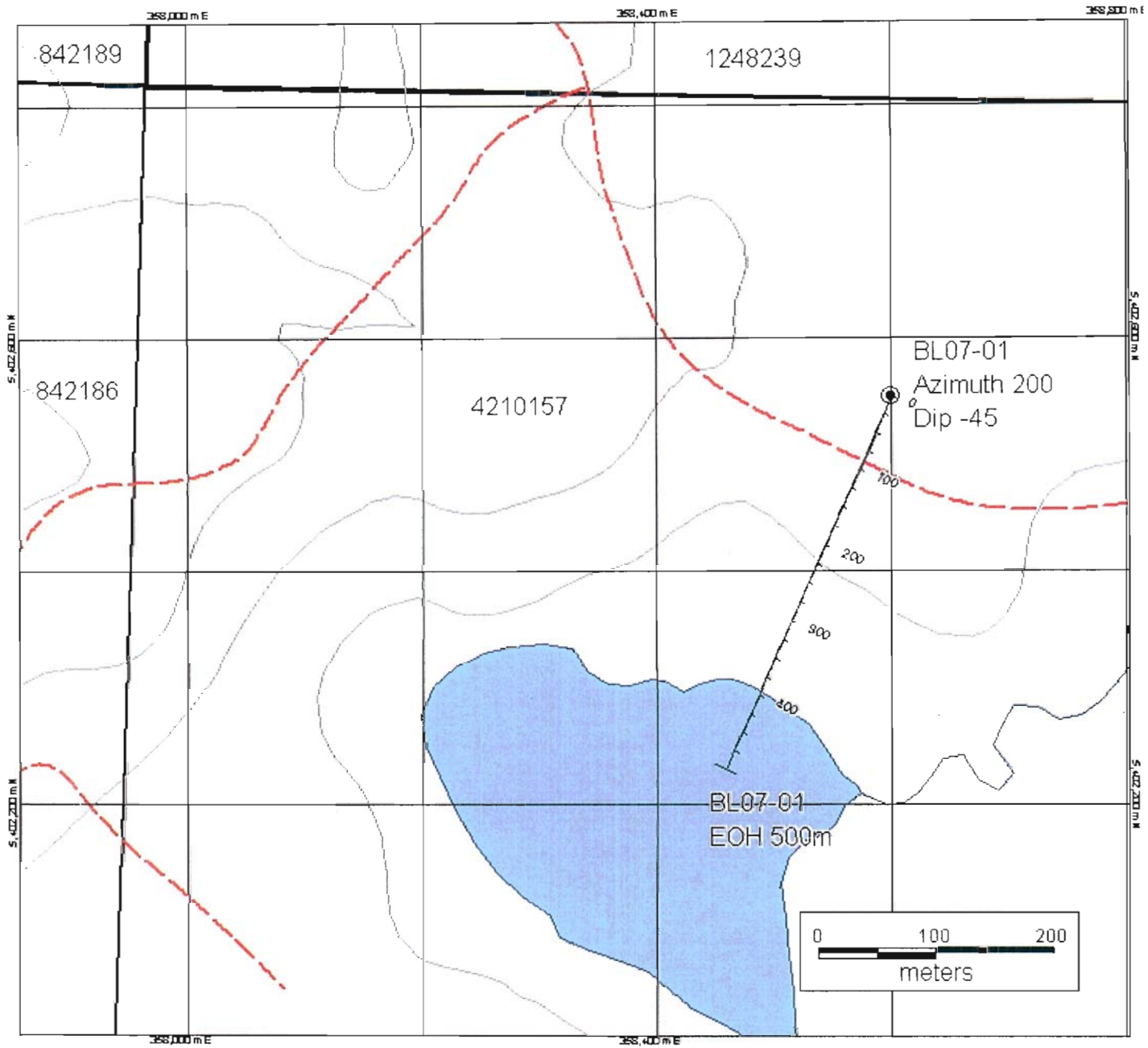


Figure 3: Drill Hole Plan Map, NAD83 Zone 16

## Summary of Rock Units

The rock types encountered consisted of a variety felsic to intermediate granitoid rocks, metasedimentary rocks, peridotite, a hybridized contaminated peridotite, and a contaminated, hybridized intermediate intrusive, given the field name of monzonite-diorite.

The **granitoid rocks** are variable in appearance and modal composition and are mainly granite and granodiorite. They are generally medium grained with localized narrow intervals of pegmatoidal and fine grained material (aplite). Locally strong shearing is observed as are narrow, discrete fault zones but in general these rocks are massive to weakly foliated. Alteration consisted of reddening, and occasionally a browning, of the feldspars (potassic or possibly haematitic alteration) as well as a pale yellowish to cream coloured alteration (epidote) associated with some of the fractures. Chlorite can also be found along fractures and is often abundant near zones of strong shearing. Granitoid dykes that occur near or within the ultramafic intrusion are generally brick red in colour.

The **metasedimentary rocks** are generally massive to moderately foliated (~35° to core axis; roughly vertical to sub-vertical orientation relative to surface) clay-silt to fine sand in original composition. Variations within the rock type include mica rich intervals, quartz ± carbonate veinlets (variable size, number and orientation), shearing and alteration. Zones of intense shearing and faulting occur locally. Alteration consists of chlorite, sericite, epidote (associated with fractures), and a red-red brown alteration that occurs near the peridotite (likely potassic alteration). Granitoid dykes of various sizes and orientations sporadically occur through the metasedimentary rocks.

An unusual hybrid rock type was intersected and given a working name of **diorite-monzonite**. The unit's composition itself is variable, consisting of fine to medium grained components, highly variable in alteration and containing intervals with abundant quartz clasts/xenoliths. The unit likely represents a magma mixing event of multiple injections of peridotite (hybrid peridotite) with variable amounts of melted and assimilated metasedimentary and granitoid country rock. Internal contacts that define grain size variations and alteration are often sharp within the unit, evidence of chilled margins occur in rare instances. Several intervals were found to contain abundant rounded to tabular quartz clasts or xenoliths up to 60mm in size. Some of the quartz clasts display recrystallization features ('sugary' texture), in addition specks of molybdenite and other sulphides were sometimes found within the quartz. The quartz likely is derived from partial assimilation of a large quartz vein(s) but could also be the result of near complete assimilation of a granitic (pegmatitic) dyke. Compositional intervals of the unit resemble the hybrid peridotite (described below). Alteration consists of pervasive and fracture-controlled red-brown to brick-red colouration (potassic or haematitic) that becomes more intense as the ultramafic body is approached as well as carbonate ocellae (possible evidence of magma mixing) and pervasive carbonatization.

The *hybrid peridotite* varies from a fine to medium grained reddish-brown colour to medium grained grey to black colouration. Carbonate ocellae occur throughout and in addition plagioclase laths are very common. This unit is very similar to a hybrid peridotite unit located above a peridotite body reported by Magma Metals (Canada) Limited on their Thunder Bay North property located at Current Lake (located <2km to the west).

The *peridotite* is generally massive, dark brown to dark grey-black in colour, medium to fine grained, and moderately to highly magnetic. Local occurrences of plagioclase (up to 3-5% with rare instances of 25%) are found through the unit, but generally concentrate near the upper and lower contacts of the intrusion. Sporadic veinlets of serpentine, talc, chlorite or carbonate occur as do narrow granitoid dykes. Variable amounts of disseminated pyrrhotite, chalcopyrite, and pyrite occur throughout with an overall average of 1 to 2% and localized concentrations of 5 to 7% (usually near the upper and lower contacts).

### Summary of Drill Hole BL07-01

The complete drill log, with section and assay data, is presented within Appendix 2.

**BL07-01:** The hole was drilled at a -45° dip, a 200° azimuth, collared within a granitoid rock and passed into fine clastic metasedimentary rocks (siltstone and fine wacke) at a depth of 59.5m. Within the metasedimentary rocks the drill hole encountered two areas of intense shearing or faulting at 97.3 to 104.9m and 118.0 to 119.3m. The metasedimentary rocks in general exhibited a foliation of approximately 35° to the core axis, but evidence of folding was seen throughout the unit. Mineralization intersected within the metasedimentary rocks consisted of **2.40ppm Ag/0.45m** and **1.90ppm Ag/0.40m** with **167ppm Mo/0.40m** near the upper contact with the overlying granitoid rocks at 59.90m. As well sporadic elevated Mo values in the range of 20 to 80ppm occur through the unit. The contact between the metasedimentary rocks and the diorite-monzonite unit is indistinct and gradational and located at about 185.5m. The diorite-monzonite is a relatively thick unit (41.20m) with only a single anomalous assay of 224ppm Mo/0.55m derived from a quartz clast containing disseminated to blebby molybdenite. Beneath the diorite-monzonite is a thin, 3.0m thick hybrid peridotite unit. It is possible to consider the diorite-monzonite and the hybrid peridotite as resulting from the same magma mixing event(s) and represent slight differences in mixing, composition, and crystallization. A 224.5m thick, locally feldspathic to feldspar-rich peridotite body was intersected between 229.65 and 454.10m. The concentrations of feldspar were generally associated with the upper and lower contacts of the peridotite body and locally produced olivine-rich melagabbro or pyroxene melatroctolite. The peridotite was variably mineralized, generally adjacent or near to the upper and lower contacts, with **0.299ppm Pt, 0.290ppm Pd, 0.029ppm Au, 0.092% Cu, 0.104% Ni/16.85m** from 230.10 to 246.95m, including **0.740ppm Pt, 0.700ppm Pd, 0.065ppm Au, 0.287% Cu, 0.137% Ni/0.80m;** **0.466ppm Pt, 0.438ppm Pd, 0.034ppm Au, 0.110% Cu, 0.213% Ni/9.00m** from 402.00 to 411.00m, including **0.925ppm Pt, 0.855ppm Pd, 0.073ppm Au, 0.214% Cu, 0.221% Ni/2.00m;** and sporadic values of elevated to anomalous PGE and base metals elsewhere. Below the peridotite the fine clastic metasedimentary rocks continue to the end of the hole at 500m.

## **Interpretation and Recommendations**

A thick peridotite intrusion of unknown orientation and ultimate dimensions was identified during Phase I drilling of the Magma Metals (Canada) Limited Beaver Lake Property. The peridotite is known to host anomalous to low-grade, but significant, values of Pt, Pd, Cu, and Ni and, assuming it is analogous to the peridotite body located to the west at Current Lake on the Thunder Bay North Property owned by Magma Metals, it has the potential for containing economically viable amounts of PGEs and base metals.

The main body of peridotite is interpreted, from geophysics, to be a large cylinder of unknown thickness located approximately beneath Beaver Lake. There are a series of magnetic anomalies and trends leading from the Beaver Lake peridotite to the west and north to the Current Lake peridotite indicating that the two bodies are likely related and probably are physically linked. In order to delineate the intrusion and test the possible link between the two peridotite bodies additional drilling and detailed ground magnetic surveys are recommended.

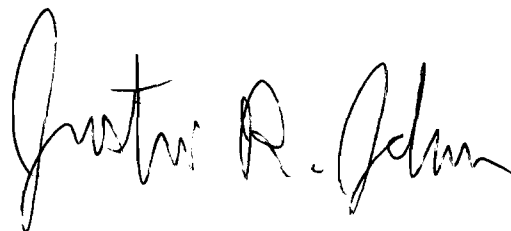
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**Certificate of Qualification****Justin R. Johnson**

I, Justin R. Johnson, of 101 Whalen Street, Thunder Bay, ON do hereby certify that:

1. I hold a Bachelor of Science (Honours) Degree in Geology (2001), Bachelor of Science (Honours) Degree in Physics and Geology (2001) and a Master of Science Degree (Geology) (2005) from Lakehead University, Thunder Bay, Ontario;
2. I was been employed as an independent contract geologist from 1999 to 2007 with various exploration companies within Ontario, Quebec, British Columbia, and Durango, Mexico.
3. I am currently employed by Magma Metals (Canada) Limited in Thunder Bay, Ontario as a Project Geologist;
4. Permission is granted to Magma Metals (Canada) Limited to use this report in a prospectus or other financial offering;
5. I have been granted 75, 000 Magma Metals share options exercisable in September 2008, 75,000 options exercisable in September 2009, and a further 100, 000 options exercisable in September 2010.



Justin R. Johnson, MSc.  
Project Geologist

**Appendix 1**  
**Phase 1 Diamond Drill Log BL07-01**

Project: Beaver Lake				Magma Metals (Canada) Limited Drill Log																			
Hole#:				Down-hole Orientation Tests																			
BL07-01 Length: 500 m				Depth (m)				Type	Azimuth °		Dip °		Depth (m)				Type	Azimuth °		Dip °			
Start Date: 6-Sep-07 Azimuth: 200 °				0				Ideal	200.0		45.0		191				Reflex	211.2		44.8			
End Date: 21-Sep-07 Dip: 45 °				9				Reflex	205.3		46.1		242				Reflex	222.0		44.1			
Northing: 5402550 Logged by: J. R. Johnson				38				Reflex	204.3		46.2		293				Reflex	208.7		45.0			
Easting: 358600 Dates Logged: Sept 9-22				89				Reflex	206.9		46.4		344				Reflex	204.2		45.3			
Claim# 4210157 Drilling Co.: Dominion Drilling Inc.				140				Reflex	206.3		45.4		395				Reflex	199.8		45.7			
Core Size: NQ Comments: Thick pendentite unit (224.5m) intersected with abundant sulphides at the upper and lower contacts. Above the pendentite is an additional intrusive (representing a magma mixing zone) with variable sulphides (28.6m).				Pad: 1																			
From m	To m	Rock Type	Rock Code	Description	Sulf %	Po %	Cp %	Py %	Sample Number	From m	To m	Length m	Au ppm	Pt ppb	Pd ppb	Co ppm	Cu ppm	Ni ppm	Cr ppm	Comment			
0.00	3.50	Overburden	Ov																				
3.50	50.00	Granite	Fg	Unit consists of medium grained granite varying from red to pinkish with rare intervals of greyish colouration. Reddish alteration potentially potassic alteration. Pegmatoidal/coarse grained intervals from 10-100cm in length have boundaries that vary from gradational to sharp with various orientations. A weak fabric exists at 30-35°. Trace sulphides occur, concentrated mainly along fractures. Mica (2-3%) increases in abundance from 32-50m, up to 10% locally. Black chlorite can be found along fractures from ~40m onwards. In addition some fractures have a alteration halo of pale yellow to cream (epidote) up to 0.8cm, these increase in abundance towards the end of the unit. Small zones (general <1cm) of shearing consist of quartz veinlets with clay alteration and minor calcite, also trace sulphides can be found. 29.0-29.3m tourmaline occurs within a pegmatoidal patch 29.7-30.7m zone of silica veining and flooding, 1% pyrite within 50.05-51.90m large zone of pegmatoidal granite with 40-50% quartz, quartz appears to be irregular veins cutting core (some down core axis) not as crystals 51.9-55.0m fractures with epidote and or clay minerals increase in abundance, variable in orientation but dominated by a sub-perpendicular orientation; sulphides also increase in abundance towards end of unit; fractures with quartz +/- chlorite begin to occur also.	tr				tr														
50.00	50.45	Quartz Vein	Vq	Massive grey quartz vein with 2-3% disseminated pyrite. Unit is broken with the upper contact within broken core, lower contact at 25°. Near upper contact are several carbonate with clay mineral inclusions. Lower contact is at a Fault zone that is of unknown length (>1cm)	2-3				2-3														
50.45	59.45	Granite	Fg	Unit consists of deformed granites (possible a severely deformed and altered sediment) that are sheared, brecciated (?) and cut by numerous small quartz veinlets (possible silica infilling along fractures). There are metasediment xenoliths within the unit. Disseminated sulphides and sulphides along fractures are common, many of the sulphides are very fine grained, some are associated with chlorite and many are found in close proximity to the quartz veinlets (possible chalcopyrite in trace amounts). Mica is abundant. Lower contact is sharp but unable to get orientation due to broken core. 55.65m fault zone of unknown length and orientation 56.75-57.00m metasediment (see below) xenolith or possible raft/unit, upper contact sharp at 60, lower contact more irregular at 50 57.10-57.15m irregular metasediment xenolith (possible wedge of large xenolith) 57.55-57.75m very irregular metasediment xenolith 57.85-58.00m quartz vein, grey (as above), upper and lower contacts at 70 58.95-59.10m severely altered area, 5cm of numerous alteration filled fractures followed by a silica flooded breccia? of quartz grains					E809651	54.00	55.00	1.00	0.003	<0.0005	<0.001	5	13	9	7				
									E809652	55.00	55.45	0.45	0.002	0.0005	0.001	3	61	6	33				
									E809653	55.45	56.45	1.00	0.002	<0.0005	<0.001	8	748	15	18				
									E809654	56.45	57.55	1.10	0.003	<0.0005	0.001	5	137	19	29				
									E809655	57.55	58.00	0.45	0.002	0.0005	0.001	5	90	24	52				
									E809656	58.00	58.95	0.95	0.002	0.0005	0.001	7	248	17	30				
									E809657	58.95	59.45	0.50	0.002	<0.0005	<0.001	5	52	12	30				
59.45	97.30	Sediment	S	The upper contact of the unit is baked and brittle. Moderate to weak foliation at 35°. Unit is dark grey with chlorite along foliation planes and fractures. Various amounts of mica occur through the unit. Several dykes of granite occur through the unit. Minor fractures with calcite/quartz occur parallel to foliation. In addition fracture and alteration (clay, carbonate, pale?) patterns give the appearance of flow top breccia/pillow flows of a volcanic, especially noticeable at 72.0-72.5m and 76-77m. 78m onwards unit is more massive with less alteration, foliation is weak to moderate, colour darkens also. Trace to 2-3% sulphides locally occur (pyrite). 59.80-59.85m granite dyke, contacts 50; 65 59.90-60.30m granite dyke, pink mica rich, surrounding country rock is sheared, contacts 80; 30 64.10-66.00m fine grained granite, grey to pink, alteration veinlets with carbonate, clay and epidote, pegmatoidal section with irregular contact at 54.75m for 20cm then medium grained, contacts irregular 50, irregular 60, after unit is 15cm of strong alteration 70.10-70.25m zone of strong shearing (60°), clay alteration, may potentially represent a fault zone 70.25-70.90m fine to medium grained granite (as 50.45m), contacts 75; 50 71-72m unit is more massive with little foliation visible 73.75-74.10m medium to coarse granite, contacts 45; 40 74.70-75.10m zone of strong shearing with talc and clay alteration, section within of 15cm of clay, represent possible fault zone at 60 74.50-78.25m strong clay, talc alteration within this section, alteration is concentrated along bed boundaries and fractures (fives appearance of brecciation or pillowed flow top in sections) 77.0-77.1m very strong zone of alteration and shearing possible fault zone 77.50-77.55m fault zone at 60 78.20-78.25m section of massive/strong epidote alteration (~80%) 78.25-78.55m medium grained granite, contacts 60; ? 78.70-80.00m medium to coarse grained granite; xenolith at 79.45-79.55m very irregular, 79.90-80.00m strongly sheared (45) zone that may be granite or baked, highly siliceous sediment, contacts 60; 45? 82.75-83.05m granite with xenolith, contacts 80; x75	1-2				1-2	E809658	59.45	59.90	0.45	0.002	0.0005	0.001	18	30	63	109			
									E831001	59.90	60.30	0.40	0.004	0.0011	0.001	8	38	20	14	167ppm Mo			
									E831002	60.30	61.30	1.00	0.003	0.0027	0.003	20	10	110	156				
									E831003	61.30	62.30	1.00	0.002	0.0023	0.002	24	26	145	198				
									E831004	62.30	63.30	1.00	0.002	0.0014	0.001	22	52	62	80				
									E831005	63.30	64.10	0.80	0.001	0.0016	0.001	24	31	73	118				
									E831006	64.10	65.00	0.90	0.001	<0.0005	<0.001	4	28	10	8				
									E831007	65.00	66.00	1.00	0.001	0.0005	<0.001	2	29	5	8				
									E831008	66.00	67.00	1.00	0.001	0.001	0.001	20	88	52	88				
									E831009	67.00	68.00	1.00	0.001	0.0018	0.001	20	73	66	101				
									E831010	68.00	69.25	1.25	0.001	0.0017	0.001	24	60	87	126				
									E831011	69.25	70.25	1.00	0.001	0.0017	0.001	21	51	73	128				
									E831012	70.25	70.90	0.65	0.002	<0.0005	<0.001	5	16	4	9				
									E831013	70.90	71.90	1.00	0.001	0.0012	0.001	20	44	72	110				
									E831014	71.90	72.90	1.00	0.001	0.0014	0.001	23	65	74	135				
									E831015	72.90	73.75	0.85	0.001	0.0012	0.001	22	75	68	123				
									E831016	73.75	74.10	0.35	0.001	<0.0005	<0.001	4	14	10	19				
									E831017	74.10	74.75	0.65	0.001	0.0019	0.002	26	12	82	139				
									E831018	74.75	75.75	1.00	0.001	0.0014	0.001	14	21	39	137				
									E831019	75.75	76.75	1.00	0.001	0.0014	0.001	18	17	52	111				
									E831020				0.002	<0.0005	<0.001	<1	2	2	8	Blank			
									E831021	76.75	77.75	1.00	0.001	0.0012	0.001	21	28	51	108				
									E831022	77.75	78.25	0.50	0.001	0.001	0.001	14	28	46	87				
									E831023	78.25	79.00	0.75	0.001	<0.0005	<0.001	6	28	21	33				
									E831024	79.00	79.90	0.90	0.001	<0.0005	<0.001	3	16	4	11				
									E831025	79.90	80.40	0.50	0.001	0.0012	0.001	21	58	61	103				
									E831026	80.40	81.55	1.15	0.001	0.0012	0.001	21	64	67	120				
									E831027	81.55	82.75	1.20	0.001	0.0012	0.001	19	60	64	113				
									E831028	82.75	83.55	0.80	0.001	<0.0005	<0.001	11	20	24	39				
									E831029	83.55	84.55	1.00	0.001	0.0016	0.001	27	49	77	119				
									E831030	84.55	85.55	1.00	0.001	0.0018	0.002	25	54	87	125				
									E831031	85.55	86.55	1.00	0.001	0.0017	0.002	27	65	82	125				



From m	To m	Rock Type	Rock Code	Description	Suff %	Po %	Cp %	Py %	Sample Number	From m	To m	Length m	Au ppm	Pt ppb	Pd ppb	Co ppm	Cu ppm	Ni ppm	Cr ppm	Comment	
				83.30-83.55m medium grained granite; contacts 75, 80					E831032	86.55	87.55	1.00	0.002	0.0016	0.002	21	53	73	113		
				87.00-87.05m granite dyke					E831033	87.55	88.55	1.00	0.001	0.0015	0.001	21	38	67	113		
				94.70-95.65m medium grained granite dyke, red fading to white ~95.4m, contacts 75, 55					E831034	88.55	89.55	1.00	0.001	0.0019	0.002	23	56	70	128		
									E831035	89.55	90.55	1.00	0.001	0.0019	0.002	21	63	76	133		
									E831036	90.55	91.55	1.00	0.002	0.0019	0.002	22	44	92	152		
									E831037	91.55	92.55	1.00	0.001	0.002	0.002	26	66	112	178		
									E831038	92.55	93.55	1.00	0.002	0.0014	0.002	18	38	69	108		
									E831039	93.55	94.70	1.15	0.002	0.0015	0.002	23	45	70	119		
									E831040				0.26	2.68	2.56	114	6440	1520	1695	Standard	
									E831041	94.70	95.65	0.95	0.003	0.0013	0.001	4	12	5	7		
									E831042	95.65	96.45	0.80	0.002	0.0022	0.002	24	37	67	127		
									E831043	96.45	97.30	0.85	0.002	0.0016	0.002	25	31	71	121		
97.30	104.95	Sediment Breccia	Sx	Unit is a complex sediment with primary breccias overprinted by strong shearing and clay alteration that represent possible fault zones. Short section of relatively massive, foliated sediments are intermixed within these zones of brecciation. Sulphides are abundant with disseminated and fracture pyrite 5-7% and locally higher. Small veins of quartz occur, some are coherent while others are boudinaged. Clasts vary from 2-3mm to 15cm in size, many are angular with some having the appearance on in situ brecciation (fragments would fit back together). Mica various dramatically in abundance within the unit.	5-7			5-7	E831044	97.30	98.45	1.15	0.002	0.0014	0.001	30	44	78	98		
									E831045	98.45	99.65	1.20	0.002	0.0019	0.001	25	53	77	121		
									E831046	99.65	100.15	0.50	0.002	0.0009	0.001	20	38	60	74		
									E831047	100.15	101.00	0.85	0.002	0.0012	0.001	25	40	67	108		
									E831048	101.00	101.80	0.90	0.002	0.0011	0.001	23	57	66	98		
									E831049	101.80	102.55	0.75	0.001	<0.0005	<0.001	5	29	4	33		
									E831050	102.55	103.40	0.85	0.002	0.0012	0.001	23	63	47	120		
									E831051	103.40	104.15	0.75	0.002	0.0008	0.001	20	49	55	72		
				101.8-102.55m possible fault zone, strongly sheared, abundant clay alteration and epidote alteration/veining					E831052	104.15	104.95	0.80									
									E831053				0.001	0.001	0.001	17	37	56	78		
104.95	118.00	Sediment	S	Foliated (@35), massive sediments with granitic dykes. Colour is dominantly dark grey with zones of brick red alteration, dark minerals along planes of foliation (chlorite or amphiboles?). In addition zones of minor brecciation occur (possible representing primary depositional features).	3-5	tr		3-5	E831054	104.95	106.00	1.05	0.001	0.0013	0.001	25	75	69	112		
									E831055	106.00	107.00	1.00	0.002	0.0009	0.001	14	24	43	72		
									E831056	107.00	108.00	1.00	0.001	0.0011	0.001	18	57	56	96		
				106.30-106.60m granite dyke, sheared; contacts 50, 50					E831057	108.00	109.00	1.00	0.002	0.001	0.001	15	42	45	93		
				108.55-107.65, 108.55-108.65m first occurrence of red granites, below all granites are red					E831058	109.00	110.00	1.00	0.002	0.0011	0.001	17	37	51	94		
									E831059	110.00	111.00	1.00	0.002	0.001	0.001	18	35	53	118		
				115.70-116.00m conglomerate (breccia?) with clasts 3-40mm in size, sulphides 5-7%					E831060				0.003	<0.0005	<0.001	2	2	2	8	Blank	
				116.20-116.40m sheared, granite with boudinaged quartz veins, strong shearing in adjacent country rock, contacts 20, 40					E831061	111.00	112.00	1.00	0.002	0.001	0.001	17	53	52	102		
				116.40-118.00m sulphides along fractures increase in abundance, combined sulphides 5-10%					E831062	112.00	113.00	1.00	0.002	0.001	0.001	16	98	49	92		
				117.3m preferential alteration along fractures occurs towards the end of the unit					E831063	113.00	114.00	1.00	0.002	0.001	0.001	16	16	52	92		
									E831064	114.00	115.15	1.15	0.002	0.0012	0.001	16	16	52	92		
									E831065	115.15	115.65	0.50	0.002	0.0009	0.001	15	20	49	88		
									E831066	115.65	116.20	0.55	0.002	0.0014	0.001	17	9	60	101		
									E831067	116.20	116.70	0.50	0.002	0.0009	0.001	13	16	45	66		
									E831068	116.70	118.00	1.30	0.002	0.0011	0.001	14	17	48	81		
118.00	119.30	Sediment, Fault Zone	Sfz	Unit is composed of severally altered, sheared material with short intervals of fault gouge.	3-5			3-5	E831069	118.00	118.65	0.65	0.001	0.0011	0.001	5	18	16	118		
				118.00-118.17m sulphides abundant (10-15%) as pyrite along foliation, grey in colour with contorted green (epidote) alteration					E831070	118.65	119.30	0.65	0.002	0.0011	0.001	12	168	25	128		
				118.17-118.30m fault gouge, unknown orientation, dominantly clay with small clasts																	
				118.30-118.65m strongly altered with clay minerals, sections consist of clay matrix holding clasts of sediments (fault gouge) with amount of clay diminishing downhole																	
				118.65-118.80m coherent sedimentary breccia																	
				118.80-118.95m fault breccia																	
				118.95-119.30m strongly altered (epidote, clay minerals) and sheared																	
				Sedimentary unit with minor brecciation of beds, foliation is moderate to weak. Rapid gradational contact to lower unit																	
				123.75-123.85m fault zone																	
119.30	124.80	Sediment	S	123.75-123.85m fault zone	1-2			1-2	E831071	119.30	120.15	0.85	0.002	0.0015	0.002	26	7	112	210		
									E831072	120.15	121.00	0.85	0.002	0.0009	0.001	18	5	55	105		
									E831073	121.00	122.00	1.00	0.001	0.0011	0.001	16	11	60	94		
									E831074	122.00	123.00	1.00	0.001	0.0008	0.001	14	20	47	91		
									E831075	123.00	123.85	0.85	0.002	0.0013	0.001	21	74	69	108		
									E831076	123.85	124.80	0.95	0.002	0.001	0.001	15	34	53	87		
									E831077	124.80	125.30	0.50	0.003	0.001	0.001	14	41	47	89		
124.80	125.30	Sediment	S	Massive dark grey unit of sediments. Magnetic susceptibility higher than surrounding sediments. Disseminated sulphides. Diffuse contacts with sediments.	2-3			2-3	E831078	125.30	126.55	1.25	0.001	0.0012	0.001	20	47	72	105		
									E831079	126.55	127.80	1.25	0.001	0.0011	0.001	17	36	61	97		
									E831080	127.80	128.40	0.60	0.001	<0.0005	<0.001	3	25	5	7		
									E831081				0.28	2.81	2.63	120	6740	1590	1805	Standard	
									E831082	128.40	129.40	1.00	0.002	0.0017	0.002	20	26	65	98		
									E831083	129.40	130.40	1.00	0.002	0.0014	0.002	21	41	66	95		
									E831084	130.40	131.40	1.00	0.002	0.0013	0.001	19	45	64	99		
									E831085	131.40	132.40	1.00	0.001	0.0012	0.001	22	45	72	105		
									E831086	132.40	133.40	1.00	0.002	0.0016	0.002	22	42	75	106		
133.20	186.50	Sediment	S	Sediments are more massive with sections (up to 2m in length) of moderately foliated red-tinted core with ~20% mafic minerals (chlorite?) along foliation planes although these sections are in a minority. Foliation varies from 30-45°. Sulphides are highly variable within the unit (<1 to 7%) with much of the sulphides occurring as smears along foliation planes, there are still blebs and crystals of pyrite indicating either two mineralization events or a re-equilibrium of the minerals. Quartz veinlets irregular occur as do calcite+quartz veinlets, chlorite wpsps are often associated with them.	2-3	tr		2-3	E831087	133.40	134.40	1.00	0.001	0.0008	0.001	16	38	49	89		
				135.65-135.85m several grey quartz veinlets, deformed, with 1-2% sulphides					E831088	134.40	135.50	1.10	0.001	0.001	0.001	15	34	46	81		
				166.40-166.80m brecciated, moderately leached with calcite+pyrite matrix					E809659	135.50	136.00	0.50	0.002	0.0014	0.002	19	53	68	85		
				183.55-183.6m sediments are brecciated, much is very angular brecciation (pieces fit together), exception is beside the intrusive at 184.82-184.87m (siliceous, red alteration obscures features, fine grained) at 184.7-184.93m is fine to medium grained rounded breccia					E831089	136.00	137.00	1.00	0.001	0.0014	0.002	22	49	69	111		
									E831090	137.00	138.00	1.00	0.001	0.0012	0.001	19	40	59	103		
					</																



From m	To m	Rock Type	Rock Code	Description	Sulf %	Po %	Cp %	Py %	Sample Number	From m	To m	Length m	Au ppm	Pt ppb	Pd ppb	Co ppm	Cu ppm	Ni ppm	Cr ppm	Comment
		rich Diorite		60mm and are rounded to tabular in shape. Matrix is coarser version of the above diorite/monzonite. The quartz is altered with reaction rims surrounding nearly all clasts and alteration within the actual clasts themselves. Colour of the quartz ranges from white to grey but is variable within the clasts themselves (due to the alteration). Clasts often have a surrounding halo of black, mafic minerals. Within one clast at 209.10m are two molybdenite grains 2x4mm. Upper contact is made on the appearance of quartz clasts and the slight change in grain size, lower contact is irregular.					E809695	209.10	209.65	0.55								
209.65	210.25	Granitic Dyke	Fg	Unusual granitic dyke, highly irregular in composition. 209.65-209.80m is 80% orange alteration with minor quartz and plagioclase? 209.80-209.87m mixture of granular, sugar quartz and red mineral 209.87-209.90m dyke of material as 209.55m, with quartz clasts 209.90-210.10m as 209.80m 210.10-210.17m as below at 210.25m, quartz clasts small and not very abundant 210.17-210.25m as at 209.65m, lower contact is indistinctive over 5mm	1-2			1-2	E809696	209.65	210.25	0.60	0.002	0.0606	0.058	11	97	65	58	
210.25	211.20	Quartz Clast rich Diorite	ld	Unit is similar to at 208.55m with the exception of clasts are smaller, more tabular (fewer rounded to sub rounded) in occurrence and tend to display more alteration. Proportionally they make up less of the core (above ~80%, here ~60-70%). In addition patches (210.60-210.70m, 210.80-210.85m...) occur with abundant red altered minerals that resemble nearly fully assimilated granitic material from 209.65m. Sulphides occur as blebs up to 3mm in size. Weak carbonate alteration.	2-3	tr	tr	2-3	E809697	210.25	211.20	0.95	0.004	0.0738	0.066	6	214	56	24	
211.20	216.50	Diorite or Monzonite	ld	Unit is medium to fine grained, reddish brown in colour (similar to 206.40m) with 15-20% quartz clasts that are tabular in occurrence. 90% of clasts display alteration rims within the clasts and/or the occurrence of mafic material surrounding the clasts. Small indistinct occurrence of red alteration representing near full assimilation of granitic material (see above) are sporadically located through the unit and vary in size from 3 to 8cm. Minor occurrence (3-5%) or carbonate inclusions are found. In addition possible peridotite (severely altered) blebs/inclusions from 1-3cm in size occur. These are black, ultramafic material, very fine grained with talc/serpentine? alteration along with carbonate ocellae occurrences. In addition blades (<1x5mm) of amphibole? occur (referred to as disequilibrium texture). Unit is a definite mixture of granitic dykes and peridotite with an intermediate intrusive or represents a highly contaminated phase of a peridotite (similar material seen on Thunder Bay North). Sulphides vary from very fine grained to blebs <3mm in size.	2-5	tr	2-5	E809698 E809699 E809700 E809701 E809702 E809703	211.20 212.20 213.20 214.20 215.20 216.00	212.20 213.20 214.20 215.20 216.00	1.00 1.00 1.00 1.00 0.80 0.50	0.007 0.005 0.005 0.003 0.002 0.002	0.0446 0.0325 0.0433 0.0199 0.0135 0.0135	0.195 0.038 0.025 0.025 0.012 0.007	27 29 31 26 24	594 321 196 125 77 27	223 100 88 96 65 49	162 164 150 146 146 117		
216.50	217.15	Quartz Clast rich Diorite	ld	Unit is differentiated from underlying unit by the increase in quartz clasts to 30-40% by volume. (see 211.2 and 208.55m)	2-3	tr	2-3	E809704	216.50	217.50	1.00	0.003	0.0175	0.008	30	82	55	131		
217.15	217.50	Diorite or Monzonite	ld	As at 211.20m. Lower contact is distinctive with pyrrhotite and magnetite occurring within 5cm of the contact.	2-3	tr	2-3					0.002	0.0086	0.004	21	83	40	91		
217.50	221.70	Hybrid Peridotite	Updh	Medium grained with a red-brownish colour. Unit has abundant carbonate ocellae varying from 1-4mm in size, these increase in abundance downhole. Several occurrences of peridotite clasts/xenoliths are found through the unit as are nearly fully assimilated granitic remnants (rare in occurrence). Sulphides are fine to coarse and disseminated to concentrated along fractures. Mafic 'blades' are common and represent potential amphiboles. Unit is likely a coarser grained version of the surrounding diorite but is also lacking any quartz clasts (possible indicating different age?). The last 20cm are finer grained and represent a transition to the lower unit.	5-7	tr	5-7	E809705 E809706 E809707 E809708	217.50 218.50 219.50 220.60 220.60	218.50 219.50 220.60 221.70	1.00 1.00 1.10 1.10	<0.001 0.0001 0.0001 0.001	0.0009 0.0006 0.0001 0.0005	<0.001 0.001 0.001 0.001	25 24 27 23	8 6 5 6	15 15 15 11	37 47 27 27		
221.70	226.65	Quartz Clast rich Diorite	ld	Unit is similar to above described (see 210, 208m). Quartz composed 15-25% of the core. Ultramafic xenoliths are common (5-7%). In addition patches of more mafic (less red alteration also) diorite similar to what occurs at 204m or represent inclusions of the underlying unit. Carbonate ocellae are common (<1mm-2mm in size). 226.35-226.65m nearly fully assimilated granitic dyke	3-5	tr	3-5	E809709 E809710 E809711 E809712 E809713 E809714	221.70 222.70 223.70 224.70 225.70 226.65	222.70 223.70 224.70 225.70 226.65	1.00 1.00 1.00 1.00 1.00 0.95	<0.001 0.28 0.001 0.001 0.001 0.001	0.0006 2.84 0.0021 0.0016 0.0018 0.0013	<0.001 2.72 0.002 0.001 0.001 0.001	17 106 16 17 20 26	7 6630 12 8 52 71	26 1380 29 33 26 35	53 1730 58 52 58 75		
226.65	228.80	Hybrid Peridotite	Updh	Unit is reddish brown to brown (end of unit) and medium to fine grained. Represents a transitional zone to lower unit. Quartz clasts occur for the first 30cm then disappear, carbonate ocellae occur throughout the unit. Peridotite xenoliths (<3cm) are common. Sulphides are variable in concentration, occurrence and size.	2-3	tr	tr	2-3	E809715 E809716	226.65 227.70 228.80	227.70 228.80	1.00 1.10	0.002 0.001	0.007 0.0032	0.004 0.002	25 25	87 263	24 22	50 27	
228.80	229.65	Hybrid Peridotite	Updh	Unit is grey in colour, medium to fine grained. Few occurrences of ultramafic xenoliths (peridotite xenoliths described above) that decrease in abundance downhole. Sulphides are abundant and dominantly are interstitial in occurrence. Moderate carbonate alteration occurs. Upper and lower contacts are distinctive but diffuse.	7-10	2-3	tr	3-5	E809717	228.80	229.65	0.85	0.001	0.0052	0.004	30	599	35	33	
229.65	254.00	Peridotite	Upd	Upper contact is distinct but has a slightly contaminated peridotite at the contact (see description below). Unit consists of black fine to medium grained peridotite with variable amounts of sulphides, feldspar, carbonate (decreases in abundance downhole) and talc +/- serpentine alteration. In addition black chlonite can be found along fractures. Sulphides vary in composition with sections consisting of pyrite with minor additional sulphides to pyrrhotite=pyrite and noticeable amounts of chalcopyrite. Poecilitic texture is strong beyond 230.40m. Olivine crystals vary in abundance and degree of alteration. 229.65-230.10m peridotite and hybrid peridotite mixing zone, sections of peridotite within an decreasing amount of 'hybrid' material. Sulphides 7-10% pyrite, last 10cm is peridotite 233.40m sulphide content decreases from 5-7% to 3-5% 233.9m content of feldspar and carbonate increases (3-5% & 2-5%) 239.25-239.40m pegmatoidal zone, -gabbroic in composition, large pyroxene crystals, some olivine and abundant feldspar, sulphides 7-10% (po=py) 239.70-239.85m several fractures with sulphides, sulphides total 10-15% with pyrrhotite dominate over pyrite, trace chalcopyrite 242.00-242.15m felsic rich zone 244.20-244.20m feldspar rich zone, tremolite? alteration 244.90-244.05m alteration zone of epidote? and talc 247.25-247.55m irregular boundaries defining area 80-90% feldspar (plagioclase) and	3-5	1-2	tr	1-2	E809718 E809719 E809720 E809721 E809722 E809723 E809724 E809725 E809726 E809727 E809728 E809729 E809730 E809731 E809732 E809733 E809734 E809735 E809736 E809737	229.65 230.10 230.90 231.30 231.90 232.30 232.80 233.40 233.90 234.90 235.90 236.90 237.90 238.90 239.00 239.45 239.45 240.00 240.50 241.00 241.00 242.00 242.00	230.10 230.90 231.30 231.80 232.30 232.80 233.40 233.90 234.90 235.90 236.90 237.90 238.90 239.00 239.45 240.00 240.50 241.00 241.00 242.00 242.00	0.45 0.80 0.40 0.50 0.50 0.50 0.60 0.50 1.00 1.00 1.00 1.00 1.00 1.10 0.45 0.55 0.50 0.50 1.00 1.00 1.00 1.00	0.015 0.065 0.018 0.009 0.019 0.038 0.022 0.009 0.008 0.018 0.015 0.024 0.001 0.001 0.017 0.019 0.035 0.011 0.016	0.0751 0.74 0.279 0.138 0.277 0.642 0.343 0.123 0.122 0.283 0.21 0.343 0.0022 0.523 0.155 0.271 0.283 0.442 0.173 0.275	0.046 0.7 0.269 0.132 0.266 0.646 0.344 0.123 0.115 0.286 0.207 0.361 0.002 0.519 0.155 0.262 0.269 0.416 0.161 0.263	61 125 103 98 102 119 109 99 104 113 108 122 1 120 86 117 117 121 120 125	529 2870 802 440 828 1600 988 360 397 772 639 1060 8 1430 442 757 728 1000 503 790	269 1370 793 603 762 1165 1030 715 735 952 866 1095 7 1320 664 1055 1075 1175 975 1110	210 @ 38% Zn 1050 @ 28% Zn 1310 1280 1480 1500 1650 1720 1820 Blank 1870 1510 2140 2230 1920 2250 2260	

From	To	Rock	Rock	Description	Sulf	Po	Cp	Py	Sample	From	To	Length	Au	Pt	Pd	Co	Cu	Ni	Cr	Comment			
m	m	Type	Code		%	%	%	%	Number	m	m	m	ppm	ppb	ppb	ppm	ppm	ppm	ppm				
				minor quartz? with possible serpentinized inclusions along with ultramafic inclusions, medium grained with coarse grained pyroxene crystals located near and at the lower contact, sulphide content 15-20%, 246 95-247 25m veinlets of felsic material with sulphides that appear to be derived from this section					E809738	243.00	244.10	1.10	0.018	0.301	0.297	127	974	1170	2270				
					E809739	244.10	245.10	1.00	0.015	0.228	0.212	120	732	1045	2120								
					E809740	245.10	246.10	1.00	0.02	0.258	0.228	133	1130	1345	2530								
					E809741	246.10	246.95	0.85	0.013	0.185	0.163	131	607	1140	2410								
					E809742	246.95	247.55	0.60	0.005	0.0521	0.048	84	318	654	1550								
					E809743	247.55	248.00	0.45	0.008	0.125	0.122	135	434	1085	2470								
					E809744	248.00	249.00	1.00	0.007		0.1	0.089	126	294	1065	2620							
					E809745	249.00	250.00	1.00	0.006	0.0829	0.074	130	310	1090	2550								
					E809746	250.00	251.00	1.00	0.007	0.103	0.094	126	329	1125	2630								
					E809747	251.00	252.00	1.00	0.006	0.0797	0.074	128	275	1095	2650								
					E809748	252.00	253.00	1.00	0.005	0.0645	0.058	124	238	1070	2620								
					E809749	253.00	254.00	1.00	0.006	0.087	0.073	127	255	1115	2770								
					E809750					0.28	2.87	2.69	116	6780	1580	1990	Standard						
254.00	350.00	Peridotite	Upd		Distinction is made with above peridotite and the decrease in poikilitic texture (becomes very patchy after 260m), also sulphide content decreases as does the carbonate ocellae (carbonate becomes disseminated and more fracture controlled) and plagioclase becomes a minor component (<1%) in general. Talc alteration is still pervasive with minor serpentine alteration. Veinlets (along presumed fracture planes contain talc/-serpentine along with coarse grained sulphides adjacent to the veinlets (possibility of speck of bomite? at 267 20m). Grain size is also finer within the unit itself. Olivine crystals still occur but only in trace amounts. Unit is relatively uniform beyond 260m. 260m and below has weak to moderate foliation at 35-45 with sections that are solely massive, granular. Fractures with talc, carbonate and/or serpentine alteration occur (serpentine is more common below 363m), sulphides up to 3mm in size can be found within or at the contacts of the fractures. Sulphides are patchy in occurrence (locally up to 5%) and dominantly pyrrhotite with trace chalcocopyrite. Most sulphides are interstitial with a lesser proportion w thin fractures and alteration veinlets (sulphides can also be smeared along fractures and slip planes). Some of the higher concentrations of sulphides are often found around fractures and veinlets where sulphide content can increase within a 10cm halo. Oikocysts are sporadic in occurrence and generally smaller size than above unit. (ground core between 338-341m ~65cm missing) 349.40m 1cm felsic veinlet with 5% sulphides	1-2	1-2	tr	tr	E809751	254.00	255.00	1.00	0.004	0.0586	0.05	127	217	1125	2800			
						E809752	255.00	256.00	1.00	0.006	0.0706	0.062	133	242	1160	2880							
						E809753	256.00	257.00	1.00	0.004	0.0428	0.037	129	172	1110	2710							
						E809754	257.00	258.00	1.00	0.006	0.0652	0.058	134	234	1180	2820							
						E809755	258.00	259.00	1.00	0.005	0.0583	0.05	129	199	1140	2800							
						E809756	259.00	260.00	1.00	0.004	0.0516	0.045	131	181	1165	2810							
						E809757	260.00	261.00	1.00	0.004	0.0591	0.052	139	228	1245	3080							
						E809758	261.00	262.00	1.00	0.003	0.0472	0.041	139	182	1245	3050							
				E809759		262.00	263.00	1.00	0.004	0.0452	0.039	143	166	1300	3180								
				E809760		263.00	264.00	1.00	0.003	0.0466	0.04	130	155	1170	3010								
				E809761		264.00	265.00	1.00	0.006	0.0782	0.068	134	214	1250	3190								
				E809762		265.00	266.00	1.00	0.006	0.0674	0.061	139	188	1255	3180								
				E809763		266.00	267.00	1.00	0.005	0.0507	0.042	140	147	1270	3190								
				E809764		267.00	268.00	1.00	0.004	0.0437	0.037	138	134	1255	3190								
				E809765		268.00	269.00	1.00	0.005	0.0677	0.058	142	163	1290	3380								
				E809766		269.00	270.00	1.00	0.005	0.0562	0.051	144	166	1305	3310								
				E809767		270.00	270.90	0.90	0.005	0.0576	0.045	140	157	1290	3290								
				E809768		270.90	271.40	0.50	0.005	0.0513	0.044	131	134	1205	3000								
				E809769		271.40	272.00	0.60	0.006	0.0596	0.052	138	150	1300	3010								
				E809770						0.007	<0.0005	<0.001	1	3	4								
				E809771		272.00	273.00	1.00	0.008	0.0943	0.083	139	261	1290	3170								
				E809772		273.00	274.00	1.00	0.005	0.0761	0.07	140	155	1285	3260								
				E809773		274.00	275.00	1.00	0.008	0.121	0.111	132	253	1250	3140								
				E809774		275.00	276.00	1.00	0.003	0.0408	0.036	133	107	1240	3030								
				E809775		276.00	277.00	1.00	0.004	0.0488	0.043	130	107	1205	3150								
				E809776		277.00	278.00	1.00	0.004	0.0552	0.049	143	129	1305	3240								
				E809777		278.00	279.00	1.00	0.006	0.0747	0.073	138	204	1295	3350								
				E809778		279.00	280.00	1.00	0.003	0.0512	0.042	143	114	1280	3220								
				E809779		280.00	281.00	1.00	0.004	0.0512	0.042	138	177	1280	3380								
				E809780		281.00	282.00	1.00	0.004	0.0595	0.055	131	149	1220	3090								
				E809781		282.00	283.00	1.00	0.005	0.0611	0.056	149	169	1405	3190								
				E809782		283.00	284.00	1.00	0.005	0.0597	0.055	152	286	1420	3360								
				E809783		284.00	285.00	1.00	0.006	0.0736	0.068	137	163	1290	3130								
				E809784		285.00	286.00	1.00	0.005	0.0635	0.056	145	132	1375	3350								
				E809785		286.00	287.00	1.00	0.003	0.035	0.03	148	82	1390	3480								
				E809786		287.00	288.00	1.00	0.003	0.0376	0.031	152	79	1405	3480								
				E809787		288.00	289.00	1.00	0.003	0.0397	0.034	152	113	1410	3470								
				E809788		289.00	290.00	1.00	0.008	0.101	0.097	143	197	1300	3070								
				E809789		290.00	291.00	1.00	0.006	0.0787	0.072	155	182	1380	3340								
				E809790						0.26	2.76	2.58	127	7160	1590	1850	Standard						
				E809791		291.00	292.00	1.00	0.006	0.0687	0.064	145	166	1340	3140								
				E809792		292.00	293.00	1.00	0.014	0.161	0.16	153	349	1430	3250								
				E809793		293.00	294.00	1.00	0.005	0.0384	0.03	145	79	1310	3250								
				E809794		294.00	295.00	1.00	0.005	0.0617	0.052	145	102	1300	3020								
				E809795		295.00	296.00	1.00	0.003	0.0351	0.028	139	80	1315	3100								
				E809796		296.00	297.00	1.00	0.007	0.081	0.074	140	198	1350	3170								
				E809797		297.00	298.00	1.00	0.004	0.0623	0.055	136	107	1295	2970								
				E809798		298.00	299.00	1.00	0.01	0.113	0.107	139	293	1435	2900								
				E809799		299.00	300.00	1.00	0.003	0.0393	0.033	146	87	1425	3420								
				E809800		300.00	301.00	1.00	0.004	0.0432	0.042	148	98	1430	3540								
				E809801		301.00	302.00	1.00	0.006	0.0985	0.085	143	177	1375	3440								
				E809802		302.00	303.00	1.00	0.007	0.103	0.09	143	197	1375	3390								

From	To	Rock	Rock	Description	Sulf	Po	Cp	Py	Sample	From	To	Length	Au	Pt	Pd	Co	Cu	Ni	Cr	Comment
m	m	Type	Code		%	%	%	%	Number	m	m	m	ppm	ppb	ppb	ppm	ppm	ppm	ppm	
									E809818	317.00	318.00	1.00	0.009	0.1	0.093	142	217	1400	3270	
									E809819	318.00	319.00	1.00	0.008	0.0478	0.041	138	113	1335	3370	
									E809820	319.00	320.00	1.00	0.015	0.161	0.15	144	393	1485	3400	
									E809821	320.00	321.00	1.00	0.005	0.0496	0.041	146	142	1415	3580	
									E809822	321.00	322.00	1.00	0.008	0.102	0.09	142	231	1415	3330	
									E809823	322.00	323.00	1.00	0.007	0.0744	0.07	144	191	1380	3370	
									E809824	323.00	324.00	1.00	0.021	0.278	0.261	151	730	1620	3390	
									E809825	324.00	325.00	1.00	0.016	0.201	0.185	153	539	1615	3530	
									E809826	325.00	326.00	1.00	0.016	0.189	0.17	146	412	1515	3480	
									E809827	326.00	327.00	1.00	0.009	0.127	0.113	152	234	1525	3760	
									E809828	327.00	328.00	1.00	0.012	0.142	0.129	147	313	1520	3750	
									E809829	328.00	329.00	1.00	0.009	0.105	0.092	136	170	1385	3310	
									E809830				0.28	2.83	2.68	111	6550	1505	1700	Standard
									E809831	329.00	330.00	1.00	0.007	0.0827	0.068	146	122	1490	3590	
									E809832	330.00	331.00	1.00	0.005	0.066	0.057	144	92	1440	3460	
									E809833	331.00	332.00	1.00	0.005	0.0625	0.054	144	119	1500	3640	
									E809834	332.00	333.00	1.00	0.006	0.077	0.061	148	129	1505	3650	
									E809835	333.00	334.00	1.00	0.006	0.0683	0.062	142	121	1495	3580	
									E809836	334.00	335.00	1.00	0.008	0.104	0.09	147	181	1545	3580	
									E809837	335.00	336.00	1.00	0.009	0.134	0.119	143	219	1565	3800	
									E809838	336.00	337.00	1.00	0.008	0.114	0.1	141	218	1570	4000	
									E809839	337.00	338.00	1.00	0.009	0.115	0.101	143	223	1610	4260	
									E809840	338.00	339.00	1.00	0.02	0.265	0.225	144	612	1830	4490	
									E809841	339.00	340.00	1.00	0.008	0.0835	0.072	130	162	1545	4360	
									E809842	340.00	341.00	1.00	0.012	0.141	0.125	130	253	1515	4420	
									E809843	341.00	342.00	1.00	0.005	0.0563	0.042	144	98	1585	4650	
									E809844	342.00	343.00	1.00	0.005	0.055	0.04	140	114	1550	4260	
									E809845	343.00	344.00	1.00	0.006	0.0754	0.059	144	122	1535	4170	
									E809846	344.00	345.00	1.00	0.004	0.0412	0.033	141	100	1475	3970	
									E809847	345.00	346.00	1.00	0.008	0.101	0.083	136	157	1430	3710	
									E809848	346.00	347.00	1.00	0.005	0.0521	0.041	137	91	1425	3600	
									E809849	347.00	348.00	1.00	0.013	0.154	0.135	138	258	1510	3540	
									E809850				0.005	0.0009	0.001	2	3	13	42	Blank
									E809851	348.00	349.00	1.00	0.006	0.0611	0.051	143	104	1485	3770	
									E809852	349.00	350.00	1.00	0.004	0.0502	0.041	137	73	1380	3560	
350.00	420.00	Peridotite	Upd	Peridotite is as at 300m with less sulphides. Sulphides are more patchy in occurrence and appear to concentrated near fractures (locally <=3%). Only rare specks of chalcopyrite occur. White (pristine?) feldspars zones can be found near veinlets but occurrences are uncommon. 380-383m sulphides 1-2% pyrrhotite 403m feldspar begins to increase in occurrence, ~3-5%, in addition sulphides become slightly more common (1-2%), talc alteration is more noticeable and veinlets with black chlorite, serpentine, carbonate are more common (in past ~1/6-9m now ~1/3m) 412-413m core is badly broken, numerous fractures	1	1			E809853	350.00	351.00	1.00	0.007	0.0661	0.056	146	121	1445	3670	
									E809854	351.00	352.00	1.00	0.007	0.064	0.053	154	166	1515	3940	
									E809855	352.00	353.00	1.00	0.007	0.0852	0.07	148	175	1475	3660	
									E809856	353.00	354.00	1.00	0.009	0.0966	0.091	143	207	1450	3430	
									E809857	354.00	355.00	1.00	0.005	0.0558	0.049	148	104	1435	3380	
									E809858	355.00	356.00	1.00	0.007	0.0792	0.072	143	172	1375	2910	
									E809859	356.00	357.00	1.00	0.005	0.0535	0.047	138	113	1390	3160	
									E809860	357.00	358.00	1.00	0.005	0.0583	0.047	139	96	1385	3010	
									E809861	358.00	359.00	1.00	0.006	0.0625	0.051	137	125	1375	3050	
									E809862	359.00	360.00	1.00	0.008	0.102	0.088	141	214	1455	3180	
									E809863	360.00	361.00	1.00	0.008	0.0992	0.085	136	219	1390	3020	
									E809864	361.00	362.00	1.00	0.009	0.119	0.103	133	191	1365	3080	
									E809865	362.00	363.00	1.00	0.013	0.17	0.145	133	306	1375	3000	
									E809866	363.00	364.00	1.00	0.008	0.0907	0.073	137	151	1305	2810	
									E809867	364.00	365.00	1.00	0.007	0.073	0.058	145	138	1390	2950	
									E809868	365.00	366.00	1.00	0.009	0.104	0.09	143	173	1370	2810	
									E809869	366.00	367.00	1.00	0.01	0.113	0.098	144	230	1380	2970	
									E809870				0.28	2.92	2.7	124	6650	1600	1770	Standard
									E809871	367.00	368.00	1.00	0.007	0.0651	0.054	137	128	1300	2830	
									E809872	368.00	369.00	1.00	0.007	0.0839	0.069	144	151	1360	2870	
									E809873	369.00	370.00	1.00	0.01	0.108	0.098	132	222	1300	2830	
									E809874	370.00	371.00	1.00	0.007	0.0742	0.067	131	127	1270	2570	
									E809875	371.00	372.00	1.00	0.007	0.0739	0.063	133	147	1335	2780	
									E809876	372.00	373.00	1.00	0.008	0.0921	0.08	137	189	1340	2830	
									E809877	373.00	374.00	1.00	0.01	0.112	0.094	138	263	1400	2940	
									E809878	374.00	375.00	1.00	0.015	0.177	0.158	143	423	1500	2910	
									E809879	375.00	376.00	1.00	0.009	0.101	0.089	136	190	1390	2870	
									E809880	376.00	377.00	1.00	0.007	0.0766	0.069	141	182	1450	3050	
									E809881	377.00	378.00	1.00	0.009	0.117	0.104	132	224	1385	3050	
									E809882	378.00	379.00	1.00	0.01	0.125	0.111	140	318	1485	3070	
									E809883	379.00	380.00	1.00	0.006	0.0699	0.062	126	118	1305	2860	
									E809884	380.00	381.00	1.00	0.005	0.0479	0.036	130	90	1330	2840	
									E809885	381.00	382.00	1.00	0.006	0.056	0.046	139	153	1450	3290	
									E809886	382.00	383.00	1.00	0.005	0.053	0.042	127	98	1330	3100	
									E809887	383.00	384.00	1.00	0.006	0.0667	0.055	136	136	1440	3350	
									E809888	384.00	385.00	1.00	0.006	0.0555	0.044	138	113	1470	3410	
									E809889	385.00	386.00	1.00	0.006	0.0553	0.044	138	135	1495	3520	
									E809890				0.004	<0.0005	<0.001	<1	2	6	24	Blank
									E809891	386.00	387.00	1.00	0.009	0.106	0.089	137	175	1480	3430	
									E809892	387.00	388.00	1.00	0.005	0.0695	0.058	133	145	1455	3430	
									E809893	388.00	389.00	1.00	0.006	0.083	0.072	127	147	1365	3270	
									E809894	389.00	390.00	1.00	0.004	0.0479	0.037	137	113	1440	3590	
									E809895	390.00	391.00	1.00	0.009	0.12	0.104	146	279	1610	3790	
									E809896	391.00	392.00	1.00	0.013	0.179	0.155	139	375	1		

From	To	Rock	Rock	Description	Sulf	Po	Cp	Py	Sample	From	To	Length	Au	Pt	Pd	Co	Cu	Ni	Cr	Comment
m	m	Type	Code		%	%	%	%	Number	m	m	m	ppm	ppb	ppb	ppm	ppm	ppm	ppm	
									E809898	393.00	394.00	1.00	0.01	0.111	0.098	135	260	1480	3540	
									E809899	394.00	395.00	1.00	0.007	0.0803	0.065	135	166	1460	3620	
									E809900	395.00	396.00	1.00	0.006	0.0447	0.038	131	83	1410	3730	
									E809901	396.00	397.00	1.00	0.005	0.0677	0.055	126	100	1400	3610	
									E809902	397.00	398.00	1.00	0.007	0.0859	0.072	137	228	1550	3920	
									E809903	398.00	399.00	1.00	0.006	0.0661	0.053	139	155	1580	4230	
									E809904	399.00	400.00	1.00	0.006	0.0735	0.062	145	153	1630	4210	
									E809905	400.00	401.00	1.00	0.009	0.0826	0.071	140	198	1590	4080	
									E809906	401.00	402.00	1.00	0.007	0.0657	0.053	146	148	1590	4170	
									E809907	402.00	403.00	1.00	0.015	0.21	0.192	142	354	1630	3610	
									E809908	403.00	404.00	1.00	0.026	0.392	0.382	146	716	1720	3310	
									E809909	404.00	405.00	1.00	0.022	0.334	0.309	147	769	1770	3680	
									E809910				NSS	NSS	NSS	119	6770	1550	1830	Standard
									E809911	405.00	406.00	1.00	0.019	0.248	0.228	140	613	1580	3500	
									E809912	406.00	407.00	1.00	0.028	0.387	0.372	154	959	1790	3560	
									E809913	407.00	408.00	1.00	0.1	0.92	0.86	155	2000	2110	3060	
									E809914	408.00	409.00	1.00	0.07	0.93	0.85	163	2270	2310	3080	
									E809915	409.00	410.00	1.00	0.019	0.264	0.259	149	771	1670	3070	
									E809916	410.00	411.00	1.00	0.035	0.508	0.486	149	1410	1970	3300	
									E809917	411.00	412.00	1.00	0.011	0.151	0.141	140	441	1500	3220	
									E809918	412.00	412.50	0.50	0.01	0.15	0.14	111	415	1180	2340	
									E809919	412.50	413.00	0.50	0.012	0.194	0.179	134	450	1470	3160	
									E809920	413.00	414.00	1.00	0.01	0.142	0.131	136	333	1460	3420	
									E809921	414.00	415.00	1.00	0.007	0.0916	0.082	137	221	1410	3630	
									E809922	415.00	416.00	1.00	0.012	0.169	0.152	142	457	1540	3610	
									E809923	416.00	417.00	1.00	0.009	0.117	0.105	140	322	1480	3630	
									E809924	417.00	418.00	1.00	0.009	0.104	0.093	134	267	1370	3320	
									E809925	418.00	419.00	1.00	0.007	0.0847	0.071	135	252	1370	3370	
									E809926	419.00	419.50	0.50	0.007	0.0964	0.084	129	198	1310	3210	
									E809927	419.50	420.00	0.50	0.006	0.0753	0.062	127	214	1280	3200	
420.00	422.00	Peridotite	Upd	Peridotite has numerous fractures with alteration (mafic mineral, clonite or ?) through this unit, in addition poikilitic texture is common but fades out by the end to eh unit. Sulphide content is higher than above unit with pyrrhotite the e dominant sulphide. Magnetite grains are also commonly visible, normally as amorphous blebs. The feldspar content increases to 5-7% with rare sections of pristine white grains.	1-3	1-2		tr	E809928	420.00	421.00	1.00	0.008	0.0974	0.084	124	253	1200	2860	
									E809929	421.00	421.50	0.50	0.008	0.0936	0.082	127	288	1240	3050	
									E809930				0.002	0.001	0.001	2	4	4	13	Blank
									E809931	421.50	422.00	0.50	0.006	0.0833	0.071	120	230	1150	2900	
422.00	437.00	Peridotite	Upd	Peridotite is relatively massive with minor fractures and veinlets of alteration associated with them. The feldspar content averages 5% (locally variable, at times resembles an olivine bearing gabbro). Sulphides are coarser grained here (starting at 430m) occurring as distinct blebs (sometimes multi-phase) with local occurrences ~7%. Minor to moderate talc alteration. 439.7m 5cm veinlet @ 30 with carbonate and serpetinite, possible with fault gouge?	2-3	2-3		tr	E809932	422.00	423.00	1.00	0.011	0.134	0.119	130	323	1310	3190	
									E809933	423.00	424.00	1.00	0.009	0.114	0.1	121	271	1190	2980	
									E809934	424.00	425.00	1.00	0.005	0.0622	0.053	131	205	1220	3310	
									E809935	425.00	426.00	1.00	0.009	0.124	0.112	123	320	1230	3010	
									E809936	426.00	427.00	1.00	0.009	0.115	0.105	123	314	1200	2900	
									E809937	427.00	428.00	1.00	0.008	0.0907	0.082	118	262	1120	2740	
									E809938	428.00	429.00	1.00	0.005	0.0661	0.057	122	193	1130	2920	
									E809939	429.00	430.00	1.00	0.007	0.0767	0.068	124	255	1170	2970	
									E809940	430.00	431.00	1.00	0.009	0.0993	0.089	125	265	1210	3190	
									E809941	431.00	432.00	1.00	0.006	0.0704	0.057	125	236	1200	3270	
									E809942	432.00	433.00	1.00	0.007	0.0888	0.076	126	225	1200	3130	
									E809943	433.00	434.00	1.00	0.007	0.104	0.089	122	285	1170	2890	
									E809944	434.00	435.00	1.00	0.006	0.0796	0.07	121	246	1120	2880	
									E809945	435.00	436.00	1.00	0.007	0.0837	0.075	117	269	1100	2780	
									E809946	436.00	437.00	1.00	0.005	0.0781	0.07	120	262	1130	2860	
437.00	446.00	Peridotite	Upd	Peridotite with 5-7% feldspar, trace carbonate. Sulphides 2-3%, pyrrhotite. Sulphides are small blebs to specks. Transitional contact for last 2m of unit where alteration obscures features and feldspars are indistinctive.	2-3	2-3		<1	E809947	437.00	438.00	1.00	0.005	0.067	0.058	115	200	1060	2720	
									E809948	438.00	439.00	1.00	0.007	0.093	0.082	114	306	1080	2640	
									E809949	439.00	440.00	1.00	0.01	0.0894	0.086	109	303	1010	2440	
									E809950				0.27	2.74	2.78	119	6870	1560	1870	Standard
									E809951	440.00	441.00	1.00	0.007	0.0789	0.067	110	208	1020	2500	
									E809952	441.00	442.00	1.00	0.008	0.0934	0.083	111	286	1040	2490	
									E809953	442.00	443.00	1.00	0.006	0.0682	0.06	110	244	998	2480	
									E809954	443.00	444.00	1.00	0.008	0.0829	0.074	106	257	955	2390	
									E809955	444.00	445.00	1.00	0.008	0.0764	0.067	108	247	948	2460	
									E809956	445.00	446.00	1.00	0.008	0.101	0.088	100	293	897	2210	
446.00	454.10	Feldspar Rich Peridotite or Gabbro?	Upd	Peridotite to gabbro, feldspar content 10-15%, locally higher (25%). Talc alteration is still present in varying degrees. Sulphides are coarser grained, consisting of blebs up to 3mm in size and pyrite content increases downhole. Unit is a contaminated peridotite that borders on gabbroic in nature (feldspar content and appearance). Lower contact is irregular at ~45? 446.9m 2cm felsic rich vein 452.3m begin of chill margin, becomes finer grained, sulphide (pyrite) content increases, total sulphides 5-7%	3-5	2-3		tr 2-3	E809957	446.00	447.00	1.00	0.018	0.263	0.24	112	835	1140	2230	
									E809958	447.00	448.00	1.00	0.009	0.103	0.089	99	358	878	2160	
									E809959	448.00	449.00	1.00	0.006	0.0675	0.059	102	253	868	2310	
									E809960	449.00	450.00	1.00	0.005	0.0567	0.047	101	240	851	2210	
									E809961	450.00	451.00	1.00	0.005	0.0481	0.038	91	199	746	2000	
									E809962	451.00	451.60	0.60	0.005	0.0355	0.028	88	184	674	1880	
									E809963	451.60	452.30	0.70	0.005	0.0309	0.022	80	143	604	1710	
									E809964	452.30	453.30	1.00	0.006	0.0408	0.038	85	176	632	1810	
									E809965	453.30	454.10	0.80	0.008	0.0605	0.056	87	283	655	1590	
454.10	500.00	Sediments	S	Unit is composed of siltstone (mudstones?) with less common sandstone. Foliation (bedding) is variable (30-60) as the layers have undergone deformation. The deformation is likely a combination of primary, tectonic and related to the overlying intrusion. In addition sections of the sediments are brecciated. Minor amounts of quartz/carbonate veining occur, decreasing away from the upper contact (described below). Sulphides are dominantly along fractures and foliation/bedding planes (3-5% until ~470m then decreases). Variable amounts of epidote (with sericite?) alteration.	2-3	tr		2-3	E809966	454.10	455.00	0.90	0.004	0.0018	0.002	22	81	74	133	
									E809967	455.00	456.00	1.00	0.005	0.0017	0.002	17	33	70	112	
									E809968	456.00	457.00	1.00	0.004	0.0019	0.002	26	69	95	146	
									E809969	457.00	458.00	1.00	0.004	0.0015	0.002	22	8	91	142	
									E809970				0.004	<0.0005	<0.001	<1	2	1	7	Blank
									E809971	458.00	458.40	0.40	0.004	0.0009	0.001	12	42	40	63	
									E809972	458.40	459.40	1.00	0.003	0.0016	0.002	18	11	77	115	

From	To	Rock	Rock	Description	Sulf	Po	Cp	Py	Sample	From	To	Length	Au	Pt	Pd	Co	Cu	NI	Cr	Comment	
m	m	Type	Code		%	%	%	%	Number	m	m	m	ppm	ppb	ppb	ppm	ppm	ppm	ppm		
				and trace carbonate alteration.					E809973	459.40	460.40	1.00	0.004	0.0015	0.002	21	15	87	112		
				Upper Contact is baked until ~457m with only the first 60-90cm being highly altered/baked. Within the baked contact patches and veinlets of very fine grained, pinkish, felsic material <2cm in size can be found but are uncommon (resemble some of the material seen above the intrusive). Sulphide content is also higher within this zone up to 7% over 40cm.																	
500.00		EOH																			

**Appendix 2**  
**Certificates of Analysis**





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ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1  
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: MAGMA METALS (CANADA) LIMITED  
P.O. BOX 10628  
THUNDER BAY ON P7B 6V1

Page: 1  
Finalized Date: 2-NOV-2007  
Account: MGMAM

## CERTIFICATE TB07105236

Project: Beaver Lake  
P.O. No.:  
This report is for 137 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 20-SEP-2007.

The following have access to data associated with this certificate:

JUSTIN JOHNSON GRAHAM WILSON	ALLAN MAC TAVISH	KEITH WATKINS
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## SAMPLE PREPARATION


ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
PGM-MS24	Pt, Pd and Au 50g FA ICP-MS	ICP-MS
PGM-ICP27	Ore grade Pt, Pd and Au by ICP	ICP-AES
ME-ICP61	33 element four acid ICP-AES	ICP-AES

To: MAGMA METALS (CANADA) LIMITED  
ATTN: ALLAN MAC TAVISH  
P.O. BOX 10628  
THUNDER BAY ON P7B 6V1

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:   
Lawrence Ng, Laboratory Manager - Vancouver



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Page: 2 - A  
 Total # Pages: 5 (A - C)  
 Finalized Date: 2-NOV-2007  
 Account: MGMAM

Project: Beaver Lake

**CERTIFICATE OF ANALYSIS TB07105236**

Sample Description	Method	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%
LOR		0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01
E809651		2.24	<0.5	6.44	14	230	1.2	<2	0.18	<0.5	5	7	13	0.85	20	2.02
E809652		0.82	0.5	0.96	11	140	<0.5	<2	0.36	<0.5	3	33	61	0.60	<10	0.25
E809653		1.84	0.7	6.00	<5	210	1.4	<2	0.84	<0.5	8	18	748	0.98	10	1.69
E809654		2.44	<0.5	6.07	<5	240	1.4	<2	1.01	<0.5	5	29	137	1.04	20	1.68
E809655		0.91	0.7	5.53	8	300	1.7	<2	0.33	<0.5	5	52	90	1.57	20	1.89
E809656		2.24	<0.5	6.77	<5	250	1.5	<2	1.00	<0.5	7	30	248	1.17	20	2.17
E809657		1.01	<0.5	5.74	8	180	1.5	2	0.14	<0.5	5	30	52	0.89	10	1.94
E809658		1.37	2.4	7.67	6	350	2.8	3	1.15	<0.5	18	109	30	2.69	30	3.52
E809659		1.35	<0.5	7.04	<5	510	1.1	<2	0.64	<0.5	19	85	53	3.66	20	1.76
E809660		2.52	<0.5	7.82	<5	420	1.7	<2	0.85	<0.5	17	90	13	3.29	20	2.00
E809661		2.29	<0.5	7.49	6	390	1.7	<2	0.52	<0.5	17	90	33	3.11	20	2.08
E809662		2.64	<0.5	7.83	<5	870	1.8	<2	0.90	<0.5	14	92	26	3.30	20	2.06
E809663		3.12	<0.5	7.45	5	520	2.8	<2	1.06	<0.5	17	94	48	3.60	20	2.00
E809664		0.99	<0.5	6.86	6	500	4.0	<2	0.35	<0.5	5	26	129	1.45	20	2.44
E809665		0.96	<0.5	7.80	<5	430	4.3	<2	0.52	<0.5	17	95	16	3.11	20	2.11
E809666		2.46	<0.5	7.72	9	500	2.3	<2	0.85	<0.5	18	97	30	3.32	20	2.17
E809667		2.84	<0.5	7.58	<5	470	2.6	<2	0.56	<0.5	18	89	85	3.23	20	2.06
E809668		2.60	<0.5	7.27	<5	450	3.5	<2	0.63	<0.5	18	105	85	3.35	20	1.61
E809669		1.63	<0.5	7.15	<5	390	3.7	<2	1.34	<0.5	7	41	44	1.89	20	2.19
E809670		0.10	5.7	3.39	<5	160	0.7	<2	3.55	<0.5	116	1790	6920	9.83	10	0.34
E809671		2.14	<0.5	7.99	11	750	2.2	<2	1.01	<0.5	18	117	32	3.68	20	1.55
E809672		2.48	<0.5	7.20	<5	580	2.2	<2	0.71	<0.5	17	107	6	3.20	20	1.62
E809673		2.59	<0.5	7.16	5	310	3.0	<2	0.38	<0.5	4	11	79	1.07	20	2.73
E809674		2.22	<0.5	8.17	16	320	2.1	<2	0.76	<0.5	18	96	6	3.38	20	1.46
E809675		2.09	<0.5	8.15	12	460	3.0	<2	0.74	<0.5	20	106	9	3.55	20	1.48
E809676		2.42	<0.5	6.38	7	270	2.7	<2	0.26	<0.5	6	9	92	1.55	20	2.26
E809677		2.39	<0.5	7.94	<5	220	2.4	<2	0.55	<0.5	17	91	5	3.22	20	1.47
E809678		2.34	<0.5	7.57	7	370	3.0	<2	0.32	<0.5	8	36	15	1.92	20	1.94
E809679		3.26	<0.5	7.01	10	460	2.6	<2	0.21	<0.5	4	8	57	1.04	20	3.16
E809680		3.40	0.5	7.49	<5	620	2.9	2	0.23	<0.5	2	6	53	0.78	30	3.92
E809681		1.79	<0.5	8.70	11	680	4.0	2	0.69	<0.5	23	72	15	4.05	20	2.36
E809682		1.68	0.6	7.11	<5	880	3.6	<2	0.32	<0.5	3	6	79	1.20	30	2.28
E809683		1.27	<0.5	9.24	10	800	3.3	<2	1.29	<0.5	22	66	76	4.35	20	2.24
E809684		1.02	<0.5	7.85	8	670	3.1	<2	0.45	<0.5	3	11	91	1.23	30	4.22
E809685		2.60	<0.5	9.00	7	660	2.5	2	1.10	<0.5	25	90	40	4.40	20	2.15
E809686		3.04	<0.5	8.36	8	740	1.6	<2	0.90	<0.5	22	110	81	4.21	20	2.05
E809687		2.11	<0.5	7.95	10	840	2.7	<2	0.51	<0.5	19	81	72	3.48	20	2.73
E809688		1.95	<0.5	8.27	8	500	2.2	<2	0.54	<0.5	19	98	89	3.70	20	1.78
E809689		1.94	0.7	8.16	22	760	2.9	<2	0.74	<0.5	19	93	149	3.60	20	3.00
E809690		0.11	<0.5	7.57	<5	890	0.9	<2	1.98	<0.5	2	9	4	1.23	20	1.09



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Page: 2 - B

Total # Pages: 5 (A - C)

Finalized Date: 2-NOV-2007

Account: MGMAM

Project: Beaver Lake

## CERTIFICATE OF ANALYSIS TB07105236

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Ti
Units		ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
LOR		10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10
E809651		10	0.46	122	15	2.54	9	210	12	0.28	<5	2	97	<20	0.03	10
E809652		10	0.10	71	7	0.12	6	50	10	0.14	<5	1	12	<20	0.14	<10
E809653		30	0.73	202	34	1.94	15	260	11	0.31	5	4	63	20	0.07	<10
E809654		20	0.92	297	39	1.96	19	310	7	0.19	<5	5	60	<20	0.09	<10
E809655		10	1.87	304	5	0.88	24	590	9	0.36	<5	7	42	<20	0.13	<10
E809656		20	0.92	260	6	1.68	17	370	4	0.33	<5	6	61	<20	0.10	<10
E809657		10	0.56	111	4	1.00	12	240	8	0.29	<5	3	55	<20	0.13	<10
E809658		40	1.77	384	9	0.23	63	780	12	1.40	5	14	26	<20	0.31	<10
E809659		20	1.79	399	1	1.85	68	500	7	0.31	<5	13	253	<20	0.28	<10
E809660		10	2.09	577	<1	2.23	63	570	<2	0.13	<5	12	222	<20	0.28	<10
E809661		10	1.83	459	<1	2.03	53	640	4	0.27	<5	9	198	<20	0.26	<10
E809662		10	1.89	598	<1	2.23	48	630	6	0.18	5	9	291	<20	0.24	<10
E809663		10	2.07	616	1	1.97	56	660	5	0.44	<5	11	164	<20	0.27	<10
E809664		10	0.52	238	1	2.61	14	570	11	0.25	<5	4	121	<20	0.08	<10
E809665		10	1.71	509	1	2.24	59	620	7	0.21	<5	11	142	<20	0.27	<10
E809666		10	1.57	521	1	2.41	56	620	<2	0.27	<5	10	202	<20	0.26	<10
E809667		20	1.81	496	1	2.15	53	630	2	0.21	<5	10	197	<20	0.26	<10
E809668		20	2.04	520	<1	2.46	50	690	<2	0.19	5	10	306	<20	0.28	<10
E809669		10	1.02	415	<1	2.78	19	710	6	0.13	<5	4	146	<20	0.12	<10
E809670		20	11.15	1260	1	0.78	1550	1010	23	0.89	<5	16	322	<20	0.72	<10
E809671		20	2.11	597	2	2.76	54	720	7	0.18	5	10	366	<20	0.29	<10
E809672		20	1.96	526	<1	2.52	49	690	3	0.07	<5	9	301	<20	0.28	<10
E809673		<10	0.36	188	5	2.99	8	430	15	0.14	<5	1	78	<20	0.04	<10
E809674		20	2.02	535	<1	3.35	49	680	8	0.10	5	10	282	<20	0.28	<10
E809675		20	2.15	619	<1	3.29	56	740	8	0.09	<5	11	244	<20	0.31	<10
E809676		<10	0.56	329	<1	2.28	4	400	9	0.25	<5	1	66	<20	0.01	<10
E809677		20	1.88	533	<1	3.08	54	790	10	0.04	<5	11	171	<20	0.32	10
E809678		10	0.76	558	<1	3.23	19	620	7	0.13	<5	4	124	<20	0.12	10
E809679		<10	0.27	628	<1	2.57	5	400	12	0.18	<5	1	92	<20	0.01	<10
E809680		<10	0.22	349	<1	2.53	1	490	15	0.10	<5	1	107	<20	0.01	<10
E809681		10	2.72	852	<1	2.63	55	1230	6	0.15	<5	11	247	<20	0.32	<10
E809682		<10	0.34	933	<1	3.10	3	450	5	0.17	<5	1	120	<20	0.02	<10
E809683		20	2.49	877	<1	2.99	49	1400	13	0.23	<5	11	436	<20	0.33	<10
E809684		<10	0.42	261	<1	2.39	6	670	13	0.10	<5	2	130	<20	0.04	<10
E809685		20	2.53	689	<1	3.11	69	1240	8	0.44	<5	14	296	<20	0.35	<10
E809686		30	1.91	690	<1	3.04	66	860	9	0.29	<5	13	260	<20	0.36	<10
E809687		10	1.87	584	<1	2.42	47	790	8	0.39	<5	10	233	<20	0.26	<10
E809688		10	2.20	564	<1	2.84	50	770	4	0.19	<5	10	314	<20	0.28	<10
E809689		20	2.32	593	<1	1.49	45	730	8	0.28	5	8	133	<20	0.26	<10
E809690		10	0.19	703	<1	3.48	3	170	11	0.01	5	1	752	<20	0.08	<10



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212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1  
 Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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 P.O. BOX 10628  
 THUNDER BAY ON P7B 6V1

Page: 2 - C  
 Total # Pages: 5 (A - C)  
 Finalized Date: 2-NOV-2007  
 Account: MGMAM

Project: Beaver Lake

**CERTIFICATE OF ANALYSIS TB07105236**

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	PGM-MS24	PGM-MS24	PGM-MS24	PGM-ICP27	PGM-ICP27	PGM-ICP27
	Analyte	U	V	W	Zn	Au	Pt	Pd	Au	Pt	Pd
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR	10	1	10	2	0.001	0.0005	0.001	0.03	0.03	0.03	
E809651		20	7	<10	8	0.003	<0.0005	<0.001			
E809652		<10	7	<10	15	0.002	0.0005	0.001			
E809653		20	14	<10	39	0.002	<0.0005	<0.001			
E809654		20	26	<10	23	0.003	<0.0005	0.001			
E809655		<10	43	<10	35	0.002	0.0005	0.001			
E809656		10	30	<10	20	0.002	0.0005	0.001			
E809657		10	23	<10	15	0.002	<0.0005	<0.001			
E809658		<10	111	<10	32	0.002	0.0005	0.001			
E809659		<10	100	<10	57	0.002	0.0014	0.002			
E809660		10	95	<10	67	0.002	0.0013	0.001			
E809661		10	78	<10	60	0.002	0.0011	0.001			
E809662		<10	74	<10	59	0.002	0.0009	0.001			
E809663		10	88	<10	68	0.002	0.0012	0.001			
E809664		20	22	<10	24	0.002	<0.0005	<0.001			
E809665		10	90	<10	65	0.003	0.0012	0.002			
E809666		<10	83	<10	54	0.002	0.0009	0.001			
E809667		10	81	<10	62	0.002	0.0010	0.001			
E809668		<10	80	<10	61	0.002	0.0009	0.001			
E809669		10	31	<10	30	0.002	<0.0005	<0.001			
E809670		<10	160	<10	108	0.475	>1.00	>1.00	0.27	2.80	2.66
E809671		<10	84	<10	57	0.002	0.0015	0.002			
E809672		<10	79	<10	62	0.002	0.0012	0.001			
E809673		20	6	<10	15	0.002	<0.0005	<0.001			
E809674		10	79	<10	52	0.002	0.0011	0.001			
E809675		10	88	<10	57	0.002	0.0010	0.001			
E809676		10	6	<10	13	0.002	0.0005	<0.001			
E809677		10	88	<10	51	0.002	0.0010	0.001			
E809678		20	31	<10	28	0.002	<0.0005	<0.001			
E809679		20	2	<10	28	0.002	<0.0005	<0.001			
E809680		20	1	<10	12	0.002	<0.0005	<0.001			
E809681		10	100	<10	70	0.002	0.0013	0.002			
E809682		30	3	<10	9	0.002	<0.0005	<0.001			
E809683		10	101	<10	72	0.002	0.0016	0.002			
E809684		10	11	<10	11	<0.001	<0.0005	<0.001			
E809685		10	114	<10	57	0.001	0.0014	0.002			
E809686		10	104	<10	66	0.001	0.0009	0.001			
E809687		20	79	<10	40	0.001	0.0008	0.001			
E809688		10	79	10	50	0.001	0.0009	0.001			
E809689		10	82	<10	58	0.001	0.0010	0.001			
E809690		10	9	10	79	<0.001	<0.0005	<0.001			



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212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1  
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Page: 3 - A  
 Total # Pages: 5 (A - C)  
 Finalized Date: 2-NOV-2007  
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Project: Beaver Lake

**CERTIFICATE OF ANALYSIS TB07105236**

Sample Description	Method Analyte Units LOR	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %
E809691		2.32	<0.5	8.00	12	860	3.2	<2	0.54	<0.5	21	105	77	3.73	20	2.46
E809692		1.94	<0.5	8.37	<5	800	2.5	2	0.58	<0.5	18	98	44	3.49	20	2.37
E809693		2.34	<0.5	8.42	8	590	2.1	2	0.60	<0.5	18	109	11	3.51	20	2.05
E809694		1.03	<0.5	3.08	11	200	1.0	5	0.47	<0.5	11	52	44	2.48	10	0.72
E809695		1.04	<0.5	2.72	9	120	1.0	<2	0.37	<0.5	11	58	97	2.43	10	0.40
E809696		1.25	<0.5	7.96	13	750	2.4	<2	0.40	<0.5	6	24	214	1.69	20	2.37
E809697		1.89	<0.5	5.50	15	460	2.2	<2	1.79	<0.5	27	162	594	4.43	20	1.11
E809698		2.00	<0.5	7.29	16	460	1.8	<2	1.45	<0.5	31	164	321	5.97	20	1.19
E809699		1.91	<0.5	7.28	30	430	1.6	<2	0.70	<0.5	29	150	196	5.75	20	1.21
E809700		1.91	<0.5	7.56	16	440	1.9	2	0.76	<0.5	31	146	125	5.90	20	1.32
E809701		1.66	<0.5	7.50	17	300	1.4	<2	1.93	<0.5	26	146	77	5.74	20	1.29
E809702		1.64	<0.5	7.32	<5	560	1.8	<2	1.14	<0.5	24	117	27	5.23	20	1.76
E809703		1.03	<0.5	7.19	27	440	2.0	<2	1.31	<0.5	30	131	82	5.66	10	1.49
E809704		1.92	<0.5	6.18	27	390	1.6	2	1.36	<0.5	21	91	83	4.56	10	1.36
E809705		2.20	<0.5	7.40	15	430	2.1	2	2.39	<0.5	25	37	8	6.40	20	1.56
E809706		1.96	<0.5	7.64	10	300	2.5	2	2.94	<0.5	24	47	6	6.30	20	1.33
E809707		2.42	<0.5	7.61	27	360	2.4	2	2.32	<0.5	27	27	5	6.77	20	1.53
E809708		2.07	<0.5	7.29	24	420	2.3	<2	2.90	<0.5	23	27	6	6.27	20	1.59
E809709		1.96	<0.5	6.81	20	400	3.0	<2	1.45	<0.5	17	53	7	4.86	10	1.32
E809710		0.11	5.5	3.16	<5	150	0.6	<2	3.34	<0.5	106	1730	6630	9.62	10	0.32
E809711		2.01	<0.5	6.94	10	300	1.5	<2	1.69	<0.5	16	58	12	5.42	20	1.26
E809712		1.91	<0.5	7.31	23	850	1.5	<2	1.57	<0.5	17	52	8	5.77	20	1.52
E809713		1.80	<0.5	7.08	28	1360	1.6	<2	1.62	<0.5	20	58	52	5.20	20	1.38
E809714		2.12	<0.5	6.61	48	750	1.9	<2	1.87	<0.5	26	75	71	5.07	20	1.06
E809715		2.08	<0.5	6.98	63	380	1.5	<2	2.13	<0.5	25	50	87	5.32	20	1.47
E809716		2.16	<0.5	6.90	<5	190	1.5	<2	3.05	<0.5	25	27	263	7.49	20	0.87
E809717		1.78	<0.5	6.83	56	180	2.4	<2	3.26	<0.5	30	33	599	7.48	20	0.57
E809718		0.86	<0.5	6.60	252	380	2.7	<2	2.46	13.5	61	210	529	9.88	20	0.40
E809719		1.81	2.3	2.98	128	50	1.0	<2	5.79	7.0	125	1050	2870	9.80	10	0.16
E809720		0.90	<0.5	2.34	7	100	0.5	<2	5.61	<0.5	103	1310	802	9.69	10	0.27
E809721		1.06	<0.5	2.58	<5	90	0.5	<2	5.64	<0.5	98	1280	440	9.41	10	0.28
E809722		0.98	0.5	2.46	<5	50	0.5	<2	5.19	<0.5	102	1480	828	9.32	10	0.22
E809723		1.04	1.0	2.40	<5	90	0.5	<2	4.54	<0.5	119	1500	1600	10.25	10	0.30
E809724		1.33	0.8	2.51	32	60	0.6	<2	4.58	<0.5	109	1650	988	9.90	<10	0.27
E809725		1.06	<0.5	2.67	10	50	0.5	<2	4.78	<0.5	99	1560	360	9.48	10	0.28
E809726		2.10	<0.5	2.80	22	60	0.6	<2	4.63	<0.5	104	1730	397	9.60	10	0.33
E809727		2.13	<0.5	2.72	8	140	0.6	<2	4.18	<0.5	113	1730	772	9.61	10	0.39
E809728		2.35	<0.5	2.69	21	260	0.6	<2	3.70	<0.5	108	1720	639	9.56	10	0.42
E809729		2.03	<0.5	2.69	5	140	0.5	<2	3.67	<0.5	122	1820	1060	10.30	10	0.45
E809730		0.09	<0.5	7.02	<5	800	0.8	<2	1.82	<0.5	1	20	8	1.17	20	1.04



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ALS Canada Ltd

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

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Page: 3 - B

Total # Pages: 5 (A - C)

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Project: Beaver Lake

## CERTIFICATE OF ANALYSIS TB07105236

Sample Description	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ta ppm	Ti %	Ti ppm	Ti ppm
Method Analyte Units LOR	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10	10
E809691	10	2.03	541	<1	2.79	61	810	6	0.23	<5	12	301	<20	0.33	<10	<10
E809692	20	1.94	596	<1	3.15	58	790	5	0.17	<5	12	217	<20	0.31	<10	<10
E809693	20	2.12	614	<1	3.50	57	810	2	0.31	7	12	224	<20	0.31	<10	<10
E809694	20	1.28	351	224	0.88	33	390	3	0.43	<5	6	47	<20	0.20	<10	<10
E809695	10	1.53	411	1	0.77	65	430	<2	0.19	<5	6	37	<20	0.25	<10	<10
E809696	10	0.75	410	<1	3.76	56	470	4	0.06	<5	3	180	<20	0.13	<10	<10
E809697	20	2.52	773	<1	1.88	223	760	2	0.57	<5	12	105	<20	0.52	<10	<10
E809698	20	3.12	849	<1	3.02	100	930	8	0.77	<5	19	155	<20	0.73	<10	<10
E809699	30	3.22	849	<1	2.87	88	920	9	0.80	<5	18	127	<20	0.63	<10	<10
E809700	30	3.24	817	<1	2.99	96	920	5	0.74	5	18	126	<20	0.66	<10	<10
E809701	30	2.89	872	<1	3.47	65	960	8	0.45	<5	19	100	<20	0.69	<10	<10
E809702	30	2.64	757	<1	3.02	49	840	6	0.29	<5	17	116	<20	0.65	<10	<10
E809703	20	2.89	795	<1	3.07	55	910	3	0.90	<5	18	115	<20	0.67	<10	<10
E809704	20	2.21	626	<1	2.60	40	990	4	0.55	<5	14	96	<20	0.60	<10	<10
E809705	30	2.69	895	<1	3.21	15	1060	10	0.48	<5	21	117	<20	0.95	10	<10
E809706	30	2.89	950	<1	3.31	15	1100	6	0.11	<5	20	109	<20	0.92	<10	<10
E809707	20	3.05	903	<1	2.92	15	1270	7	0.70	5	20	103	<20	1.02	<10	<10
E809708	20	2.57	917	<1	2.91	11	1210	3	0.24	6	19	116	<20	1.01	<10	<10
E809709	20	2.15	592	<1	3.26	26	1940	2	0.43	<5	11	120	<20	0.63	<10	<10
E809710	20	10.60	1130	<1	0.76	1380	960	13	0.83	<5	16	319	<20	0.74	10	<10
E809711	40	2.23	633	<1	3.34	29	1430	<2	0.43	<5	13	106	<20	0.78	<10	<10
E809712	40	2.41	691	<1	3.35	33	1340	<2	0.44	<5	13	112	<20	0.80	10	<10
E809713	20	2.48	715	<1	3.28	26	1200	<2	0.94	<5	13	117	<20	0.80	<10	<10
E809714	20	2.42	782	3	3.05	35	1040	<2	1.55	<5	12	109	<20	0.56	10	<10
E809715	40	2.58	890	4	3.06	24	1650	<2	1.73	<5	14	79	<20	0.86	10	<10
E809716	30	2.97	1080	<1	2.81	22	1100	<2	0.36	<5	19	80	<20	1.38	<10	<10
E809717	30	3.92	1465	1	2.40	35	900	15	0.83	<5	23	95	<20	1.47	<10	<10
E809718	20	5.77	2390	3	1.60	269	1050	312	2.04	<5	18	96	<20	0.97	<10	<10
E809719	20	9.71	1760	<1	0.52	1370	530	1970	1.07	7	26	193	<20	0.73	<10	<10
E809720	20	11.75	1300	<1	0.33	793	520	21	0.41	6	27	225	<20	0.61	<10	<10
E809721	20	11.65	1285	<1	0.37	603	480	5	0.24	5	26	255	<20	0.65	<10	<10
E809722	20	11.30	1290	<1	0.29	762	560	<2	0.42	<5	23	226	<20	0.63	<10	<10
E809723	10	12.00	1300	<1	0.39	1165	490	3	0.48	7	21	281	<20	0.60	<10	<10
E809724	10	11.70	1290	<1	0.36	1030	530	<2	0.89	5	21	257	<20	0.65	<10	<10
E809725	20	11.75	1265	<1	0.39	715	590	<2	0.16	<5	21	263	<20	0.68	<10	<10
E809726	20	12.05	1280	<1	0.47	735	620	<2	0.26	9	20	309	<20	0.70	<10	<10
E809727	20	12.00	1250	<1	0.55	952	630	5	0.33	<5	18	383	<20	0.68	10	<10
E809728	20	12.30	1245	<1	0.52	866	570	2	0.50	<5	17	654	<20	0.65	<10	<10
E809729	20	13.25	1330	<1	0.56	1095	690	<2	0.36	7	17	437	<20	0.70	<10	<10
E809730	10	0.23	632	<1	3.20	7	140	9	0.01	<5	1	723	<20	0.07	<10	<10



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Page: 3 - C  
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Sample Description	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	PGM-MS24	PGM-MS24	PGM-MS24	PGM-ICP27	PGM-ICP27	PGM-ICP27
	U	V	W	Zn	Au	Pt	Pd	Au	Pt	Pd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Method Analyte Units LOR	10	1	10	2	0.001	0.0005	0.001	0.03	0.03	0.03
E809691	10	100	<10	52	<0.001	0.0010	0.001			
E809692	10	91	<10	60	0.001	0.0013	0.001			
E809693	10	91	<10	64	0.002	0.0012	0.001			
E809694	<10	54	<10	30	0.003	0.0285	0.026			
E809695	<10	54	<10	39	0.002	0.0606	0.058			
E809696	20	27	10	25	0.004	0.0738	0.066			
E809697	10	113	10	81	0.015	0.195	0.195			
E809698	10	169	10	89	0.007	0.0446	0.038			
E809699	10	151	<10	89	0.005	0.0325	0.025			
E809700	<10	155	<10	85	0.005	0.0433	0.025			
E809701	10	173	<10	91	0.003	0.0199	0.012			
E809702	<10	149	<10	87	0.002	0.0135	0.007			
E809703	<10	160	<10	88	0.003	0.0175	0.008			
E809704	<10	127	<10	72	0.002	0.0086	0.004			
E809705	10	222	10	87	<0.001	0.0009	<0.001			
E809706	10	215	10	96	0.001	0.0006	<0.001			
E809707	10	226	<10	86	0.001	<0.0005	<0.001			
E809708	10	223	10	80	0.001	<0.0005	<0.001			
E809709	<10	112	<10	61	<0.001	0.0006	<0.001			
E809710	<10	153	<10	101	0.276	>1.00	>1.00	0.28	2.84	2.72
E809711	<10	128	<10	58	0.001	0.0021	0.002			
E809712	<10	131	<10	64	0.001	0.0016	0.001			
E809713	<10	130	10	70	0.001	0.0018	0.001			
E809714	<10	105	10	68	0.001	0.0013	0.001			
E809715	<10	127	<10	76	0.002	0.0070	0.004			
E809716	<10	231	<10	88	0.001	0.0032	0.002			
E809717	<10	318	<10	95	0.001	0.0052	0.004			
E809718	<10	197	<10	3800	0.015	0.0751	0.046			
E809719	<10	142	<10	2620	0.065	0.740	0.700			
E809720	<10	131	<10	112	0.018	0.279	0.269			
E809721	<10	135	<10	93	0.009	0.138	0.132			
E809722	<10	132	10	94	0.019	0.277	0.266			
E809723	<10	132	<10	98	0.038	0.642	0.646			
E809724	<10	142	<10	100	0.022	0.343	0.344			
E809725	<10	139	<10	96	0.009	0.125	0.123			
E809726	<10	143	<10	96	0.008	0.122	0.115			
E809727	<10	137	<10	96	0.018	0.283	0.286			
E809728	<10	130	<10	92	0.015	0.210	0.207			
E809729	<10	135	<10	101	0.024	0.343	0.361			
E809730	<10	7	<10	74	0.001	0.0022	0.002			



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ALS Canada Ltd

212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1  
 Phone: 604 984 0221 Fax 604 984 0218 www.alschemex.com

To: MAGMA METALS (CANADA) LIMITED  
 P.O. BOX 10628  
 THUNDER BAY ON P7B 6V1

Page: 4 - A  
 Total # Pages: 5 (A - C)  
 Finalized Date: 2-NOV-2007  
 Account: MGMAM

Project: Beaver Lake

## CERTIFICATE OF ANALYSIS TB07105236

Sample Description	Method	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%
LOR		0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01
E809731		2.32	0.8	2.56	<5	120	0.5	<2	3.42	<0.5	120	1870	1430	10.45	10	0.37
E809732		0.93	<0.5	3.01	29	50	0.5	<2	6.35	<0.5	86	1510	442	8.45	10	0.15
E809733		1.32	<0.5	2.21	63	90	<0.5	<2	4.06	<0.5	117	2140	757	10.15	10	0.20
E809734		1.12	<0.5	2.16	20	100	<0.5	<2	3.64	<0.5	117	2230	728	10.40	10	0.24
E809735		1.01	0.6	2.08	92	110	<0.5	<2	3.76	<0.5	121	1920	1000	10.45	10	0.19
E809736		2.16	<0.5	2.19	<5	90	<0.5	<2	3.52	<0.5	120	2250	503	10.55	10	0.22
E809737		2.82	0.5	2.14	14	100	<0.5	<2	3.69	<0.5	125	2260	790	10.70	10	0.23
E809738		3.30	0.5	1.94	24	90	<0.5	<2	3.79	<0.5	127	2270	974	11.40	10	0.24
E809739		2.90	<0.5	2.27	58	70	<0.5	<2	5.03	<0.5	120	2120	732	10.30	10	0.18
E809740		2.87	0.6	1.88	<5	70	<0.5	<2	3.29	<0.5	133	2530	1130	10.95	<10	0.22
E809741		2.17	<0.5	1.75	11	90	<0.5	<2	3.21	<0.5	131	2410	607	11.05	10	0.19
E809742		1.76	<0.5	2.89	97	220	<0.5	<2	7.93	<0.5	84	1550	318	8.56	10	0.09
E809743		1.36	<0.5	1.75	<5	80	<0.5	<2	3.43	<0.5	135	2470	434	11.55	10	0.20
E809744		2.90	<0.5	1.85	<5	100	<0.5	<2	2.99	<0.5	126	2620	294	10.60	10	0.24
E809745		2.73	<0.5	1.79	14	90	<0.5	<2	2.97	<0.5	130	2550	310	10.35	<10	0.20
E809746		2.95	<0.5	1.79	<5	80	<0.5	<2	2.92	<0.5	126	2630	329	10.50	<10	0.23
E809747		2.75	<0.5	1.74	16	90	<0.5	<2	2.82	<0.5	128	2650	275	10.35	<10	0.22
E809748		2.88	<0.5	1.67	<5	120	<0.5	<2	2.66	<0.5	124	2620	238	9.97	<10	0.24
E809749		2.72	0.8	1.62	12	70	<0.5	<2	2.72	<0.5	127	2770	255	10.10	<10	0.22
E809750		0.10	6.0	3.40	<5	170	0.8	2	3.61	1.2	116	1990	6780	10.40	10	0.32
E809751		2.91	0.6	1.65	<5	60	<0.5	<2	2.67	<0.5	127	2800	217	10.35	10	0.25
E809752		2.69	1.1	1.57	12	80	<0.5	<2	2.72	<0.5	133	2880	242	10.40	<10	0.18
E809753		2.83	0.6	1.66	<5	100	<0.5	<2	2.74	<0.5	129	2710	172	10.30	<10	0.25
E809754		2.78	0.8	1.59	<5	80	<0.5	<2	2.60	<0.5	134	2820	234	10.75	<10	0.23
E809755		2.82	<0.5	1.60	<5	90	<0.5	<2	2.54	<0.5	129	2800	199	10.45	10	0.24
E809756		2.86	<0.5	1.65	<5	110	<0.5	<2	2.75	<0.5	131	2810	181	10.55	<10	0.26
E809757		2.86	0.5	1.55	8	70	<0.5	<2	2.48	<0.5	139	3080	228	10.85	<10	0.22
E809758		2.79	<0.5	1.43	<5	90	<0.5	<2	2.39	<0.5	139	3050	182	10.85	<10	0.23
E809759		2.75	0.6	1.53	<5	90	<0.5	2	2.42	<0.5	143	3180	166	11.55	<10	0.24
E809760		2.84	<0.5	1.50	7	80	<0.5	<2	2.15	<0.5	130	3010	155	10.35	<10	0.20
E809761		2.88	<0.5	1.43	7	70	<0.5	<2	2.10	<0.5	134	3190	214	10.50	<10	0.23
E809762		2.93	<0.5	1.55	<5	80	<0.5	<2	2.11	<0.5	139	3180	188	10.65	10	0.22
E809763		2.78	0.7	1.50	<5	70	<0.5	<2	2.01	0.5	140	3190	147	10.65	10	0.22
E809764		2.87	<0.5	1.61	<5	60	<0.5	<2	2.05	<0.5	138	3190	134	10.65	<10	0.23
E809765		2.85	0.6	1.27	<5	70	<0.5	<2	1.95	<0.5	142	3380	163	10.75	10	0.24
E809766		2.81	<0.5	1.56	<5	60	<0.5	<2	1.92	<0.5	144	3310	166	11.00	10	0.24
E809767		2.56	0.6	1.56	<5	80	<0.5	<2	1.85	<0.5	140	3290	157	10.60	<10	0.20
E809768		1.39	<0.5	1.40	<5	70	<0.5	<2	2.03	<0.5	131	3000	134	9.92	<10	0.17
E809769		1.72	0.6	1.51	28	80	<0.5	<2	1.94	<0.5	138	3010	150	10.50	<10	0.16
E809770		0.09	<0.5	7.15	<5	850	0.9	<2	1.81	<0.5	1	32	3	1.16	20	1.02





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ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1  
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Page: 4 - B  
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Account: MGMAM

Project: Beaver Lake

## CERTIFICATE OF ANALYSIS TB07105236

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
Units	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10
E809731	10	13.30	1335	<1	0.52	1320	690	<2	0.45	<5	16	342	<20	0.66	<10
E809732	20	10.60	1220	<1	0.27	664	590	4	0.78	<5	22	202	<20	0.68	10
E809733	10	13.05	1300	<1	0.37	1055	470	<2	1.13	<5	17	372	<20	0.56	<10
E809734	10	13.45	1345	<1	0.41	1075	480	3	0.27	<5	17	302	<20	0.57	<10
E809735	10	13.30	1295	<1	0.33	1175	470	6	1.27	6	16	273	<20	0.54	<10
E809736	10	14.05	1375	<1	0.44	975	410	<2	0.15	<5	17	291	<20	0.59	<10
E809737	10	14.40	1405	<1	0.36	1110	440	<2	0.33	<5	17	292	<20	0.56	10
E809738	10	14.90	1485	<1	0.25	1170	490	2	0.55	<5	18	219	<20	0.61	<10
E809739	10	14.05	1360	<1	0.28	1045	460	5	0.90	5	19	227	<20	0.56	<10
E809740	10	15.50	1420	<1	0.25	1345	420	<2	0.28	6	16	192	<20	0.51	<10
E809741	10	15.30	1445	<1	0.25	1140	390	3	0.24	5	16	222	<20	0.50	<10
E809742	20	11.35	1255	<1	0.51	654	590	3	1.93	8	28	301	<20	0.80	<10
E809743	10	15.65	1510	<1	0.33	1085	380	4	0.14	5	18	221	<20	0.51	<10
E809744	10	15.20	1395	<1	0.30	1065	440	<2	0.18	6	15	252	<20	0.51	<10
E809745	10	15.45	1475	3	0.27	1090	440	17	0.38	<5	15	245	<20	0.51	<10
E809746	10	15.90	1475	<1	0.27	1125	390	5	0.18	<5	15	270	<20	0.50	<10
E809747	10	15.70	1450	<1	0.29	1095	370	7	0.30	<5	14	224	<20	0.49	<10
E809748	10	15.15	1395	<1	0.31	1070	390	3	0.11	<5	14	165	<20	0.46	<10
E809749	10	15.50	1420	<1	0.23	1115	340	3	0.22	<5	14	216	<20	0.46	<10
E809750	20	11.85	1305	<1	0.79	1580	1040	22	1.02	<5	17	337	<20	0.78	<10
E809751	10	16.00	1455	<1	0.26	1125	390	<2	0.19	<5	14	222	<20	0.47	<10
E809752	10	16.15	1465	<1	0.23	1160	330	7	0.59	<5	14	231	<20	0.44	<10
E809753	10	15.90	1445	<1	0.31	1110	420	13	0.16	<5	14	214	<20	0.47	<10
E809754	10	16.95	1510	<1	0.31	1180	380	6	0.15	<5	13	192	<20	0.45	<10
E809755	10	16.65	1470	<1	0.28	1140	350	<2	0.16	<5	13	197	<20	0.44	<10
E809756	10	16.90	1485	<1	0.29	1165	370	3	0.14	5	13	204	<20	0.46	<10
E809757	10	17.40	1515	<1	0.30	1245	390	6	0.19	<5	13	206	<20	0.44	<10
E809758	10	17.30	1515	<1	0.35	1245	380	<2	0.07	<5	9	168	<20	0.46	10
E809759	10	18.75	1615	<1	0.35	1300	430	<2	0.07	<5	10	196	<20	0.47	<10
E809760	10	16.70	1445	<1	0.29	1170	410	<2	0.13	<5	11	182	<20	0.42	<10
E809761	10	17.10	1465	<1	0.28	1250	410	7	0.18	<5	10	196	<20	0.43	<10
E809762	10	17.50	1490	<1	0.32	1255	400	7	0.13	<5	11	190	<20	0.44	<10
E809763	10	17.65	1490	<1	0.28	1270	380	11	0.14	<5	11	202	<20	0.42	<10
E809764	10	17.70	1495	<1	0.29	1255	360	5	0.15	<5	11	247	<20	0.44	10
E809765	10	17.65	1505	<1	0.29	1290	410	7	0.11	<5	6	194	<20	0.44	<10
E809766	10	18.40	1530	<1	0.27	1305	370	4	0.10	<5	11	204	<20	0.44	<10
E809767	10	17.85	1475	<1	0.29	1290	400	5	0.12	<5	10	193	<20	0.43	<10
E809768	10	16.95	1395	<1	0.19	1205	350	6	0.19	<5	9	191	<20	0.39	<10
E809769	10	17.90	1500	<1	0.22	1300	410	10	0.39	<5	10	198	<20	0.41	<10
E809770	10	0.25	676	<1	3.14	4	180	13	0.01	<5	1	724	<20	0.07	10



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212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1  
 Phone 604 984 0221 Fax 604 984 0218 www.alschemex.com

To: MAGMA METALS (CANADA) LIMITED  
 P.O. BOX 10628  
 THUNDER BAY ON P7B 6V1

Page: 4 - C  
 Total # Pages: 5 (A - C)  
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 Account: MGRAM

Project: Beaver Lake

**CERTIFICATE OF ANALYSIS TB07105236**

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	PGM-MS24	PGM-MS24	PGM-MS24	PGM-ICP27	PGM-ICP27	PGM-ICP27
	Analyte	U	V	W	Zn	Au	Pt	Pd	Au	Pt	Pd
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR											
		10	1	10	2	0.001	0.0005	0.001	0.03	0.03	0.03
E809731		<10	132	<10	103	0.036	0.523	0.519			
E809732		<10	143	<10	89	0.010	0.158	0.155			
E809733		<10	133	<10	107	0.017	0.271	0.262			
E809734		<10	130	<10	100	0.019	0.283	0.269			
E809735		<10	126	<10	113	0.035	0.442	0.416			
E809736		<10	129	<10	103	0.011	0.173	0.161			
E809737		<10	134	<10	105	0.016	0.275	0.263			
E809738		<10	148	<10	116	0.018	0.301	0.297			
E809739		<10	136	<10	107	0.015	0.228	0.212			
E809740		<10	125	<10	110	0.020	0.258	0.228			
E809741		<10	128	<10	111	0.013	0.185	0.163			
E809742		<10	169	<10	84	0.005	0.0521	0.048			
E809743		<10	139	10	114	0.008	0.125	0.122			
E809744		<10	126	<10	104	0.007	0.100	0.089			
E809745		<10	123	10	130	0.006	0.0829	0.074			
E809746		<10	122	<10	114	0.007	0.103	0.094			
E809747		<10	119	<10	106	0.006	0.0797	0.074			
E809748		<10	111	10	100	0.005	0.0645	0.058			
E809749		<10	113	10	104	0.006	0.0870	0.073			
E809750		<10	166	<10	109	0.251	>1.00	>1.00	0.28	2.87	2.69
E809751		<10	111	10	103	0.004	0.0586	0.050			
E809752		<10	110	10	155	0.006	0.0706	0.062			
E809753		<10	111	10	104	0.004	0.0428	0.037			
E809754		<10	106	<10	104	0.006	0.0652	0.058			
E809755		<10	104	10	104	0.005	0.0583	0.050			
E809756		<10	106	<10	103	0.004	0.0516	0.045			
E809757		<10	104	10	114	0.004	0.0591	0.052			
E809758		<10	105	10	114	0.003	0.0472	0.041			
E809759		<10	107	<10	111	0.004	0.0452	0.039			
E809760		<10	98	<10	171	0.003	0.0466	0.040			
E809761		<10	101	<10	103	0.006	0.0782	0.068			
E809762		<10	99	10	104	0.006	0.0674	0.061			
E809763		<10	98	<10	105	0.005	0.0507	0.042			
E809764		<10	97	<10	106	0.004	0.0437	0.037			
E809765		<10	97	<10	105	0.005	0.0677	0.058			
E809766		<10	98	<10	107	0.005	0.0562	0.051			
E809767		<10	95	<10	106	0.005	0.0576	0.045			
E809768		<10	87	<10	97	0.005	0.0513	0.044			
E809769		<10	93	<10	101	0.006	0.0596	0.052			
E809770		<10	8	<10	75	0.007	<0.0005	<0.001			



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Page: 5 - A

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Sample Description	Method	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%
	LOR	0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01
E809771		2.83	<0.5	1.52	23	80	<0.5	<2	1.81	<0.5	139	3170	261	10.30	<10	0.18
E809772		2.85	0.7	1.50	<5	70	<0.5	<2	1.73	<0.5	140	3260	155	10.35	<10	0.17
E809773		2.50	<0.5	1.50	<5	70	<0.5	<2	1.87	<0.5	132	3140	253	9.90	<10	0.15
E809774		2.62	<0.5	1.38	<5	140	<0.5	2	1.70	<0.5	133	3030	107	9.96	<10	0.15
E809775		2.40	<0.5	1.35	<5	50	<0.5	<2	1.69	0.6	130	3150	107	9.75	10	0.16
E809776		2.84	<0.5	1.44	<5	50	<0.5	<2	1.70	<0.5	143	3240	129	10.45	<10	0.16
E809777		2.71	0.6	1.37	<5	70	<0.5	<2	1.63	<0.5	138	3350	204	10.25	10	0.17
E809778		2.81	<0.5	1.43	<5	70	<0.5	<2	1.72	0.5	143	3220	114	10.40	<10	0.18
E809779		2.90	0.8	1.38	<5	70	<0.5	<2	1.57	<0.5	138	3380	177	10.15	<10	0.16
E809780		2.72	<0.5	1.35	5	70	<0.5	<2	1.59	<0.5	131	3090	149	9.86	<10	0.17
E809781		2.51	<0.5	1.47	<5	80	<0.5	<2	1.75	<0.5	149	3190	169	11.15	<10	0.19
E809782		2.81	<0.5	1.40	39	70	<0.5	<2	1.80	<0.5	152	3360	286	11.05	10	0.17
E809783		2.60	1.1	1.26	24	60	<0.5	<2	1.66	<0.5	137	3130	163	9.89	<10	0.12
E809784		2.56	<0.5	1.34	11	70	<0.5	<2	1.60	0.5	145	3350	132	10.55	<10	0.15
E809785		2.82	<0.5	1.38	<5	70	<0.5	<2	1.61	<0.5	148	3480	82	10.75	<10	0.18
E809786		2.76	<0.5	1.35	<5	70	<0.5	<2	1.62	<0.5	152	3480	79	10.80	<10	0.19
E809787		2.70	<0.5	1.33	<5	60	<0.5	<2	1.60	<0.5	152	3470	113	10.70	<10	0.15



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Page: 5 - B

Total # Pages: 5 (A - C)

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Account: MGMAM

Project: Beaver Lake

## CERTIFICATE OF ANALYSIS TB07105236

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	
	Analyte	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl
Units		ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
LOR		10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10
E809771		10	17.55	1455	<1	0.25	1290	390	4	0.23	<5	10	191	<20	0.40	<10
E809772		10	17.55	1455	<1	0.19	1285	370	5	0.18	<5	10	153	<20	0.41	<10
E809773		10	16.95	1415	<1	0.18	1250	380	3	0.19	<5	10	167	<20	0.41	<10
E809774		10	17.40	1395	<1	0.15	1240	360	9	0.13	<5	9	137	<20	0.38	<10
E809775		10	16.70	1355	<1	0.18	1205	360	5	0.10	<5	9	144	<20	0.37	<10
E809776		10	18.05	1445	<1	0.23	1305	350	<2	0.06	8	10	144	<20	0.39	<10
E809777		10	17.60	1415	<1	0.23	1295	370	3	0.12	<5	9	158	<20	0.38	<10
E809778		10	18.00	1465	<1	0.24	1280	350	<2	0.19	<5	10	184	<20	0.39	10
E809779		10	17.40	1410	<1	0.25	1280	370	<2	0.10	<5	9	165	<20	0.38	<10
E809780		10	17.00	1380	<1	0.24	1220	390	<2	0.12	<5	9	167	<20	0.37	<10
E809781		10	19.30	1565	<1	0.25	1405	390	9	0.15	<5	10	180	<20	0.41	<10
E809782		10	19.00	1565	<1	0.24	1420	390	14	0.31	<5	10	190	<20	0.39	<10
E809783		10	17.15	1415	<1	0.24	1290	300	5	0.38	<5	9	211	<20	0.35	<10
E809784		10	18.45	1500	<1	0.25	1375	340	7	0.32	<5	9	162	<20	0.38	<10
E809785		10	18.95	1515	<1	0.24	1390	370	6	0.13	<5	9	159	<20	0.38	<10
E809786		10	19.15	1560	<1	0.21	1405	340	<2	0.09	<5	10	156	<20	0.38	<10
E809787		10	18.95	1510	<1	0.21	1410	380	8	0.15	<5	9	168	<20	0.37	<10



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Page: 5 - C  
 Total # Pages: 5 (A - C)  
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**CERTIFICATE OF ANALYSIS TB07105236**

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	PGM-MS24	PGM-MS24	PGM-MS24	PGM-ICP27	PGM-ICP27	PGM-ICP27
	Analyte	U	V	W	Zn	Au	Pt	Pd	Au	Pt	Pd
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		1	10	2	0.001	0.0005	0.001	0.03	0.03	0.03	
E809771		<10	89	10	100	0.008	0.0943	0.083			
E809772		<10	91	10	104	0.005	0.0761	0.070			
E809773		<10	92	10	103	0.008	0.121	0.111			
E809774		<10	85	<10	95	0.003	0.0408	0.036			
E809775		<10	87	<10	93	0.004	0.0488	0.043			
E809776		<10	90	<10	109	0.004	0.0552	0.049			
E809777		<10	88	10	99	0.006	0.0747	0.073			
E809778		<10	88	<10	102	0.003	0.0512	0.042			
E809779		<10	85	<10	99	0.004	0.0512	0.042			
E809780		<10	81	<10	98	0.004	0.0595	0.055			
E809781		<10	91	<10	113	0.005	0.0611	0.056			
E809782		<10	90	10	133	0.005	0.0597	0.055			
E809783		<10	84	<10	138	0.006	0.0736	0.068			
E809784		<10	88	<10	107	0.005	0.0635	0.056			
E809785		<10	89	10	111	0.003	0.0350	0.030			
E809786		<10	89	10	121	0.003	0.0376	0.031			
E809787		<10	88	<10	113	0.003	0.0397	0.034			



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Page: 1  
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## CERTIFICATE TB07107594

Project: Beaver Lake  
P.O. No.:  
This report is for 186 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 24-SEP-2007.

The following have access to data associated with this certificate:

JUSTIN JOHNSON GRAHAM WILSON	ALLAN MAC TAVISH	KEITH WATKINS
---------------------------------	------------------	---------------

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
PGM-MS24	Pt, Pd and Au 50g FA ICP-MS	ICP-MS
PGM-ICP27	Ore grade Pt, Pd and Au by ICP	ICP-AES
ME-ICP61	33 element four acid ICP-AES	ICP-AES

To: MAGMA METALS (CANADA) LIMITED  
ATTN: ALLAN MAC TAVISH  
P.O. BOX 10628  
THUNDER BAY ON P7B 6V1

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Lawrence Ng, Laboratory Manager - Vancouver



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Page: 2 - A  
 Total # Pages: 6 (A - C)  
 Finalized Date: 23-NOV-2007  
 Account: MGMAM

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## CERTIFICATE OF ANALYSIS TB07107594

Sample Description	Method	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%
LOR		0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01
E809788		2.42	0.5	1.26	<5	70	<0.5	<2	1.54	<0.5	143	3070	197	9.56	<10	0.14
E809789		2.74	<0.5	1.34	<5	70	<0.5	<2	1.66	<0.5	155	3340	182	10.45	<10	0.18
E809790		0.08	5.9	3.47	<5	170	0.8	<2	3.63	0.5	127	1850	7160	10.40	10	0.33
E809791		2.72	<0.5	1.25	<5	50	<0.5	<2	1.53	<0.5	145	3140	166	10.20	<10	0.15
E809792		2.52	<0.5	1.36	29	70	<0.5	<2	1.67	<0.5	153	3250	349	10.60	<10	0.13
E809793		2.77	<0.5	1.24	<5	60	<0.5	<2	1.51	<0.5	145	3250	79	10.30	<10	0.14
E809794		2.76	<0.5	1.23	6	60	<0.5	<2	1.47	<0.5	145	3020	102	10.15	<10	0.14
E809795		2.72	<0.5	1.28	6	60	<0.5	<2	1.60	<0.5	139	3100	80	10.70	<10	0.17
E809796		2.79	<0.5	1.25	<5	60	<0.5	<2	1.52	<0.5	140	3170	198	10.80	<10	0.17
E809797		2.64	<0.5	1.17	11	60	<0.5	<2	1.48	<0.5	136	2970	107	10.40	<10	0.14
E809798		2.73	<0.5	1.21	9	70	<0.5	<2	1.52	<0.5	139	2900	293	10.85	<10	0.15
E809799		2.96	<0.5	1.23	<5	60	<0.5	<2	1.54	<0.5	146	3420	87	11.15	<10	0.15
E809800		2.75	0.5	1.22	<5	50	<0.5	<2	1.49	<0.5	148	3540	98	11.10	<10	0.16
E809801		2.66	0.6	1.13	<5	50	<0.5	<2	1.39	<0.5	143	3440	177	10.65	<10	0.16
E809802		2.75	<0.5	1.12	<5	50	<0.5	<2	1.38	<0.5	143	3390	197	10.60	<10	0.14
E809803		2.84	<0.5	1.14	15	60	<0.5	<2	1.48	<0.5	146	3550	206	10.90	<10	0.14
E809804		2.73	<0.5	1.16	16	60	<0.5	<2	1.44	<0.5	152	3330	622	11.10	<10	0.15
E809805		2.79	<0.5	1.14	7	50	<0.5	<2	1.40	<0.5	147	3050	499	10.75	<10	0.16
E809806		2.58	<0.5	1.09	7	50	<0.5	<2	1.33	<0.5	138	2950	133	10.10	<10	0.15
E809807		2.54	<0.5	1.16	<5	50	<0.5	<2	1.42	<0.5	143	3050	208	10.50	<10	0.17
E809808		2.63	<0.5	1.14	10	50	<0.5	<2	1.38	<0.5	141	2930	73	10.30	<10	0.16
E809809		2.83	<0.5	1.19	8	60	<0.5	<2	1.41	<0.5	144	3080	167	10.70	<10	0.16
E809810		0.08	<0.5	7.72	<5	860	0.9	<2	1.98	<0.5	1	24	2	1.20	20	1.04
E809811		2.87	<0.5	1.20	<5	50	<0.5	<2	1.46	<0.5	141	3060	211	10.55	<10	0.16
E809812		2.66	0.5	1.10	6	50	<0.5	<2	1.33	<0.5	136	3040	452	9.98	<10	0.14
E809813		2.71	<0.5	1.07	<5	50	<0.5	2	1.30	<0.5	131	2860	175	9.70	<10	0.13
E809814		2.47	<0.5	1.14	6	50	<0.5	<2	1.38	<0.5	139	3180	110	10.25	<10	0.16
E809815		2.70	<0.5	1.19	7	50	<0.5	2	1.46	<0.5	141	3230	385	10.55	<10	0.17
E809816		2.64	<0.5	1.20	<5	50	<0.5	<2	1.44	<0.5	144	3240	198	10.60	<10	0.16
E809817		2.67	<0.5	1.21	<5	70	<0.5	<2	1.45	<0.5	142	3180	437	10.55	<10	0.17
E809818		2.70	<0.5	1.20	<5	50	<0.5	<2	1.43	<0.5	142	3270	217	10.45	<10	0.18
E809819		2.73	<0.5	1.18	<5	50	<0.5	<2	1.41	<0.5	138	3370	113	10.40	<10	0.17
E809820		2.82	<0.5	1.21	<5	40	<0.5	<2	1.45	<0.5	144	3400	393	10.65	<10	0.18
E809821		2.63	0.8	1.21	16	50	<0.5	<2	1.46	<0.5	146	3580	142	10.75	<10	0.18
E809822		2.76	<0.5	1.20	<5	80	<0.5	<2	1.46	<0.5	142	3330	231	10.50	<10	0.18
E809823		2.78	<0.5	1.17	<5	50	<0.5	<2	1.42	<0.5	144	3370	191	10.45	<10	0.17
E809824		2.52	0.6	1.21	<5	50	<0.5	<2	1.47	<0.5	151	3390	730	10.70	<10	0.18
E809825		1.97	<0.5	1.28	12	90	<0.5	<2	1.58	<0.5	153	3530	539	10.95	<10	0.19
E809826		2.13	<0.5	1.24	<5	60	<0.5	<2	1.50	<0.5	146	3480	412	10.45	<10	0.19
E809827		2.12	<0.5	1.30	<5	60	<0.5	<2	1.56	<0.5	152	3760	234	10.80	<10	0.21

Comments: NSS is non-sufficient sample.



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Page: 2 - B  
 Total # Pages: 6 (A - C)  
 Finalized Date: 23-NOV-2007  
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**CERTIFICATE OF ANALYSIS TB07107594**

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	
	Analyte	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Ti
	Units	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
LOR		10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10
E809788		10	17.80	1315	<1	0.16	1300	330	3	0.27	<5	9	162	<20	0.33	10
E809789		10	19.45	1435	<1	0.19	1380	360	<2	0.23	<5	9	159	<20	0.36	<10
E809790		20	12.55	1290	1	0.83	1590	1090	28	1.01	<5	17	343	<20	0.78	<10
E809791		10	18.95	1405	<1	0.17	1340	320	<2	0.15	<5	9	146	<20	0.33	<10
E809792		10	19.55	1460	<1	0.19	1430	370	<2	0.53	<5	10	203	<20	0.34	<10
E809793		10	18.95	1420	<1	0.22	1310	310	<2	0.11	<5	9	145	<20	0.32	<10
E809794		10	18.85	1410	1	0.20	1300	310	3	0.16	<5	9	150	<20	0.31	<10
E809795		10	19.20	1450	<1	0.23	1315	310	<2	0.18	8	9	155	<20	0.33	<10
E809796		10	19.30	1445	<1	0.24	1350	300	2	0.13	5	9	143	<20	0.33	<10
E809797		10	18.65	1405	<1	0.20	1295	280	<2	0.46	<5	8	138	<20	0.30	<10
E809798		10	19.45	1470	<1	0.22	1435	290	4	0.48	<5	9	143	<20	0.30	<10
E809799		10	19.90	1500	<1	0.23	1425	300	<2	0.21	6	9	144	<20	0.31	<10
E809800		10	20.0	1490	<1	0.20	1430	300	<2	0.11	<5	9	137	<20	0.31	<10
E809801		10	19.05	1420	<1	0.18	1375	270	<2	0.12	5	8	127	<20	0.29	<10
E809802		10	19.10	1415	<1	0.20	1375	280	<2	0.16	<5	8	126	<20	0.29	<10
E809803		10	19.55	1470	<1	0.21	1400	280	<2	0.79	<5	8	146	<20	0.28	<10
E809804		10	19.90	1480	<1	0.22	1530	290	3	0.61	<5	8	136	<20	0.29	<10
E809805		10	19.45	1440	<1	0.20	1465	280	<2	0.40	7	8	133	<20	0.29	<10
E809806		10	18.25	1350	<1	0.17	1265	280	<2	0.32	<5	8	124	<20	0.28	<10
E809807		10	19.15	1410	<1	0.17	1340	290	<2	0.36	<5	8	134	<20	0.29	<10
E809808		10	18.95	1385	<1	0.17	1270	280	<2	0.20	5	8	131	<20	0.29	10
E809809		10	19.60	1440	<1	0.19	1350	300	<2	0.22	7	8	137	<20	0.30	<10
E809810		10	0.23	668	<1	3.26	5	160	10	<0.01	<5	1	751	<20	0.07	<10
E809811		10	19.50	1420	<1	0.19	1345	300	<2	0.22	<5	8	137	<20	0.30	<10
E809812		10	18.25	1330	1	0.16	1360	280	3	0.22	<5	8	126	<20	0.28	<10
E809813		10	17.95	1300	<1	0.17	1245	260	<2	0.13	<5	8	122	<20	0.28	10
E809814		10	18.90	1375	<1	0.17	1325	280	<2	0.17	<5	8	130	<20	0.30	10
E809815		10	19.40	1410	<1	0.17	1430	300	<2	0.35	5	8	140	<20	0.31	<10
E809816		10	19.65	1425	<1	0.17	1370	300	<2	0.13	8	8	137	<20	0.30	<10
E809817		10	19.50	1410	<1	0.19	1460	300	2	0.40	6	8	143	<20	0.30	10
E809818		10	19.45	1400	<1	0.19	1400	290	<2	0.11	<5	8	136	<20	0.30	<10
E809819		10	19.25	1390	<1	0.19	1335	280	<2	0.25	<5	8	133	<20	0.29	<10
E809820		10	19.65	1420	<1	0.20	1485	300	3	0.21	6	8	135	<20	0.29	<10
E809821		10	19.95	1440	<1	0.17	1415	290	2	0.33	7	9	136	<20	0.31	<10
E809822		10	19.50	1405	<1	0.17	1415	300	4	0.44	5	8	137	<20	0.29	<10
E809823		10	19.50	1395	1	0.16	1380	280	3	0.20	8	8	131	<20	0.29	<10
E809824		10	19.95	1415	<1	0.17	1620	290	<2	0.31	<5	9	136	<20	0.31	<10
E809825		10	20.6	1450	<1	0.17	1615	310	2	0.46	6	9	145	<20	0.32	<10
E809826		10	19.80	1385	<1	0.15	1515	300	<2	0.16	10	9	139	<20	0.31	<10
E809827		10	20.6	1435	1	0.15	1525	320	4	0.11	7	9	147	<20	0.33	<10

Comments: NSS is non-sufficient sample.





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 ALS Canada Ltd

212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1  
 Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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Page: 2 - C  
 Total # Pages: 6 (A - C)  
 Finalized Date: 23-NOV-2007  
 Account: MGMAM

Project: Beaver Lake

**CERTIFICATE OF ANALYSIS TB07107594**

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	PGM-MS24	PGM-MS24	PGM-MS24	PGM-ICP27	PGM-ICP27	PGM-ICP27
	Analyte	U	V	W	Zn	Au	Pt	Pd	Au	Pt	Pd
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		1	10	2	0.001	0.0005	0.001	0.03	0.03	0.03	
E809788		<10	78	<10	100	0.008	0.101	0.097			
E809789		<10	85	<10	108	0.006	0.0787	0.072			
E809790		<10	165	<10	103	0.262	>1.00	>1.00	0.26	2.76	2.58
E809791		<10	79	<10	100	0.006	0.0687	0.064			
E809792		<10	83	<10	106	0.014	0.161	0.160			
E809793		<10	79	<10	100	0.005	0.0384	0.030			
E809794		<10	77	<10	102	0.005	0.0617	0.052			
E809795		<10	81	<10	105	0.003	0.0351	0.028			
E809796		<10	82	<10	103	0.007	0.0810	0.074			
E809797		<10	75	<10	100	0.004	0.0623	0.055			
E809798		<10	77	<10	106	0.010	0.113	0.107			
E809799		<10	82	<10	106	0.003	0.0393	0.033			
E809800		<10	79	<10	106	0.004	0.0432	0.042			
E809801		<10	78	<10	100	0.006	0.0985	0.085			
E809802		<10	75	<10	100	0.007	0.103	0.090			
E809803		<10	77	<10	103	0.007	0.101	0.091			
E809804		<10	78	<10	104	0.018	0.252	0.234			
E809805		<10	75	<10	103	0.017	0.203	0.186			
E809806		<10	71	10	96	0.006	0.0714	0.061			
E809807		<10	74	<10	99	0.009	0.0959	0.089			
E809808		<10	70	<10	94	0.003	0.0365	0.030			
E809809		<10	75	<10	101	0.006	0.0614	0.056			
E809810		10	7	<10	75	0.003	0.0013	0.001			
E809811		<10	76	<10	99	0.007	0.0778	0.079			
E809812		<10	71	<10	94	0.014	0.173	0.168			
E809813		<10	68	<10	90	0.009	0.0967	0.082			
E809814		<10	73	<10	95	0.006	0.0580	0.049			
E809815		<10	76	<10	99	0.014	0.147	0.140			
E809816		<10	77	<10	99	0.008	0.0910	0.089			
E809817		<10	77	<10	98	0.014	0.164	0.158			
E809818		<10	77	<10	99	0.009	0.100	0.093			
E809819		<10	76	<10	101	0.008	0.0478	0.041			
E809820		<10	78	<10	100	0.015	0.161	0.150			
E809821		<10	78	<10	101	0.005	0.0496	0.041			
E809822		<10	77	<10	102	0.008	0.102	0.090			
E809823		<10	77	<10	98	0.007	0.0744	0.070			
E809824		<10	79	<10	99	0.021	0.278	0.261			
E809825		<10	83	<10	100	0.016	0.201	0.185			
E809826		<10	80	<10	96	0.016	0.189	0.170			
E809827		<10	86	<10	100	0.009	0.127	0.113			

Comments: NSS is non-sufficient sample.



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 Phone 604 984 0221 Fax 604 984 0218 www.alschemex.com

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 P.O. BOX 10628  
 THUNDER BAY ON P7B 6V1

Page: 3 - A  
 Total # Pages: 6 (A - C)  
 Finalized Date: 23-NOV-2007  
 Account: MGMAM

Project: Beaver Lake

**CERTIFICATE OF ANALYSIS TB07107594**

Sample Description	Method	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	
LOR		0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01	
E809828		1.95	<0.5	1.32	6	50	<0.5	<2	1.58	<0.5	147	3750	313	10.60	<10	0.21	
E809829		2.07	<0.5	1.43	<5	70	<0.5	<2	1.69	<0.5	136	3310	170	9.92	<10	0.24	
E809830		0.08	6.3	3.30	<5	160	0.7	<2	3.62	1.0	111	1700	6550	10.15	<10	0.32	
E809831		2.04	<0.5	1.36	<5	60	<0.5	<2	1.68	<0.5	146	3590	122	10.60	<10	0.20	
E809832		2.11	0.6	1.34	<5	50	<0.5	<2	1.66	<0.5	144	3460	92	10.25	<10	0.20	
E809833		1.87	<0.5	1.40	<5	70	<0.5	<2	1.71	<0.5	144	3640	119	10.55	<10	0.23	
E809834		2.06	<0.5	1.45	<5	50	<0.5	<2	1.74	<0.5	148	3650	129	10.65	<10	0.25	
E809835		2.16	<0.5	1.46	<5	90	<0.5	<2	1.76	<0.5	142	3580	121	10.50	<10	0.23	
E809836		2.28	<0.5	1.46	5	90	<0.5	<2	1.79	<0.5	147	3580	181	10.85	<10	0.22	
E809837		2.09	<0.5	1.49	<5	60	<0.5	<2	1.78	<0.5	143	3800	219	10.75	<10	0.22	
E809838		1.97	<0.5	1.47	5	70	<0.5	<2	1.82	<0.5	141	4000	218	10.60	<10	0.23	
E809839		2.12	<0.5	1.54	<5	70	<0.5	<2	1.83	<0.5	143	4260	223	10.90	<10	0.22	
E809840		1.24	0.6	1.44	<5	60	<0.5	<2	1.82	<0.5	144	4490	612	11.10	<10	0.17	
E809841		1.30	<0.5	1.29	<5	50	<0.5	<2	1.73	<0.5	130	4360	162	10.10	<10	0.12	
E809842		2.15	<0.5	1.29	7	140	<0.5	<2	1.92	<0.5	130	4420	253	9.85	<10	0.11	
E809843		1.84	<0.5	1.39	<5	50	<0.5	<2	1.76	<0.5	144	4650	98	10.80	<10	0.13	
E809844		1.99	<0.5	1.36	<5	50	<0.5	<2	1.66	<0.5	140	4260	114	10.85	<10	0.14	
E809845		1.96	<0.5	1.38	5	50	<0.5	<2	1.67	<0.5	144	4170	122	11.05	<10	0.14	
E809846		1.96	<0.5	1.35	11	90	<0.5	<2	1.85	<0.5	141	3970	100	10.95	<10	0.13	
E809847		1.83	0.5	1.40	<5	70	<0.5	<2	1.71	<0.5	136	3710	157	10.50	<10	0.14	
E809848		2.07	<0.5	1.43	9	70	<0.5	<2	1.65	<0.5	137	3600	91	10.45	<10	0.15	
E809849		2.05	<0.5	1.48	<5	70	<0.5	<2	1.57	<0.5	138	3540	258	10.50	<10	0.15	
E809850		0.08	<0.5	7.64	<5	890	0.9	<2	2.04	<0.5	2	42	3	1.28	20	1.10	
E809851		1.83	<0.5	1.56	<5	70	<0.5	<2	1.53	<0.5	143	3770	104	10.75	<10	0.14	
E809852		1.83	<0.5	1.69	<5	90	<0.5	<2	1.54	<0.5	137	3560	73	10.60	<10	0.19	
E809853		1.88	<0.5	1.66	<5	80	<0.5	<2	1.55	<0.5	146	3670	121	10.25	<10	0.14	
E809854		1.97	<0.5	1.72	<5	80	<0.5	<2	1.59	<0.5	154	3940	166	10.80	<10	0.16	
E809855		2.20	<0.5	1.56	<5	70	<0.5	<2	1.62	<0.5	148	3660	175	10.90	<10	0.15	
E809856		1.96	<0.5	1.48	<5	70	<0.5	<2	1.78	<0.5	143	3430	207	10.75	<10	0.14	
E809857		2.00	<0.5	1.51	<5	70	<0.5	<2	1.85	<0.5	148	3380	104	11.00	<10	0.15	
E809858		2.03	<0.5	1.42	<5	60	<0.5	<2	1.70	<0.5	143	2910	172	10.25	<10	0.14	
E809859		2.03	<0.5	1.40	<5	70	<0.5	<2	1.72	<0.5	138	3160	113	10.50	<10	0.15	
E809860		2.69	<0.5	1.41	7	70	<0.5	<2	1.84	<0.5	139	3010	96	10.55	<10	0.13	
E809861		2.69	<0.5	1.36	<5	60	<0.5	<2	1.68	<0.5	137	3050	125	10.40	<10	0.14	
E809862		2.58	<0.5	1.45	<5	60	<0.5	<2	1.77	<0.5	141	3180	214	10.90	<10	0.16	
E809863		2.53	<0.5	1.40	<5	60	<0.5	<2	1.69	<0.5	136	3020	219	10.55	<10	0.16	
E809864		2.55	<0.5	1.35	<5	60	<0.5	<2	1.64	<0.5	133	3080	191	10.25	<10	0.14	
E809865		2.57	<0.5	1.35	7	60	<0.5	<2	1.62	<0.5	133	3000	306	10.15	<10	0.13	
E809866		2.67	<0.5	1.41	<5	70	<0.5	<2	1.69	<0.5	137	2810	151	10.30	<10	0.16	
E809867		2.31	0.5	1.47	<5	70	<0.5	<2	1.81	<0.5	145	2950	138	10.80	<10	0.14	

Comments: NSS is non-sufficient sample.



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Page: 3 - B  
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**CERTIFICATE OF ANALYSIS TB07107594**

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	
		La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	Ti ppm
E809828		10	20.3	1410	<1	0.18	1520	320	<2	0.12	6	9	147	<20	0.33	<10
E809829		10	18.95	1335	<1	0.29	1385	360	<2	0.34	<5	9	176	<20	0.33	<10
E809830		20	11.85	1230	<1	0.79	1505	1020	21	0.93	<5	16	326	<20	0.75	<10
E809831		10	20.6	1415	<1	0.22	1490	330	<2	0.12	<5	10	154	<20	0.34	<10
E809832		10	19.90	1375	1	0.20	1440	320	<2	0.20	5	9	161	<20	0.33	<10
E809833		10	20.5	1420	<1	0.21	1500	340	3	0.28	<5	10	164	<20	0.36	<10
E809834		10	20.5	1425	<1	0.23	1505	360	<2	0.21	5	10	167	<20	0.37	<10
E809835		10	20.1	1410	<1	0.24	1495	360	<2	0.37	7	10	171	<20	0.35	<10
E809836		10	20.7	1455	<1	0.27	1545	360	4	0.41	6	10	179	<20	0.35	<10
E809837		10	20.2	1435	<1	0.26	1565	360	<2	0.15	7	10	176	<20	0.36	<10
E809838		10	19.80	1410	<1	0.20	1570	360	<2	0.27	<5	10	205	<20	0.36	<10
E809839		10	20.2	1450	<1	0.29	1610	380	<2	0.13	9	10	177	<20	0.38	<10
E809840		10	20.4	1460	<1	0.21	1830	350	<2	0.18	12	10	159	<20	0.37	<10
E809841		10	18.85	1335	<1	0.13	1545	310	<2	0.13	<5	9	110	<20	0.33	<10
E809842		10	18.20	1315	<1	0.10	1515	290	6	0.54	<5	8	135	<20	0.29	<10
E809843		10	19.80	1430	<1	0.11	1585	320	<2	0.43	<5	9	160	<20	0.33	<10
E809844		10	19.90	1445	<1	0.16	1550	330	<2	0.33	5	9	176	<20	0.33	<10
E809845		10	20.1	1465	<1	0.15	1535	330	<2	0.42	12	9	173	<20	0.33	<10
E809846		10	19.95	1465	<1	0.14	1475	330	<2	0.68	5	10	190	<20	0.31	<10
E809847		10	19.05	1400	<1	0.19	1430	320	5	0.31	<5	9	165	<20	0.32	<10
E809848		10	19.20	1395	<1	0.26	1425	360	<2	0.09	<5	9	168	<20	0.34	<10
E809849		10	19.35	1400	<1	0.26	1510	380	<2	0.16	<5	9	195	<20	0.34	<10
E809850		10	0.32	704	<1	3.40	13	160	8	<0.01	<5	1	767	<20	0.07	<10
E809851		10	19.90	1435	<1	0.27	1485	380	<2	0.09	<5	8	189	<20	0.36	<10
E809852		10	19.05	1550	<1	0.36	1380	430	3	0.19	<5	8	184	<20	0.33	<10
E809853		10	20.00	1365	<1	0.30	1445	420	<2	0.08	10	8	205	<20	0.39	10
E809854		10	21.1	1435	<1	0.32	1515	440	2	0.17	<5	9	206	<20	0.39	<10
E809855		10	20.5	1455	<1	0.28	1475	370	<2	0.10	7	9	180	<20	0.37	<10
E809856		10	19.95	1440	<1	0.29	1450	370	<2	0.04	<5	9	174	<20	0.37	<10
E809857		10	20.2	1470	<1	0.29	1435	380	3	0.03	10	10	183	<20	0.38	<10
E809858		10	18.65	1380	2	0.26	1375	350	29	0.05	10	9	158	<20	0.35	<10
E809859		10	18.85	1425	<1	0.25	1390	350	11	0.09	7	9	160	<20	0.34	<10
E809860		10	18.90	1420	<1	0.20	1385	350	6	0.44	<5	9	171	<20	0.34	<10
E809861		10	18.50	1385	<1	0.23	1375	330	3	0.08	<5	9	155	<20	0.36	<10
E809862		10	19.30	1445	<1	0.26	1455	350	2	0.06	11	10	169	<20	0.38	<10
E809863		10	18.70	1400	<1	0.26	1390	350	3	0.06	6	9	159	<20	0.37	<10
E809864		10	18.10	1360	<1	0.23	1365	310	2	0.09	<5	9	156	<20	0.35	<10
E809865		10	17.95	1360	<1	0.22	1375	330	<2	0.22	6	9	160	<20	0.34	<10
E809866		10	18.30	1370	<1	0.26	1305	350	5	0.07	<5	9	163	<20	0.37	<10
E809867		10	19.50	1450	<1	0.22	1390	360	<2	0.05	<5	10	178	<20	0.39	<10

Comments: NSS is non-sufficient sample.



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 North Vancouver BC V7J 2C1  
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Page: 3 - C  
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**CERTIFICATE OF ANALYSIS TB07107594**

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	PGM-MS24	PGM-MS24	PGM-MS24	PGM-ICP27	PGM-ICP27	PGM-ICP27
		U	V	W	Zn	Au	Pt	Pd	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		10	1	10	2	0.001	0.0005	0.001	0.03	0.03	0.03
E809828		<10	85	<10	98	0.012	0.142	0.129			
E809829		<10	84	<10	95	0.009	0.105	0.092			
E809830		<10	159	<10	101	0.282	>1.00	>1.00	0.28	2.83	2.68
E809831		<10	87	<10	101	0.007	0.0827	0.068			
E809832		<10	86	<10	99	0.005	0.0660	0.057			
E809833		<10	88	<10	102	0.005	0.0625	0.054			
E809834		<10	89	<10	103	0.006	0.0770	0.061			
E809835		<10	90	<10	103	0.006	0.0683	0.062			
E809836		<10	91	<10	106	0.008	0.104	0.090			
E809837		<10	92	10	103	0.009	0.134	0.119			
E809838		<10	94	<10	103	0.008	0.114	0.100			
E809839		<10	98	<10	106	0.009	0.115	0.101			
E809840		<10	97	10	108	0.020	0.265	0.225			
E809841		<10	90	<10	99	0.008	0.0835	0.072			
E809842		<10	87	<10	104	0.012	0.141	0.125			
E809843		<10	92	<10	109	0.005	0.0563	0.042			
E809844		<10	91	10	106	0.005	0.0550	0.040			
E809845		<10	91	<10	106	0.006	0.0754	0.059			
E809846		<10	90	<10	107	0.004	0.0412	0.033			
E809847		<10	85	<10	99	0.008	0.101	0.083			
E809848		<10	80	<10	99	0.005	0.0521	0.041			
E809849		<10	77	<10	99	0.013	0.154	0.135			
E809850		10	8	<10	78	0.005	0.0009	0.001			
E809851		<10	81	<10	101	0.006	0.0611	0.051			
E809852		<10	80	<10	111	0.004	0.0502	0.041			
E809853		<10	84	<10	96	0.007	0.0661	0.056			
E809854		<10	91	<10	104	0.007	0.0640	0.053			
E809855		<10	85	<10	102	0.007	0.0852	0.070			
E809856		<10	81	<10	104	0.009	0.0966	0.091			
E809857		<10	82	<10	105	0.005	0.0558	0.049			
E809858		<10	78	<10	110	0.007	0.0792	0.072			
E809859		<10	89	10	107	0.005	0.0535	0.047			
E809860		<10	88	<10	105	0.005	0.0583	0.047			
E809861		<10	87	<10	102	0.006	0.0625	0.051			
E809862		<10	92	<10	107	0.008	0.102	0.088			
E809863		<10	86	<10	99	0.008	0.0992	0.085			
E809864		<10	85	<10	98	0.009	0.119	0.103			
E809865		<10	84	<10	96	0.013	0.170	0.145			
E809866		<10	82	<10	98	0.008	0.0907	0.073			
E809867		<10	88	<10	103	0.007	0.0730	0.058			

Comments: NSS is non-sufficient sample.



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 ALS Canada Ltd.

212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1  
 Phone 604 984 0221 Fax 604 984 0218 www.alschemex.com

To: MAGMA METALS (CANADA) LIMITED  
 P.O. BOX 10628  
 THUNDER BAY ON P7B 6V1

Page: 4 - A  
 Total # Pages: 6 (A - C)  
 Finalized Date: 23-NOV-2007  
 Account: MGMAM

Project: Beaver Lake

**CERTIFICATE OF ANALYSIS TB07107594**

Sample Description	Method	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%
LOR		0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01
E809868		2.57	<0.5	1.52	<5	70	<0.5	<2	1.79	<0.5	143	2810	173	10.75	<10	0.14
E809869		2.58	<0.5	1.45	<5	70	<0.5	<2	1.76	<0.5	144	2970	230	10.80	<10	0.13
E809870		0.08	5.5	3.61	<5	220	0.7	2	3.74	0.5	124	1770	6650	10.25	10	0.34
E809871		2.53	<0.5	1.39	<5	60	<0.5	<2	1.69	<0.5	137	2830	128	10.25	<10	0.13
E809872		2.60	<0.5	1.49	<5	460	<0.5	<2	1.78	<0.5	144	2870	151	10.75	<10	0.14
E809873		2.49	<0.5	1.41	<5	70	<0.5	<2	1.65	<0.5	132	2830	222	9.93	<10	0.14
E809874		2.55	<0.5	1.42	<5	70	<0.5	<2	1.66	<0.5	131	2570	127	9.88	<10	0.12
E809875		2.41	<0.5	1.40	<5	60	<0.5	<2	1.77	<0.5	133	2780	147	10.15	<10	0.10
E809876		2.47	<0.5	1.43	<5	70	<0.5	<2	1.72	<0.5	137	2830	189	10.05	<10	0.10
E809877		2.35	<0.5	1.44	<5	50	<0.5	<2	1.66	<0.5	138	2940	263	10.20	<10	0.10
E809878		2.52	<0.5	1.51	<5	70	<0.5	<2	1.85	<0.5	143	2910	423	10.70	<10	0.13
E809879		2.40	<0.5	1.48	<5	140	<0.5	<2	1.69	<0.5	136	2870	190	10.20	<10	0.13
E809880		2.52	<0.5	1.52	11	70	<0.5	<2	1.88	<0.5	141	3050	182	10.65	<10	0.13
E809881		2.23	0.7	1.42	<5	70	<0.5	<2	1.83	<0.5	132	3050	224	10.05	<10	0.12
E809882		2.16	<0.5	1.48	<5	60	<0.5	<2	1.78	<0.5	140	3070	318	10.50	<10	0.12
E809883		1.99	<0.5	1.38	<5	70	<0.5	<2	1.75	<0.5	126	2860	118	9.49	<10	0.10
E809884		2.52	<0.5	1.47	<5	60	<0.5	<2	1.69	<0.5	130	2840	90	9.68	<10	0.11
E809885		2.41	<0.5	1.58	<5	90	<0.5	<2	1.94	<0.5	139	3290	153	10.65	<10	0.12
E809886		2.43	<0.5	1.44	<5	60	<0.5	<2	1.72	<0.5	127	3100	98	9.62	<10	0.11
E809887		2.46	<0.5	1.57	<5	70	<0.5	<2	1.89	<0.5	136	3350	136	10.45	<10	0.13
E809888		2.57	<0.5	1.64	<5	70	<0.5	<2	1.84	<0.5	138	3410	113	10.45	<10	0.15
E809889		2.41	<0.5	1.60	<5	130	<0.5	<2	1.92	<0.5	138	3520	135	10.65	<10	0.15
E809890		0.08	<0.5	8.17	6	930	0.9	<2	2.14	<0.5	<1	24	2	1.29	20	1.16
E809891		2.53	<0.5	1.54	<5	80	<0.5	2	1.78	<0.5	137	3430	175	10.30	<10	0.15
E809892		2.51	<0.5	1.60	<5	90	<0.5	<2	1.91	<0.5	133	3430	145	10.35	<10	0.12
E809893		2.81	<0.5	1.43	<5	80	<0.5	<2	1.66	<0.5	127	3270	147	9.44	<10	0.12
E809894		2.63	<0.5	1.54	<5	70	<0.5	<2	1.98	<0.5	137	3590	113	9.77	<10	0.12
E809895		2.46	<0.5	1.66	<5	60	<0.5	<2	1.89	<0.5	146	3790	279	10.20	<10	0.12
E809896		2.44	<0.5	1.62	<5	60	<0.5	<2	1.91	<0.5	139	3640	375	9.80	<10	0.11
E809897		2.49	<0.5	1.66	11	60	<0.5	<2	2.03	<0.5	141	3770	294	10.05	<10	0.12
E809898		2.22	<0.5	1.59	9	70	<0.5	<2	1.98	<0.5	135	3540	260	9.64	<10	0.13
E809899		1.66	<0.5	1.57	<5	60	<0.5	<2	1.78	<0.5	135	3620	166	9.41	<10	0.12
E809900		2.11	<0.5	1.56	<5	70	<0.5	<2	1.78	<0.5	131	3730	83	9.25	<10	0.12
E809901		2.14	<0.5	1.58	<5	70	<0.5	<2	1.81	<0.5	126	3610	100	9.07	<10	0.12
E809902		2.00	<0.5	1.66	<5	70	<0.5	<2	1.88	<0.5	137	3920	228	9.63	<10	0.12
E809903		2.09	<0.5	1.71	9	70	<0.5	<2	2.01	<0.5	139	4230	155	10.00	<10	0.12
E809904		2.11	<0.5	1.73	<5	70	<0.5	<2	2.01	<0.5	145	4210	153	10.30	<10	0.12
E809905		2.49	<0.5	1.69	<5	70	<0.5	<2	2.01	<0.5	140	4080	198	10.10	<10	0.12
E809906		2.29	<0.5	1.69	5	60	<0.5	<2	2.11	<0.5	146	4170	148	10.25	<10	0.11
E809907		2.15	<0.5	1.62	<5	140	<0.5	<2	2.34	<0.5	142	3610	354	10.05	<10	0.09

Comments: NSS is non-sufficient sample.



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Page: 4 - B  
 Total # Pages: 6 (A - C)  
 Finalized Date: 23-NOV-2007  
 Account: MGMAM

Project: Beaver Lake

**CERTIFICATE OF ANALYSIS TB07107594**

Sample Description	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	Tl ppm
Method Analyte Units LOR	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10
E809868	10	19.30	1500	<1	0.21	1370	370	63	0.16	9	10	177	<20	0.40	10
E809869	10	19.45	1435	<1	0.23	1380	350	2	0.08	<5	10	172	<20	0.37	<10
E809870	20	12.35	1305	<1	0.88	1600	1080	18	0.84	7	17	353	<20	0.81	<10
E809871	10	18.55	1365	<1	0.23	1300	330	2	0.04	<5	9	163	<20	0.37	<10
E809872	10	19.55	1435	<1	0.22	1360	360	<2	0.06	6	10	174	<20	0.40	<10
E809873	10	17.90	1340	<1	0.19	1300	330	<2	0.05	6	9	164	<20	0.38	<10
E809874	10	17.90	1315	<1	0.20	1270	340	<2	0.04	<5	9	174	<20	0.36	10
E809875	10	18.40	1350	<1	0.17	1335	340	<2	0.08	7	9	169	<20	0.37	<10
E809876	10	18.35	1335	<1	0.16	1340	350	<2	0.10	<5	9	174	<20	0.37	<10
E809877	10	18.55	1345	<1	0.12	1400	340	2	0.16	6	9	144	<20	0.36	<10
E809878	10	19.55	1420	<1	0.21	1500	400	<2	0.13	5	10	176	<20	0.40	<10
E809879	10	18.55	1355	<1	0.18	1390	380	<2	0.10	6	9	185	<20	0.40	<10
E809880	10	19.45	1415	<1	0.20	1450	370	<2	0.23	6	10	180	<20	0.39	<10
E809881	10	18.40	1380	<1	0.17	1385	360	<2	0.25	<5	9	151	<20	0.36	10
E809882	10	19.30	1395	<1	0.22	1485	350	<2	0.17	<5	10	185	<20	0.38	<10
E809883	10	17.50	1265	<1	0.19	1305	330	<2	0.31	7	9	174	<20	0.34	<10
E809884	10	17.85	1290	<1	0.22	1330	310	2	0.08	<5	9	187	<20	0.36	<10
E809885	10	19.65	1455	<1	0.22	1450	370	2	0.36	6	10	215	<20	0.39	<10
E809886	10	17.85	1285	<1	0.21	1330	330	2	0.22	5	9	188	<20	0.36	<10
E809887	10	19.30	1385	<1	0.20	1440	390	<2	0.17	<5	10	199	<20	0.40	<10
E809888	10	19.35	1390	<1	0.23	1470	370	<2	0.05	<5	10	192	<20	0.42	<10
E809889	10	19.75	1420	<1	0.21	1495	380	<2	0.06	5	10	187	<20	0.42	<10
E809890	10	0.24	722	<1	3.56	6	180	7	<0.01	<5	1	810	<20	0.07	<10
E809891	10	19.20	1375	<1	0.19	1480	360	2	0.07	6	10	178	<20	0.41	<10
E809892	10	19.05	1380	<1	0.23	1455	390	<2	0.21	<5	10	209	<20	0.39	<10
E809893	10	17.45	1245	<1	0.25	1365	330	2	0.11	<5	9	174	<20	0.36	<10
E809894	10	19.00	1360	<1	0.33	1440	320	<2	0.06	<5	9	221	<20	0.36	<10
E809895	10	19.80	1420	<1	0.33	1610	310	<2	0.09	<5	9	207	<20	0.38	<10
E809896	10	19.00	1360	<1	0.26	1560	410	4	0.15	<5	9	194	<20	0.36	<10
E809897	10	19.40	1400	<1	0.24	1550	380	2	0.34	<5	9	226	<20	0.36	<10
E809898	10	18.70	1390	<1	0.22	1480	370	<2	0.30	<5	9	215	<20	0.38	<10
E809899	10	18.40	1310	<1	0.23	1460	360	<2	0.11	<5	9	172	<20	0.38	<10
E809900	10	18.15	1290	<1	0.25	1410	350	<2	0.06	<5	9	191	<20	0.39	<10
E809901	10	17.75	1280	<1	0.26	1400	410	<2	0.08	<5	9	197	<20	0.38	<10
E809902	10	18.80	1350	<1	0.27	1550	380	2	0.08	<5	9	208	<20	0.40	<10
E809903	10	19.50	1400	<1	0.30	1580	360	<2	0.20	<5	10	227	<20	0.39	<10
E809904	10	19.95	1430	<1	0.31	1630	420	<2	0.09	<5	10	214	<20	0.41	<10
E809905	10	19.50	1400	<1	0.29	1590	380	<2	0.13	<5	10	225	<20	0.41	<10
E809906	10	19.70	1410	<1	0.29	1590	350	<2	0.16	<5	10	214	<20	0.41	<10
E809907	10	19.10	1460	<1	0.13	1630	380	<2	0.29	<5	10	173	<20	0.40	<10

Comments: NSS is non-sufficient sample.



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Page: 4 - C  
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Project: Beaver Lake

**CERTIFICATE OF ANALYSIS TB07107594**

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	PGM-MS24	PGM-MS24	PGM-MS24	PGM-ICP27	PGM-ICP27	PGM-ICP27
	Analyte	U	V	W	Zn	Au	Pt	Pd	Au	Pt	Pd
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR	10	1	10	2	0.001	0.0005	0.001	0.03	0.03	0.03	
E809868		<10	90	<10	169	0.009	0.104	0.090			
E809869		<10	88	<10	102	0.010	0.113	0.098			
E809870		<10	174	<10	110	0.279	>1.00	>1.00	0.28	2.92	2.70
E809871		<10	84	<10	98	0.007	0.0651	0.054			
E809872		<10	90	<10	102	0.007	0.0839	0.069			
E809873		<10	82	<10	94	0.010	0.108	0.098			
E809874		<10	81	<10	93	0.007	0.0742	0.067			
E809875		<10	85	<10	97	0.007	0.0739	0.063			
E809876		<10	84	<10	95	0.008	0.0921	0.080			
E809877		<10	85	<10	96	0.010	0.112	0.094			
E809878		<10	89	<10	101	0.015	0.177	0.156			
E809879		<10	88	<10	96	0.009	0.101	0.089			
E809880		<10	92	<10	107	0.007	0.0766	0.069			
E809881		<10	87	<10	98	0.009	0.117	0.104			
E809882		<10	90	10	101	0.010	0.125	0.111			
E809883		<10	82	<10	90	0.006	0.0699	0.062			
E809884		<10	85	<10	92	0.005	0.0479	0.036			
E809885		<10	92	<10	102	0.006	0.0560	0.046			
E809886		<10	83	<10	92	0.005	0.0530	0.042			
E809887		<10	92	<10	101	0.006	0.0667	0.055			
E809888		<10	92	<10	100	0.006	0.0555	0.044			
E809889		<10	93	<10	101	0.006	0.0553	0.044			
E809890		10	8	<10	83	0.004	<0.0005	<0.001			
E809891		<10	92	<10	97	0.009	0.106	0.089			
E809892		<10	92	<10	99	0.005	0.0695	0.058			
E809893		<10	82	<10	90	0.006	0.0830	0.072			
E809894		<10	88	<10	94	0.004	0.0479	0.037			
E809895		<10	93	<10	98	0.009	0.120	0.104			
E809896		<10	91	<10	94	0.013	0.179	0.155			
E809897		<10	94	<10	97	0.008	0.0981	0.083			
E809898		<10	90	<10	93	0.010	0.111	0.098			
E809899		<10	90	<10	92	0.007	0.0803	0.065			
E809900		<10	93	<10	90	0.006	0.0447	0.038			
E809901		<10	89	<10	88	0.005	0.0677	0.055			
E809902		<10	95	<10	96	0.007	0.0859	0.072			
E809903		<10	99	<10	98	0.006	0.0661	0.053			
E809904		<10	103	<10	102	0.006	0.0735	0.062			
E809905		<10	102	<10	99	0.009	0.0826	0.071			
E809906		<10	102	<10	102	0.007	0.0657	0.053			
E809907		<10	98	<10	100	0.015	0.210	0.192			

Comments: NSS is non-sufficient sample.



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Sample Description	Method Analyte Units LOR	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	
		Recvd Wt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K
		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%
		0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01
E809908		2.18	<0.5	1.61	<5	60	<0.5	<2	1.90	<0.5	146	3310	716	10.05	<10	0.11
E809909		2.37	<0.5	1.72	<5	60	<0.5	<2	1.99	<0.5	147	3680	769	10.30	<10	0.13
E809910		0.08	6.2	3.41	<5	170	0.6	<2	3.67	0.6	119	1830	6770	10.15	10	0.33
E809911		1.94	<0.5	1.77	<5	70	<0.5	<2	2.06	<0.5	140	3500	613	10.00	<10	0.14
E809912		2.11	<0.5	1.85	<5	60	<0.5	<2	2.25	<0.5	154	3560	959	10.60	<10	0.13
E809913		1.93	0.8	1.60	<5	60	<0.5	<2	2.12	<0.5	155	3060	2000	10.10	<10	0.11
E809914		2.24	0.9	1.74	12	60	<0.5	<2	2.43	<0.5	163	3080	2270	10.75	<10	0.14
E809915		2.20	<0.5	1.91	5	90	<0.5	<2	2.49	<0.5	149	3070	771	10.30	<10	0.16
E809916		2.11	<0.5	1.92	<5	60	<0.5	<2	2.27	<0.5	149	3300	1410	10.20	<10	0.15
E809917		2.29	<0.5	1.85	<5	100	<0.5	<2	2.52	<0.5	140	3220	441	9.91	<10	0.11
E809918		1.04	<0.5	1.48	13	210	<0.5	<2	2.63	<0.5	111	2340	415	8.54	<10	0.08
E809919		1.17	<0.5	1.79	21	30	<0.5	<2	2.70	<0.5	134	3160	450	9.94	<10	0.11
E809920		2.08	<0.5	1.79	<5	30	<0.5	<2	2.44	<0.5	136	3420	333	9.88	<10	0.11
E809921		2.32	<0.5	1.83	<5	40	<0.5	<2	2.49	<0.5	137	3630	221	10.15	<10	0.11
E809922		2.08	<0.5	1.91	<5	40	<0.5	<2	2.40	<0.5	142	3610	457	10.25	<10	0.12
E809923		1.97	<0.5	1.95	6	40	<0.5	<2	3.05	<0.5	140	3630	322	10.30	<10	0.13
E809924		2.09	<0.5	1.89	<5	90	<0.5	<2	2.62	<0.5	134	3320	267	9.90	<10	0.12
E809925		2.11	<0.5	1.89	<5	50	<0.5	<2	3.12	<0.5	135	3370	252	9.96	<10	0.11
E809926		1.06	<0.5	1.89	10	30	<0.5	<2	3.38	<0.5	129	3210	198	9.68	10	0.11
E809927		1.04	<0.5	2.02	5	80	<0.5	<2	3.45	<0.5	127	3200	214	9.76	<10	0.07
E809928		2.41	<0.5	2.31	<5	80	<0.5	<2	2.98	<0.5	124	2860	253	9.70	<10	0.14
E809929		1.33	<0.5	2.22	<5	100	<0.5	<2	2.94	<0.5	127	3050	288	9.93	10	0.18
E809930		0.08	<0.5	7.46	<5	870	0.9	<2	1.97	<0.5	2	13	4	1.16	20	1.10
E809931		1.01	<0.5	2.11	<5	80	<0.5	<2	2.77	<0.5	120	2900	230	9.75	10	0.15
E809932		2.31	<0.5	2.30	<5	100	<0.5	<2	2.87	<0.5	130	3190	323	10.65	10	0.22
E809933		2.33	<0.5	2.20	<5	80	<0.5	<2	2.73	<0.5	121	2980	271	9.85	10	0.22
E809934		2.25	<0.5	2.41	9	90	<0.5	<2	2.99	<0.5	131	3310	205	10.55	10	0.19
E809935		2.25	<0.5	2.22	<5	80	<0.5	<2	2.67	<0.5	123	3010	320	9.98	<10	0.21
E809936		2.40	<0.5	2.30	<5	90	<0.5	<2	2.79	<0.5	123	2900	314	9.95	<10	0.21
E809937		2.21	<0.5	2.31	8	90	<0.5	<2	2.74	<0.5	118	2740	262	9.72	10	0.25
E809938		2.26	<0.5	2.46	11	100	<0.5	<2	2.92	<0.5	122	2920	193	10.00	10	0.22
E809939		2.34	<0.5	2.69	7	110	0.5	<2	3.02	<0.5	124	2970	255	10.30	10	0.26
E809940		2.40	<0.5	2.79	5	120	0.6	<2	3.12	<0.5	125	3190	265	10.50	10	0.27
E809941		2.30	<0.5	2.92	9	110	0.6	<2	3.23	<0.5	125	3270	236	10.65	10	0.32
E809942		2.34	<0.5	2.71	14	110	0.5	<2	3.19	<0.5	126	3130	225	10.50	10	0.34
E809943		2.33	<0.5	2.78	13	110	0.5	<2	3.29	<0.5	122	2890	285	10.45	10	0.33
E809944		2.15	<0.5	2.83	5	120	0.5	<2	3.20	<0.5	121	2880	246	10.25	10	0.33
E809945		2.51	<0.5	3.13	<5	110	0.6	<2	3.49	<0.5	117	2780	269	10.25	10	0.37
E809946		2.31	<0.5	2.95	<5	120	0.6	<2	3.29	<0.5	120	2860	262	10.20	<10	0.34
E809947		2.22	<0.5	2.96	7	110	0.6	<2	3.33	<0.5	115	2720	200	10.10	10	0.36

Comments: NSS is non-sufficient sample.





**ALS Chemex**  
**EXCELLENCE IN ANALYTICAL CHEMISTRY**  
 ALS Canada Ltd.

212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1  
 Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: MAGMA METALS (CANADA) LIMITED  
 P.O. BOX 10628  
 THUNDER BAY ON P7B 6V1

Page: 5 - B  
 Total # Pages: 6 (A - C)  
 Finalized Date: 23-NOV-2007  
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Project: Beaver Lake

**CERTIFICATE OF ANALYSIS TB07107594**

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	
		La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	Ti ppm
E809908		10	18.80	1370	<1	0.27	1720	380	<2	0.23	<5	9	190	<20	0.41	<10
E809909		10	18.95	1380	<1	0.22	1770	390	<2	0.22	<5	10	203	<20	0.44	<10
E809910		20	12.50	1290	<1	0.85	1550	1040	20	0.92	<5	16	344	<20	0.75	<10
E809911		10	18.25	1370	<1	0.27	1580	390	2	0.16	<5	10	205	<20	0.45	<10
E809912		10	19.15	1420	<1	0.29	1790	390	<2	0.29	<5	10	223	<20	0.44	<10
E809913		10	17.30	1290	<1	0.25	2110	360	<2	0.69	<5	9	200	<20	0.37	<10
E809914		10	18.55	1390	<1	0.22	2310	370	2	0.78	<5	10	205	<20	0.40	<10
E809915		10	19.20	1410	<1	0.25	1670	460	2	0.31	5	10	204	<20	0.48	<10
E809916		10	18.65	1380	<1	0.24	1970	440	<2	0.32	<5	9	191	<20	0.45	<10
E809917		10	18.05	1400	<1	0.16	1500	460	<2	0.22	<5	10	153	<20	0.45	<10
E809918		10	17.65	1350	<1	0.05	1180	320	2	0.26	<5	8	114	<20	0.34	<10
E809919		10	18.00	1420	<1	0.12	1470	500	3	0.61	<5	10	122	<20	0.42	<10
E809920		10	17.70	1330	<1	0.14	1460	410	3	0.35	<5	10	145	<20	0.42	<10
E809921		10	18.25	1370	<1	0.18	1410	430	<2	0.15	<5	11	159	<20	0.46	<10
E809922		10	18.20	1370	<1	0.19	1540	410	<2	0.16	<5	10	171	<20	0.45	<10
E809923		10	18.30	1440	<1	0.17	1480	420	<2	0.25	5	11	167	<20	0.48	<10
E809924		10	17.60	1290	<1	0.21	1370	410	<2	0.14	<5	11	182	<20	0.46	<10
E809925		10	17.80	1360	<1	0.18	1370	460	<2	0.17	<5	11	152	<20	0.49	<10
E809926		10	16.60	1260	<1	0.13	1310	440	<2	0.47	<5	11	133	<20	0.46	<10
E809927		10	16.80	1500	<1	0.09	1280	370	11	0.23	<5	11	88	<20	0.50	<10
E809928		10	16.25	1500	<1	0.28	1200	450	5	0.26	<5	12	202	<20	0.57	<10
E809929		10	16.55	1420	<1	0.47	1240	480	3	0.16	<5	12	260	<20	0.55	<10
E809930		10	0.19	679	1	3.42	4	180	13	<0.01	<5	1	751	<20	0.07	<10
E809931		10	15.80	1340	1	0.40	1150	460	4	0.15	<5	12	219	<20	0.54	<10
E809932		10	17.30	1400	1	0.58	1310	520	<2	0.26	6	13	294	<20	0.56	<10
E809933		10	16.00	1290	<1	0.57	1190	460	3	0.19	<5	12	299	<20	0.52	<10
E809934		10	17.00	1395	1	0.63	1220	470	2	0.13	<5	13	324	<20	0.58	<10
E809935		10	15.90	1310	1	0.61	1230	490	2	0.21	<5	12	267	<20	0.57	<10
E809936		10	15.80	1305	<1	0.61	1200	460	<2	0.22	<5	13	290	<20	0.56	<10
E809937		10	15.40	1280	1	0.58	1120	490	4	0.30	<5	12	284	<20	0.55	<10
E809938		10	15.65	1320	<1	0.66	1130	560	<2	0.12	5	13	292	<20	0.63	<10
E809939		10	16.10	1365	1	0.74	1170	600	<2	0.06	<5	14	316	<20	0.65	<10
E809940		10	16.25	1380	1	0.79	1210	560	<2	0.09	<5	14	324	<20	0.70	<10
E809941		10	16.40	1400	1	0.74	1200	560	<2	0.17	<5	14	342	<20	0.69	<10
E809942		10	16.05	1390	<1	0.62	1200	570	<2	0.34	<5	14	325	<20	0.67	<10
E809943		10	15.85	1370	<1	0.60	1170	610	<2	0.33	<5	14	329	<20	0.68	<10
E809944		10	15.50	1345	<1	0.68	1120	570	<2	0.23	<5	14	342	<20	0.69	<10
E809945		10	15.15	1355	<1	0.64	1100	650	<2	0.22	<5	15	305	<20	0.82	<10
E809946		10	15.15	1335	1	0.74	1130	640	<2	0.16	<5	14	330	<20	0.75	<10
E809947		10	14.65	1330	1	0.70	1060	610	<2	0.17	<5	15	330	<20	0.74	<10

Comments: NSS is non-sufficient sample.



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**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1  
 Phone 604 984 0221 Fax 604 984 0218 www.alschemex.com

To: MAGMA METALS (CANADA) LIMITED  
 P.O. BOX 10628  
 THUNDER BAY ON P7B 6V1

Page: 5 - C  
 Total # Pages: 6 (A - C)  
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Project: Beaver Lake

**CERTIFICATE OF ANALYSIS TB07107594**

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	PGM-MS24	PGM-MS24	PGM-MS24	PGM-ICP27	PGM-ICP27	PGM-ICP27
	Analyte	U	V	W	Zn	Au	Pt	Pd	Au	Pt	Pd
Units		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		10	1	10	2	0.001	0.0005	0.001	0.03	0.03	0.03
E809908		<10	94	<10	98	0.026	0.392	0.382			
E809909		<10	99	<10	100	0.022	0.334	0.309			
E809910		<10	164	<10	105	NSS	NSS	NSS			
E809911		<10	101	<10	99	0.019	0.248	0.228			
E809912		<10	104	<10	101	0.028	0.387	0.372			
E809913		<10	90	<10	92	0.075	>1.00	>1.00	0.10	0.92	0.86
E809914		<10	96	<10	98	0.071	0.999	>1.00	0.07	0.93	0.85
E809915		<10	98	<10	97	0.019	0.264	0.259			
E809916		<10	95	<10	105	0.035	0.508	0.486			
E809917		<10	100	<10	97	0.011	0.151	0.141			
E809918		<10	78	<10	88	0.010	0.150	0.140			
E809919		<10	103	<10	96	0.012	0.194	0.179			
E809920		<10	104	<10	95	0.010	0.142	0.131			
E809921		<10	107	<10	97	0.007	0.0916	0.082			
E809922		<10	110	<10	99	0.012	0.169	0.152			
E809923		<10	112	<10	103	0.009	0.117	0.105			
E809924		<10	109	<10	95	0.009	0.104	0.093			
E809925		<10	111	<10	95	0.007	0.0847	0.071			
E809926		<10	113	<10	88	0.007	0.0964	0.084			
E809927		<10	113	<10	139	0.006	0.0753	0.062			
E809928		<10	121	<10	109	0.008	0.0974	0.084			
E809929		<10	123	<10	90	0.008	0.0936	0.082			
E809930		20	7	<10	80	0.002	0.0010	0.001			
E809931		<10	118	<10	82	0.006	0.0833	0.071			
E809932		<10	130	<10	104	0.011	0.134	0.119			
E809933		<10	118	<10	94	0.009	0.114	0.100			
E809934		<10	134	<10	107	0.005	0.0622	0.053			
E809935		<10	126	<10	99	0.009	0.124	0.112			
E809936		<10	124	<10	98	0.009	0.115	0.105			
E809937		<10	123	<10	94	0.008	0.0907	0.082			
E809938		<10	137	<10	99	0.005	0.0661	0.057			
E809939		<10	138	<10	105	0.007	0.0767	0.068			
E809940		<10	145	<10	104	0.009	0.0993	0.089			
E809941		<10	149	<10	105	0.006	0.0704	0.057			
E809942		<10	149	<10	108	0.007	0.0888	0.076			
E809943		<10	147	<10	104	0.007	0.104	0.089			
E809944		<10	148	<10	103	0.006	0.0796	0.070			
E809945		<10	155	10	101	0.007	0.0837	0.075			
E809946		<10	152	<10	101	0.005	0.0781	0.070			
E809947		<10	156	<10	99	0.005	0.0670	0.058			

Comments: NSS is non-sufficient sample.



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**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: MAGMA METALS (CANADA) LIMITED

P.O. BOX 10628

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Page: 6 - A

Total # Pages: 6 (A - C)

Finalized Date: 23-NOV-2007

Account: MGMAM

Project: Beaver Lake

## CERTIFICATE OF ANALYSIS TB07107594

Sample Description	Method	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%
	LOR	0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01
E809948		2.28	<0.5	2.73	17	120	0.5	<2	3.33	<0.5	114	2640	306	9.84	10	0.39
E809949		2.32	<0.5	2.95	<5	110	0.5	<2	3.70	<0.5	109	2440	303	9.71	10	0.38
E809950		0.09	6.6	3.42	7	170	0.7	<2	3.76	0.9	119	1870	6870	10.40	10	0.33
E809951		2.17	<0.5	2.96	8	130	0.5	<2	3.57	<0.5	110	2500	208	10.05	10	0.42
E809952		2.38	<0.5	3.02	6	120	0.5	<2	3.41	<0.5	111	2490	286	9.86	10	0.45
E809953		2.51	<0.5	3.16	7	130	0.6	<2	3.51	<0.5	110	2480	244	10.00	10	0.42
E809954		2.44	<0.5	3.18	6	130	0.6	<2	3.55	<0.5	106	2390	257	9.68	10	0.44
E809955		2.28	<0.5	3.37	<5	140	0.7	<2	3.62	<0.5	108	2460	247	9.82	10	0.37
E809956		2.26	<0.5	3.46	10	140	0.6	<2	3.71	<0.5	100	2210	293	9.51	10	0.39
E809957		2.25	0.5	3.92	15	160	0.8	<2	3.95	<0.5	112	2230	835	10.10	10	0.46
E809958		2.30	<0.5	3.77	<5	160	0.7	<2	3.93	<0.5	99	2160	358	9.48	10	0.45
E809959		2.39	<0.5	3.97	7	170	0.8	<2	4.33	<0.5	102	2310	253	10.15	10	0.46
E809960		2.24	<0.5	4.27	<5	280	0.8	<2	4.57	<0.5	101	2210	240	10.25	10	0.49
E809961		2.24	<0.5	4.19	<5	160	0.8	<2	4.39	<0.5	91	2000	199	9.63	10	0.52
E809962		1.26	<0.5	4.60	<5	290	0.9	<2	4.47	<0.5	88	1880	184	9.66	10	0.68
E809963		1.73	<0.5	4.59	13	600	0.9	<2	4.30	<0.5	80	1710	143	9.14	10	0.74
E809964		2.46	<0.5	4.63	38	210	0.9	<2	4.26	<0.5	85	1810	176	9.48	10	0.61
E809965		2.28	<0.5	4.92	32	240	1.0	<2	3.29	<0.5	87	1590	283	9.14	10	0.77
E809966		1.88	<0.5	8.54	26	770	1.7	<2	1.30	<0.5	22	133	81	4.21	20	2.56
E809967		2.19	<0.5	8.46	15	830	1.5	<2	0.98	<0.5	17	112	33	4.19	20	2.74
E809968		2.19	<0.5	8.70	16	900	1.8	<2	0.98	<0.5	26	146	69	4.50	20	3.25
E809969		2.08	<0.5	8.16	5	490	2.4	<2	0.98	<0.5	22	142	8	4.62	20	1.90
E809970		0.08	<0.5	7.83	11	940	1.0	<2	2.03	<0.5	<1	7	2	1.25	20	1.16
E809971		0.89	<0.5	7.32	14	490	2.5	<2	0.60	<0.5	12	63	42	2.93	20	1.53
E809972		2.23	<0.5	7.69	<5	460	1.5	<2	0.63	<0.5	18	115	11	4.09	20	1.97
E809973		4.05	<0.5	8.31	8	650	1.4	<2	0.50	<0.5	21	112	15	4.54	20	2.85

Comments: NSS is non-sufficient sample.



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 ALS Canada Ltd.

212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1  
 Phone 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: MAGMA METALS (CANADA) LIMITED  
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Page: 6 - B  
 Total # Pages: 6 (A - C)  
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**CERTIFICATE OF ANALYSIS TB07107594**

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	Ti ppm
		10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10
E809948		10	14.35	1285	<1	0.55	1080	640	<2	0.80	<5	14	341	<20	0.65	<10
E809949		10	14.05	1285	<1	0.56	1010	680	<2	0.68	<5	14	343	<20	0.67	<10
E809950		20	12.50	1255	1	0.84	1560	1060	20	0.93	<5	17	337	<20	0.77	<10
E809951		10	14.25	1320	<1	0.65	1020	670	5	0.95	<5	15	409	<20	0.67	<10
E809952		10	13.85	1285	1	0.71	1040	590	<2	0.38	<5	15	358	<20	0.75	<10
E809953		10	13.95	1315	1	0.79	998	610	2	0.19	<5	16	367	<20	0.80	<10
E809954		10	13.15	1280	1	0.76	955	650	3	0.19	<5	15	373	<20	0.79	<10
E809955		10	13.25	1295	1	0.90	948	700	3	0.10	<5	16	393	<20	0.85	<10
E809956		10	12.50	1260	1	0.87	897	660	2	0.13	<5	16	414	<20	0.84	<10
E809957		20	12.70	1345	1	1.00	1140	910	<2	0.38	<5	16	444	<20	0.94	<10
E809958		20	12.05	1260	1	0.92	878	780	<2	0.14	<5	17	442	<20	0.89	<10
E809959		20	12.65	1355	1	0.90	868	780	<2	0.14	<5	19	485	<20	0.98	<10
E809960		20	12.50	1375	1	0.93	851	920	3	0.20	<5	19	619	<20	1.02	<10
E809961		20	11.30	1310	1	0.89	746	830	2	0.28	<5	19	603	<20	1.00	10
E809962		20	10.60	1390	1	0.91	674	920	3	0.27	<5	20	439	<20	1.11	<10
E809963		20	9.67	1275	1	1.02	604	860	2	0.25	<5	20	655	<20	1.08	<10
E809964		20	10.10	1715	1	1.10	632	960	<2	1.26	<5	20	274	<20	1.08	<10
E809965		20	9.52	1890	1	1.35	655	830	2	2.38	<5	19	169	<20	0.90	<10
E809966		30	1.94	505	<1	3.11	74	750	3	1.07	<5	13	300	<20	0.33	<10
E809967		20	1.87	427	<1	2.90	70	770	<2	0.95	<5	14	260	<20	0.33	<10
E809968		30	2.09	524	<1	2.35	95	810	3	0.95	<5	18	207	<20	0.38	<10
E809969		20	2.42	592	<1	3.01	91	1050	3	1.06	<5	14	258	<20	0.37	<10
E809970		10	0.18	717	<1	3.50	1	190	8	0.01	<5	1	787	<20	0.07	<10
E809971		20	1.20	404	1	3.29	40	460	12	0.86	<5	8	230	20	0.18	<10
E809972		10	1.72	491	<1	2.58	77	800	4	0.71	<5	12	176	<20	0.30	<10
E809973		20	1.82	557	<1	2.01	87	770	2	0.86	<5	14	151	<20	0.31	<10

Comments: NSS is non-sufficient sample.



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ALS Canada Ltd

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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Page: 6 - C

Total # Pages: 6 (A - C)

Finalized Date: 23-NOV-2007

Account: MGMAM

Project: Beaver Lake

## CERTIFICATE OF ANALYSIS TB07107594

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	PGM-MS24	PGM-MS24	PGM-MS24	PGM-ICP27	PGM-ICP27	PGM-ICP27
	Analyte	U	V	W	Zn	Au	Pt	Pd	Au	Pt	Pd
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		10	1	10	2	0.001	0.0005	0.001	0.03	0.03	0.03
E809948		<10	147	<10	97	0.007	0.0930	0.082			
E809949		<10	150	<10	96	0.010	0.0894	0.086			
E809950		<10	167	<10	103	0.297	>1.00	>1.00	0.27	2.74	2.78
E809951		<10	155	<10	100	0.007	0.0789	0.067			
E809952		<10	159	<10	100	0.008	0.0934	0.083			
E809953		<10	160	<10	102	0.006	0.0682	0.060			
E809954		<10	161	<10	103	0.008	0.0829	0.074			
E809955		<10	169	<10	100	0.008	0.0764	0.067			
E809956		<10	165	<10	98	0.008	0.101	0.088			
E809957		<10	181	<10	105	0.018	0.263	0.240			
E809958		<10	173	<10	99	0.009	0.103	0.089			
E809959		<10	195	<10	103	0.006	0.0675	0.059			
E809960		<10	200	<10	107	0.005	0.0567	0.047			
E809961		<10	193	<10	105	0.005	0.0481	0.038			
E809962		<10	209	<10	101	0.005	0.0355	0.028			
E809963		<10	204	<10	96	0.005	0.0309	0.022			
E809964		<10	215	<10	131	0.006	0.0408	0.038			
E809965		<10	197	<10	129	0.008	0.0605	0.056			
E809966		<10	93	<10	34	0.004	0.0018	0.002			
E809967		<10	100	<10	26	0.005	0.0017	0.002			
E809968		<10	131	<10	35	0.004	0.0019	0.002			
E809969		<10	116	10	44	0.004	0.0015	0.002			
E809970		10	8	<10	81	0.004	<0.0005	<0.001			
E809971		30	61	10	26	0.004	0.0009	0.001			
E809972		<10	100	<10	27	0.003	0.0016	0.002			
E809973		<10	111	<10	30	0.004	0.0015	0.002			

Comments: NSS is non-sufficient sample.



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ALS Canada Ltd

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1  
Phone 604 984 0221 Fax 604 984 0218 www.alschemex.com

To: MAGMA METALS (CANADA) LIMITED  
P.O. BOX 10628  
THUNDER BAY ON P7B 6V1

Page: 1  
Finalized Date: 19-NOV-2007  
Account: MGMAM

## CERTIFICATE TB07112068

Project: Beaver Lake  
P.O. No.:  
This report is for 131 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 2-OCT-2007.  
The following have access to data associated with this certificate:

JUSTIN JOHNSON GRAHAM WILSON	ALLAN MAC TAVISH	KEITH WATKINS
---------------------------------	------------------	---------------

## SAMPLE PREPARATION


ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
PGM-MS24	Pt, Pd and Au 50g FA ICP-MS	ICP-MS
PGM-ICP27	Ore grade Pt, Pd and Au by ICP	ICP-AES
ME-ICP61	33 element four acid ICP-AES	ICP-AES

To: MAGMA METALS (CANADA) LIMITED  
ATTN: ALLAN MAC TAVISH  
P.O. BOX 10628  
THUNDER BAY ON P7B 6V1

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:   
Lawrence Ng, Laboratory Manager - Vancouver



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 North Vancouver BC V7J 2C1  
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Page: 2 - A  
 Total # Pages: 5 (A - C)  
 Finalized Date: 19-NOV-2007  
 Account: MGMAM

Project: Beaver Lake

## CERTIFICATE OF ANALYSIS TB07112068

Sample Description	Method Analyte Units LOR	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Recvd Wt kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %
		0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	0.01	10	0.01	
E831001		0.90	1.9	7.57	15	220	1.5	<2	0.42	<0.5	8	14	38	1.39	30	2.24
E831002		2.26	0.5	8.76	15	460	2.7	<2	1.08	<0.5	20	156	10	4.21	20	2.80
E831003		1.67	<0.5	8.79	<5	360	2.1	<2	2.01	<0.5	24	198	26	4.95	20	2.12
E831004		2.17	0.5	8.31	17	320	2.8	<2	0.58	<0.5	22	80	52	4.05	20	2.15
E831005		1.86	<0.5	8.05	10	320	2.0	<2	0.44	<0.5	24	118	31	4.25	20	2.31
E831006		1.76	<0.5	6.06	19	370	1.3	<2	0.32	<0.5	4	8	28	1.05	20	3.37
E831007		2.01	<0.5	6.96	17	200	1.6	<2	0.31	0.5	2	8	29	0.88	20	2.05
E831008		2.10	<0.5	7.38	11	230	2.2	<2	0.51	<0.5	20	88	88	3.58	20	1.66
E831009		2.35	<0.5	7.51	13	320	1.7	<2	0.53	<0.5	20	101	73	3.71	20	2.09
E831010		2.45	<0.5	8.42	<5	500	1.7	<2	0.80	<0.5	24	126	60	4.62	20	2.21
E831011		2.14	<0.5	8.72	10	390	1.7	<2	0.50	<0.5	21	128	51	4.23	20	2.41
E831012		1.26	<0.5	6.91	15	400	1.5	<2	0.28	<0.5	5	9	16	1.16	20	3.05
E831013		2.22	<0.5	8.31	<5	280	1.6	<2	1.02	<0.5	20	110	44	4.17	20	1.76
E831014		2.01	<0.5	7.92	15	270	1.8	<2	0.59	<0.5	23	135	65	4.67	20	1.87
E831015		1.81	<0.5	7.31	6	330	1.8	<2	0.71	<0.5	22	123	75	4.42	20	2.20
E831016		1.08	<0.5	7.33	5	280	1.8	<2	0.43	<0.5	4	19	14	1.12	20	2.55
E831017		1.54	<0.5	8.52	17	310	1.8	<2	0.39	<0.5	26	139	12	4.89	20	2.19
E831018		2.05	<0.5	8.53	19	200	1.5	<2	1.26	<0.5	14	137	21	2.36	20	2.86
E831019		2.40	<0.5	7.88	14	220	1.7	<2	0.38	<0.5	18	111	17	3.64	20	2.30
E831020		0.10	<0.5	7.18	<5	850	0.9	<2	1.88	<0.5	<1	8	2	1.12	20	1.11
E831021		2.34	<0.5	7.47	11	200	1.7	<2	0.68	<0.5	21	108	28	3.94	20	2.07
E831022		1.11	<0.5	7.90	16	220	2.2	<2	0.46	<0.5	14	87	28	3.03	20	2.56
E831023		1.42	<0.5	6.96	5	300	1.8	<2	0.43	<0.5	6	33	28	1.59	20	2.30
E831024		1.90	<0.5	7.01	<5	500	1.2	<2	0.34	<0.5	3	11	16	0.90	20	4.27
E831025		1.15	<0.5	7.83	14	420	2.2	<2	1.12	0.5	21	103	58	3.77	20	1.65
E831026		2.71	<0.5	8.09	6	780	1.7	<2	1.54	<0.5	21	120	64	4.05	20	2.06
E831027		2.97	<0.5	7.53	<5	470	2.1	<2	1.08	<0.5	19	113	60	4.13	20	1.58
E831028		1.92	<0.5	7.43	<5	360	3.0	<2	0.63	<0.5	11	39	20	2.29	20	1.44
E831029		2.50	0.5	7.78	6	490	1.9	<2	0.66	<0.5	27	119	49	4.72	20	1.62
E831030		2.48	0.5	8.09	12	540	1.7	<2	0.54	<0.5	25	125	54	4.72	20	2.13
E831031		2.49	<0.5	8.08	5	530	1.8	<2	0.64	<0.5	27	125	65	4.55	20	2.18
E831032		2.33	<0.5	8.35	<5	580	2.1	<2	1.00	<0.5	21	113	53	4.22	20	1.99
E831033		2.35	<0.5	8.08	6	610	2.1	<2	0.85	<0.5	21	113	38	4.22	20	2.24
E831034		2.37	<0.5	7.77	6	570	1.9	<2	0.57	<0.5	23	128	56	4.53	20	2.35
E831035		2.63	<0.5	8.04	14	610	1.6	<2	0.73	<0.5	21	133	63	4.62	20	2.20
E831036		2.17	<0.5	8.05	13	620	1.5	<2	0.79	<0.5	22	152	44	5.14	20	2.16
E831037		1.76	<0.5	7.93	8	520	2.1	<2	0.80	<0.5	26	178	66	4.95	20	2.22
E831038		2.37	<0.5	8.21	<5	600	2.2	<2	0.40	<0.5	18	108	38	4.22	20	2.65
E831039		2.98	<0.5	8.12	6	590	2.2	<2	0.64	<0.5	23	119	45	4.03	20	2.22
E831040		0.10	5.8	3.29	<5	160	0.7	<2	3.47	1.2	114	1695	6440	9.71	<10	0.33



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North Vancouver BC V7J 2C1

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P.O. BOX 10628

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Page: 2 - B

Total # Pages: 5 (A - C)

Finalized Date: 19-NOV-2007

Account: MGMAM

Project: Beaver Lake

## CERTIFICATE OF ANALYSIS TB07112068

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	
	Analyte	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	
Units		ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	
LOR		10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	
E831001		10	0.53	151	167	2.09	20	290	16	0.50	<5	7	120	<20	0.05	10
E831002		40	2.62	817	5	1.18	110	1330	5	1.20	<5	18	88	<20	0.43	10
E831003		40	2.85	941	2	1.71	145	1500	3	0.58	<5	18	145	<20	0.47	<10
E831004		30	1.82	596	2	1.71	62	900	4	1.03	<5	13	166	<20	0.34	10
E831005		30	2.13	615	1	1.39	73	930	6	0.74	<5	14	97	<20	0.39	<10
E831006		20	0.46	133	2	1.59	10	270	18	0.43	<5	4	87	<20	0.06	10
E831007		10	0.28	88	2	2.77	5	330	10	0.43	<5	2	93	<20	0.05	10
E831008		20	1.77	530	1	1.82	52	720	2	0.73	<5	10	146	<20	0.29	<10
E831009		30	1.79	497	2	1.32	66	720	4	0.89	<5	12	129	<20	0.33	<10
E831010		30	1.75	513	2	1.91	87	890	8	0.43	<5	16	216	<20	0.44	10
E831011		20	1.76	499	2	1.59	73	770	3	0.76	<5	15	155	<20	0.40	<10
E831012		30	0.30	107	17	2.09	4	210	19	0.44	<5	3	103	20	0.09	<10
E831013		30	1.75	600	<1	2.22	72	870	<2	0.47	<5	14	170	<20	0.37	<10
E831014		30	1.92	637	1	1.65	74	820	8	0.89	<5	12	145	<20	0.38	10
E831015		20	1.93	696	2	1.43	68	800	4	0.54	<5	11	118	<20	0.36	10
E831016		<10	0.41	158	1	2.25	10	300	7	0.20	<5	5	98	<20	0.07	10
E831017		20	1.94	590	1	1.74	82	810	2	1.24	<5	18	100	<20	0.48	10
E831018		30	0.79	244	1	0.61	39	500	9	1.41	<5	9	30	<20	0.42	10
E831019		20	1.44	314	1	0.84	52	650	8	1.78	<5	11	52	<20	0.36	10
E831020		10	0.16	679	<1	3.33	2	150	7	0.01	<5	1	736	<20	0.07	<10
E831021		40	1.57	446	1	0.88	51	650	12	1.87	<5	10	62	<20	0.34	10
E831022		20	1.14	212	20	0.75	46	490	7	1.71	<5	9	40	<20	0.28	<10
E831023		10	0.58	241	<1	2.31	21	390	12	0.30	<5	7	110	<20	0.12	10
E831024		<10	0.20	92	<1	1.84	4	350	21	0.24	<5	5	116	<20	0.06	10
E831025		20	1.49	557	33	2.39	61	780	7	0.49	<5	13	268	<20	0.35	<10
E831026		30	1.70	714	4	1.68	67	810	11	0.55	<5	13	306	<20	0.37	<10
E831027		20	1.69	572	1	2.21	64	800	11	0.79	6	12	275	<20	0.36	<10
E831028		20	0.90	572	17	3.09	24	480	14	0.87	5	6	135	<20	0.13	<10
E831029		20	1.94	594	2	2.20	77	790	8	1.46	<5	15	194	<20	0.42	10
E831030		20	1.85	510	2	1.85	87	880	11	1.07	<5	17	176	<20	0.44	10
E831031		20	1.83	538	1	1.95	82	820	8	0.91	<5	16	220	<20	0.43	10
E831032		30	1.67	560	1	2.29	73	770	9	0.76	<5	15	266	<20	0.40	<10
E831033		30	1.73	604	2	1.75	67	710	10	1.13	<5	14	210	<20	0.37	<10
E831034		30	1.84	525	3	1.49	70	600	11	1.07	<5	14	160	<20	0.35	10
E831035		30	1.82	565	2	1.65	76	580	8	0.49	<5	16	223	<20	0.37	<10
E831036		20	2.35	586	3	1.37	92	630	10	0.60	6	16	206	<20	0.37	10
E831037		30	2.45	589	6	1.23	112	790	7	0.83	5	17	141	<20	0.37	10
E831038		20	1.74	437	3	1.35	69	560	8	0.49	<5	15	151	<20	0.33	10
E831039		30	1.72	524	4	1.95	70	650	10	0.64	<5	14	215	<20	0.38	10
E831040		20	11.85	1250	1	0.78	1520	1020	18	0.91	8	16	316	<20	0.76	10





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ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: MAGMA METALS (CANADA) LIMITED  
P.O. BOX 10628  
THUNDER BAY ON P7B 6V1

Page: 2 - C  
Total # Pages: 5 (A - C)  
Finalized Date: 19-NOV-2007  
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Project: Beaver Lake

## CERTIFICATE OF ANALYSIS TB07112068

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	PGM-MS24	PGM-MS24	PGM-MS24	PGM-ICP27	PGM-ICP27	PGM-ICP27
	Analyte	U	V	W	Zn	Au	Pt	Pd	Au	Pt	Pd
	Units LOR	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		10	1	10	2	0.001	0.0005	0.001	0.03	0.03	0.03
E831001		20	15	<10	11	0.004	0.0011	0.001			
E831002		<10	142	10	45	0.003	0.0027	0.003			
E831003		<10	152	<10	61	0.002	0.0023	0.002			
E831004		10	110	<10	73	0.002	0.0014	0.001			
E831005		<10	120	<10	48	0.001	0.0016	0.001			
E831006		10	9	<10	21	0.001	<0.0005	<0.001			
E831007		20	6	<10	11	0.001	0.0005	<0.001			
E831008		10	83	<10	54	0.001	0.0010	0.001			
E831009		<10	107	<10	63	0.001	0.0018	0.001			
E831010		<10	141	<10	72	0.001	0.0017	0.001			
E831011		<10	129	<10	78	0.001	0.0017	0.001			
E831012		10	13	10	12	0.002	<0.0005	<0.001			
E831013		<10	116	<10	98	0.001	0.0012	0.001			
E831014		<10	114	<10	87	0.001	0.0014	0.001			
E831015		<10	101	<10	81	0.001	0.0012	0.001			
E831016		10	17	<10	20	0.001	<0.0005	<0.001			
E831017		<10	158	<10	60	0.001	0.0019	0.002			
E831018		<10	113	<10	50	0.001	0.0014	0.001			
E831019		<10	106	<10	33	0.001	0.0014	0.001			
E831020		10	8	<10	75	0.002	<0.0005	<0.001			
E831021		<10	99	<10	35	0.001	0.0012	0.001			
E831022		<10	95	<10	27	0.001	0.0010	0.001			
E831023		20	29	<10	14	0.001	<0.0005	<0.001			
E831024		10	8	10	9	0.001	<0.0005	<0.001			
E831025		10	99	<10	57	0.001	0.0012	0.001			
E831026		<10	108	<10	92	0.001	0.0012	0.001			
E831027		10	100	<10	59	0.001	0.0012	0.001			
E831028		20	37	<10	26	0.001	<0.0005	<0.001			
E831029		<10	128	10	74	0.001	0.0016	0.001			
E831030		<10	145	<10	64	0.001	0.0018	0.002			
E831031		<10	138	10	67	0.001	0.0017	0.002			
E831032		<10	126	10	72	0.002	0.0016	0.002			
E831033		10	113	<10	69	0.001	0.0015	0.001			
E831034		10	112	<10	64	0.001	0.0019	0.002			
E831035		<10	123	<10	70	0.001	0.0019	0.002			
E831036		<10	128	<10	85	0.002	0.0019	0.002			
E831037		<10	131	<10	78	0.001	0.0020	0.002			
E831038		<10	111	<10	53	0.002	0.0014	0.002			
E831039		<10	114	<10	62	0.002	0.0015	0.002			
E831040		<10	167	<10	97	0.337	>1.00	>1.00	0.26	2.68	2.56



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ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1

Phone 604 984 0221 Fax 604 984 0218 www.alschemex.com

To: MAGMA METALS (CANADA) LIMITED

P.O. BOX 10628

THUNDER BAY ON P7B 6V1

Page: 3 - A

Total # Pages: 5 (A - C)

Finalized Date: 19-NOV-2007

Account: MGRAM

Project: Beaver Lake

## CERTIFICATE OF ANALYSIS TB07112068

Sample Description	Method	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%
LOR		0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01
E831041		2.18	<0.5	6.13	5	320	3.0	<2	0.29	<0.5	4	7	12	0.80	20	3.18
E831042		2.21	<0.5	7.89	6	450	1.8	<2	0.56	<0.5	24	127	37	4.57	20	1.90
E831043		2.01	<0.5	7.91	20	470	1.6	<2	0.64	<0.5	25	121	31	4.25	20	1.96
E831044		2.36	<0.5	8.09	16	390	2.2	<2	0.95	<0.5	30	98	44	4.58	20	2.43
E831045		2.86	<0.5	8.11	13	440	1.8	<2	0.52	<0.5	25	121	53	4.11	20	2.20
E831046		1.09	0.5	7.62	10	350	2.5	<2	0.52	<0.5	20	74	38	3.98	20	2.83
E831047		2.68	<0.5	7.56	15	400	1.7	<2	0.85	<0.5	25	108	40	3.65	20	1.49
E831048		1.97	<0.5	7.80	15	1500	2.3	<2	0.51	<0.5	23	98	57	3.69	20	1.84
E831049		1.15	<0.5	7.56	10	4160	1.5	<2	0.94	<0.5	5	33	29	1.17	30	3.02
E831050		2.02	<0.5	7.93	5	260	2.0	<2	0.55	<0.5	23	120	63	2.99	30	3.14
E831051		1.75	<0.5	7.83	8	240	2.2	<2	1.15	<0.5	20	72	49	3.52	20	3.02
E831052		1.93	0.5	7.76	10	340	2.6	<2	0.37	<0.5	17	78	37	3.67	20	2.86
E831053		2.55	<0.5	7.57	9	680	1.8	<2	0.49	<0.5	25	112	75	4.18	20	1.70
E831054		2.36	<0.5	7.19	<5	520	2.5	<2	0.43	<0.5	14	72	24	3.07	20	1.96
E831055		2.69	<0.5	7.60	6	1060	2.0	<2	0.71	<0.5	18	96	57	3.23	20	1.83
E831056		2.15	<0.5	7.42	7	790	2.0	<2	0.85	<0.5	15	93	42	3.08	20	1.56
E831057		2.49	<0.5	7.66	5	620	1.3	<2	0.69	<0.5	17	94	37	3.46	20	1.74
E831058		2.40	<0.5	7.95	13	660	1.5	<2	0.76	<0.5	17	108	28	3.76	20	2.05
E831059		2.67	<0.5	7.96	8	1270	1.3	<2	0.96	<0.5	18	118	35	3.75	20	2.32
E831060		0.09	<0.5	7.16	<5	870	0.9	<2	1.89	0.5	2	8	2	1.12	20	1.10
E831061		2.59	<0.5	7.67	10	840	1.2	<2	0.84	<0.5	17	102	53	3.52	20	2.03
E831062		2.28	0.5	7.96	9	600	1.3	<2	0.84	<0.5	16	92	98	3.48	20	1.72
E831063		3.19	<0.5	7.87	10	600	1.3	<2	0.73	<0.5	16	92	16	3.38	20	1.82
E831064		1.17	<0.5	7.61	19	450	1.3	<2	0.50	<0.5	15	88	20	3.00	20	1.85
E831065		1.33	<0.5	7.66	14	300	2.2	<2	0.60	<0.5	17	101	9	4.46	20	2.23
E831066		1.23	<0.5	7.60	7	320	2.0	<2	0.44	<0.5	13	66	16	3.14	20	2.10
E831067		2.69	<0.5	7.87	14	360	2.0	<2	0.57	<0.5	14	81	17	3.86	20	2.22
E831068		1.39	<0.5	9.43	11	480	1.6	<2	0.56	<0.5	5	118	18	1.94	30	3.08
E831069		1.25	<0.5	8.19	14	440	1.5	<2	0.53	<0.5	12	128	168	2.10	20	3.34
E831070		2.14	<0.5	7.81	9	240	2.3	<2	0.54	<0.5	26	210	7	4.70	20	1.18
E831071		2.07	<0.5	8.45	9	400	2.2	<2	0.52	<0.5	18	105	5	3.75	20	2.36
E831072		2.40	<0.5	8.03	9	490	3.1	<2	0.69	<0.5	16	94	11	3.43	20	1.58
E831073		1.96	<0.5	8.22	5	590	4.6	<2	0.68	<0.5	14	91	20	3.38	20	1.87
E831074		1.58	<0.5	8.30	7	420	3.5	<2	0.48	<0.5	21	108	74	3.92	20	2.26
E831075		2.33	<0.5	8.04	9	490	2.2	<2	0.77	<0.5	15	87	34	3.49	20	1.57
E831076		1.38	<0.5	8.25	10	850	1.1	<2	2.03	<0.5	14	89	41	3.36	20	1.33
E831077		3.26	<0.5	7.83	7	550	1.3	<2	0.66	<0.5	20	105	47	4.02	20	1.84
E831078		3.34	<0.5	7.99	14	710	1.6	<2	0.72	<0.5	17	97	36	3.77	20	2.14
E831079		1.28	<0.5	7.28	<5	250	2.4	<2	0.32	<0.5	3	7	25	1.14	30	2.71
E831080		0.09	6.3	3.41	<5	170	0.7	<2	3.59	0.8	120	1805	6740	10.10	<10	0.33



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ALS Canada Ltd

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1

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Page: 3 - B

Total # Pages: 5 (A - C)

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Account: MGMAM

Project: Beaver Lake

## CERTIFICATE OF ANALYSIS TB07112068

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	
		La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	Tl ppm
E831041		20	0.18	124	17	1.91	5	240	22	0.27	<5	2	79	<20	0.05	<10
E831042		20	2.03	521	2	1.74	67	560	9	1.00	<5	15	166	<20	0.34	10
E831043		20	1.91	589	1	1.62	71	670	5	1.17	6	14	178	<20	0.37	<10
E831044		20	2.05	457	3	0.99	78	670	9	2.66	<5	14	104	<20	0.39	<10
E831045		30	2.13	518	1	1.60	77	800	13	1.64	<5	15	127	<20	0.41	<10
E831046		20	1.15	234	<1	1.08	60	680	15	3.35	<5	12	82	<20	0.25	10
E831047		30	1.76	564	9	2.36	67	790	4	0.49	<5	12	209	<20	0.35	10
E831048		20	1.88	539	27	1.88	66	760	8	1.35	<5	12	180	<20	0.34	10
E831049		10	0.92	161	1	0.25	4	370	5	0.43	5	3	54	<20	0.09	<10
E831050		20	1.22	247	3	0.14	47	730	26	2.52	<5	8	39	<20	0.37	10
E831051		20	1.19	256	2	0.52	55	640	9	3.31	<5	9	40	<20	0.22	10
E831052		10	1.85	315	1	0.89	56	670	12	3.27	<5	11	58	<20	0.23	10
E831053		20	2.24	655	3	2.09	69	820	11	1.80	<5	13	177	<20	0.35	10
E831054		10	1.48	392	1	2.31	43	610	7	1.95	<5	9	130	<20	0.22	<10
E831055		20	1.74	579	2	2.32	56	600	7	0.92	<5	10	275	<20	0.28	<10
E831056		10	1.52	614	60	2.54	45	540	9	0.91	<5	9	330	<20	0.24	<10
E831057		20	1.85	621	1	2.44	51	610	5	0.89	<5	10	285	<20	0.28	<10
E831058		20	2.03	667	<1	2.13	56	600	3	1.24	<5	11	276	<20	0.30	10
E831059		20	1.94	753	1	1.76	53	610	6	1.11	<5	11	327	<20	0.30	<10
E831060		10	0.16	707	<1	3.39	2	160	9	0.01	6	1	743	<20	0.07	<10
E831061		20	1.93	679	1	2.19	52	620	3	0.70	<5	10	335	<20	0.29	10
E831062		20	1.93	615	1	2.68	49	590	<2	0.53	<5	10	377	<20	0.29	<10
E831063		20	1.83	572	1	2.49	52	610	<2	0.35	<5	10	309	<20	0.29	10
E831064		10	1.85	552	1	2.41	49	600	<2	0.53	<5	9	256	<20	0.27	<10
E831065		10	2.81	615	1	0.90	60	590	<2	2.17	6	11	114	<20	0.29	<10
E831066		10	2.01	482	<1	1.86	45	530	2	1.17	<5	9	215	<20	0.22	10
E831067		20	2.57	546	1	1.31	48	680	<2	1.58	<5	9	150	<20	0.26	10
E831068		10	0.90	154	3	0.64	16	290	5	1.39	<5	2	55	<20	0.30	10
E831069		10	1.08	203	4	0.14	25	410	<2	0.94	<5	4	37	<20	0.28	<10
E831070		20	4.05	701	1	1.59	112	1210	<2	1.07	<5	17	106	<20	0.32	10
E831071		20	2.29	614	1	2.10	55	720	2	0.53	<5	10	183	<20	0.30	10
E831072		20	1.97	510	2	2.63	60	600	<2	0.41	<5	12	233	<20	0.30	10
E831073		20	2.00	594	2	2.43	47	630	<2	0.31	<5	10	293	<20	0.27	<10
E831074		20	2.21	484	4	1.92	69	840	5	1.25	<5	10	159	<20	0.32	<10
E831075		20	2.09	542	1	2.69	53	640	<2	0.44	<5	10	299	<20	0.28	<10
E831076		20	1.47	596	1	2.35	47	600	8	0.31	<5	9	473	<20	0.26	<10
E831077		20	1.94	591	2	2.69	72	720	4	0.58	8	12	258	<20	0.34	10
E831078		20	1.81	642	3	2.50	61	700	3	0.69	<5	11	297	<20	0.31	<10
E831079		<10	0.29	257	<1	2.59	5	540	18	0.34	5	3	76	<20	0.04	10
E831080		20	12.35	1295	2	0.81	1590	1060	16	0.95	5	16	329	<20	0.79	10



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ALS Canada Ltd  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1  
 Phone 604 984 0221 Fax 604 984 0218 www.alschemex.com

To: MAGMA METALS (CANADA) LIMITED  
 P.O. BOX 10628  
 THUNDER BAY ON P7B 6V1

Page: 3 - C  
 Total # Pages: 5 (A - C)  
 Finalized Date: 19-NOV-2007  
 Account: MGRAM

Project: Beaver Lake

## CERTIFICATE OF ANALYSIS TB07112068

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	PGM-MS24	PGM-MS24	PGM-MS24	PGM-ICP27	PGM-ICP27	PGM-ICP27
		U	V	W	Zn	Au	Pt	Pd	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		10	1	10	2	0.001	0.0005	0.001	0.03	0.03	0.03
E831041		10	6	<10	12	0.003	0.0013	0.001			
E831042		10	113	<10	67	0.002	0.0022	0.002			
E831043		<10	114	<10	65	0.002	0.0016	0.002			
E831044		<10	118	10	52	0.002	0.0014	0.001			
E831045		<10	135	<10	56	0.002	0.0019	0.001			
E831046		10	78	<10	24	0.002	0.0009	0.001			
E831047		<10	105	<10	60	0.002	0.0012	0.001			
E831048		<10	102	<10	50	0.002	0.0011	0.001			
E831049		<10	36	<10	13	0.001	<0.0005	<0.001			
E831050		<10	116	<10	25	0.002	0.0012	0.001			
E831051		10	85	<10	25	0.002	0.0008	0.001			
E831052		10	81	<10	29	0.001	0.0010	0.001			
E831053		10	110	<10	57	0.001	0.0013	0.001			
E831054		10	67	<10	41	0.002	0.0009	0.001			
E831055		<10	86	<10	57	0.001	0.0011	0.001			
E831056		10	72	<10	54	0.002	0.0010	0.001			
E831057		<10	88	10	59	0.002	0.0011	0.001			
E831058		10	95	<10	59	0.002	0.0011	0.001			
E831059		<10	89	<10	59	0.002	0.0010	0.001			
E831060		10	8	<10	75	0.003	<0.0005	<0.001			
E831061		10	87	<10	58	0.002	0.0010	0.001			
E831062		10	84	10	58	0.002	0.0010	0.001			
E831063		<10	86	<10	59	0.002	0.0012	0.001			
E831064		10	78	<10	55	0.002	0.0009	0.001			
E831065		<10	93	10	58	0.002	0.0014	0.001			
E831066		10	75	<10	50	0.002	0.0009	0.001			
E831067		10	79	<10	48	0.002	0.0011	0.001			
E831068		<10	100	10	14	0.001	0.0011	0.001			
E831069		<10	80	<10	22	0.002	0.0011	0.001			
E831070		10	107	<10	98	0.002	0.0015	0.002			
E831071		10	87	<10	75	0.002	0.0009	0.001			
E831072		10	97	<10	64	0.001	0.0011	0.001			
E831073		10	80	<10	68	0.001	0.0008	0.001			
E831074		10	106	<10	76	0.002	0.0013	0.001			
E831075		10	84	<10	62	0.002	0.0010	0.001			
E831076		<10	76	<10	49	0.003	0.0010	0.001			
E831077		10	112	<10	62	0.001	0.0012	0.001			
E831078		<10	96	<10	64	0.001	0.0011	0.001			
E831079		20	7	<10	10	0.001	<0.0005	<0.001			
E831080		<10	175	<10	105	0.302	>1.00	>1.00	0.28	2.81	2.63



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 North Vancouver BC V7J 2C1  
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Page: 4 - A

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Sample Description	Method Analyte Units LOR	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %
E831081		2.02	<0.5	7.85	<5	440	1.6	<2	0.56	<0.5	20	98	26	3.84	20	1.74
E831082		2.42	<0.5	8.63	11	650	1.4	<2	0.83	<0.5	21	95	41	3.87	20	2.07
E831083		2.05	<0.5	8.44	<5	720	1.3	<2	1.05	<0.5	19	99	45	3.85	20	2.08
E831084		2.55	<0.5	9.05	11	700	1.7	<2	1.03	<0.5	22	105	45	4.12	20	2.13
E831085		2.96	<0.5	8.15	12	610	1.5	<2	0.62	<0.5	22	106	42	4.16	20	2.10
E831086		3.02	<0.5	8.91	<5	870	1.4	<2	1.63	<0.5	16	89	38	3.63	20	1.98
E831087		2.79	<0.5	9.12	<5	730	1.2	<2	1.65	<0.5	15	81	34	3.64	20	1.80
E831088		2.19	<0.5	8.55	<5	630	1.3	<2	0.84	<0.5	22	111	49	4.11	20	2.02
E831089		2.44	<0.5	8.72	<5	460	1.4	<2	1.25	<0.5	19	103	40	3.72	20	1.76
E831090		2.29	<0.5	8.88	<5	420	1.5	2	1.08	<0.5	17	92	54	3.69	20	1.56
E831091		2.49	<0.5	9.57	6	680	1.5	<2	1.66	<0.5	15	88	37	3.48	20	2.41
E831092		2.44	<0.5	9.53	<5	370	1.6	<2	1.49	<0.5	16	83	14	3.55	20	1.66
E831093		2.41	<0.5	9.44	5	500	1.5	<2	1.05	<0.5	18	79	26	3.29	20	1.97
E831094		2.41	<0.5	8.22	8	420	1.4	2	1.35	<0.5	17	101	39	3.93	20	1.40
E831095		2.41	<0.5	8.27	<5	660	1.7	2	1.28	<0.5	18	111	49	3.56	20	2.03
E831096		2.25	<0.5	8.75	<5	390	2.0	<2	0.64	<0.5	19	110	44	4.19	20	1.71
E831097		2.65	<0.5	8.33	<5	440	2.5	3	0.73	<0.5	19	101	42	3.88	20	1.74
E831098		2.54	<0.5	6.89	<5	310	2.0	<2	0.32	<0.5	1	6	10	0.61	20	3.25
E831099		2.75	<0.5	8.70	6	480	1.4	2	1.34	<0.5	17	98	44	3.77	20	1.51
E831100		0.09	<0.5	8.00	<5	920	1.0	<2	2.03	<0.5	2	8	2	1.18	20	1.12
E831101		2.35	<0.5	8.98	<5	530	1.1	3	2.22	<0.5	17	93	45	3.53	20	1.43
E831102		2.39	<0.5	9.23	<5	500	1.3	<2	2.38	<0.5	16	84	34	3.46	20	1.42
E831103		2.34	<0.5	9.52	<5	690	1.4	2	1.00	<0.5	20	91	32	3.95	20	2.31
E831104		2.10	<0.5	8.38	<5	570	2.1	<2	1.05	<0.5	17	86	39	3.30	20	2.13
E831105		2.25	<0.5	9.09	<5	540	1.3	<2	0.76	<0.5	22	104	35	4.13	20	2.06
E831106		2.28	<0.5	8.80	11	560	1.3	<2	0.84	<0.5	21	95	50	3.92	20	1.92
E831107		2.32	<0.5	8.67	6	540	1.5	2	0.83	<0.5	19	97	56	3.75	20	2.25
E831108		2.88	<0.5	8.60	<5	540	1.6	<2	0.59	<0.5	20	96	77	4.08	20	2.16
E831109		2.06	<0.5	8.16	<5	620	2.0	<2	0.66	<0.5	20	115	22	3.43	20	2.40
E831110		2.56	<0.5	9.21	<5	550	1.8	<2	0.56	<0.5	20	93	16	3.55	20	2.32
E831111		2.91	<0.5	9.84	<5	760	1.9	<2	0.61	<0.5	21	101	59	4.25	20	3.10
E831112		3.38	<0.5	9.53	<5	730	1.8	<2	0.84	<0.5	23	111	58	4.25	20	2.62
E831113		1.82	<0.5	7.89	<5	1290	2.9	<2	0.58	<0.5	10	35	460	2.04	20	2.16
E831114		2.50	<0.5	8.93	6	650	2.0	3	0.84	<0.5	28	119	44	4.47	20	2.14
E831115		2.40	<0.5	8.38	<5	740	2.0	<2	0.82	<0.5	24	115	42	4.29	20	2.26
E831116		2.16	<0.5	7.97	<5	550	2.1	<2	0.68	<0.5	19	76	46	3.21	20	1.77
E831117		2.04	0.8	8.33	<5	640	1.8	<2	0.89	<0.5	28	103	84	3.97	20	1.99
E831118		2.48	<0.5	8.17	<5	680	2.0	<2	1.16	<0.5	25	105	66	3.69	20	2.25
E831119		2.42	<0.5	8.62	<5	1760	2.0	<2	1.07	<0.5	23	105	97	3.89	20	2.74
E831120		0.10	6.4	3.60	5	180	0.7	<2	3.86	0.5	126	1820	6970	10.55	10	0.35



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ALS Canada Ltd

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1

Phone 604 984 0221 Fax 604 984 0218 www.alschemex.com

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Page: 4 - B

Total # Pages: 5 (A - C)

Finalized Date: 19-NOV-2007

Account: MGMAM

Project: Beaver Lake

## CERTIFICATE OF ANALYSIS TB07112068

Sample Description	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	Ti ppm
E831081	20	1.77	454	1	2.34	65	650	<2	0.33	<5	14	254	<20	0.33	10
E831082	20	1.73	543	1	2.49	66	600	<2	0.37	<5	13	327	<20	0.32	<10
E831083	20	1.63	596	1	2.36	64	690	<2	0.36	<5	13	367	<20	0.33	10
E831084	20	1.90	634	<1	2.79	72	780	2	0.47	<5	13	392	<20	0.35	<10
E831085	20	1.96	502	1	2.51	75	710	8	0.53	<5	14	247	<20	0.36	10
E831086	20	1.64	669	1	2.28	49	710	10	0.40	<5	11	397	<20	0.26	<10
E831087	30	1.70	577	1	2.35	46	780	4	0.31	<5	11	417	<20	0.27	<10
E831088	20	1.88	448	1	2.19	69	790	4	0.31	<5	14	294	<20	0.36	<10
E831089	20	1.75	591	1	2.60	59	720	6	0.38	<5	11	377	<20	0.30	<10
E831090	20	1.85	493	2	2.90	55	670	8	0.50	<5	12	347	<20	0.29	10
E831091	30	1.78	555	<1	2.14	45	760	3	0.45	<5	10	363	<20	0.25	<10
E831092	20	1.85	550	<1	3.18	46	730	3	0.28	<5	10	448	<20	0.26	10
E831093	30	1.78	484	1	2.63	42	630	8	0.48	<5	10	318	<20	0.26	10
E831094	20	1.95	659	1	2.61	48	860	6	0.52	<5	10	292	<20	0.25	10
E831095	20	1.55	575	2	2.15	48	620	5	0.34	<5	10	312	<20	0.29	<10
E831096	20	1.93	537	2	2.61	66	700	4	0.31	<5	13	217	<20	0.32	10
E831097	20	1.72	563	1	2.45	62	690	4	0.34	<5	13	263	<20	0.29	<10
E831098	<10	0.09	92	<1	3.18	1	570	23	0.13	<5	1	95	<20	0.02	<10
E831099	20	1.66	708	<1	2.92	48	660	5	0.25	<5	11	377	<20	0.27	<10
E831100	10	0.17	719	<1	3.46	2	170	11	<0.01	<5	1	798	<20	0.07	<10
E831101	20	1.63	758	<1	2.80	47	640	7	0.26	<5	10	516	<20	0.27	<10
E831102	20	1.84	689	<1	2.97	41	670	16	0.21	<5	9	557	<20	0.26	<10
E831103	30	1.95	610	1	2.47	57	700	5	0.19	<5	13	310	<20	0.30	<10
E831104	20	1.56	578	<1	2.66	53	750	3	0.25	<5	9	309	<20	0.23	10
E831105	20	1.97	574	1	2.68	76	770	3	0.15	<5	16	262	<20	0.35	<10
E831106	20	1.78	628	1	3.04	55	690	7	0.27	<5	11	324	<20	0.29	<10
E831107	20	1.79	695	1	2.67	56	700	12	0.24	<5	11	283	<20	0.30	<10
E831108	20	2.06	605	3	2.26	60	690	5	0.55	<5	12	203	<20	0.28	<10
E831109	10	1.97	616	2	2.03	60	820	5	0.32	<5	10	194	<20	0.27	<10
E831110	20	1.87	488	3	2.34	57	600	5	0.31	<5	12	165	<20	0.28	<10
E831111	20	2.09	599	2	1.66	68	780	6	0.33	<5	16	195	<20	0.36	<10
E831112	40	1.97	553	1	2.05	74	820	6	0.25	<5	16	246	<20	0.38	<10
E831113	10	0.77	321	5	3.10	28	680	4	0.25	<5	6	201	<20	0.14	<10
E831114	30	2.27	619	2	2.57	81	1050	<2	0.18	<5	16	282	<20	0.43	<10
E831115	20	2.18	607	1	2.41	70	980	<2	0.30	<5	13	291	<20	0.38	10
E831116	20	1.55	451	1	3.03	50	870	4	0.23	<5	10	211	<20	0.28	<10
E831117	30	2.04	638	21	2.63	67	950	<2	0.26	<5	13	278	<20	0.37	<10
E831118	20	2.05	697	1	2.32	65	820	3	0.23	<5	13	265	<20	0.36	<10
E831119	20	1.77	625	1	2.21	62	810	8	0.31	<5	12	367	<20	0.33	<10
E831120	20	12.30	1360	1	0.85	1670	1140	24	1.00	5	17	351	<20	0.82	<10



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Page: 4 - C

Total # Pages: 5 (A - C)

Finalized Date: 19-NOV-2007

Account: MGMAM

Project: Beaver Lake

## CERTIFICATE OF ANALYSIS TB07112068

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	PGM-MS24	PGM-MS24	PGM-MS24	PGM-ICP27	PGM-ICP27	PGM-ICP27
		U	V	W	Zn	Au	Pt	Pd	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		10	1	10	2	0.001	0.0005	0.001	0.03	0.03	0.03
E831081		<10	111	<10	56	0.002	0.0017	0.002			
E831082		10	109	<10	60	0.002	0.0014	0.002			
E831083		10	104	<10	62	0.002	0.0013	0.001			
E831084		<10	110	<10	65	0.001	0.0012	0.001			
E831085		10	119	<10	57	0.002	0.0016	0.002			
E831086		10	81	<10	60	0.001	0.0008	0.001			
E831087		<10	78	<10	56	0.001	0.0010	0.001			
E831088		10	110	<10	66	0.001	0.0014	0.002			
E831089		<10	91	<10	69	0.001	0.0012	0.001			
E831090		10	87	<10	59	0.001	0.0011	0.001			
E831091		<10	69	<10	61	0.002	0.0009	0.001			
E831092		10	75	<10	62	0.002	0.0008	0.001			
E831093		10	75	<10	54	0.001	0.0009	0.001			
E831094		<10	75	<10	61	0.001	0.0009	0.001			
E831095		<10	82	<10	51	0.001	0.0010	0.001			
E831096		<10	102	<10	52	0.002	0.0012	0.001			
E831097		10	97	<10	56	0.001	0.0012	0.001			
E831098		10	1	<10	6	0.002	<0.0005	<0.001			
E831099		10	82	<10	49	0.002	0.0010	0.001			
E831100		10	8	<10	79	0.003	<0.0005	<0.001			
E831101		10	79	<10	55	0.002	0.0011	0.001			
E831102		20	72	<10	62	0.002	0.0007	0.001			
E831103		<10	89	<10	59	0.002	0.0012	0.001			
E831104		10	69	<10	48	0.002	0.0008	0.001			
E831105		10	117	<10	58	0.001	0.0016	0.002			
E831106		10	89	<10	56	0.001	0.0010	0.001			
E831107		10	90	<10	57	0.001	0.0011	0.001			
E831108		<10	92	<10	59	0.001	0.0013	0.001			
E831109		<10	82	<10	59	0.001	0.0009	0.001			
E831110		10	89	<10	52	0.001	0.0010	0.001			
E831111		<10	118	<10	54	0.001	0.0015	0.002			
E831112		<10	117	<10	60	0.001	0.0013	0.002			
E831113		10	40	<10	46	0.001	0.0005	<0.001			
E831114		<10	134	<10	72	0.001	0.0012	0.001			
E831115		<10	110	<10	63	0.001	0.0011	0.001			
E831116		10	78	<10	46	0.001	0.0008	0.001			
E831117		10	107	<10	58	0.001	0.0011	0.001			
E831118		<10	108	<10	55	0.001	0.0011	0.001			
E831119		<10	100	<10	53	0.001	0.0015	0.001			
E831120		<10	176	<10	109	0.239	>1.00	>1.00	0.29	2.84	2.75



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North Vancouver BC V7J 2C1

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Page: 5 - A

Total # Pages: 5 (A - C)

Finalized Date: 19-NOV-2007

Account: MGMAM

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## CERTIFICATE OF ANALYSIS TB07112068

Sample Description	Method Analyte Units LOR	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K
		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%
		0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	0.01	10	0.01	
E831121		2.55	<0.5	9.22	<5	770	1.3	3	1.14	<0.5	23	89	52	3.80	20	2.15
E831122		2.45	<0.5	7.38	<5	600	1.6	<2	0.74	<0.5	28	107	47	3.59	20	1.94
E831123		2.26	<0.5	7.52	<5	1040	1.2	<2	0.89	<0.5	27	106	49	3.60	20	2.27
E831124		2.28	<0.5	7.33	<5	570	1.2	<2	0.84	<0.5	15	89	33	3.33	20	1.90
E831125		2.78	<0.5	7.35	<5	580	1.4	<2	0.77	<0.5	19	105	44	3.69	20	1.81
E831126		2.64	<0.5	7.39	<5	620	1.4	<2	0.91	<0.5	20	110	52	3.91	20	1.78
E831127		2.74	<0.5	7.71	<5	560	1.6	<2	0.74	<0.5	19	113	16	3.95	20	1.79
E831128		2.71	<0.5	7.28	<5	500	1.9	<2	0.70	<0.5	19	133	30	4.11	20	1.78
E831129		2.75	<0.5	7.36	<5	1150	1.7	<2	0.63	<0.5	24	140	81	4.54	20	1.47
E831130		2.27	<0.5	7.92	<5	1070	1.6	<2	0.68	<0.5	18	108	44	3.91	20	1.71
E831131		2.86	<0.5	8.01	<5	470	1.6	<2	1.09	<0.5	14	84	10	3.14	20	1.84





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 ALS Canada Ltd

212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1  
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Page: 5 - B  
 Total # Pages: 5 (A - C)  
 Finalized Date: 19-NOV-2007  
 Account: MGMAM

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**CERTIFICATE OF ANALYSIS TB07112068**

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	
		La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Ti
		ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
E831121	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10	
E831122	20	1.80	608	<1	2.99	56	700	4	0.17	<5	11	401	<20	0.28	<10	
E831123	20	1.78	549	3	2.54	55	720	15	0.15	<5	10	285	<20	0.29	<10	
E831124	20	1.71	574	1	2.65	53	670	3	0.17	<5	10	332	<20	0.29	<10	
E831125	20	1.71	569	1	2.57	48	860	<2	0.15	<5	9	304	<20	0.27	<10	
E831126	20	1.81	540	2	2.49	58	740	<2	0.14	<5	11	291	<20	0.31	<10	
E831127	20	1.89	602	1	2.56	61	840	4	0.16	<5	12	314	<20	0.34	<10	
E831128	30	2.03	597	5	2.56	62	830	<2	0.17	<5	11	248	<20	0.35	<10	
E831129	20	2.30	600	1	2.21	75	890	<2	0.32	<5	12	170	<20	0.35	<10	
E831130	30	2.26	589	3	2.80	73	950	5	0.28	5	13	251	<20	0.40	<10	
E831131	20	2.12	529	1	2.66	61	800	<2	0.20	<5	11	291	<20	0.33	<10	
E831131	20	1.94	546	1	2.76	49	620	<2	0.14	<5	9	278	<20	0.26	<10	



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Page: 5 - C  
 Total # Pages: 5 (A - C)  
 Finalized Date: 19-NOV-2007  
 Account: MGMAM

Project: Beaver Lake

**CERTIFICATE OF ANALYSIS TB07112068**

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	PGM-MS24	PGM-MS24	PGM-MS24	PGM-ICP27	PGM-ICP27	PGM-ICP27
	Analyte	U	V	W	Zn	Au	Pt	Pd	Au	Pt	Pd
Units		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		10	1	10	2	0.001	0.0005	0.001	0.03	0.03	0.03
E831121		10	85	<10	56	0.002	0.0015	0.002			
E831122		10	84	<10	60	0.001	0.0011	0.001			
E831123		10	87	<10	53	0.001	0.0010	0.001			
E831124		10	79	<10	52	0.001	0.0009	0.001			
E831125		10	93	<10	48	0.001	0.0015	0.001			
E831126		10	98	<10	51	0.001	0.0010	0.001			
E831127		10	97	<10	58	0.002	0.0010	0.001			
E831128		10	104	<10	53	0.001	0.0012	0.001			
E831129		10	114	10	61	0.001	0.0011	0.001			
E831130		20	94	<10	54	0.001	0.0010	0.001			
E831131		10	75	<10	51	0.001	0.0009	0.001			