



ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: 2011 ROK – Coyote Geophysics and Geochemistry AR

TOTAL COST: \$180,266.02

AUTHOR(S): A.W. Gourlay, P.Geo.
SIGNATURE(S):

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): 5282849
STATEMENT OF WORK EVENT NUMBER(S)/DATE(S): 1650367

YEAR OF WORK: 2011

PROPERTY NAME: ROK – Coyote Property

CLAIM NAME(S) (on which work was done): 572279, 518532, 572235, 572238, 572240

COMMODITIES SOUGHT: Cu, Au, Ag, Mo

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 104H 012 Coyote

MINING DIVISION: Liard

NTS / BCGS: 104H12, 104H13

LATITUDE: _____ ° _____ ' _____ "

LONGITUDE: _____ ° _____ ' _____ " (at centre of work)

UTM Zone: 9 EASTING: 446000 NORTHING: 6404000

OWNER(S): Firesteel Resources Inc.

MAILING ADDRESS: Suite 503 – 675 West Hastings Street, Vancouver, B.C., V6B 1N2

OPERATOR(S) [who paid for the work]: Lions Gate Metals Inc.

MAILING ADDRESS: Suite 880 – 609 Granville Street, Pacific Centre PO Box 10321, Vancouver, B.C. V7Y 1G5

REPORT KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude. **Do not use abbreviations or codes**)

Geochemistry, Geophysics

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

28283, 28259, 27563, 21901, 21889, 20689, 17316, 10736, 9556, 8481, 7517, 7418, 7375, 6511, 6203, 6124, 6093, 5739, 5703, 3128

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (in metric units)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic	26.275	518532, 572279, 572240, 572238, 572235	
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for ...)			
Soil	885	518532, 572279, 572240, 572238, 572235	
Silt			
Rock	8	518532, 572279, 572240, 572238, 572235	
Other	MMI 31	572238, 572240	
PROSPECTING (scale/area)			
PREPATORY / PHYSICAL			
Line/grid (km)			
Topo/Photogrammetric (scale, area)			
Legal Surveys (scale, area)			
Road, local access (km)/trail			
Trench (number/metres)			
Underground development (metres)			
Other			
TOTAL COST			\$180266.02

Assessment Report:

Geophysics and Geochemistry

ROK – Coyote Property

Lions Gate Metals Inc.

Mineral Titles Online Tenure Numbers: 572279, 518532, 572235, 572238, 572240

Iskut, British Columbia, Canada

Latitude N57° 47.4' Longitude W129° 53.4'

BCGS: 104H071, 081

NTS: 104H12, 13

Mining Division: Liard

September 2011

Claims Owned by Firesteel Resources Inc.

Prepared for

Lions Gate Metals Inc.

Suite 800 – 609 Granville Street

Vancouver, B.C., V7Y 1G5

Report Written By

A.W. Gourlay, P. Geo.

April 2012

The effective date of the exploration data is May 31, 2012

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3.0 Introduction

In August and September 2011 geochemistry surveys were performed by Lions Gate Metals Inc. on the ROK – Coyote claims (owned by Firesteel Resources Inc.), to extend historic copper in soil anomalies. A total of 8 rock samples, 885 soil samples and 31 mobile metal ion samples were collected. The exploration work was performed by Tahltan Northern Exploration Services. Anomalous copper and gold values were returned from both the soil and mobile metal ion samples, beyond the historic anomalies. Concurrent with the geochemistry surveys, a 26.275 line-kilometre ground magnetic survey was performed under contract by SJ Geophysics Ltd.

Additional soil and mobile metal ion sampling, and ground magnetic and IP surveys are recommended to further define the anomalies.

4.0 Property Description and Location

The ROK – Coyote property comprises 19 claims covering 6,890.57 hectares. (Table 1) The ROK – Coyote property is located in the Iskut Mining Division, in the Stikine River region of north-western British Columbia. The property is situated approximately 200 kilometres north of Stewart, B.C., with the closest populated centre being Iskut Village, located about 5 kilometres to the northwest, along Highway 37. The centre of the property is at approximately UTM co-ordinates 446000 East and 6404000 North.

Table 1: Summary of Mineral Tenures

Tenure Number	Claim Name	Area (HA)	Good To Date	Annual Work Due @\$8/ha	Annual Fees	Record Date	Map Number
392226	ROK 1	400.00	2014/Apr/30	\$3,200.00	\$160.00	2002/mar/06	104H071
405280	COYOTE	225.00	2014/Apr/30	\$1,800.00	\$90.00	2003/sep/05	104H071
518532		949.04	2014/Apr/30	\$7,592.34	\$379.62	2005/Jul/29	104H071
518538	ISK1	414.07	2014/Apr/30	\$3,312.54	\$165.63	2005/Jul/29	104H071
518539	ISK2	51.79	2014/Apr/30	\$414.28	\$20.71	2005/Jul/29	104H071
519707	MC 2	414.72	2014/Apr/30	\$3,317.78	\$165.89	2005/sep/06	104H071
519708	MC 3	86.40	2014/Apr/30	\$691.18	\$34.56	2005/sep/06	104H071
521519	COYOTE GAP	293.74	2014/Apr/30	\$2,349.94	\$117.50	2005/Oct/26	104H071
527052	COYOTES 2	207.30	2014/Apr/30	\$1,658.37	\$82.92	2006/Feb/03	104H071
527053		967.06	2014/Apr/30	\$7,736.48	\$386.82	2006/Feb/03	104H071
527054		501.06	2014/Apr/30	\$4,008.48	\$200.42	2006/Feb/03	104H071
557613	COPPER ROAD	224.39	2014/Apr/30	\$1,795.13	\$89.76	2007/Apr/25	104H071
572093	ROK 7	241.58	2014/Apr/30	\$1,932.60	\$96.63	2007/Dec/18	104H071
572230	ROK 8	34.49	2014/Apr/30	\$275.93	\$13.80	2007/Dec/20	104H071
572235		413.80	2014/Apr/30	\$3,310.43	\$165.52	2007/Dec/20	104H071
572238		413.80	2014/Apr/30	\$3,310.36	\$165.52	2007/Dec/20	104H071
572240		517.54	2014/Apr/30	\$4,140.29	\$207.01	2007/Dec/20	104H071
572279	ROK 9	517.54	2014/Apr/30	\$4,140.32	\$207.02	2007/Dec/20	104H071
660903	COYOTE-SLIVER	17.27	2014/Apr/30	\$69.06	\$6.91	2009/Oct/27	104H071

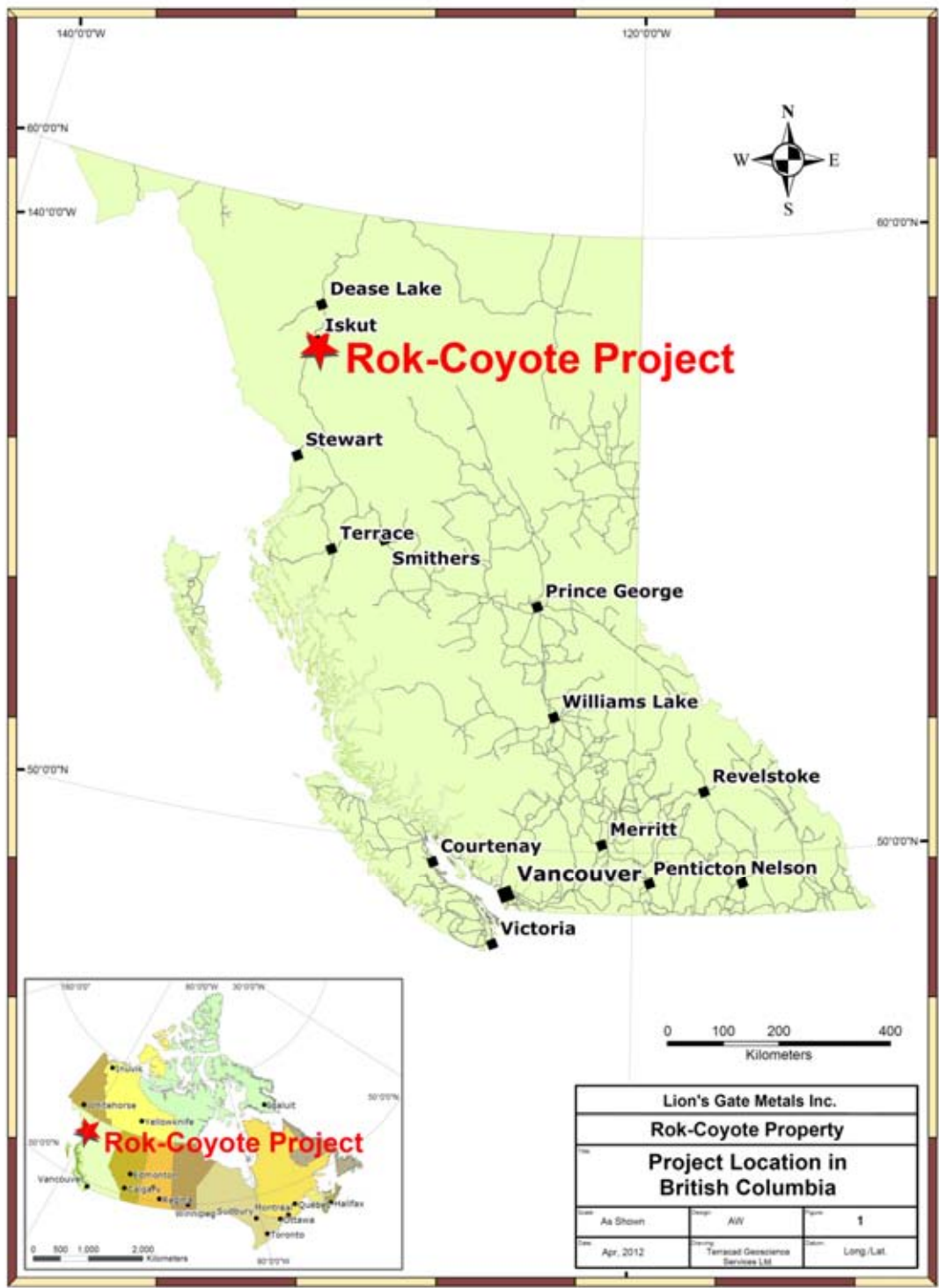


Figure 1: Project Location in British Columbia

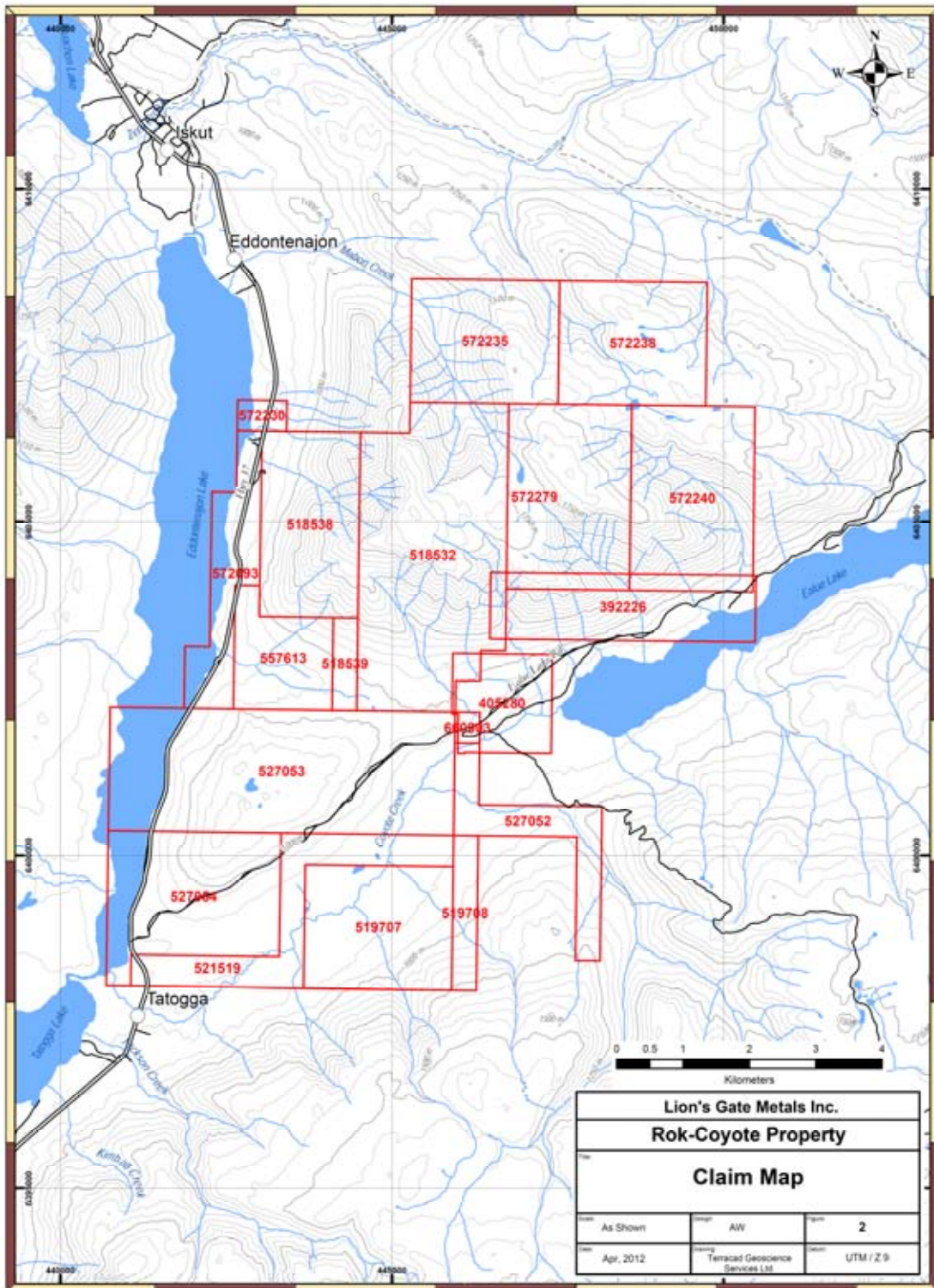


Figure 2: Claim Map

5.0 Accessibility, Climate, Local Resources, Infrastructure and Physiography

5.1 Access

Access to the property is via Highway 37, north from Smithers, B.C. The lower areas of the property can be accessed by road and by foot, while the upper areas are accessed by helicopter.

5.2 Climate

The climate in the area is northern temperate with moderately warm summer and cold dry winters. Typical daytime temperatures range from mid to upper 20°C in the summer, and -20°C to -30°C in the winter. Thick accumulations of snow are common in winter.

Fieldwork can normally start at lower elevations in early June and at the upper elevations by July. Cold weather, winds and snow squalls make field work difficult past mid-September.

5.3 Local Resources

Accommodation, meals, telephone, FAX and e-mail are available at the Tatogga Lake Lodge, southwest of the property, and at motels at Iskut Village, northwest of the property. At both localities there are helicopter staging areas, covered storage and local expediting services available.

A nursing station, grocery store, gasoline and the local Iskut Band Office are located in Iskut Village.

Both skilled and unskilled labour is available in Iskut Village, Dease Lake and Telegraph Creek.

5.4 Infrastructure

In addition to Highway 37, which passes along the western edge of the property, a railway roadbed including many of the required bridges was constructed about 25 years ago, about 15 kilometres east of the property. At the present time electric power is provided by diesel generation plant at Iskut Village. Construction of the Highway 37 powerline has been approved but when the electrical grid will reach Iskut Village is unknown.

5.5 Physiography

The property covers the top and sides of the Ehahcezetle "Massif" and extends across low ground to the south and west in the area of Ealue Lake and Coyote Creek. Topography varies from low swampy ground to the south, to fairly subdued with gentle rolling hills at the top of Ehahcezetle Mountain, to very rugged with steep slopes and cliffs along the flanks of the massif. Elevations on the property vary from about 800 metres in the valley of Coyote Creek to about 1,955 metres at the summit of Ehahcezetle Mountain.

Vegetation is typical of north-western B.C., with relatively dense forest at lower elevations, progressing upwards through aspens and scrub conifers to tree line at approximately 1,370 metres. Grasses, alpine flowers, dwarf birch and willow cover the upper areas of the property.

6.0 History

The ROK – Coyote property has been intermittently explored since the late 1960's. Work on the property over the years has included widespread geological mapping and geochemical surveys, grid based ground magnetic, induced polarization (IP) and very low frequency electro-magnetic (VLF-EM) geophysical surveys. Exploration programs were completed in 1976 and 1980 by Texasgulf Canada Ltd., and in 1987, 1990 and 1991 by Consolidated Carina Resources Ltd. and Manchester Resource Corp. Work in 1991 included 18 trenches totaling 1,184 metres in length, percussion drilling and 18 diamond drill holes totaling 1,792 metres. In 2004 Firesteel Resources Inc. completed a small geochemistry program, collecting 48 soil samples and 33 rock samples in the area of the Coyote Showing. In 2005, Firesteel Resources Inc. contracted Aeroquest Ltd. to fly airborne radiometric and magnetic surveys over two small grids within the ROK-Coyote property; one covered the Rok target on Ehahcezetle Mountain and the second covered an area northwest of the Coyote Showing. In 2009, Brett Resources Inc., on behalf of Firesteel Resources Inc. completed ground magnetic, IP, soil and rock sampling on the Coyote grid and area.

7.0 Geological Setting

The ROK – Coyote property covers one of a large number of porphyry copper-gold prospects contained within or adjacent to alkalic to sub-alkalic sub-volcanic intrusive complexes in coeval volcanic and sedimentary rocks of late Triassic and early Jurassic age. A complex pile of intermediate volcanic and related sedimentary rocks belonging to the late Triassic Stuhini Group underlie the property. Lying within and apparently conformable with the volcanic rocks is a relatively thin succession of tuffaceous clastic rocks and interbedded limestone. Coarse red conglomerates and related flows, probably part of the Jurassic Hazelton Group or possibly the early Jurassic Toodoggone Volcanics, form a cap on the highest part of the property. Several irregular stocks of alkalic to sub-alkalic monzonite have intruded the volcanic package. These are likely contemporaneous and coeval with the Stuhini volcanic pile. Sulphide mineralization is dominantly chalcopyrite and pyrite. These sulphides are related to alteration and quartz veining which, in many places, form intense stockworks.

8.0 Mineralization

The principle mineralization type on the ROK – Coyote property is copper-gold porphyry of the quartz deficient, alkaline affinity associated with the latest Triassic or earliest Jurassic diorite or monzodiorite to monzonite stocks, dikes and sills. This consists of chalcopyrite, rare bornite, magnetite and some pyrite in quartz stockworks, on fractures and as fine disseminations. Locally, the quartz veining resembles "sheeted veining", grading outward through less and less intense veining. At its strongest development, the stockworking has produced a rock that is composed almost entirely of quartz and sulphides, with some small lenses of altered wallrock. The stockworks may be cut by later quartz-calcite veins up to 2

centimetres wide, some carrying pyrite and hematite. In areas of less intense stockworking, the quartz veinlets are generally less than 2 centimetres wide and often contain a thin core of sulphides.

9.0 Exploration

From August 27 to September 13 a crew of 13 workers collected 8 rock samples, 885 soil samples and 31 mobile metal ion (MMI) samples. The objective of the soil sampling program was to close off historic copper in soil anomalies defined by previous operators. The grid establishment and sampling program was completed under contract by Tahltan Northern Exploration Services Ltd., of Smithers B.C.

9.1 Geochemistry

Samples on the 2011 program were located using a Garmin Global Positioning System (GPS), and sample co-ordinates were saved in the GPS unit. The physical sample location was marked with aluminum tags scribed with a uniquely identifying sample number as well as flagging tape. A tag containing this uniquely identifying sample was also placed in the bag with the sample medium.

Rock sampling was performed over all of the targets at irregular spacing when a rock sample of interest was noticed. Samples were collected using an Eastwing rock hammer and placed into plastic ore bags. Rock sample descriptions are in Appendix 3.

Soil samples were located at 25m and 50m spacing on lines which were either 50m or 100m apart. Samples were collected with a shovel by discarding surface material and placing "B horizon" material in kraft sample bags once it was reached. No notes or descriptions were taken for the soil samples.

The MMI samples were collected at 25m, 50m or 100m spacing on two lines which were 100m apart. The samples were collected between 10 and 25 cm depth. Each sample is a composite" taken over this 15 cm interval. Samples were collected using a bare steel spade and screened through a 30 cm plastic garden sieve with -5mm apertures. Samples were placed in numbered plastic snap seal bags. No notes or descriptions were taken for the MMI samples.

Between September 2 and 9, 2011, 26.275 line-kilometres of ground magnetic survey were completed under contract by SJ Geophysics Ltd. The details of the survey and the results of this work are presented in Appendix 5.

9.2 Sample Preparation, Analysis and Security

Rock samples were placed in thick plastic sample bags immediately after collection at their sample site, a tag with a unique sample number was also placed in the bag. The sample bag was then sealed with a plastic zap strap. This unique number was written on the bag with permanent marker, as well as on an aluminum tag which was left at the sample site and marked

with flagging tape. Coordinates and descriptions were linked to this unique sample number. Soil samples were placed in Kraft paper bags; the above steps were then taken.

Samples were then placed in rice bags depending on their type and numeric sequence, sealed with plastic “zap straps” and taken to Acme Analytical.

The samples were sent to Acme Laboratories in Smithers, BC for sample preparation and then on to Vancouver, BC for assay. Acme Laboratories has achieved an accreditation of ISO 9001:2000. The author is not aware of any relationship between Acme Analytical Laboratories and the issuer.

Upon receipt at Acme Laboratories, rock samples were dried, crushed and pulverized. The pulverized samples were split down to 0.25g and treated to a 4-Acid digestion by being heated in HNO₃-HClO₄-HF to fuming and taken to dryness. The residue was dissolved in HCl and solutions were then analyzed by ICP-MS for 41 elements including Cu, Mo & Ag to low detection limits. Gold analyses were performed with a Fire Assay of a 30g split with a 0.005g/t detection limit.

After delivery to the Acme Laboratories, soil samples were dried at 60 degrees Celsius, 100g was sieved to -80 mesh. Analysis consisted of a Hot Aqua Regia digestion on a 15g split with 53 element ICP-Mass Spec analyses. Lower detection limits include 0.01 ppm for Mo, 0.01 ppm for Cu, 2 ppb for Ag and 0.2ppb for Au.

Acme provides a comprehensive in-house quality control using numerous blanks standards and pulp duplicates to test for any potential contamination.

The MMI samples were sent to the SGS Canada Inc. laboratory in North Vancouver, BC, where the samples were prepared using standard MMI procedures. SGS’ MMI technology uses proprietary extractants. The MMI-M5 method used is a new single multi-element leach. Measurement of the elements is by conventional ICP-MS.

10.0 Interpretation and Conclusions

The soil sampling extended the known areas of copper in soils but did not close off the anomalies. The MMI survey demonstrated that it may be a useful exploration tool in area of little or no soil cover.

The results of the ground magnetometer survey are inconclusive, since only a portion of the planned survey was completed.

11.0 Recommendations

A two phase exploration program is recommended for the ROK – Coyote property.

The objective of Phase 1 is drill target definition. Exploration will comprise additional soil sampling, geological mapping, approximately 250 line-kilometres of ground magnetic surveys and approximately 12 line kilometres of deep penetrating Induced Polarization surveys. The estimated cost of this exploration work is approximately \$421,000.

Subject to positive results from the phase 1 exploration, Phase 2 will be drill testing of the targets. The cost of Phase 2 has not yet been estimated.

12.0 References

Dupre, D.G. (2004), Assessment Report: Prospecting and Geochemical Program on the Coyote Property, Liard Mining Division, British Columbia, Canada

Mehner, D. and Travis, A. (2010), Assessment Report: Ground Magnetic, IP Geophysical Surveying and Soil and Rock Geochemistry Of the Coyote Grid and Area On the ROK – Coyote Property, 2009.

Peatfield, G.R. (2006) Technical Report On The ROK Copper-Gold Mineral Property, Ealue Lake Area, Liard Mining Division, British Columbia, Canada. Report prepared for Firesteel Resources Inc. (posted on SEDAR).

Pozza, Matt (2006A), Report on a Helicopter Borne Gamma Ray Spectrometer and Magnetic-Gradiometer Survey. Aeroquest Limited, Aeroquest Job #05039 RPK Property, Iskut Area British Columbia, NTS 104H

Pozza, Matt (2006B), Report on a Helicopter Borne Gamma Ray Spectrometer and Magnetic-Gradiometer Survey. Aeroquest Limited, Aeroquest Job #05039 RPK Property, Iskut Area British Columbia, NTS 104H

Appendix 1: Statement of Qualifications

Andrew W. Gourlay

1037 Grafton Road

Bowen Island, B.C.

V0N 1G2

I, Andrew W. Gourlay, P. Geo., P. Geol., F.G.A.C. do hereby certify that:

1. I currently reside at: 1037 Grafton Road
Bowen Island, B.C.
V0N 1G0
2. I am currently employed as an independent Consulting Geologist.
3. I graduated with a Bachelor of Science (Honours) degree from the University of British Columbia in 1977.
4. I am a Professional Geoscientist registered with the Association of Professional Engineers and Geoscientists of British Columbia, a Professional Geologist registered with The Association of Professional Engineers Geologists and Geophysicists of Alberta and a Fellow of the Geological Association of Canada.
5. I have worked as a geologist for over 35 years since my graduation from university.
6. I planned and supervised the 2011 Geophysics and Geochemistry Program at the ROK – Coyote Property.

Dated in Vancouver, B.C. this 31st day of May, 2011.




Andrew W. Gourlay, P. Geo.

Appendix 2: Statement of Expenditures

Exploration Work type	Comment	Days		Totals
Personnel (Name)* / Position	Field Days (list actual days)	Days	Rate	Subtotal*
Steven Oxtoby/Labourer	27-28 August 2011	2.0	\$350.00	\$700.00
Andre Perrault	27-31 August 2011	5.0	\$350.00	\$1,750.00
Dale Johnson/Camp Maintenance	28-31 August 2011	4.0	\$500.00	\$2,000.00
Simon Suratt/Camp Maintenance	30-31 August 1-12 September 2011	14.0	\$500.00	\$7,000.00
Trevor Pierre/Cook/Level 3 First Aid	1-12 September 2011	12.0	\$550.00	\$6,600.00
Aaron Louie/Field Assistant	31 August 1-10 September 2011	11.0	\$350.00	\$3,850.00
Kody Carlick/Field Assistant	31 August 1-10 September 2011	11.0	\$350.00	\$3,850.00
Danny Henryu/Field/Bear Watch	31 August 1-10 September 2011	11.0	\$400.00	\$4,400.00
Thomas Chief/Field Assistant	31 August 1-10 September 2011	11.0	\$350.00	\$3,850.00
Cameron Westle/Expediter Assistant	6-13 September 2011	8.0	\$350.00	\$2,800.00
Rod Johnson/Expediter	4-13 September 2011	10.0	\$400.00	\$4,000.00
Floyd Louie/Field/Bear Watch	1-2 September 2011	2.0	\$400.00	\$800.00
Mathias Westphal/Geologist	31 August 1-10 September 2011	11.0	\$700.00	\$7,700.00
				\$49,300.00
Office Studies	List Personnel (note - Office only, do not include field days)			\$49,300.00
Literature search and Database compilation	Lorie Farrell/Project Manager	11.0	\$550.00	\$6,050.00
Report preparation	25 July - 26 August 2011			
	Terracad Drafting	12hr	\$72.80	\$873.60
	A. Gourlay/VP Exploration	5.0	\$750.00	\$3,750.00
	Office Overhead			\$23,500.00
				\$34,173.60
Ground geophysics	Line Kilometres / Enter total amount invoiced list personnel			\$34,173.60
Magnetics	26.275/SJ Geophysics Ltd.			\$14,363.90
				\$14,363.90
Geochemical Surveying	Number of Samples	No.	Rate	Subtotal
Soil	885		\$29.93	\$26,488.30
Rock	8		\$40.30	\$322.38
Other (specify)	MMI: 31 samples		\$0.00	\$0.00
				\$26,810.68
Transportation		No.	Rate	Subtotal
truck rental		27.00	\$200.00	\$5,400.00
Helicopter (hours)	Pacific Western Helicopters	13.0hr	\$1,546/hr	\$20,098.00
Fuel (litres/hour)		1774L	\$1.64/L	\$2,909.36
		414L	\$1.79/L	\$714.06
Other	15% Admin Fee on PWH			\$3,309.96
				\$32,431.38
Accommodation & Food	Rates per day			
Hotel	Iskut Motor Inn, Aspen Motor Inn		\$0.00	\$2,543.39
	Northway Motor Inn			
Camp	\$1,500/week	2.00	\$1,500.00	\$3,000.00
	Tyler's Towing (Mob/Demob)		\$7,650.72	\$7,650.72

Meals	BV Wholesale, Kluachon Centre Groceries	\$2,603.83	\$2,604.83	
			\$15,798.94	\$15,798.94
Miscellaneous				
Telephone	Totem Audio	\$124.14	\$124.14	
Other (Specify)	Smithers Lumberyard	\$3,164.57	\$3,164.57	
	Evergreen Supplies	\$241.99	\$241.99	
	David West	\$294.40	\$294.40	
	Charges to Expediter	\$3,562.42	\$3,562.42	
			\$7,387.52	\$7,387.52
<i>TOTAL Expenditures</i>				\$180,266.02

Appendix 3: Rock Descriptions and Sample Locations

Note: UTM in WGS 84			
ROK #	E	N	Notes
1			maroon xtal tuff, fsp <1cm, some lapilli <1cm
2	447190	6406736	maroon-gray-green xtal tuff w/ lapilli, fsp <2mm, outcrop 3m cliff in gully trending NE
3	447395	6406948	several float bolders <40cm of conglomerate w/ rounded pebbles <1cm black, red, white; one bolder w/ qtz vein <1.5cm; in gully w/ fg gray tuff outcrop
4	447413	6407118	floats in gully: conglomerate w/ pebbles <2cm; mg granite porphyry, beige w/ fsp laths <3mm and qtz xtals <2mm; fg gray tuff
5	447383	6407143	fg gray tuff
6	447299	6407053	fg gray tuff w/ deformed qtz veins <8mm approx E-W
7	447478	6405866	gray green xtal tuff w/ lapilli <2mm on top of ridge
8	447603	6405601	old drill pad on slope, gray green xtal tuff w/ qtz breccia <10cm, no py
9	447745	6406128	qtz crackles in bolders, some qtz breccia in floats
10	447491	6406605	old claim post, floats w/ qtz crackles, vuggy qtz, qtz breccia; fg green tuff w/ pale brown fsp <1mm, chl-ep weathered clasts/lapilli; floats <10cm of white, brittle broken barite(?) healed w/ qtz(?), brown weathered fillings grt(?), very common on upper part of the examined part of the property almost ubiquitous on the ridge in the barren tuff unit, and also found at staging down at Iskut Motor Inn. No outcrop found though.
11	447643	6406484	fg green tuff w/ pale brown fsp <1mm, chl-ep weathered clasts/lapilli; floats of maroon tuff w/ similar features, plus py
12	447581	6406659	small flat area w/ water source marking boundary between tuff units
13	447561	6406761	fg gray tuff
14	447502	6406949	fg green maroon tuff, frost rounds w/ <10cm edgy pebbles
15	447546	6407052	beige granite porphyr, fsp laths <8mm, qtz <5mm, 10x3m boulders, strike @260 E-W; host fg green tuff
16	447605	6407113	talus w/ conglomerate <50cm, granite porphyr, fg green tuff, quartzite
17	447660	6407177	water source on little plateau below talus, humps and steps on the slopes of hills
18	447630	6407282	another sequence of fg green-maroon tuff below plateau
19	447775	6407270	fg green tuff; major fractures at 120/80, 122/80, 120/90
20	447804	6407177	fg green tuff w/edgy clasts of gray tuff w/ red coatings, fg matrix w/ py; talus above outcrop to the South w/ granite porphyr floats and qtz veins and crackles in fg green tuff floats, plateau on top of outcrop
21	447772	6407082	fg green tuff w/ qtz breccia; 3m wide and 100m long trench @158 SSW; outcrop above talus

22	447727	6406771	floats in W slope of creek: granite porphyr and qtz breccia within fg green tuff bolder 20x20x40 cm; fg green maroon tuff; dark gray hornfels; granite porphyr; quartzite; fg green tuff w/ qtz veins
23	447798	6406122	maroon xtal tuff w/ gray lapilli; qtz vein crackles in floats
24	447900	6406500	qtz veins and crackles in fg green tuff floats; vuggy qtz float <5cm
25	447870	6406475	old trench 20m downhill (N)
26	447794	6406414	point below cliff of green xtal tuff, fsp <1mm brown-beige weathered
27	447893	6406697	boundary in tuff unit, water source
28	447910	6406735	granite porphyr in frost rounds hosted by fg green tuff bolder sticking out on top of hill
29	447923	6406720	granite porphyr bolders sticking out of ground
30	447953	6406699	granite porphyr bolder on top of ridge
31	447978	6406683	contact granite porphyr and fg green tuff
32	448010	6406706	fg gray qtz+/-fsp tuff w/ chl-ep alt pods
33	448000	6406830	fg dark gray qtz-fsp tuff, some qtz and fsp xtals <1mm, hematite stained pods <1cm, +/-ep
			start of a series of outcrops along the northern slope of a creek
34	448056	6406923	fg gray green sst(?), matrix w/ qtz 1 to 10mm, qtz crackles; elev. 1650m
35	448068	6406919	fg gray green sst(?), matrix w/some pink fsp <1mm, qtz veins and crackles, highly fractured
			216/50 to 203/41, at 2cm spacing, 90/82 w/hem,
			50/67, 60/90, 40/85, w/ hem
36	448089	6406913	coarse conglomerate, pebbles 1-7cm, mainly rounded, some big pebbles subrounded, qtz crackles; elev. 1633m
			54/90, 36/30, 50/30, 117/85, 352/73, 338/60
37	448100	6406916	fg gray sst(?), highly fractured, possible fault
			228/85, 232/78, 290/85, 342/81, 122/36, 130/90
38	448113	6406912	fg gray sst(?); elev. 1627m
39	448129	6406913	fg gray tuff, matrix stained w/hem, +/-qtz-fsp, ep pods
40	448136	6406909	conglomerate w/ pebbles <2cm rounded, some <5cm, subrounded, forms small cliff in creek 1-2m; end of outcrop sequence along the creek
41	448136	6406973	gray maroon tuff w/ fsp <1mm, boulder on top of hill N of creek
42	448260	6406935	fg dark gray matrix, qtz rich, quartzite-shale(?)
43	448311	6406948	fg light gray sst forms narrow in creek
44	448328	6406950	fg dark gray matrix, qtz rich, quartzite-shale(?)
45	448464	6407001	floats of fg dark gray shale-hornfels and gray green tuff
46	448328	6406983	fg dark gray to black shale
47	448540	6406939	fg dark gray green sst(?) w/ qtz-hem clasts
48	448541	6406910	fg black shale

49	448503	6406665	coarse grained white gray marble in contact w/ green sst raft @217/90 both units are in contact w/gray green xtal tuff, fsp <2mm @ 5/80 striking E-W
50	448590	6406642	end of marble cliff, contact to N gray green tuff
51	448695	6406560	contact of marble (S) and conglomerate (N), a coarse grained gray sst w/ weathered out clasts
52	448863	6406439	conglomerate at peak of ridge
53	448783	6406454	conglomerate at peak of ridge parallel to the S
54	446536	6405606	red stained (py) fg green xtal tuff at slope of the creek
55	446682	6405162	fg gray tuff on top of ridge
			Rock Samples taken from gossan
sample #	Easting	Northing	fg gray tuff w/ diss py, taken at the edge of the cliff
ROK 56A	446384	6405724	
ROK 56B	446384	6405724	
ROK 57	446401	6405702	
ROK 58	446418	6405692	
ROK 59	446313	6405622	
ROK 60	446515	6405612	
ROK 61	446540	6405618	
ROK 62	446558	6405642	
Abbreviations		qtz	quartz
		fsp	feldspar
		py	pyrite
		hem	hematite
		ep	epidot
		chl	chlorite
		fg	fine grained
		mg	medium grained
		sst	sandstone

Appendix 4: Soil Sample Locations

No	Sample	Type	Easting	Northing
1	R11-400	Soil	446000	6405651
2	R11-401	Soil	446301	6405773
3	R11-402	Soil	446000	6405625
4	R11-403	Soil	446301	6405749
5	R11-404	Soil	446000	6405600
6	R11-405	Soil	446300	6405725
7	R11-406	Soil	446000	6405575
8	R11-407	Soil	446300	6405700
9	R11-408	Soil	446000	6405550
10	R11-409	Soil	446299	6405675
11	R11-410	Soil	446000	6405525
12	R11-411	Soil		
13	R11-412	Soil	446000	6405500
14	R11-414	Soil	446000	6405475
15	R11-415	Soil	446301	6405625
16	R11-416	Soil	446000	6405450
17	R11-417	Soil	446301	6405600
18	R11-418	Soil	446100	6405300
19	R11-419	Soil	446299	6405575
20	R11-420	Soil	446099	6405325
21	R11-421	Soil	446300	6405550
22	R11-422	Soil	446100	6405350
23	R11-423	Soil	446299	6405802
24	R11-424	Soil	446100	6405375
25	R11-425	Soil	446324	6405810
26	R11-426	Soil	446100	6405400
27	R11-427	Soil	446350	6405774
28	R11-428	Soil	446100	6405425
29	R11-429	Soil	446363	6405748
30	R11-430	Soil	446100	6405451
31	R11-431	Soil	446373	6405729
32	R11-432	Soil	446100	6405475
33	R11-433	Soil	446349	6405703
34	R11-434	Soil	446100	6405500
35	R11-435	Soil	446350	6405675
36	R11-436	Soil	446100	6405526
37	R11-437	Soil	446350	6405625
38	R11-438	Soil	446100	6405550
39	R11-439	Soil	446351	6405600
40	R11-440	Soil	446100	6405575
41	R11-441	Soil	446350	6405575
42	R11-442	Soil	446100	6405600
43	R11-443	Soil	446351	6405549

44	R11-444	Soil	446101	6405625
45	R11-445	Soil	446350	6405525
46	R11-446	Soil	446100	6405650
47	R11-447	Soil	446349	6405499
48	R11-448	Soil	446100	6405675
49	R11-449	Soil	446350	6405474
50	R11-450	Soil	446200	6405700
51	R11-451	Soil	446350	6405449
52	R11-452	Soil	446200	6405675
53	R11-453	Soil	446350	6405424
54	R11-454	Soil	446200	6405650
55	R11-455	Soil	446350	6405400
56	R11-456	Soil	446201	6405625
57	R11-457	Soil	446349	6405375
58	R11-458	Soil	446200	6405600
59	R11-459	Soil	446350	6405350
60	R11-460	Soil	446200	6405575
61	R11-461	Soil	446350	6405325
62	R11-462	Soil	446200	6405550
63	R11-463	Soil	446351	6405300
64	R11-464	Soil	446200	6405525
65	R11-465	Soil	446350	6405275
66	R11-466	Soil	446200	6405500
67	R11-467	Soil	446350	6405249
68	R11-468	Soil	446200	6405475
69	R11-469	Soil	446350	6405225
70	R11-470	Soil	446200	6405450
71	R11-471	Soil	446400	6405225
72	R11-472	Soil	446199	6405450
73	R11-473	Soil	446400	6405250
74	R11-474	Soil	446200	6405425
75	R11-475	Soil	446401	6405275
76	R11-476	Soil	446200	6405400
77	R11-477	Soil	446400	6405299
78	R11-478	Soil	446251	6405400
79	R11-479	Soil	446400	6405325
80	R11-480	Soil	446250	6405426
81	R11-481	Soil	446401	6405349
82	R11-482	Soil	446250	6405450
83	R11-483	Soil	446400	6405375
84	R11-484	Soil	446249	6405476
85	R11-485	Soil	446401	6405400
86	R11-486	Soil	446250	6405499
87	R11-487	Soil		
88	R11-488	Soil	446250	6405524

89	R11-489	Soil	446400	6405450
90	R11-490	Soil	446250	6405549
91	R11-491	Soil	446400	6405475
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93	R11-493	Soil	446400	6405500
94	R11-494	Soil	446251	6405601
95	R11-495	Soil		
96	R11-496	Soil	446249	6405625
97	R11-497	Soil	446400	6405551
98	R11-498	Soil	446251	6405650
99	R11-499	Soil	446400	6405575
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101	R11-501	Soil		
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103	R11-503	Soil	446400	6405625
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105	R11-505	Soil	446650	6405675
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107	R11-507	Soil	446650	6405648
108	R11-508	Soil	446251	6405777
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111	R11-511	Soil	446650	6405599
112	R11-512	Soil	446450	6405651
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121	R11-521	Soil	446650	6405475
122	R11-522	Soil	446450	6405525
123	R11-523	Soil	446650	6405451
124	R11-524	Soil	446449	6405502
125	R11-525	Soil	446650	6405425
126	R11-526	Soil	446450	6405475
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129	R11-529	Soil	446651	6405376
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133	R11-533	Soil	446650	6405325

134	R11-534	Soil	446500	6405400
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137	R11-537	Soil	446649	6405274
138	R11-538	Soil	446500	6405450
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140	R11-540	Soil	446500	6405475
141	R11-541	Soil	446651	6405224
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145	R11-545	Soil	446650	6405150
146	R11-546	Soil	446500	6405550
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159	R11-559	Soil	446697	6405201
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163	R11-563	Soil	446700	6405250
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178	R11-578	Soil	446549	6405325

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183	R11-583	Soil	446700	6405500
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186	R11-586	Soil	446600	6405150
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223	R11-623	Soil	446300	6405299

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227	R11-627	Soil	446301	6405248
228	R11-628	Soil	446900	6404425
229	R11-629	Soil	446299	6405225
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233	R11-633	Soil	446300	6405175
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237	R11-637	Soil	447000	6404425
238	R11-638	Soil	446900	6404550
239	R11-639	Soil	447001	6404450
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253	R11-653	Soil	447000	6404624
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255	R11-655	Soil		
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262	R11-662	Soil	446900	6404826
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265	R11-665	Soil	446999	6404775
266	R11-666	Soil	446900	6404875
267	R11-667	Soil	447000	6404800
268	R11-668	Soil	446900	6404900

269	R11-669	Soil	447000	6404826
270	R11-670	Soil	446900	6404925
271	R11-671	Soil	447000	6404850
272	R11-672	Soil	446900	6404950
273	R11-673	Soil	447000	6404875
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277	R11-677	Soil	447000	6404924
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283	R11-683	Soil	446999	6405000
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289	R11-689	Soil	446999	6405074
290	R11-690	Soil	446900	6405175
291	R11-691	Soil	447001	6405100
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293	R11-693	Soil	447000	6405124
294	R11-694	Soil	446900	6405225
295	R11-695	Soil	447000	6405151
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312	R11-712	Soil	446900	6405450
313	R11-713	Soil	447001	6405351

314	R11-714	Soil	446900	6405475
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317	R11-717	Soil	447000	6405400
318	R11-718	Soil	446900	6405525
319	R11-719	Soil	447000	6405425
320	R11-720	Soil	446900	6405550
321	R11-721	Soil	447001	6405451
322	R11-722	Soil	446900	6405575
323	R11-723	Soil	447000	6405475
324	R11-724	Soil	446900	6405595
325	R11-725	Soil	447000	6405501
326	R11-726	Soil		
327	R11-727	Soil	447000	6405523
328	R11-728	Soil		
329	R11-729	Soil	447000	6405550
330	R11-730	Soil		
331	R11-731	Soil	447000	6405575
332	R11-732	Soil		
333	R11-733	Soil	447000	6405599
334	R11-734	Soil	446999	6405625
335	R11-735	Soil	446900	6405760
336	R11-736	Soil	447002	6405949
337	R11-737	Soil	447001	6405650
338	R11-738	Soil	446900	6405775
339	R11-739	Soil	447003	6405675
340	R11-740	Soil	446900	6405800
341	R11-741	Soil	447000	6405708
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344	R11-744	Soil	446900	6405825
345	R11-745	Soil	446999	6405750
346	R11-746	Soil	446900	6405850
347	R11-747	Soil	446999	6405776
348	R11-748	Soil	446900	6405875
349	R11-749	Soil	446998	6405800
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351	R11-751	Soil	447000	6405825
352	R11-752	Soil	446900	6405925
353	R11-753	Soil		
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355	R11-755	Soil	446998	6405874
356	R11-756	Soil	446899	6405975
357	R11-757	Soil	447000	6405900
358	R11-758	Soil	447400	6405349

359	R11-759	Soil		
360	R11-760	Soil	447400	6405375
361	R11-761	Soil		
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363	R11-763	Soil	447001	6406006
364	R11-764	Soil	447401	6405425
365	R11-765	Soil		
366	R11-766	Soil	447400	6405449
367	R11-767	Soil	446800	6405000
368	R11-768	Soil	447399	6405475
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371	R11-771	Soil	446800	6405050
372	R11-772	Soil	447399	6405526
373	R11-773	Soil	446799	6405075
374	R11-774	Soil	447400	6405550
375	R11-775	Soil	446800	6405099
376	R11-776	Soil	447400	6405575
377	R11-777	Soil	446800	6405125
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421	R11-836	Soil	446013	6405647
422	R11-838	Soil	446034	6405638
423	R11-840	Soil	446044	6405647
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425	R11-844	Soil	446078	6405672
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432	R11-858	Soil	446206	6405704
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436	R11-866	Soil	446218	6405757
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448	R11-890	Soil	446367	6405739

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452	R11-896	Soil	446441	6405687
453	R11-898	Soil	446454	6405672
454	R11-900	Soil	446473	6405661
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488	R11-934A	Soil		
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542	R11-1037	Soil		
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580	R11-1111	Soil	447100	6404676
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596	R11-1143	Soil		
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598	R11-1147	Soil	447100	6405100
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624	R11-1199	Soil	447099	6405750
625	R11-1201	Soil	447100	6405775
626	R11-1203	Soil		
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628	R11-1207	Soil	447100	6405849

629	R11-1209	Soil	447100	6405875
North Grid				
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2	R11-002	Soil	447400	6406496
3	R11-003	Soil	447293	6406526
4	R11-004	Soil	447401	6406525
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6	R11-006	Soil	447400	6406550
7	R11-007	Soil	447297	6406576
8	R11-008	Soil	447400	6406575
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15	R11-015	Soil	447236	6406675
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20	R11-020	Soil	447400	6406725
21	R11-021	Soil	447300	6406751
22	R11-022	Soil	447400	6406750
23	R11-023	Soil	447300	6406775
24	R11-024	Soil	447400	6406776
25	R11-025	Soil	447298	6406801
26	R11-026	Soil	447401	6406800
27	R11-027	Soil	447300	6406826
28	R11-028	Soil	447400	6406825
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36	R11-036	Soil	447402	6406927
37	R11-037	Soil	447302	6406950
38	R11-038	Soil	447401	6406496
39	R11-039	Soil	447294	6406974
40	R11-040	Soil	447400	6406975
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44	R11-044	Soil	447401	6407025
45	R11-045	Soil	447303	6407100
46	R11-046	Soil	447399	6407050
47	R11-047	Soil	447301	6407124
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	R11-051	Soil		
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	R11-053	Soil		
54	R11-054	Soil	447401	6407151
	R11-055			
56	R11-056	Soil	447400	6407175
	R11-057			
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	R11-059			
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66	R11-066	Soil	447400	6407300
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186	R11-186	Soil	447800	6406650
187	R11-187	Soil	447600	6406650
188	R11-188	Soil	447801	6406624
189	R11-189	Soil	447600	6406626
190	R11-190	Soil	447800	6406601
191	R11-191	Soil	447600	6406600
192	R11-192	Soil	447800	6406575
193	R11-193	Soil	447600	6406575
194	R11-194	Soil	447800	6406550
195	R11-195	Soil	447600	6406550
196	R11-196	Soil	447800	6406525
197	R11-197	Soil	447601	6406525
198	R11-198	Soil	447800	6406500
199	R11-199	Soil	447599	6406500
200	R11-200	Soil	448100	6406501
202	R11-202	Soil	448100	6406525
203	R11-203	Soil	447900	6406503
204	R11-204	Soil	448100	6406550
205	R11-205	Soil	447900	6406524
206	R11-206	Soil	448099	6406575
207	R11-207	Soil	447898	6406548
208	R11-208	Soil	448100	6406600
209	R11-209	Soil	447900	6406575
210	R11-210	Soil	448100	6406625
211	R11-211	Soil	447899	6406601
212	R11-212	Soil	448100	6406650
213	R11-213	Soil	447898	6406623
214	R11-214	Soil	448100	6406676
215	R11-215	Soil	447900	6406649
216	R11-216	Soil	448099	6406700
217	R11-217	Soil	447899	6406674
218	R11-218	Soil	448100	6406725
219	R11-219	Soil	447898	6406699
220	R11-220	Soil	448100	6406749
221	R11-221	Soil	447899	6406722
222	R11-222	Soil	448100	6406775
223	R11-223	Soil	447900	6406748

224	R11-224	Soil	448100	6406800
225	R11-225	Soil	447899	6406774
226	R11-226	Soil	448100	6406825
227	R11-227	Soil	447900	6406800
228	R11-228	Soil	448100	6406850
229	R11-229	Soil	447898	6406826
230	R11-230	Soil	448100	6406875
231	R11-231	Soil	447895	6406853
232	R11-232	Soil	448100	6406900
233	R11-233	Soil	447901	6406874
234	R11-234	Soil	448100	6406925
235	R11-235	Soil	447897	6406905
236	R11-236	Soil	448100	6406950
237	R11-237	Soil	447899	6406925
238	R11-238	Soil	448100	6406975
239	R11-239	Soil	447899	6406950
240	R11-240	Soil	448100	6407000
241	R11-241	Soil	447900	6406976
242	R11-242	Soil	448100	6407025
243	R11-243	Soil	447900	6407000
244	R11-244	Soil	448100	6407050
245	R11-245	Soil	447899	6407025
246	R11-246	Soil	448100	6407075
247	R11-247	Soil	447897	6407052
248	R11-248	Soil	448100	6407100
249	R11-249	Soil	447900	6407075
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252	R11-252	Soil	448100	6407149
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256	R11-256	Soil	448101	6407200
257	R11-257	Soil	447889	6407179
258	R11-258	Soil	448100	6407225
259	R11-259	Soil	447898	6407200
260	R11-260	Soil	448100	6407250
261	R11-261	Soil	447898	6407227
262	R11-262	Soil	448100	6407275
263	R11-263	Soil	447897	6407251
264	R11-264	Soil	448100	6407300
265	R11-265	Soil	447896	6407276
267	R11-267	Soil	447899	6407300
	R11-269			
271	R11-271	Soil	448001	6407274

273	R11-273	Soil	448002	6407249
	R11-275			
277	R11-277	Soil	448002	6407201
	R11-279			
	R11-281			
283	R11-283	Soil	448000	6407127
285	R11-285	Soil	448000	6407101
287	R11-287	Soil	447998	6407073
289	R11-289	Soil	447999	6407048
291	R11-291	Soil	448000	6407025
293	R11-293	Soil	448000	6407002
295	R11-295	Soil	447999	6406975
297	R11-297	Soil	448000	6406927

	R11-299			
301	R11-301	Soil	448000	6406876
303	R11-303	Soil	448001	6406847
305	R11-305	Soil	448000	6406820
307	R11-307	Soil	447998	6406798
309	R11-309	Soil	447999	6406775
311	R11-311	Soil	448000	6406751
313	R11-313	Soil	448000	6406724
315	R11-315	Soil	448000	6406698
317	R11-317	Soil	448000	6406675
319	R11-319	Soil	447999	6406652
321	R11-321	Soil	447997	6406625

Appendix 5: MMI Sample Locations

MMI		Grid	UTM				
Soil lines		Datum	WGS	84			
K+L							
	Name	Date	Time	E	N	Alt	
R11-	K310	04-Sep-11	3:34:07PM	448801	6406900	1587	m
R11-	K312	04-Sep-11	3:38:46PM	448800	6406875	1591	m
R11-	K314	04-Sep-11	3:43:13PM	448800	6406850	1590	m
R11-	K316	04-Sep-11	3:50:08PM	448801	6406825	1591	m
R11-	K318	04-Sep-11	3:54:11PM	448800	6406801	1587	m
R11-	K320	04-Sep-11	3:59:24PM	448800	6406775	1586	m
R11-	K322	04-Sep-11	4:03:50PM	448800	6406750	1583	m
R11-	K324	04-Sep-11	4:11:25PM	448801	6406727	1588	m
R11-	K326	04-Sep-11	4:16:28PM	448800	6406700	1586	m
R11-	K328	04-Sep-11	4:21:36PM	448800	6406675	1587	m
R11-	K332	04-Sep-11	4:27:28PM	448800	6406625	1589	m
R11-	K334	04-Sep-11	4:34:52PM	448800	6406594	1596	m
R11-	K340	04-Sep-11	4:42:57PM	448801	6406524	1625	m
R11-	K342	04-Sep-11	4:48:24PM	448801	6406500	1627	m
R11-	L226	04-Sep-11	1:34:08PM	448900	6406399	1626	m
R11-	L274	04-Sep-11	1:52:07PM	448900	6406500	1606	m
R11-	L278	04-Sep-11	2:01:42PM	448900	6406550	1593	m
R11-	L280	04-Sep-11	2:09:02PM	448900	6406576	1591	m
R11-	L282	04-Sep-11	2:13:54PM	448900	6406600	1589	m
R11-	L284	04-Sep-11	2:19:03PM	448899	6406625	1591	m
R11-	L286	04-Sep-11	2:24:07PM	448901	6406650	1594	m
R11-	L290	04-Sep-11	2:28:29PM	448900	6406675	1593	m
R11-	L292	04-Sep-11	2:33:28PM	448900	6406700	1591	m
R11-	L294	04-Sep-11	2:39:05PM	448900	6406724	1591	m
R11-	L296	04-Sep-11	2:43:56PM	448900	6406750	1594	m
R11-	L298	04-Sep-11	2:48:36PM	448900	6406775	1594	m
R11-	L300	04-Sep-11	2:55:52PM	448900	6406800	1594	m
R11-	L302	04-Sep-11	3:00:48PM	448900	6406825	1595	m
R11-	L304	04-Sep-11	3:04:59PM	448900	6406850	1595	m
R11-	L306	04-Sep-11	3:09:48PM	448900	6406875	1595	m
R11-	L308	04-Sep-11	3:15:20PM	448900	6406900	1597	m

Appendix 6: Magnetometer Survey on the ROK Grid on the ROK-Coyote Project; report prepared by SJ Geophysics Ltd.

LOGISTICS REPORT PREPARED

FOR

LION GATE METALS LIMITED

MAGNETOMETER SURVEY

ON THE

ROK GRID ON THE COYOTE PROJECT

ISKUT, BRITISH COLUMBIA, CANADA

LATITUDE: N57° 47.4' LONGITUDE: W129° 53.4'

BCGS: 104H071, 081

NTS: 104H12, 13

MINING ZONE: LIARD

SURVEY CONDUCTED BY SJ GEOPHYSICS LTD.

SEPTEMBER 2011

REPORT WRITTEN BY

LEE ZAYONCE

NOVEMBER 2011

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1. SURVEY DETAILS

SJ Geophysics Ltd. was contracted by Lion Gate Metals Limited to acquire geophysical data on their Coyote Project property. The following table provides a brief summary of the project.

Client	Lion Gate Metals Limited
Project Name	Coyote Project
Location	Grid Location: N57° 47.4' Longitude: W129° 53.4' UTM 447170E, 6405750N Nad83 Zone 9
Survey Type	Magnetometer
Number of Survey Lines	29
Total Line Kilometres	26.275 km
Dates	September 2 nd – September 9 th , 2011
Objective	SJ Geophysics was contracted to carry out a Magnetic survey with the purpose of providing a plan map of total magnetic intensity anomalies.

This logistical report summarizes the operational aspects of the survey and the survey methodologies used. This report does not discuss any interpretation of the results of the geophysical survey.

2. LOCATION AND ACCESS

The Coyote project is located in northern British Columbia, Canada (see Figure 1). The closest major town to the survey area is Iskut, which is approximately 5 km directly NW of the Coyote project. The project area can only be accessed from Iskut by an approximately 10 minute helicopter ride, (see Figure 2). The local flora mostly consisted of moss, sub alpine fir and small shrubs. The local fauna consisted of ptarmigans, marmots, mice, mountain goats and bears.



Figure 1: Overview map of the Coyote Project located in British Columbia.

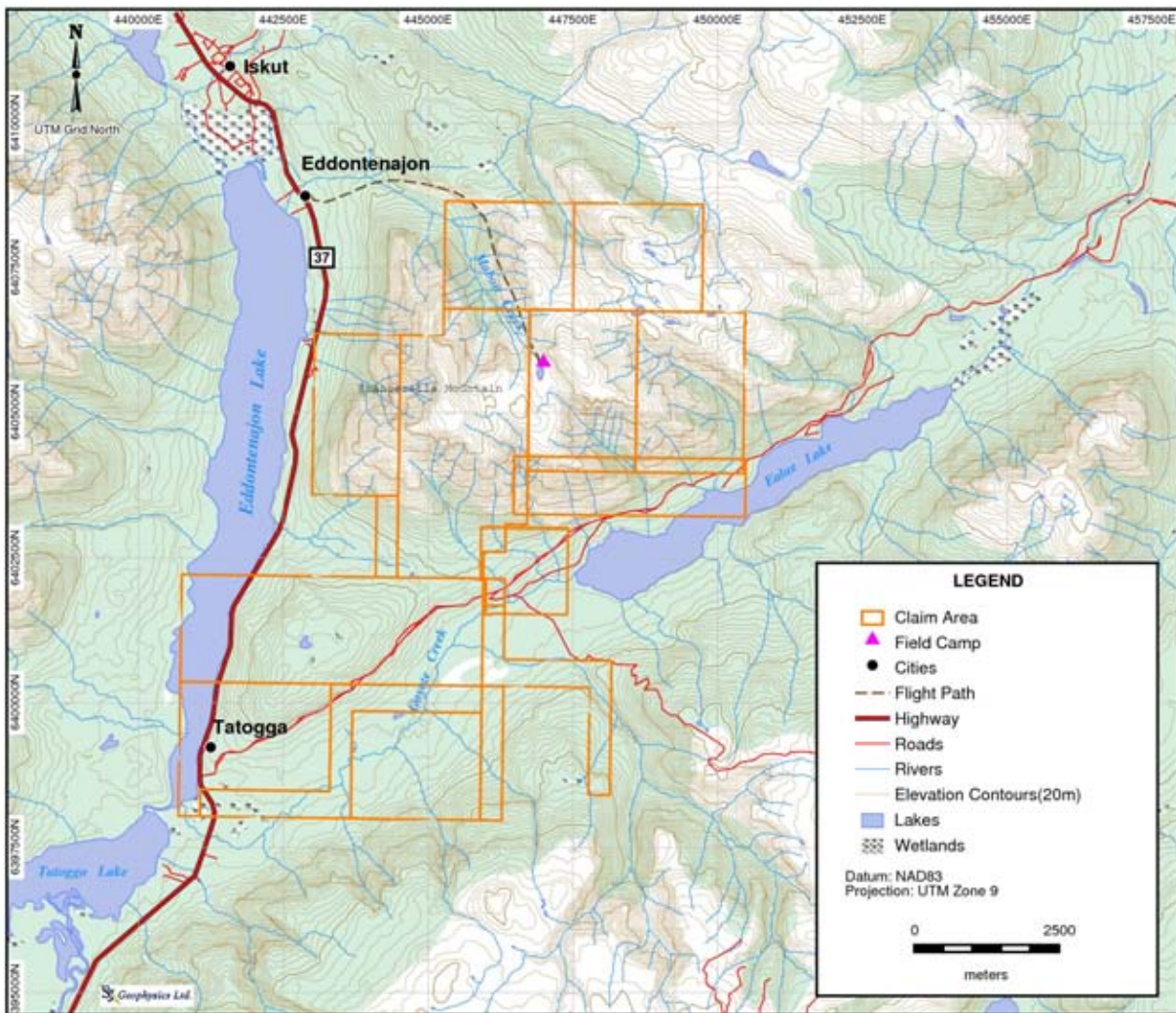


Figure 2: Location map for the Coyote Project showing towns and flight path.

3. GRID INFORMATION

Grid	Rok Grid
Number Of Lines	29
Survey Line Azimuth	0°
Line Spacing	100 m
Station Spacing	12.5 m
Elevation range	1572– 1900 m

Table 1: Grid parameters

The Rok grid consisted of 29 survey lines, spaced at 100 m with stations flagged and marked every 12.5 m. Lines were originally labelled alphabetically in the order surveyed. These labels were changed to a numerical sequence for ease of processing. See Figure 3 and Figure 4 and refer to Appendix A for a complete list of details for the Coyote Property grid.

All of the locational information was recorded by a local helper Simon Suratt, which included GPS control points and slope data. Control points were recorded with a Garmin GPSMap 62s handheld GPS in the UTM projection and Nad83 datum. Slope data was recorded with a Suunto handheld clinometer.

The grid was located on top of a steep mountain. Everyday the crew needed to hike from camp up this slope to get to the survey lines. The grid was fairly open, but conditions were slippery due to the snow. It was difficult at times to get around the grid on foot in order to accomplish the survey. Temperature at the Coyote project ranged from around -8°C at night up to 5°C during the day. Precipitation was moderate at this time of year so the conditions were wet.

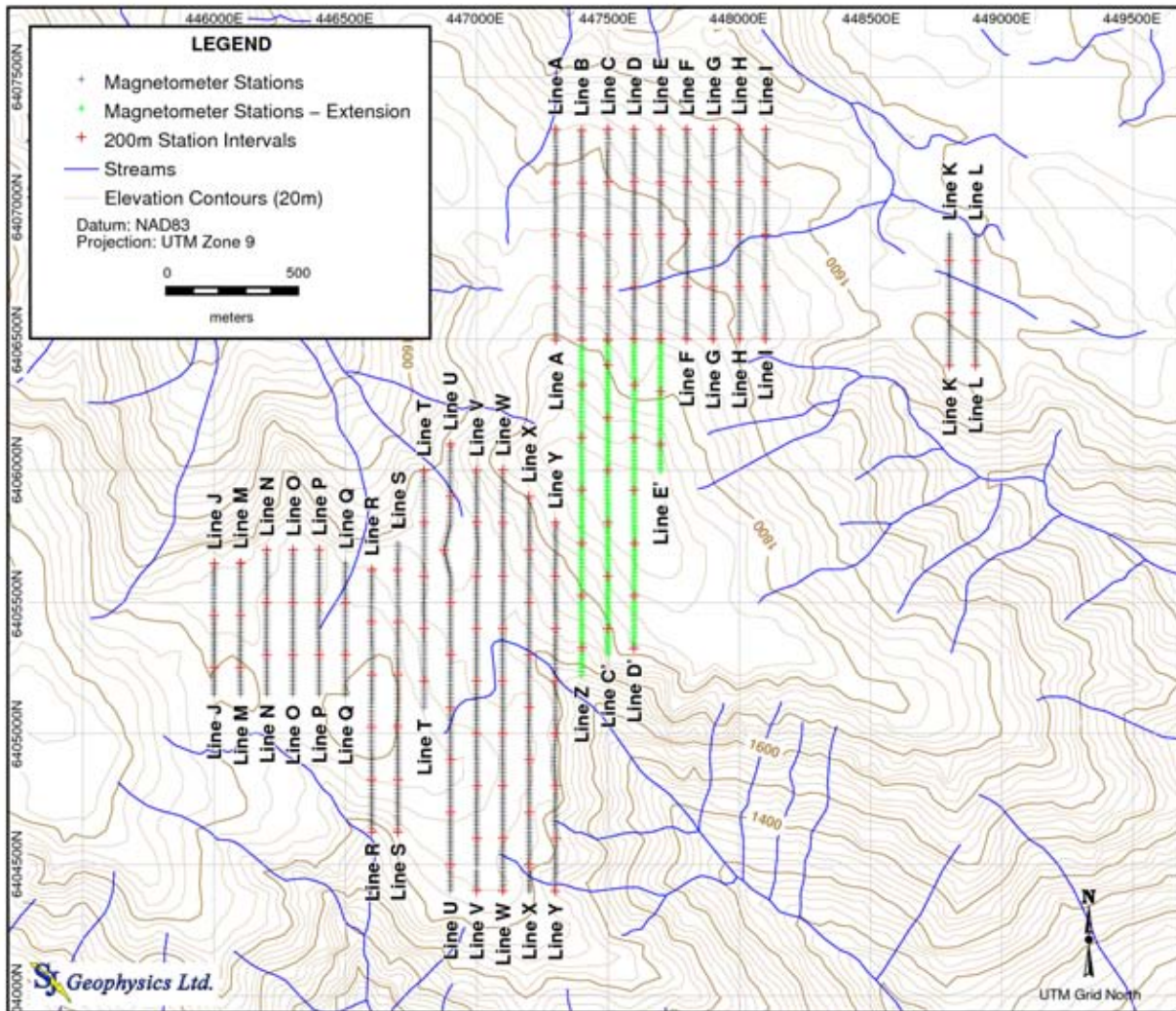


Figure 3: Grid Map showing the magnetic survey area for the Rok grid with alphabetical line labelling.

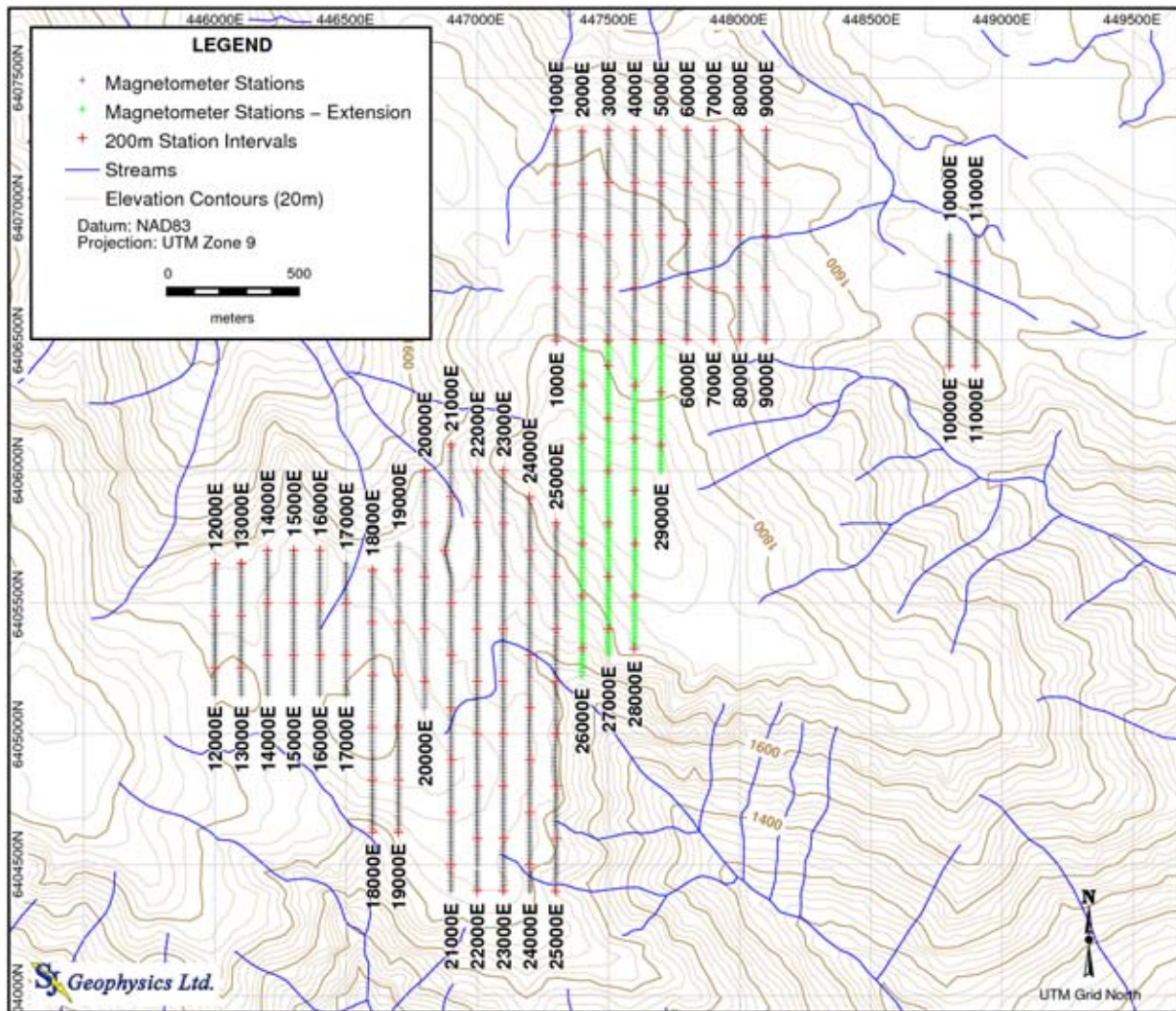


Figure 4: Grid Map showing the magnetic survey area for the Rok grid with numeric line labelling.

4. FIELD WORK AND INSTRUMENTATION

4.1. Field Logistics

An SJ Geophysics field crew typically consists field geophysicists and/or technicians to oversee all operational aspects including field logistics, data acquisition and initial field data quality control. On the Coyote project the SJ Geophysics crew consisted of Morgan Bezembinder (Field Technician). One local helper, Simon Suratt, was hired by the client to assist the SJ Geophysics crew in the day-to-day operation of the survey.

The SJ Geophysics crew arrived at the Coyote project on the morning of September 1, 2011 and departed on September 10th, 2011. The geophysical crew assisted with the construction and packing up of camp, therefore no magnetic production occurred on the first and last day on site.

<i>Crew Member Name</i>	<i>Role</i>	<i>Dates on Site</i>
Morgan Bezembinder	Field Technician	September 1 st to September 10 th , 2011
Simon Suratt	Helper	September 1 st to September 10 th , 2011

Table 2: Details of the SJ Geophysics crew on site

The SJ Geophysics crew was accommodated by the client at a fly camp close to the grid.

4.2. Logistical Challenges

Surveying on a mountain top in early September was tough. This area was moss covered with a layer of snow on top. Extra care needed to be taken when hiking the grid. Some lines encountered cliffs which needed to be navigated around. Other lines need to be adjusted slightly due to water features.

4.3. Survey Parameters and Instrumentation

To acquire the magnetometer survey data, the GEM 19 Overhauser Magnetometer was used. The specifications of this instrument is listed in Appendix B.

For this magnetometer survey a stationary base unit was used to record the diurnal variation in the total magnetic field at 20 second intervals. The mobile units, known as rovers, recorded the total magnetic field every 12.5 m along the grid survey lines. Calibration measurements were taken by the rover units at the start and end of each day to account for instrument drift.

5. *GEOPHYSICAL TECHNIQUES*

5.1 *Magnetic Survey Method*

Magnetic intensity measurements are taken along survey traverses (normally on a regular grid) and are used to identify metallic mineralization related to magnetic materials in the ground (e.g., magnetite and/or pyrrhotite). Magnetic data are also used as a mapping tool to distinguish rock types and to identify faults, bedding, structure and alteration zones. Line and station intervals are usually determined by the size and depth of the exploration targets.

The most common technique used in mineral exploration is to measure just the amplitude component using an overhauser magnetometer. The instrument digitally records the survey line, station, total magnetic field and time of day at each station. After each day of surveying, data are downloaded to a computer for archiving and further processing.

The earth's magnetic field is continually changing (diurnal variations) so field measurements are calibrated to these variations. The most accurate technique is to establish a stationary base station magnetometer to continually monitor and record the magnetic field over the course of a day. The base station and field magnetometers are synchronized on the basis of time and computer software is used to correct the field data for the diurnal variations.

6. *QUALITY ASSURANCE*

6.1. *Locations*

Good quality survey location data is crucial to successful analysis and interpretation of the collected geophysical data. The quality of the location data for this survey is generally high thanks to good satellite reception and open terrain. GPS measurements (control points) were obtained for nearly each survey station. The control points missed were interpolated using recorded slope percentage.

6.2. Magnetometer Data

All magnetometer data is run through an in-house quality control sequence to ensure the cleanest magnetic data possible. Space weather is monitored to recognize non-terrestrial influences on the data. Magnetic calibration points are measured at the beginning and the end of each survey day. A diurnal correction is also applied to all the survey data. Prior to gridding, a stacked profile of the measured magnetic intensity is plotted. Non-natural large-magnitude spikes in the magnetic data are then either removed by hand or filtered. Following these quality control steps, magnetic data is prepared for gridding and mapping.

Respectfully submitted,
per SJ Geophysics Ltd.

Lee Zayonce

APPENDIX A : SURVEY SUMMARY TABLE**Rok Grid**

<i>Line</i>	<i>Series</i>	<i>Type</i>	<i>Start Station</i>	<i>End Station</i>	<i>Survey Length</i>
1000	E	Mag	0	800	800m
2000	E	Mag	0	800	800m
3000	E	Mag	0	800	800m
4000	E	Mag	0	800	800m
5000	E	Mag	0	800	800m
6000	E	Mag	0	800	800m
7000	E	Mag	0	800	800m
8000	E	Mag	0	800	800m
9000	E	Mag	0	800	800m
10000	E	Mag	0	500	500m
11000	E	Mag	0	500	500m
12000	E	Mag	0	500	500m
13000	E	Mag	0	500	500m
14000	E	Mag	0	550	550m
15000	E	Mag	0	550	550m
16000	E	Mag	0	550	550m
17000	E	Mag	50	550	500m
18000	E	Mag	0	1000	1000m
19000	E	Mag	-100	1000	1100m
20000	E	Mag	0	900	900m
21000	E	Mag	0	1700	1700m
22000	E	Mag	0	1600	1600m
23000	E	Mag	0	1600	1600m

<i>Line</i>	<i>Series</i>	<i>Type</i>	<i>Start Station</i>	<i>End Station</i>	<i>Survey Length</i>
24000	E	Mag	0	1500	1500m
25000	E	Mag	0	1400	1400m
26000	E	Mag	-750	500	1250m
27000	E	Mag	-500	700	1200m
28000	E	Mag	-575	600	1175m
29000	E	Mag	0	500	500m

Total Linear Metres = 26275

Mag = Magnetic Survey Line

APPENDIX B : INSTRUMENT SPECIFICATIONS

GEM 19 Overhauser Magnetometer

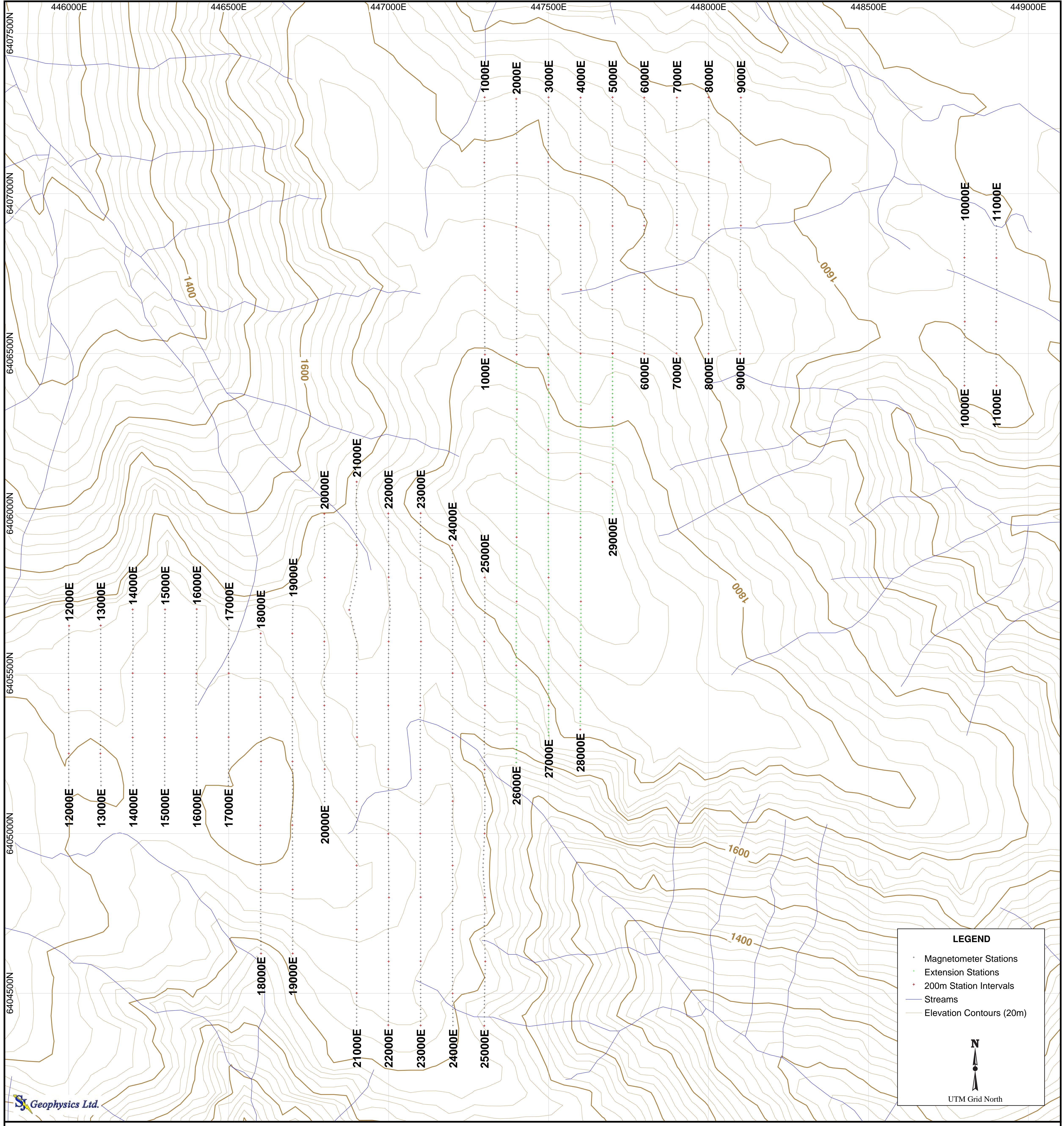
Resolution:	0.01 nT, magnetic field and gradient.
Accuracy:	0.2 nT over operating range.
Gradient Tolerance:	up to 5000 nT/metre.
Operating Interval:	4 seconds minimum, faster optional.
Reading:	Initiated by keyboard depression, external trigger or carriage return via RS-232C.
Input/Output:	6 Pin weatherproof connector, RS-232C, and optional analog output
Power Requirements:	12v 300 mA peak(during polarization), 35 mA standby, 600 mA peak in gradiometer
Power Source:	Internal 12v, 1.9ah sealed lead-acid battery standard, other optional External 12v power source can be used.
Battery Charger:	Input: 110/220 VAC, 50/60 Hz and/or 12VDC. Output: 12v dual level charging.
Operating Ranges	-40°C to +60°C
Temperature:	
Battery Voltage:	10v min. to 15v max.

Dimensions:

Console:	223 x 69 x 240 mm.
Sensor staff:	4 x 450 mm sections.
Sensor:	170 x 71 mm diameter.

Weights:

Console:	2.1 kg
Staff:	0.9 kg.
Sensor:	1.1 kg each.

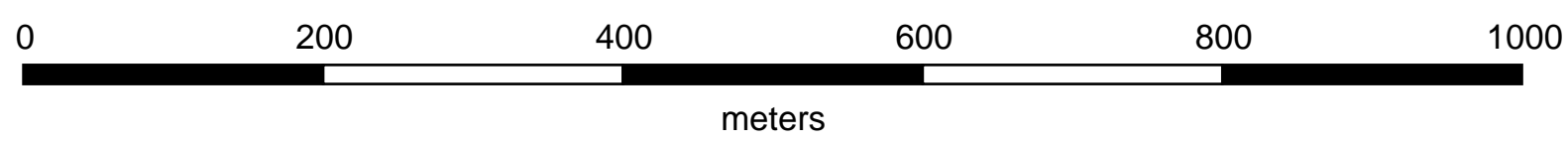


Project Information:
 Survey by: S.J. Geophysics Ltd.
 Processing by: S.J.V. Consultants Ltd.
 Survey Date: August–September 2011

Instrumentation:
 Magnetometer: GEM–Systems GSM–19 Overhauser Magnetometer

Mapping Information:
 Datum: NAD83
 Projection: UTM Zone 9
 Mapping Date: 23–Nov–2011

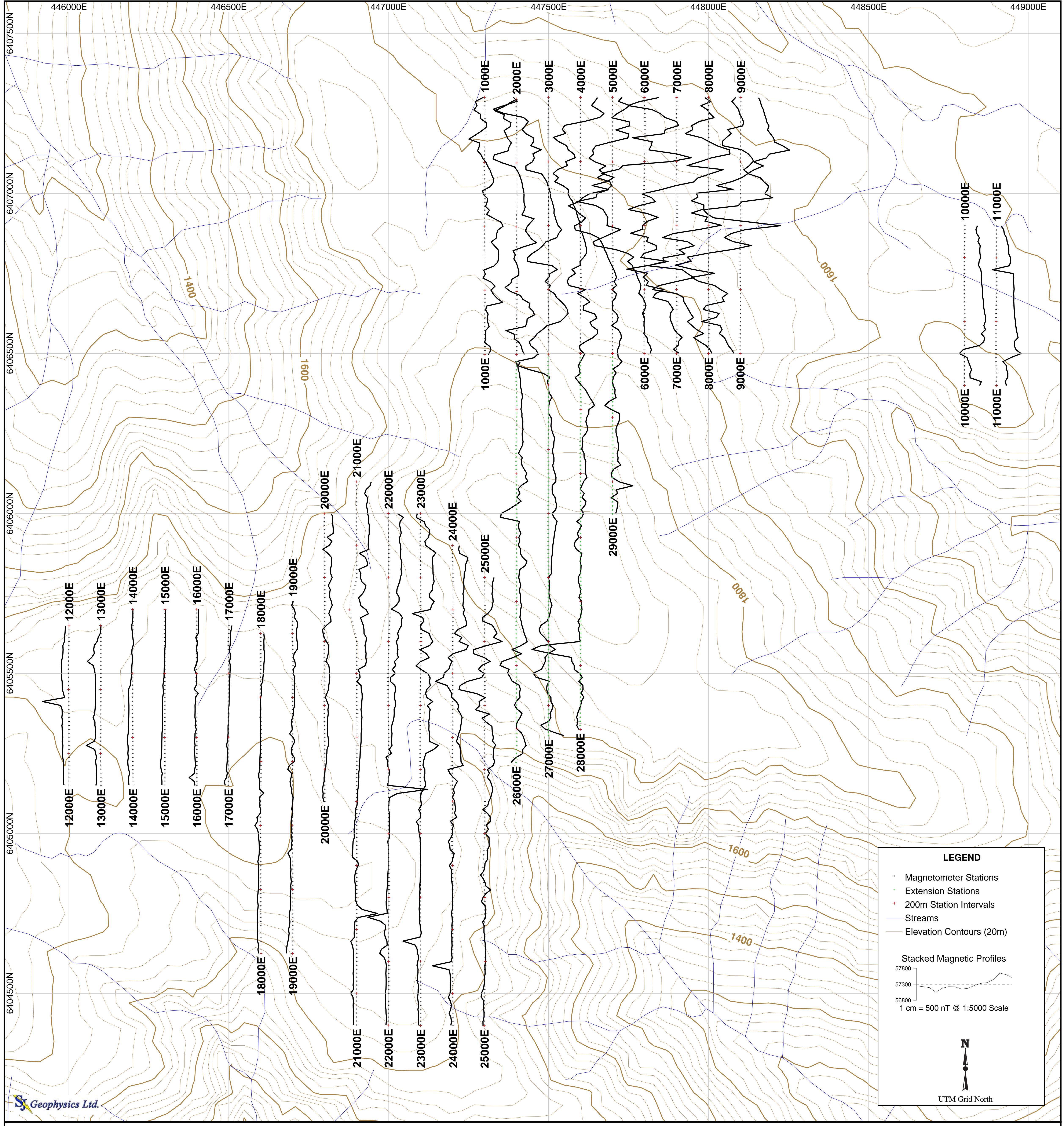
**Ground Magnetic Survey
 Grid Map**



Lions Gate Metals Inc.

ROK–Coyote Property

Iskut, B.C.

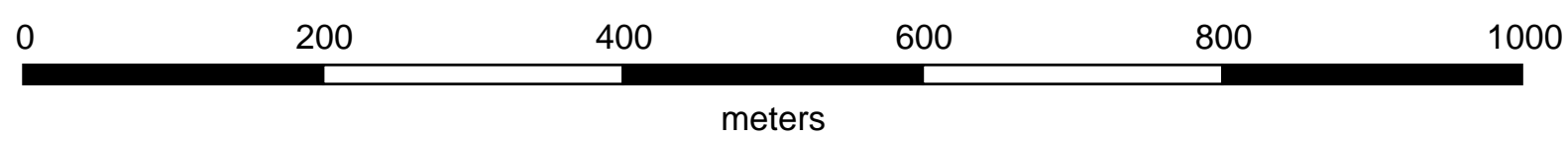


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 Survey by: S.J. Geophysics Ltd.
 Processing by: S.J.V. Consultants Ltd.
 Survey Date: August–September 2011

Instrumentation:
 Magnetometer: GEM–Systems GSM–19 Overhauser Magnetometer

Mapping Information:
 Datum: NAD83
 Projection: UTM Zone 9
 Mapping Date: 23–Nov–2011

Ground Magnetic Survey
Stacked Total Magnetic Intensity Profiles Map



Lions Gate Metals Inc.

ROK–Coyote Property

Iskut, B.C.

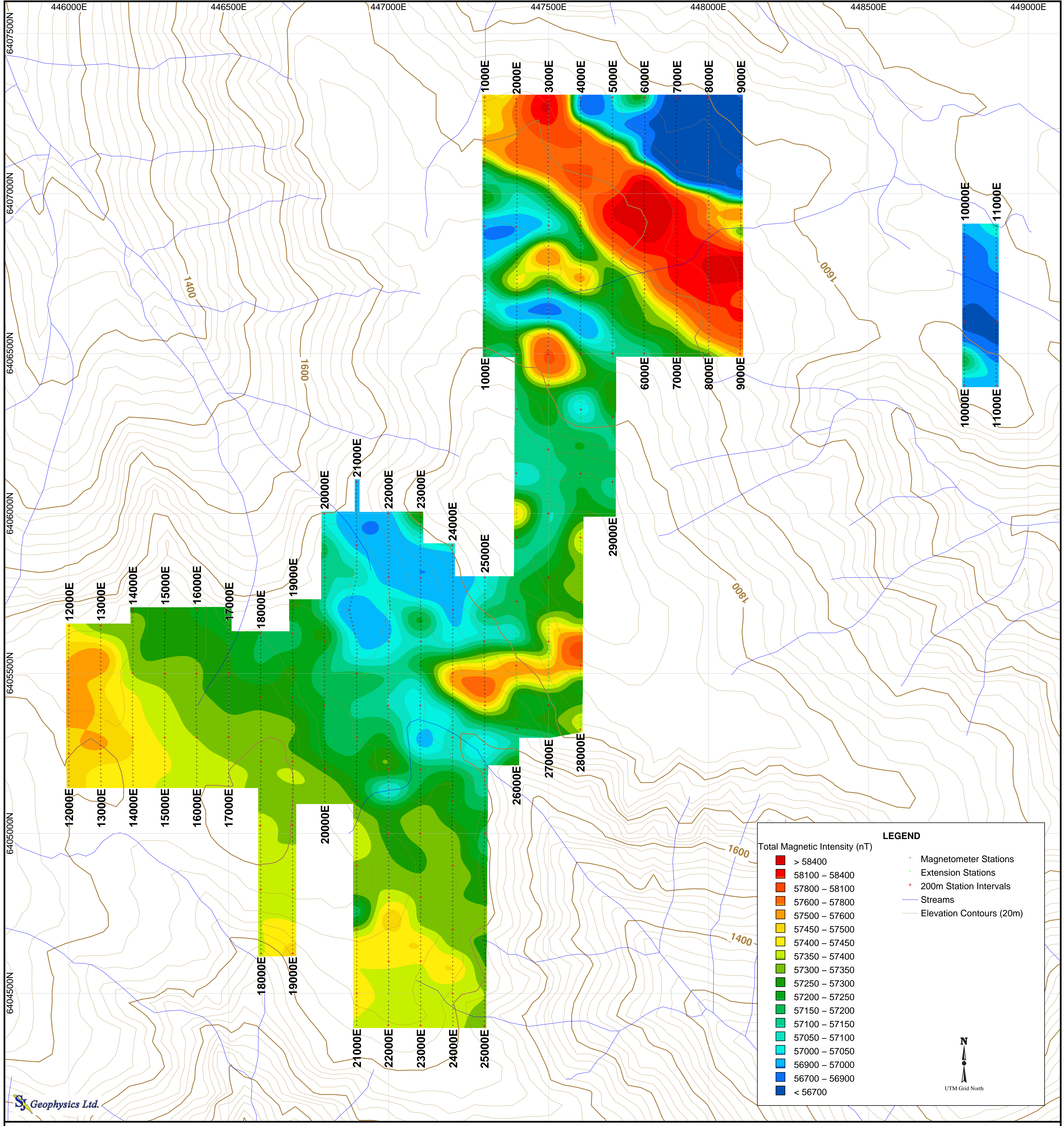
LEGEND

- Magnetometer Stations
- Extension Stations
- + 200m Station Intervals
- Streams
- Elevation Contours (20m)

Stacked Magnetic Profiles

1 cm = 500 nT @ 1:5000 Scale

N
 UTM Grid North

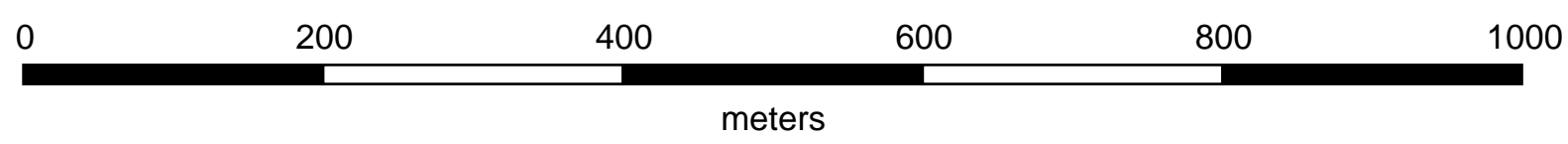


Project Information:
 Survey by: S.J. Geophysics Ltd.
 Processing by: S.J.V. Consultants Ltd.
 Survey Date: August-September 2011

Instrumentation:
 Magnetometer: GEM-Systems GSM-19 Overhauser Magnetometer

Mapping Information:
 Datum: NAD83
 Projection: UTM Zone 9
 Mapping Date: 23-Nov-2011

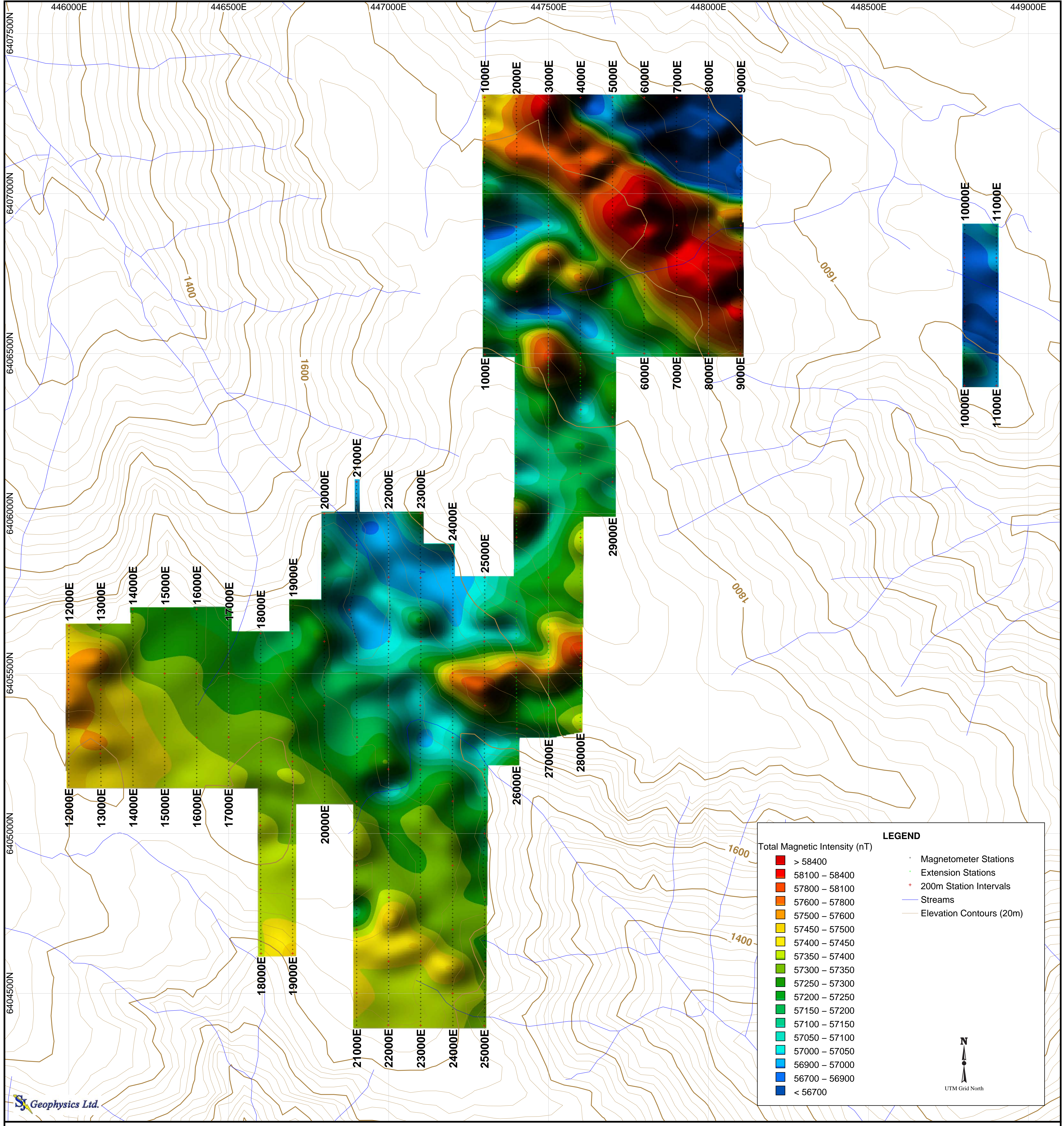
Ground Magnetic Survey
Total Magnetic Intensity Map



Lions Gate Metals Inc.

ROK-Coyote Property

Iskut, B.C.

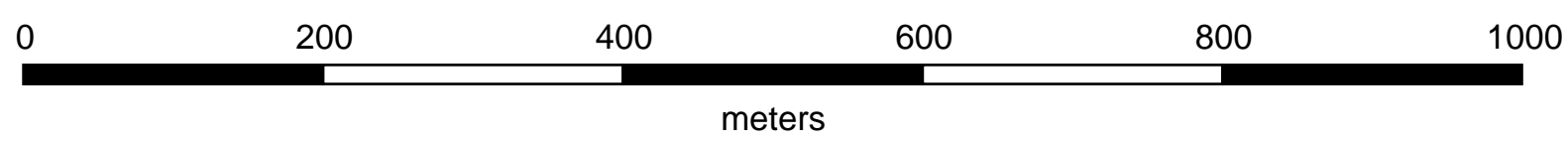


Project Information:
 Survey by: S.J. Geophysics Ltd.
 Processing by: S.J.V. Consultants Ltd.
 Survey Date: August-September 2011

Instrumentation:
 Magnetometer: GEM-Systems GSM-19 Overhauser Magnetometer

Mapping Information:
 Datum: NAD83
 Projection: UTM Zone 9
 Mapping Date: 23-Nov-2011

Ground Magnetic Survey
Total Magnetic Intensity Map: Shadow Enhanced

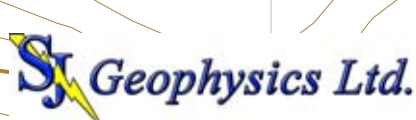


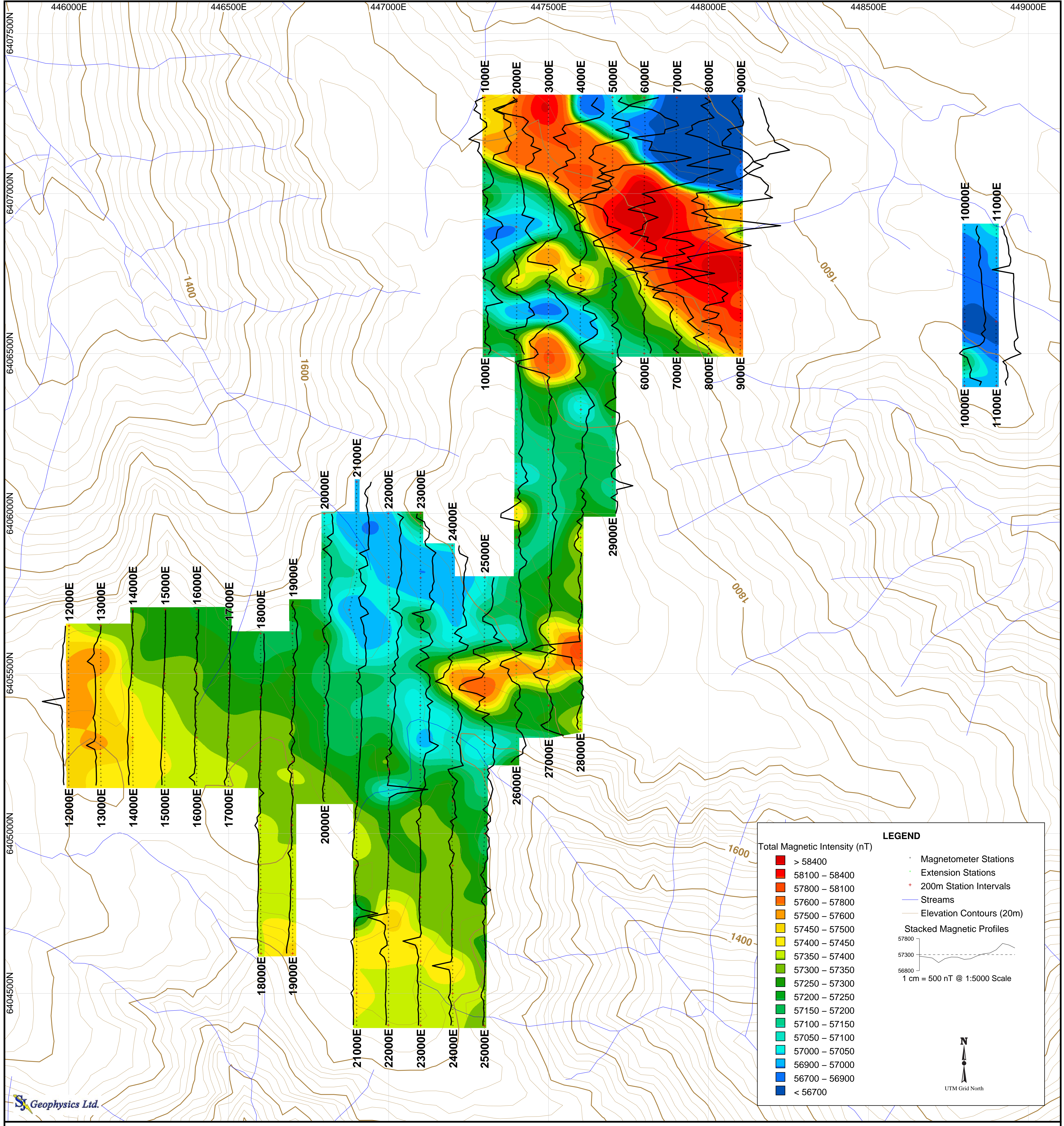
Lions Gate Metals Inc.

ROK-Coyote Property

Iskut, B.C.

Total Magnetic Intensity (nT)		LEGEND	
[Red]	> 58400	[Black dot]	Magnetometer Stations
[Dark Red]	58100 - 58400	[Green dot]	Extension Stations
[Red-Orange]	57800 - 58100	[Red cross]	200m Station Intervals
[Orange]	57600 - 57800	[Blue line]	Streams
[Yellow-Orange]	57500 - 57600	[Brown line]	Elevation Contours (20m)
[Yellow]	57450 - 57500		
[Light Yellow]	57400 - 57450		
[Yellow-Green]	57350 - 57400		
[Green]	57300 - 57350		
[Light Green]	57250 - 57300		
[Green]	57200 - 57250		
[Light Green]	57150 - 57200		
[Cyan]	57100 - 57150		
[Light Cyan]	57050 - 57100		
[Cyan]	57000 - 57050		
[Blue-Cyan]	56900 - 57000		
[Blue]	56700 - 56900		
[Dark Blue]	< 56700		



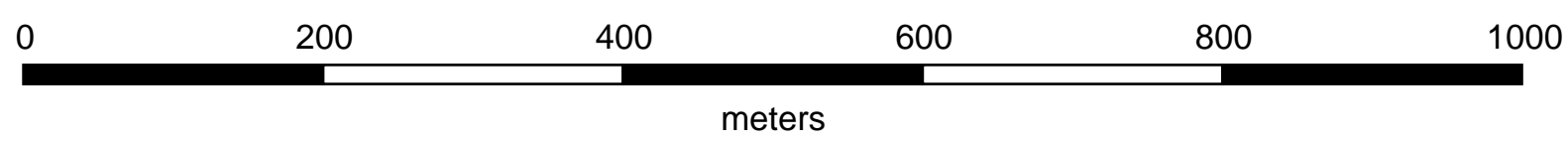


Project Information:
 Survey by: S.J. Geophysics Ltd.
 Processing by: S.J.V. Consultants Ltd.
 Survey Date: August-September 2011

Instrumentation:
 Magnetometer: GEM-Systems GSM-19 Overhauser Magnetometer

Mapping Information:
 Datum: NAD83
 Projection: UTM Zone 9
 Mapping Date: 23-Nov-2011

Ground Magnetic Survey
Total Magnetic Intensity Map with Stacked Profiles



Lions Gate Metals Inc.

ROK-Coyote Property

Iskut, B.C.

Appendix 7: Assay Certificates



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Lions Gate Metals Inc.**
880 - 609 Granville St.
Vancouver BC V7Y 1G5 Canada

Submitted By: Email Distribution List
Receiving Lab: Canada-Smithers
Received: September 15, 2011
Report Date: November 19, 2011
Page: 1 of 11

CERTIFICATE OF ANALYSIS

SMI11000455.1

CLIENT JOB INFORMATION

Project: ROK_LGM
Shipment ID:
P.O. Number
Number of Samples: 299

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
RTRN-RJT Return

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

Invoice To: Lions Gate Metals Inc.
880 - 609 Granville St.
Vancouver BC V7Y 1G5
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	296	Dry at 60C			SMI
SS80	296	Dry at 60C sieve 100g to -80 mesh			SMI
1F05	290	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
RJSV	296	Saving all or part of Soil Reject			SMI

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

Page: 2 of 11 Part 1

CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-001	Soil	1.11	20.44	10.75	82.8	53	37.6	12.7	1080	3.49	4.9	0.6	6.0	1.0	14.4	0.10	0.78	0.20	67	0.32	0.110	
R11-002	Soil	0.91	38.45	11.23	109.4	142	23.0	9.3	999	3.11	5.1	1.2	3.5	0.5	16.1	0.15	0.48	0.20	57	0.44	0.179	
R11-003	Soil	0.99	17.45	9.42	84.4	36	43.8	14.2	1284	3.89	4.1	0.7	4.6	1.6	13.9	0.17	0.62	0.13	66	0.31	0.110	
R11-004	Soil	1.31	13.49	10.38	80.0	45	24.1	8.4	642	3.62	4.7	0.9	4.3	0.5	12.0	0.16	0.43	0.22	50	0.24	0.110	
R11-005	Soil	1.00	17.06	6.57	71.2	31	64.3	16.2	636	4.08	3.0	0.8	2.4	1.9	15.4	0.09	0.26	0.13	57	0.41	0.091	
R11-006	Soil	0.68	55.76	10.22	133.9	310	31.0	11.5	754	3.39	6.3	1.2	13.7	0.8	19.5	0.20	0.54	0.11	55	0.61	0.128	
R11-007	Soil	1.30	21.87	6.93	29.5	347	15.5	6.6	565	2.06	3.1	1.1	4.1	0.1	19.3	0.11	0.32	0.15	40	0.32	0.298	
R11-008	Soil	1.18	47.28	13.64	80.3	70	58.1	14.6	774	3.84	6.3	0.4	17.2	0.9	12.4	0.13	0.60	0.10	71	0.25	0.090	
R11-009	Soil	0.79	28.76	7.56	66.2	30	45.7	11.6	579	3.39	6.9	0.6	3.0	1.2	11.4	0.08	0.64	0.08	72	0.25	0.099	
R11-010	Soil	1.22	30.91	10.12	60.3	81	42.2	14.5	751	3.54	2.6	0.7	1.6	1.0	16.4	0.18	0.27	0.13	59	0.33	0.105	
R11-011	Soil	1.16	26.48	8.99	67.5	50	46.8	13.2	828	3.56	6.3	0.7	2.3	0.6	14.9	0.13	0.58	0.13	71	0.21	0.122	
R11-012	Soil	0.85	66.84	8.86	87.5	85	61.1	16.8	872	4.14	5.4	0.5	4.6	1.5	21.6	0.14	0.52	0.08	78	0.36	0.104	
R11-013	Soil	1.00	21.79	6.40	51.5	67	37.4	9.5	460	2.91	5.7	0.5	2.2	0.4	15.3	0.08	0.52	0.08	62	0.18	0.085	
R11-014	Soil	1.15	73.44	12.59	97.8	140	53.1	18.5	1092	4.58	6.0	0.8	7.3	1.7	18.4	0.21	0.63	0.13	84	0.39	0.138	
R11-015	Soil	2.10	12.79	10.76	53.9	24	17.6	7.1	773	3.47	4.0	0.9	0.9	0.5	14.7	0.08	0.35	0.32	52	0.27	0.108	
R11-016	Soil	1.85	49.43	10.08	82.4	108	34.6	13.4	872	4.31	4.6	0.9	2.4	1.1	16.3	0.14	0.40	0.14	66	0.41	0.120	
R11-017	Soil	1.56	22.82	5.33	86.5	12	61.0	19.3	907	4.62	3.0	0.9	0.8	2.8	15.1	0.11	0.21	0.09	65	0.38	0.065	
R11-018	Soil	0.99	63.03	9.00	80.6	213	30.2	10.5	620	3.15	5.3	0.7	3.8	0.5	14.9	0.05	0.63	0.09	60	0.40	0.113	
R11-019	Soil	1.64	18.55	6.16	95.8	16	46.6	16.1	799	4.65	3.2	0.9	<0.2	1.4	13.0	0.19	0.23	0.20	73	0.27	0.091	
R11-020	Soil	1.46	70.98	15.03	92.1	139	52.3	17.4	871	4.74	7.7	0.7	3.2	1.4	10.4	0.22	0.63	0.10	78	0.24	0.104	
R11-021	Soil	1.20	66.90	9.09	85.0	59	65.3	16.9	920	3.97	7.7	0.4	4.1	1.0	13.9	0.20	0.59	0.11	74	0.25	0.109	
R11-021A	Soil	1.19	38.11	49.82	163.0	105	35.1	15.3	1392	3.60	8.6	1.0	2.1	2.3	31.0	0.45	0.85	0.10	69	0.40	0.152	
R11-022	Soil	1.24	108.0	24.98	99.5	143	47.2	22.3	1731	4.42	8.5	0.3	3.2	0.5	8.6	0.20	0.74	0.09	77	0.21	0.107	
R11-023	Soil	1.50	46.45	11.45	92.7	66	41.0	14.1	882	4.23	5.4	0.6	8.3	0.5	10.6	0.15	0.46	0.21	75	0.18	0.111	
R11-024	Soil	1.59	37.20	10.43	92.1	83	49.2	14.5	833	4.10	4.4	0.6	1.7	0.4	16.6	0.28	0.36	0.14	73	0.26	0.141	
R11-025	Soil	2.40	20.91	9.15	79.3	17	30.2	9.0	792	3.83	5.2	1.2	*	1.2	9.6	0.12	0.33	0.21	40	0.16	0.085	
R11-026	Soil	1.10	19.24	10.12	70.1	47	52.4	15.0	1183	3.50	5.9	0.4	3.2	0.2	13.7	0.14	0.42	0.11	72	0.19	0.080	
R11-027	Soil	1.42	45.99	11.42	97.6	88	34.8	13.7	1115	4.14	6.0	0.5	2.7	0.1	11.0	0.25	0.47	0.14	79	0.15	0.120	
R11-028	Soil	1.26	49.12	10.02	87.1	48	73.7	19.5	841	4.39	6.8	0.5	2.1	1.1	13.0	0.26	0.47	0.14	78	0.18	0.095	
R11-029	Soil	1.63	34.97	12.64	86.0	98	40.5	16.7	1615	4.26	5.6	0.6	1.5	0.4	15.3	0.32	0.47	0.19	81	0.19	0.128	

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

Page: 2 of 11 Part 2

CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
R11-001	Soil	12.5	34.1	0.98	346.6	0.079	2	1.51	0.010	0.06	0.1	3.5	0.08	0.04	39	0.1	0.05	5.8	1.50	<0.1	0.08
R11-002	Soil	35.7	22.4	0.75	609.4	0.020	1	2.50	0.006	0.09	0.1	3.8	0.13	0.10	28	<0.1	0.02	8.5	5.81	<0.1	0.25
R11-003	Soil	16.8	32.3	1.05	394.1	0.104	2	2.04	0.012	0.07	<0.1	4.7	0.07	0.06	52	0.1	0.02	6.3	2.17	<0.1	0.14
R11-004	Soil	21.0	23.4	0.58	285.0	0.070	1	2.14	0.023	0.06	0.2	1.8	0.10	0.11	30	0.3	<0.02	11.7	1.72	<0.1	0.21
R11-005	Soil	22.2	35.0	1.32	205.1	0.208	2	2.57	0.029	0.04	<0.1	3.9	0.07	0.07	32	<0.1	0.02	8.0	1.37	<0.1	0.31
R11-006	Soil	35.7	26.4	1.03	749.9	0.043	2	2.73	0.013	0.15	<0.1	6.5	0.10	0.07	45	0.2	0.03	8.4	6.02	<0.1	0.13
R11-007	Soil	19.3	18.7	0.29	415.7	0.017	1	1.91	0.006	0.04	0.1	1.0	0.09	0.28	123	0.4	<0.02	4.8	1.39	<0.1	0.06
R11-008	Soil	7.3	44.7	1.12	209.9	0.070	2	2.00	0.008	0.05	<0.1	4.0	0.09	0.05	39	<0.1	0.04	7.5	1.11	<0.1	0.11
R11-009	Soil	9.8	37.7	1.07	152.5	0.073	2	1.79	0.004	0.06	<0.1	4.4	0.05	0.02	39	<0.1	0.03	5.1	1.34	<0.1	0.07
R11-010	Soil	10.7	33.7	0.85	188.1	0.208	<1	1.86	0.027	0.04	<0.1	3.2	0.05	0.12	72	<0.1	0.04	9.6	1.51	<0.1	0.28
R11-011	Soil	10.6	38.5	0.87	220.7	0.084	2	2.11	0.008	0.09	<0.1	3.5	0.08	0.09	76	0.1	0.06	7.0	1.35	<0.1	0.07
R11-012	Soil	11.7	47.3	1.36	274.3	0.160	2	2.22	0.012	0.06	<0.1	5.9	0.05	0.03	28	0.1	0.05	6.9	1.21	<0.1	0.12
R11-013	Soil	6.0	38.0	0.66	161.2	0.069	2	1.53	0.006	0.06	<0.1	3.1	0.06	0.08	74	0.1	0.04	5.6	0.95	<0.1	0.05
R11-014	Soil	17.1	44.5	1.29	300.7	0.178	3	2.47	0.017	0.09	<0.1	5.9	0.08	0.05	39	0.2	0.06	8.7	2.62	<0.1	0.12
R11-015	Soil	19.5	24.3	0.29	183.9	0.096	<1	1.42	0.020	0.04	0.2	2.0	0.11	0.12	37	<0.1	0.03	16.8	1.33	<0.1	0.21
R11-016	Soil	20.4	34.7	0.76	261.1	0.157	2	2.62	0.025	0.07	0.1	3.8	0.10	0.13	55	0.3	<0.02	11.7	2.38	<0.1	0.29
R11-017	Soil	18.3	38.0	1.35	136.0	0.345	<1	2.27	0.050	0.05	0.1	3.0	0.06	0.06	29	0.2	<0.02	10.4	1.00	<0.1	0.61
R11-018	Soil	23.9	29.8	0.82	435.2	0.023	2	2.32	0.006	0.09	<0.1	4.5	0.11	0.08	43	0.2	0.05	7.1	4.25	<0.1	0.11
R11-019	Soil	15.6	39.4	0.94	141.6	0.280	1	2.78	0.027	0.04	0.1	3.0	0.03	0.11	58	0.2	<0.02	12.9	1.13	<0.1	0.47
R11-020	Soil	14.5	33.4	1.12	179.5	0.157	2	2.59	0.013	0.05	0.1	4.5	0.08	0.08	77	0.4	0.07	8.1	1.33	<0.1	0.21
R11-021	Soil	7.9	47.7	1.16	279.2	0.063	2	2.32	0.006	0.08	<0.1	5.1	0.08	0.04	37	0.2	0.06	6.6	1.39	<0.1	0.07
R11-021A	Soil	14.2	29.7	1.12	111.3	0.167	2	2.42	0.007	0.08	0.2	4.8	0.10	0.04	23	0.2	0.03	7.0	2.60	<0.1	0.08
R11-022	Soil	7.6	30.4	1.32	261.9	0.023	2	2.53	0.002	0.08	<0.1	4.5	0.14	0.03	83	0.3	0.08	6.2	1.82	<0.1	0.05
R11-023	Soil	10.9	35.9	0.86	154.3	0.102	2	2.30	0.011	0.05	<0.1	3.4	0.11	0.09	37	0.4	0.03	9.3	1.90	<0.1	0.10
R11-024	Soil	9.6	38.7	0.94	284.0	0.125	1	2.23	0.016	0.05	<0.1	3.3	0.09	0.12	80	0.4	0.06	8.7	1.25	<0.1	0.14
R11-025	Soil	22.4	24.6	0.55	143.7	0.112	<1	2.06	0.037	0.05	0.3	2.1	0.09	0.10	40	0.2	0.03	13.5	1.12	<0.1	0.34
R11-026	Soil	5.5	51.6	0.81	234.7	0.038	2	1.82	0.004	0.05	<0.1	2.9	0.14	0.06	45	0.2	0.10	6.8	0.93	<0.1	0.02
R11-027	Soil	9.8	35.1	0.80	287.2	0.025	<1	2.31	0.009	0.06	<0.1	2.0	0.11	0.09	45	0.1	0.06	8.5	1.38	<0.1	0.04
R11-028	Soil	8.7	53.6	1.13	163.9	0.151	2	2.38	0.010	0.08	<0.1	4.9	0.11	0.07	74	0.3	0.06	8.5	1.07	<0.1	0.15
R11-029	Soil	9.9	37.5	0.78	259.2	0.094	1	2.02	0.009	0.06	<0.1	3.3	0.11	0.13	57	0.2	0.05	9.3	1.45	<0.1	0.11

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

Page: 2 of 11 Part 3

CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
R11-001	Soil			2.80	5.4	0.8	<0.05	5.2	6.85	33.2	0.05	<1	0.6	15.7	<10	<2
R11-002	Soil			6.88	13.3	1.6	<0.05	10.3	30.37	41.9	0.06	<1	1.6	16.1	<10	<2
R11-003	Soil			4.24	5.6	1.0	<0.05	9.0	10.86	47.0	0.05	2	1.1	15.3	<10	<2
R11-004	Soil			16.13	8.1	2.9	<0.05	15.8	12.52	41.7	0.04	<1	1.3	12.2	<10	<2
R11-005	Soil			9.97	4.5	1.5	<0.05	25.0	14.39	52.5	0.06	<1	1.9	8.7	<10	<2
R11-006	Soil			5.19	16.0	1.3	<0.05	7.9	34.42	35.1	0.04	<1	1.7	19.4	<10	<2
R11-007	Soil			4.61	4.6	0.7	<0.05	3.8	13.76	35.7	0.04	<1	1.1	6.2	<10	<2
R11-008	Soil			3.41	5.9	0.8	<0.05	6.4	5.68	20.8	0.04	<1	0.7	19.4	<10	<2
R11-009	Soil			1.24	4.4	0.5	<0.05	3.1	7.73	25.0	0.03	<1	0.6	23.4	<10	<2
R11-010	Soil			10.15	5.2	1.6	0.06	21.2	7.13	26.9	0.04	<1	1.0	7.6	<10	<2
R11-011	Soil			4.01	7.0	0.9	<0.05	5.0	7.53	29.2	0.04	<1	0.8	20.1	<10	<2
R11-012	Soil			2.29	5.4	0.6	<0.05	9.8	9.94	27.2	0.03	<1	0.8	18.9	<10	<2
R11-013	Soil			2.64	5.0	0.5	<0.05	3.7	4.55	14.5	0.03	<1	0.4	13.1	<10	<2
R11-014	Soil			3.78	8.4	1.2	<0.05	9.8	14.32	34.8	0.04	<1	1.0	16.8	<10	<2
R11-015	Soil			21.40	4.9	4.6	<0.05	15.8	11.42	43.3	0.05	<1	1.1	6.8	<10	<2
R11-016	Soil			14.15	8.0	2.1	<0.05	23.9	14.15	40.3	0.05	<1	1.3	11.2	<10	<2
R11-017	Soil			11.68	5.4	2.2	<0.05	45.9	11.15	44.8	0.05	<1	1.6	8.5	<10	<2
R11-018	Soil			3.59	11.7	0.7	<0.05	5.7	22.58	27.7	0.04	<1	1.0	17.7	<10	<2
R11-019	Soil			14.60	4.8	2.1	<0.05	34.3	9.57	36.8	0.06	<1	1.5	8.7	<10	<2
R11-020	Soil			6.91	5.6	1.2	<0.05	16.1	9.55	35.1	0.05	<1	1.1	11.4	<10	<2
R11-021	Soil			2.28	6.0	0.6	<0.05	4.8	7.01	20.4	0.05	<1	0.7	21.2	<10	<2
R11-021A	Soil			1.89	7.8	0.8	<0.05	7.3	9.68	33.5	0.04	<1	0.7	22.2	<10	<2
R11-022	Soil			1.04	8.0	0.3	<0.05	2.2	6.22	20.9	0.04	<1	0.6	21.1	<10	<2
R11-023	Soil			6.86	5.7	1.3	<0.05	7.4	6.47	25.1	0.05	<1	0.8	16.0	<10	<2
R11-024	Soil			7.61	6.7	1.4	<0.05	11.0	6.18	22.2	0.05	<1	0.8	11.3	<10	<2
R11-025	Soil			20.81	6.7	3.6	0.12	26.7	12.22	48.6	0.06	<1	1.9	10.5	<10	<2
R11-026	Soil			1.43	6.2	0.7	<0.05	1.4	5.04	13.8	0.03	<1	0.6	19.8	<10	<2
R11-027	Soil			3.18	7.6	1.1	<0.05	2.3	6.79	22.7	0.06	<1	0.8	15.1	<10	<2
R11-028	Soil			4.83	7.7	0.9	<0.05	9.2	6.47	21.3	0.04	<1	0.8	20.5	<10	<2
R11-029	Soil			6.07	7.1	1.5	<0.05	7.7	6.31	23.1	0.06	1	0.7	11.2	<10	<2

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

Page: 3 of 11 Part 1

CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-030	Soil			1.80	35.42	18.26	98.1	84	26.6	15.4	1302	4.27	7.5	0.7	2.7	0.3	8.1	0.34	0.59	0.15	77	0.13	0.106
R11-031	Soil			1.40	43.69	12.77	78.0	80	47.9	16.0	1094	3.97	8.8	0.5	2.0	0.5	11.3	0.19	0.48	0.14	71	0.16	0.120
R11-032	Soil			2.39	28.17	14.42	75.0	151	23.1	8.8	608	3.72	6.9	1.0	2.2	0.6	9.5	0.17	0.48	0.22	55	0.12	0.126
R11-033	Soil			1.25	51.67	12.56	80.0	70	48.7	17.9	1355	3.89	7.3	0.5	2.9	0.7	11.4	0.18	0.52	0.10	69	0.21	0.108
R11-034	Soil			1.39	113.6	27.28	87.6	154	34.3	23.1	1671	4.24	15.9	0.4	10.1	0.8	12.3	0.14	0.83	0.25	80	0.20	0.075
R11-035	Soil			1.21	104.8	14.18	86.8	426	50.5	17.6	1449	4.54	7.5	0.8	4.1	0.9	16.5	0.22	0.43	0.17	78	0.31	0.101
R11-036	Soil			1.63	73.85	17.43	91.9	346	33.2	14.8	1364	3.99	9.5	0.8	3.9	0.7	13.6	0.23	0.62	0.37	61	0.20	0.134
R11-037	Soil			1.44	44.22	14.05	83.8	156	42.6	14.2	947	3.90	8.1	0.8	4.9	0.8	14.6	0.29	0.51	0.26	74	0.21	0.134
R11-038	Soil			1.70	78.00	16.43	109.3	293	44.8	14.9	1264	4.29	11.5	1.0	8.3	1.5	19.6	0.31	0.70	0.35	69	0.32	0.142
R11-039	Soil			2.01	40.52	10.22	89.4	412	28.9	10.3	949	3.81	6.5	1.3	*	0.7	17.5	0.18	0.41	0.29	46	0.27	0.161
R11-040	Soil			1.03	60.15	11.74	68.4	226	49.3	17.4	1201	3.29	9.3	0.4	4.9	0.5	21.9	0.18	0.68	0.22	65	0.23	0.080
R11-041	Soil			1.29	108.2	17.26	75.8	216	49.2	24.9	894	4.41	33.2	0.5	6.6	1.0	22.6	0.24	0.87	0.33	101	0.24	0.094
R11-042	Soil			1.65	32.03	14.26	69.0	75	35.6	15.1	975	4.10	8.4	0.4	4.3	0.7	12.8	0.23	0.63	0.30	91	0.11	0.080
R11-043	Soil			1.74	26.65	16.76	69.0	106	13.1	10.2	1993	3.28	7.4	0.5	2.4	<0.1	11.3	0.29	0.56	0.26	82	0.09	0.152
R11-044	Soil			1.46	25.45	13.03	68.3	65	34.0	15.1	1138	3.89	5.4	0.5	5.6	0.7	10.2	0.24	0.39	0.23	81	0.11	0.089
R11-045	Soil			1.24	23.14	8.69	72.2	47	42.0	14.6	679	3.98	3.5	0.7	1.1	1.0	10.4	0.21	0.27	0.15	64	0.22	0.089
R11-046	Soil			1.02	89.26	29.96	203.1	152	34.4	28.4	1658	5.33	21.4	0.5	3.8	1.3	16.9	0.49	0.68	0.13	154	0.36	0.120
R11-047	Soil			2.06	20.21	10.33	53.3	100	17.1	9.1	1173	3.16	4.0	0.6	2.6	0.1	13.3	0.16	0.39	0.21	69	0.13	0.122
R11-048	Soil			0.89	87.30	18.55	210.8	224	40.4	18.8	851	4.51	25.2	0.4	5.1	1.2	23.7	0.65	0.78	0.15	131	0.46	0.121
R11-049	Soil			1.38	35.32	19.01	96.1	44	41.1	16.7	1337	4.75	6.6	0.6	1.4	0.5	12.0	0.25	0.46	0.31	92	0.20	0.109
R11-050	Soil			1.36	45.34	10.23	105.1	150	47.4	17.8	1075	4.45	8.4	0.6	1.6	0.8	14.9	0.46	0.47	0.14	93	0.25	0.102
R11-051	Soil			1.55	23.79	13.74	62.0	60	44.4	19.8	1297	4.83	6.4	0.5	2.9	0.8	12.2	0.10	0.44	0.26	105	0.15	0.074
R11-052	Soil			2.02	42.35	12.00	100.1	194	28.3	9.8	908	4.22	7.9	1.0	2.0	0.8	11.9	0.46	0.47	0.25	68	0.15	0.138
R11-053	Soil			1.25	73.65	12.54	81.1	81	56.9	19.3	2087	4.38	19.4	0.5	4.3	1.8	18.8	0.20	0.79	0.32	84	0.21	0.075
R11-054	Soil			1.29	29.24	4.67	80.6	52	62.5	18.5	791	4.10	2.6	0.7	1.3	1.7	16.0	0.17	0.22	0.10	63	0.37	0.085
R11-055	Soil			1.33	29.52	9.06	72.2	133	33.4	13.6	889	4.18	5.0	0.6	1.4	0.6	16.1	0.17	0.31	0.24	90	0.26	0.115
R11-056	Soil			1.96	38.95	7.97	82.3	44	39.1	12.8	992	4.32	4.8	1.3	*	1.6	12.6	0.13	0.33	0.20	56	0.23	0.098
R11-057	Soil			2.87	16.61	9.31	74.7	30	18.3	8.1	1595	3.93	5.3	1.5	<0.2	2.1	7.9	0.11	0.34	0.25	33	0.13	0.070
R11-058	Soil			1.41	73.93	10.38	95.4	167	68.8	20.3	1421	4.67	8.8	0.9	4.7	1.2	18.1	0.21	0.58	0.17	97	0.26	0.104
R11-059	Soil			1.35	76.43	11.79	97.4	123	72.8	22.9	1362	5.36	11.7	0.7	3.0	1.3	14.6	0.21	0.67	0.17	108	0.27	0.111

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
R11-030	Soil	14.5	30.5	0.66	131.0	0.099	<1	2.27	0.012	0.05	<0.1	2.5	0.12	0.10	73	0.2	0.04	10.3	1.48	<0.1	0.15
R11-031	Soil	7.2	38.1	0.88	207.1	0.064	1	2.03	0.006	0.06	<0.1	3.4	0.09	0.09	60	0.3	0.08	7.0	1.32	<0.1	0.09
R11-032	Soil	17.6	30.0	0.51	150.6	0.083	1	2.36	0.018	0.06	0.2	2.5	0.14	0.11	53	0.6	0.05	13.0	1.46	<0.1	0.21
R11-033	Soil	9.9	40.7	1.07	159.6	0.086	2	2.32	0.010	0.05	<0.1	4.1	0.08	0.06	50	0.3	0.07	6.9	1.40	<0.1	0.09
R11-034	Soil	12.5	24.0	1.31	322.9	0.011	1	2.38	0.004	0.06	<0.1	5.9	0.19	0.03	64	0.6	0.13	6.7	1.89	<0.1	0.07
R11-035	Soil	23.7	41.7	1.09	373.4	0.129	2	3.12	0.014	0.08	<0.1	6.7	0.12	0.09	85	0.3	0.05	10.1	4.54	<0.1	0.14
R11-036	Soil	21.0	28.7	0.86	417.5	0.053	3	2.33	0.012	0.07	0.1	3.7	0.14	0.08	69	0.4	0.05	9.8	2.19	<0.1	0.10
R11-037	Soil	10.9	43.3	0.91	215.5	0.132	4	2.43	0.014	0.06	0.1	4.3	0.09	0.12	79	0.5	0.05	8.6	1.42	<0.1	0.16
R11-038	Soil	24.5	40.9	1.04	458.2	0.090	3	2.46	0.019	0.09	0.2	5.4	0.13	0.06	58	0.4	0.04	10.7	2.30	<0.1	0.10
R11-039	Soil	25.7	29.3	0.60	298.1	0.076	3	2.39	0.025	0.06	0.2	2.3	0.10	0.18	86	0.7	0.04	11.1	1.91	<0.1	0.25
R11-040	Soil	9.3	39.0	0.92	275.0	0.051	2	1.88	0.007	0.06	<0.1	4.0	0.11	0.08	105	0.3	0.07	5.3	0.81	<0.1	0.04
R11-041	Soil	8.6	41.8	1.37	147.7	0.090	3	2.30	0.006	0.07	0.2	5.4	0.13	0.04	51	0.4	0.10	7.2	1.65	<0.1	0.06
R11-042	Soil	6.4	35.8	0.76	174.9	0.102	2	1.79	0.007	0.06	0.1	3.1	0.09	0.06	74	0.3	0.06	8.9	1.15	<0.1	0.07
R11-043	Soil	5.6	24.3	0.29	233.5	0.028	2	1.74	0.007	0.05	<0.1	1.1	0.12	0.16	81	0.3	0.04	7.8	1.67	<0.1	0.03
R11-044	Soil	7.5	35.2	0.70	105.3	0.142	1	1.73	0.010	0.04	<0.1	2.5	0.09	0.07	65	0.3	0.03	8.4	0.98	<0.1	0.13
R11-045	Soil	14.4	36.9	0.85	138.7	0.192	1	2.74	0.020	0.04	<0.1	2.7	0.06	0.09	50	0.3	<0.02	10.1	0.87	<0.1	0.28
R11-046	Soil	10.8	37.7	1.91	135.1	0.205	2	3.19	0.012	0.24	0.1	5.5	0.25	0.05	55	0.3	0.02	10.3	3.26	<0.1	0.12
R11-047	Soil	7.0	23.6	0.31	242.1	0.051	1	1.59	0.011	0.04	<0.1	1.3	0.12	0.13	66	0.3	0.04	9.0	1.32	<0.1	0.06
R11-048	Soil	8.8	40.6	1.81	132.4	0.155	2	2.45	0.012	0.20	0.1	5.3	0.20	0.02	30	0.2	0.03	8.5	2.22	<0.1	0.06
R11-049	Soil	9.2	39.2	0.97	178.3	0.146	2	2.57	0.011	0.05	<0.1	3.2	0.08	0.11	71	0.4	0.06	10.3	1.47	<0.1	0.16
R11-050	Soil	9.3	40.7	1.27	136.7	0.144	2	2.08	0.015	0.08	<0.1	3.5	0.11	0.08	39	0.3	0.03	9.7	1.20	<0.1	0.13
R11-051	Soil	7.5	45.8	0.97	197.1	0.202	2	1.89	0.009	0.04	<0.1	3.3	0.10	0.07	43	0.3	0.05	9.7	1.27	<0.1	0.15
R11-052	Soil	15.7	34.2	0.63	148.1	0.096	2	2.31	0.020	0.06	0.1	2.9	0.11	0.11	54	0.4	0.02	13.0	1.77	<0.1	0.18
R11-053	Soil	11.2	44.2	1.24	340.2	0.081	3	2.64	0.006	0.14	<0.1	6.0	0.12	0.03	26	0.3	0.02	7.2	1.13	<0.1	0.06
R11-054	Soil	16.3	35.9	1.24	122.1	0.243	<1	2.32	0.033	0.04	<0.1	2.9	0.04	0.08	34	0.2	<0.02	9.5	0.63	<0.1	0.30
R11-055	Soil	8.6	36.6	0.82	141.7	0.178	1	2.01	0.013	0.04	<0.1	2.7	0.09	0.13	62	0.3	<0.02	10.1	0.96	<0.1	0.19
R11-056	Soil	22.1	31.9	0.78	139.2	0.160	1	2.85	0.027	0.05	0.2	2.9	0.09	0.10	48	0.3	<0.02	13.4	0.91	<0.1	0.37
R11-057	Soil	23.4	18.6	0.36	87.6	0.131	1	2.56	0.047	0.06	0.2	1.8	0.09	0.09	48	0.3	0.02	14.9	1.22	<0.1	0.42
R11-058	Soil	12.0	48.7	1.33	202.3	0.168	3	2.55	0.009	0.06	<0.1	5.5	0.10	0.07	66	0.2	0.05	8.8	0.96	<0.1	0.11
R11-059	Soil	9.5	51.2	1.67	128.8	0.242	2	2.41	0.010	0.06	0.1	5.0	0.08	0.08	64	0.3	0.05	9.4	1.07	<0.1	0.19

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

Page: 3 of 11 Part 3

CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
R11-030	Soil			8.18	5.9	1.8	<0.05	11.5	9.28	29.6	0.03	<1	0.8	8.5	<10	<2
R11-031	Soil			4.74	6.2	1.0	<0.05	6.8	5.17	17.1	0.04	<1	0.7	18.0	<10	<2
R11-032	Soil			15.69	7.7	3.0	<0.05	15.9	9.87	37.6	0.06	<1	1.2	11.8	<10	<2
R11-033	Soil			3.04	5.4	0.8	<0.05	5.7	7.19	23.7	0.04	<1	0.7	17.2	<10	<2
R11-034	Soil			1.11	7.3	0.5	<0.05	3.4	10.71	25.3	0.04	<1	0.7	26.0	<10	<2
R11-035	Soil			5.89	8.5	1.3	<0.05	10.8	22.73	42.7	0.06	<1	1.3	15.2	<10	<2
R11-036	Soil			7.35	7.9	2.2	<0.05	8.6	18.52	39.9	0.06	<1	1.3	17.7	<10	<2
R11-037	Soil			7.43	7.6	1.4	<0.05	12.4	8.13	26.7	0.05	<1	0.9	15.8	<10	<2
R11-038	Soil			5.74	9.1	2.3	<0.05	8.2	21.51	44.4	0.06	2	1.3	21.2	<10	<2
R11-039	Soil			17.03	7.2	3.1	0.12	19.1	18.27	53.8	0.05	<1	1.7	13.2	<10	<2
R11-040	Soil			1.80	6.8	0.5	<0.05	3.2	7.29	22.7	0.04	<1	0.6	17.1	<10	<2
R11-041	Soil			1.78	7.6	0.6	<0.05	4.2	6.93	19.5	0.03	<1	0.7	24.8	<10	<2
R11-042	Soil			4.56	8.4	1.3	<0.05	5.6	3.68	14.9	0.04	<1	0.6	15.0	<10	<2
R11-043	Soil			3.68	8.9	1.4	<0.05	2.2	3.32	12.7	0.04	<1	0.5	6.2	<10	<2
R11-044	Soil			5.95	6.8	1.5	<0.05	9.4	4.10	17.9	0.04	<1	0.7	8.6	<10	<2
R11-045	Soil			9.94	4.1	1.7	0.10	21.0	7.41	32.7	0.05	<1	0.9	6.7	<10	<2
R11-046	Soil			2.47	13.6	0.7	<0.05	9.8	8.10	25.3	0.04	<1	1.0	27.3	<10	4
R11-047	Soil			6.88	5.4	1.9	<0.05	5.2	3.66	15.2	0.04	<1	0.5	5.4	<10	<2
R11-048	Soil			1.18	13.3	0.5	<0.05	4.8	7.76	19.2	0.03	<1	0.7	27.7	<10	3
R11-049	Soil			7.18	7.1	1.5	0.06	10.2	5.74	22.9	0.04	<1	0.8	12.8	<10	<2
R11-050	Soil			5.45	9.3	1.5	<0.05	11.0	6.05	21.9	0.04	<1	0.9	17.9	<10	<2
R11-051	Soil			6.12	7.0	1.7	<0.05	10.6	4.37	18.0	0.05	<1	0.6	10.4	<10	<2
R11-052	Soil			11.45	10.0	3.2	<0.05	15.2	8.83	35.3	0.07	<1	1.2	14.1	<10	<2
R11-053	Soil			1.14	10.2	0.6	<0.05	5.2	6.83	29.4	0.06	<1	0.8	21.5	<10	2
R11-054	Soil			8.38	4.1	1.8	<0.05	26.0	8.30	40.1	0.05	<1	1.0	8.2	<10	<2
R11-055	Soil			8.52	4.4	1.5	<0.05	13.6	6.04	19.6	0.03	<1	0.7	9.1	<10	<2
R11-056	Soil			16.67	6.7	3.3	0.14	30.7	12.05	52.8	0.07	<1	1.8	11.2	<10	<2
R11-057	Soil			21.29	8.7	4.6	0.28	39.2	12.80	51.9	0.08	<1	2.1	7.3	<10	<2
R11-058	Soil			4.30	7.4	1.0	<0.05	9.8	8.60	28.6	0.05	1	1.0	19.9	<10	<2
R11-059	Soil			5.07	6.2	1.1	0.07	14.5	6.72	26.8	0.05	<1	0.9	18.8	<10	<2

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
R11-060	Soil			2.07	123.1	14.46	109.0	253	70.8	28.6	1649	5.77	36.7	0.5	23.3	1.3	18.3	0.26	1.25	0.75	126	0.28	0.115
R11-061	Soil			1.71	55.37	10.04	91.4	132	41.0	16.4	1171	4.56	6.8	1.0	*	1.7	21.5	0.22	0.38	0.20	69	0.41	0.106
R11-062	Soil			1.36	83.05	10.67	78.7	100	56.5	21.7	988	4.94	19.7	0.6	6.7	1.0	15.7	0.17	0.82	0.34	102	0.26	0.100
R11-063	Soil			0.90	62.50	9.42	66.6	150	23.6	14.1	1202	3.32	3.3	0.5	2.0	0.4	27.5	0.09	0.57	0.12	65	0.73	0.141
R11-064	Soil			1.34	73.89	10.28	75.0	129	59.5	21.7	1377	4.83	10.1	0.6	3.7	1.3	18.2	0.12	0.70	0.24	108	0.25	0.097
R11-065	Soil			1.17	112.2	4.74	29.3	467	11.7	8.2	1526	1.52	1.6	0.6	2.5	0.1	54.7	0.16	0.54	0.10	28	1.37	0.227
R11-066	Soil			1.47	136.1	11.74	81.6	341	55.8	19.9	2015	4.38	14.4	0.6	17.0	2.2	22.4	0.15	0.90	0.17	94	0.35	0.100
R11-067	Soil			1.35	24.48	6.82	72.4	86	59.7	20.0	963	4.91	3.0	0.6	*	1.6	12.2	0.14	0.32	0.10	89	0.28	0.096
R11-068	Soil			1.19	64.09	13.48	98.1	108	62.2	19.7	1219	4.85	5.1	0.9	2.2	2.5	16.2	0.18	0.45	0.11	77	0.31	0.123
R11-069	Soil			0.93	78.22	12.93	90.6	51	38.1	15.6	1219	4.01	5.9	0.5	2.9	0.7	13.9	0.13	0.53	0.09	79	0.31	0.122
R11-070	Soil			1.11	57.85	17.50	88.4	166	43.8	18.5	1494	4.46	4.1	0.7	2.7	1.0	20.8	0.19	0.46	0.10	75	0.41	0.111
R11-071	Soil			1.52	73.52	13.16	90.0	139	45.1	15.6	1098	4.68	5.5	1.2	2.4	2.3	13.1	0.15	0.47	0.16	73	0.25	0.128
R11-072	Soil			1.35	91.44	21.24	106.9	211	47.6	20.7	2158	5.07	6.7	0.8	9.9	2.0	19.0	0.24	0.70	0.15	78	0.41	0.113
R11-073	Soil			1.94	82.55	47.94	94.6	251	29.3	19.6	2095	4.72	12.6	1.0	6.7	1.9	12.1	0.29	1.12	0.19	66	0.25	0.117
R11-074	Soil			1.56	122.3	18.25	106.5	250	47.7	19.3	1655	5.50	7.5	1.2	7.4	3.2	13.5	0.23	0.69	0.14	81	0.33	0.116
R11-075	Soil			2.69	29.11	13.59	63.8	143	20.3	16.9	3149	3.95	4.8	1.2	2.0	0.4	9.9	0.20	0.45	0.23	54	0.15	0.167
R11-076	Soil			1.69	291.6	34.83	123.4	175	41.2	14.9	1227	4.81	6.9	1.1	7.8	2.0	16.6	0.20	0.61	0.20	70	0.34	0.121
R11-077	Soil			1.62	39.96	51.58	120.7	95	12.1	11.3	1262	3.91	9.5	0.4	3.0	<0.1	10.5	0.31	0.79	0.14	90	0.15	0.146
R11-078	Soil			2.12	138.5	19.16	102.9	160	38.8	15.5	980	4.98	5.2	1.2	3.0	1.8	15.1	0.12	0.50	0.18	77	0.27	0.104
R11-079	Soil			1.49	37.35	19.80	75.1	107	21.7	11.4	1232	3.85	5.1	0.5	2.3	<0.1	15.8	0.21	0.53	0.21	78	0.32	0.120
R11-080	Soil			1.88	114.6	43.95	106.7	172	36.4	15.7	1373	4.67	6.8	0.9	6.8	0.9	13.7	0.15	0.68	0.16	78	0.18	0.099
R11-081	Soil			1.82	43.50	18.02	90.1	78	37.4	21.9	2422	4.92	6.1	0.5	2.6	0.5	12.8	0.26	0.57	0.18	91	0.19	0.111
R11-082	Soil			1.50	83.68	57.49	125.6	250	35.3	14.5	954	3.99	12.2	0.8	5.2	1.0	17.7	0.18	1.00	0.14	73	0.39	0.112
R11-083	Soil			1.16	32.14	30.42	109.9	101	17.1	14.6	2862	4.20	10.5	0.4	2.2	0.4	10.0	0.23	0.98	0.15	64	0.17	0.145
R11-084	Soil			1.41	141.7	27.48	172.0	238	72.2	21.2	1351	4.90	16.2	0.8	5.9	2.1	24.4	0.40	1.00	0.17	79	0.38	0.118
R11-085	Soil			1.59	36.29	17.60	90.6	85	32.8	14.8	1678	4.29	6.8	0.6	2.3	0.4	13.8	0.26	0.64	0.19	79	0.21	0.139
R11-086	Soil			1.83	57.57	24.89	69.2	255	21.7	7.6	590	3.55	4.9	0.9	2.8	0.2	10.6	0.08	0.52	0.16	67	0.13	0.119
R11-087	Soil			1.47	30.75	18.19	89.8	103	17.6	10.7	1183	3.97	11.1	0.4	2.4	0.2	11.1	0.15	0.88	0.17	77	0.11	0.120
R11-088	Soil			1.87	81.50	19.99	100.5	107	55.8	22.1	1610	4.92	6.7	0.8	3.9	1.2	22.1	0.26	0.68	0.19	81	0.57	0.108
R11-089	Soil			1.48	27.45	16.01	58.8	398	19.9	8.2	679	2.43	6.3	0.5	4.4	<0.1	13.0	0.16	0.54	0.27	53	0.14	0.222

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	Analyte	1F15 La	1F15 Cr	1F15 Mg	1F15 Ba	1F15 Ti	1F15 B	1F15 Al	1F15 Na	1F15 K	1F15 W	1F15 Sc	1F15 Ti	1F15 S	1F15 Hg	1F15 Se	1F15 Te	1F15 Ga	1F15 Cs	1F15 Ge	1F15 Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
R11-060	Soil	10.1	46.1	1.63	199.7	0.115	2	2.81	0.005	0.07	<0.1	7.0	0.16	0.05	68	0.5	0.20	9.3	1.23	<0.1	0.07
R11-061	Soil	20.4	37.1	0.94	171.6	0.192	1	2.52	0.029	0.05	<0.1	3.8	0.08	0.10	42	0.4	<0.02	12.4	1.12	<0.1	0.25
R11-062	Soil	11.3	41.6	1.30	153.9	0.131	2	2.74	0.009	0.05	<0.1	5.1	0.11	0.07	50	0.3	0.11	9.4	0.94	<0.1	0.14
R11-063	Soil	12.5	24.9	0.87	654.0	0.066	2	1.69	0.009	0.05	<0.1	2.9	0.07	0.13	71	0.3	0.03	6.6	1.10	<0.1	0.19
R11-064	Soil	14.9	46.5	1.31	184.8	0.155	2	2.63	0.011	0.06	<0.1	6.1	0.10	0.06	47	0.3	0.05	10.0	1.04	<0.1	0.12
R11-065	Soil	17.6	12.9	0.23	1002	0.026	3	1.30	0.014	0.05	<0.1	2.1	0.09	0.26	194	0.6	<0.02	3.5	2.49	<0.1	0.09
R11-066	Soil	23.5	42.2	1.41	234.0	0.099	2	2.37	0.012	0.07	0.1	9.5	0.16	0.02	118	0.2	0.07	7.9	1.83	<0.1	0.25
R11-067	Soil	10.2	43.6	1.28	112.3	0.343	1	1.49	0.021	0.05	<0.1	3.3	0.03	0.10	96	0.3	<0.02	12.9	1.58	<0.1	0.32
R11-068	Soil	19.0	48.1	1.35	256.4	0.245	2	2.74	0.025	0.06	<0.1	6.0	0.07	0.04	36	0.3	0.03	9.7	2.12	<0.1	0.16
R11-069	Soil	8.0	33.2	1.24	242.7	0.089	2	2.40	0.008	0.06	<0.1	4.1	0.06	0.06	29	0.3	0.05	7.9	2.33	<0.1	0.08
R11-070	Soil	17.4	36.8	1.10	322.6	0.146	2	2.24	0.016	0.05	<0.1	4.7	0.07	0.10	60	0.3	0.02	9.1	2.45	<0.1	0.20
R11-071	Soil	21.9	39.0	1.05	252.5	0.197	2	2.70	0.026	0.07	0.1	4.9	0.07	0.06	36	0.3	0.02	11.4	2.74	<0.1	0.22
R11-072	Soil	23.8	35.7	1.31	466.7	0.190	3	2.39	0.018	0.08	<0.1	6.6	0.09	0.03	47	0.3	0.04	8.7	3.10	<0.1	0.12
R11-073	Soil	22.8	23.0	0.97	310.0	0.104	3	2.36	0.025	0.08	0.2	4.9	0.14	0.06	67	0.5	0.06	9.5	2.80	<0.1	0.12
R11-074	Soil	27.4	36.1	1.25	372.7	0.222	3	2.80	0.024	0.08	0.1	7.1	0.09	0.04	58	0.5	0.03	10.0	2.82	<0.1	0.24
R11-075	Soil	13.7	27.6	0.44	219.4	0.097	3	2.05	0.016	0.05	0.2	1.8	0.12	0.19	63	0.5	0.06	12.1	1.98	<0.1	0.19
R11-076	Soil	25.9	37.7	0.95	333.5	0.179	3	3.02	0.022	0.08	<0.1	5.2	0.12	0.08	67	0.5	0.03	12.0	3.30	<0.1	0.25
R11-077	Soil	5.9	18.4	0.62	305.5	0.009	2	2.00	0.004	0.08	<0.1	0.8	0.15	0.10	40	0.3	0.06	7.9	2.39	<0.1	<0.02
R11-078	Soil	24.7	42.1	0.85	270.4	0.190	3	3.64	0.020	0.06	0.1	5.6	0.12	0.09	66	0.6	0.03	13.8	3.54	<0.1	0.31
R11-079	Soil	8.1	27.6	0.70	401.6	0.041	2	1.99	0.008	0.06	<0.1	1.4	0.14	0.11	35	0.3	0.05	9.4	1.92	<0.1	0.04
R11-080	Soil	17.8	36.7	0.76	273.1	0.109	2	2.64	0.012	0.05	<0.1	3.8	0.13	0.11	64	0.5	0.07	10.8	2.39	<0.1	0.21
R11-081	Soil	7.9	37.4	0.99	273.4	0.116	3	2.14	0.009	0.05	<0.1	3.0	0.13	0.09	40	0.3	0.07	9.9	1.83	<0.1	0.09
R11-082	Soil	17.4	27.6	1.18	354.8	0.063	4	2.16	0.011	0.09	<0.1	5.4	0.10	0.05	113	0.5	0.11	6.3	3.24	<0.1	0.07
R11-083	Soil	8.0	17.3	0.95	361.3	0.010	3	2.63	0.002	0.12	<0.1	2.3	0.18	0.06	46	0.2	0.12	7.0	2.53	<0.1	0.07
R11-084	Soil	19.2	48.2	1.51	457.2	0.150	4	2.78	0.011	0.12	<0.1	8.0	0.09	0.03	67	0.4	0.15	7.0	2.65	<0.1	0.17
R11-085	Soil	8.3	33.4	0.78	245.5	0.101	3	1.89	0.010	0.07	<0.1	2.5	0.08	0.12	61	0.3	0.05	8.5	1.80	<0.1	0.07
R11-086	Soil	17.6	31.3	0.48	239.0	0.042	2	2.59	0.007	0.05	<0.1	2.2	0.16	0.13	61	0.5	0.05	10.1	2.41	<0.1	0.08
R11-087	Soil	6.3	22.2	0.71	304.8	0.012	2	2.10	0.004	0.08	<0.1	1.6	0.15	0.07	55	0.3	0.09	7.2	1.89	<0.1	0.04
R11-088	Soil	18.5	42.1	1.24	246.1	0.245	2	2.41	0.023	0.05	<0.1	4.0	0.06	0.11	32	0.6	0.05	11.9	1.85	<0.1	0.24
R11-089	Soil	5.8	22.6	0.43	241.2	0.013	2	1.75	0.010	0.05	<0.1	1.0	0.10	0.22	154	0.4	0.06	5.1	0.99	<0.1	0.03

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
R11-060	Soil	2.38	9.3	0.7	<0.05	6.4	6.83	29.8	0.06	<1	0.8	26.2	<10	2
R11-061	Soil	10.69	6.5	2.7	0.11	23.1	13.32	41.9	0.06	<1	1.5	10.6	<10	<2
R11-062	Soil	4.85	6.4	1.0	<0.05	10.6	6.80	30.4	0.06	<1	0.9	18.0	<10	<2
R11-063	Soil	5.74	6.0	1.0	0.07	10.2	11.40	21.4	0.04	<1	0.6	11.7	<10	<2
R11-064	Soil	3.84	8.0	1.2	<0.05	9.3	10.56	34.6	0.06	<1	1.0	18.2	<10	<2
R11-065	Soil	3.14	6.5	0.4	<0.05	4.3	19.52	24.5	0.03	<1	0.6	5.9	<10	<2
R11-066	Soil	1.23	6.8	0.9	<0.05	20.7	20.54	42.2	0.04	<1	1.1	22.6	<10	2
R11-067	Soil	10.00	4.2	1.9	0.12	23.2	5.23	24.7	0.06	<1	0.6	9.7	<10	<2
R11-068	Soil	3.39	7.5	1.7	0.07	17.6	16.24	39.2	0.06	1	1.2	15.7	<10	<2
R11-069	Soil	3.47	6.3	0.9	<0.05	6.5	7.29	20.6	0.04	<1	0.7	19.5	<10	<2
R11-070	Soil	6.02	6.5	1.4	<0.05	16.3	16.37	33.5	0.05	<1	1.0	12.0	<10	<2
R11-071	Soil	6.36	8.4	2.5	0.06	19.3	16.08	44.9	0.06	<1	1.5	13.6	<10	<2
R11-072	Soil	2.50	7.5	1.3	<0.05	10.4	19.84	41.4	0.07	<1	1.1	15.4	<10	<2
R11-073	Soil	6.42	8.6	2.1	0.06	12.4	16.50	46.2	0.06	<1	1.1	13.6	<10	<2
R11-074	Soil	4.36	8.6	1.9	0.06	24.1	22.39	52.7	0.06	<1	1.5	16.0	<10	<2
R11-075	Soil	13.50	7.9	3.1	0.05	14.0	8.07	32.2	0.05	<1	0.9	6.8	<10	<2
R11-076	Soil	8.45	10.1	2.5	<0.05	21.2	17.72	47.4	0.09	<1	1.7	12.8	<10	<2
R11-077	Soil	0.99	12.7	0.8	<0.05	0.5	4.57	12.4	0.04	<1	0.4	9.5	<10	<2
R11-078	Soil	11.49	10.1	2.6	<0.05	27.9	18.08	49.1	0.07	<1	1.7	13.5	<10	<2
R11-079	Soil	4.31	9.2	1.8	<0.05	2.7	7.08	17.2	0.04	<1	0.6	10.1	<10	<2
R11-080	Soil	8.39	8.5	1.9	<0.05	16.2	11.89	36.5	0.07	<1	1.2	12.9	<10	<2
R11-081	Soil	4.68	7.2	1.4	<0.05	6.4	4.63	19.8	0.05	<1	0.6	12.7	<10	<2
R11-082	Soil	2.25	7.8	0.8	<0.05	4.4	15.17	29.7	0.04	<1	0.9	19.9	<10	<2
R11-083	Soil	1.86	11.3	0.7	<0.05	2.4	4.11	18.9	0.04	<1	0.5	19.4	<10	<2
R11-084	Soil	0.98	8.1	0.7	<0.05	13.7	18.70	40.3	0.05	<1	0.9	25.1	18	<2
R11-085	Soil	5.84	7.6	1.4	<0.05	6.0	4.88	21.0	0.04	<1	0.6	12.0	<10	<2
R11-086	Soil	8.25	6.8	1.8	<0.05	6.7	11.81	31.3	0.05	<1	1.0	11.7	<10	<2
R11-087	Soil	1.83	10.2	0.8	<0.05	1.3	3.49	13.7	0.05	<1	0.4	13.7	<10	<2
R11-088	Soil	9.26	7.5	2.2	0.10	17.9	12.25	39.6	0.06	<1	1.1	9.7	17	<2
R11-089	Soil	2.91	5.2	0.7	<0.05	1.4	4.13	13.0	0.04	<1	0.5	9.2	<10	<2

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-090	Soil			2.98	28.51	13.90	67.1	105	13.3	18.2	4395	3.29	4.1	0.7	*	0.5	18.7	0.28	0.46	0.30	41	0.23	0.293
R11-091	Soil			1.31	105.5	20.76	112.7	268	45.2	20.8	1537	4.63	14.8	0.6	6.3	1.4	29.6	0.32	0.97	0.35	92	0.35	0.116
R11-092	Soil			2.43	36.98	11.34	69.4	356	16.6	5.7	587	3.04	5.1	1.0	3.8	0.2	15.3	0.22	0.55	0.27	51	0.27	0.140
R11-093	Soil			1.44	58.07	11.14	137.8	126	57.9	16.1	560	4.28	6.2	1.0	4.3	2.5	17.0	0.16	0.49	0.28	75	0.24	0.100
R11-094	Soil			1.62	76.46	22.02	126.9	130	56.3	18.7	1148	4.72	16.0	0.6	8.5	1.0	19.2	0.28	1.67	0.22	82	0.36	0.089
R11-095	Soil			1.08	73.29	14.32	81.9	196	59.9	19.2	1603	4.22	11.0	0.5	24.9	0.8	17.1	0.29	0.96	0.29	91	0.26	0.098
R11-096	Soil			2.92	25.74	10.62	68.9	112	10.5	5.3	933	4.03	5.6	1.4	1.7	0.5	6.3	0.37	0.40	0.31	39	0.07	0.100
R11-097	Soil			1.38	104.9	16.05	98.8	401	61.3	20.6	1426	4.47	15.3	0.4	7.1	1.0	18.5	0.27	1.81	0.45	87	0.26	0.107
R11-098	Soil			2.23	85.15	15.76	74.6	129	35.1	12.5	836	4.16	8.2	0.8	11.0	0.8	11.2	0.29	0.73	0.25	68	0.18	0.112
R11-099	Soil			1.06	87.11	17.47	89.0	204	68.6	20.9	1264	4.60	13.0	0.5	4.0	1.3	18.3	0.25	1.10	0.36	85	0.26	0.090
R11-100	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R11-101	Soil			1.14	63.47	11.49	82.8	100	70.0	20.7	749	4.07	13.8	0.4	4.7	1.1	21.2	0.17	0.76	0.20	87	0.26	0.097
R11-102	Soil			1.80	73.33	15.63	76.3	224	37.3	17.5	1465	5.14	17.1	0.7	59.9	0.6	26.3	0.20	1.01	0.42	131	0.71	0.114
R11-103	Soil			1.04	73.63	11.25	70.5	137	54.7	24.3	728	4.16	17.7	0.3	7.2	1.2	30.8	0.20	0.88	0.33	105	0.38	0.117
R11-104	Soil			2.02	205.6	16.87	107.4	397	60.6	37.0	4039	6.28	38.3	0.8	47.1	1.7	39.9	0.44	1.82	0.75	163	0.77	0.142
R11-105	Soil			1.50	78.63	16.13	78.2	152	56.5	19.5	1064	4.40	13.2	0.7	4.6	1.6	20.8	0.23	0.75	0.24	85	0.27	0.098
R11-106	Soil			1.22	55.19	24.00	121.8	85	38.6	20.0	2002	5.14	18.2	0.6	6.3	0.3	13.0	0.42	0.73	0.23	103	0.24	0.135
R11-107	Soil			1.12	87.26	21.83	183.2	86	54.8	22.0	1320	4.90	38.2	0.5	8.5	1.3	17.4	0.34	0.98	0.15	136	0.32	0.111
R11-108	Soil			1.24	100.0	12.09	77.4	202	39.5	16.6	1588	4.27	13.5	0.9	8.9	1.5	21.6	0.21	0.77	0.28	88	0.63	0.095
R11-109	Soil			0.92	114.5	9.51	77.9	86	54.3	24.8	1790	4.74	22.8	0.6	28.5	0.9	20.5	0.19	1.08	0.37	123	0.43	0.136
R11-110	Soil			1.39	89.87	14.09	118.3	490	49.6	17.8	1041	4.32	18.7	1.0	6.5	2.3	16.8	0.29	0.63	0.20	80	0.27	0.083
R11-111	Soil			0.86	65.12	7.97	70.1	89	65.5	17.1	1092	3.88	9.5	0.4	5.1	1.3	19.1	0.19	0.70	0.14	86	0.27	0.106
R11-112	Soil			1.37	117.9	14.34	87.3	162	52.2	19.9	1489	4.65	19.0	0.9	14.2	1.7	23.8	0.28	0.93	0.34	108	0.43	0.108
R11-113	Soil			1.13	83.09	8.92	81.6	210	63.1	19.2	1363	4.43	10.0	0.7	12.2	1.4	18.5	0.17	0.64	0.20	88	0.34	0.099
R11-114	Soil			1.26	175.0	13.81	94.1	196	49.4	22.7	2272	4.75	21.9	0.8	43.0	1.8	21.1	0.25	1.14	0.41	128	0.32	0.143
R11-115	Soil			0.89	88.22	8.86	80.8	104	63.4	18.9	1286	4.17	12.1	0.6	3.9	1.3	18.5	0.20	0.72	0.18	101	0.30	0.109
R11-116	Soil			1.74	97.54	12.63	86.5	206	33.0	13.7	1211	4.39	14.9	1.4	7.9	1.2	23.9	0.17	0.81	0.40	79	0.46	0.114
R11-117	Soil			1.84	117.2	14.86	120.5	195	54.9	28.2	1639	5.08	41.3	0.5	11.6	1.2	17.3	0.30	1.33	0.65	124	0.25	0.109
R11-118	Soil			1.32	110.3	12.49	99.7	167	60.8	20.4	1473	4.45	15.3	0.7	13.2	1.7	18.2	0.26	0.80	0.33	103	0.28	0.131
R11-119	Soil			2.43	65.27	12.90	81.0	131	51.3	20.0	1514	4.54	17.4	0.8	4.1	1.3	17.6	0.21	0.80	0.35	91	0.23	0.106

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
R11-090	Soil	14.6	21.9	0.16	407.7	0.052	1	1.46	0.014	0.06	0.2	1.2	0.13	0.25	81	0.4	0.03	11.7	1.68	<0.1	0.33
R11-091	Soil	16.3	33.8	1.49	553.1	0.094	3	2.49	0.011	0.10	0.1	7.6	0.11	0.03	79	0.6	0.11	7.8	1.66	<0.1	0.06
R11-092	Soil	14.3	22.6	0.35	197.8	0.041	2	2.03	0.018	0.05	0.1	1.4	0.08	0.20	79	0.6	0.03	10.8	1.42	<0.1	0.12
R11-093	Soil	20.9	43.3	0.95	236.9	0.239	2	2.85	0.032	0.06	0.1	5.5	0.10	0.07	36	0.5	0.04	10.9	1.43	<0.1	0.36
R11-094	Soil	10.2	41.7	1.29	206.7	0.129	2	2.04	0.011	0.06	0.1	3.8	0.10	0.07	37	0.3	0.05	10.4	1.84	<0.1	0.11
R11-095	Soil	10.6	43.6	1.23	261.7	0.078	3	2.57	0.008	0.07	<0.1	5.3	0.11	0.06	62	0.4	0.02	7.4	1.13	<0.1	0.05
R11-096	Soil	19.1	20.2	0.17	84.2	0.067	<1	2.32	0.021	0.05	0.2	0.9	0.12	0.12	65	0.4	0.05	18.2	1.15	<0.1	0.27
R11-097	Soil	11.1	45.7	1.41	227.5	0.059	3	2.63	0.007	0.08	<0.1	5.2	0.10	0.05	78	0.4	0.06	7.6	1.10	<0.1	0.05
R11-098	Soil	12.3	29.7	0.78	195.7	0.098	2	2.13	0.010	0.05	0.1	2.8	0.12	0.08	55	0.4	0.08	9.9	1.90	<0.1	0.13
R11-099	Soil	12.3	44.7	1.39	279.0	0.101	3	2.65	0.009	0.07	<0.1	5.7	0.12	0.05	61	0.3	0.05	7.7	1.03	<0.1	0.10
R11-100	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R11-101	Soil	7.3	50.2	1.31	186.5	0.107	3	2.34	0.009	0.08	0.1	4.9	0.08	0.04	58	0.3	0.05	7.4	0.99	<0.1	0.06
R11-102	Soil	11.8	42.2	0.84	197.8	0.108	3	2.87	0.006	0.08	0.1	4.8	0.14	0.09	68	0.4	0.11	12.0	1.56	<0.1	0.07
R11-103	Soil	7.8	41.9	1.79	143.3	0.132	3	2.39	0.008	0.14	0.1	4.9	0.10	0.02	42	0.3	0.04	7.9	1.57	<0.1	0.10
R11-104	Soil	18.6	46.0	1.66	245.2	0.138	3	2.78	0.009	0.08	0.5	9.4	0.10	0.05	109	0.6	0.38	10.0	0.92	<0.1	0.13
R11-105	Soil	13.1	41.3	1.20	147.1	0.146	2	2.41	0.017	0.07	0.1	4.5	0.12	0.06	56	0.3	0.04	10.1	1.41	<0.1	0.16
R11-106	Soil	9.5	40.0	0.97	148.8	0.104	2	2.40	0.005	0.08	<0.1	2.8	0.08	0.11	41	0.2	0.06	10.3	1.11	<0.1	0.08
R11-107	Soil	8.1	43.0	1.66	148.2	0.170	2	2.92	0.010	0.11	0.1	5.5	0.15	0.05	63	0.3	0.04	9.9	1.90	<0.1	0.10
R11-108	Soil	26.9	32.2	1.02	221.9	0.096	3	2.51	0.013	0.08	0.2	5.0	0.11	0.06	65	0.4	0.05	10.5	1.01	0.1	0.20
R11-109	Soil	13.8	39.7	1.49	155.6	0.095	2	2.47	0.006	0.06	0.1	5.3	0.09	0.05	50	0.3	0.12	8.9	1.05	<0.1	0.06
R11-110	Soil	24.7	35.0	1.20	167.8	0.184	2	2.85	0.021	0.09	0.1	5.3	0.14	0.04	86	0.4	0.03	11.1	1.54	<0.1	0.24
R11-111	Soil	10.5	46.2	1.33	193.5	0.140	3	2.52	0.007	0.08	<0.1	5.1	0.07	0.03	49	0.3	0.05	6.8	0.81	<0.1	0.09
R11-112	Soil	20.4	40.6	1.34	182.8	0.131	3	2.75	0.012	0.08	0.2	6.0	0.10	0.04	56	0.4	0.12	10.4	1.25	<0.1	0.10
R11-113	Soil	20.5	45.0	1.27	168.6	0.190	2	2.82	0.015	0.06	<0.1	5.8	0.10	0.07	65	0.3	0.07	9.4	0.94	<0.1	0.19
R11-114	Soil	19.0	39.4	1.44	174.0	0.111	3	2.43	0.007	0.08	0.2	7.8	0.09	0.03	59	0.4	0.11	8.7	1.30	<0.1	0.07
R11-115	Soil	9.3	45.1	1.45	195.7	0.122	3	2.56	0.007	0.09	<0.1	5.9	0.09	0.03	55	0.2	0.05	7.7	1.11	<0.1	0.11
R11-116	Soil	29.1	30.4	0.87	162.1	0.087	2	2.97	0.012	0.09	0.2	3.9	0.14	0.08	61	0.5	0.07	14.7	1.54	<0.1	0.17
R11-117	Soil	9.1	39.3	1.52	151.3	0.092	3	2.70	0.004	0.07	0.1	6.6	0.13	0.04	72	0.5	0.17	8.7	1.29	<0.1	0.08
R11-118	Soil	16.2	48.7	1.32	159.8	0.160	2	2.59	0.010	0.08	0.1	6.9	0.06	0.03	48	0.3	0.07	9.1	1.07	<0.1	0.07
R11-119	Soil	13.5	37.9	1.10	147.6	0.135	2	2.27	0.018	0.08	0.2	4.4	0.12	0.07	63	0.3	0.07	11.9	1.36	<0.1	0.14

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
R11-090	Soil			11.92	12.4	4.4	0.19	13.0	7.51	32.3	0.05	<1	0.8	3.2	<10	<2
R11-091	Soil			1.62	9.0	0.8	<0.05	5.2	17.22	29.5	0.05	<1	0.7	25.5	<10	<2
R11-092	Soil			11.68	6.7	2.5	<0.05	9.2	9.01	26.8	0.05	<1	0.9	9.0	<10	<2
R11-093	Soil			7.88	7.8	2.2	<0.05	30.8	15.43	46.3	0.07	<1	1.3	14.5	<10	<2
R11-094	Soil			6.37	8.1	1.6	<0.05	8.2	6.68	24.8	0.05	<1	0.7	18.9	<10	<2
R11-095	Soil			2.33	7.6	0.7	<0.05	3.9	7.72	33.9	0.04	<1	0.8	19.4	<10	<2
R11-096	Soil			26.92	6.5	5.9	<0.05	20.6	7.24	40.3	0.07	<1	1.4	5.9	<10	<2
R11-097	Soil			1.85	7.9	0.6	<0.05	3.5	7.66	28.0	0.05	<1	0.9	23.7	<10	<2
R11-098	Soil			10.14	7.5	2.3	<0.05	11.1	6.50	27.9	0.05	<1	1.0	11.6	<10	<2
R11-099	Soil			2.38	7.1	0.7	<0.05	6.2	8.35	33.6	0.04	<1	0.8	21.1	<10	<2
R11-100	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R11-101	Soil			2.18	6.7	0.7	<0.05	5.4	6.00	18.2	0.04	<1	0.6	22.7	<10	<2
R11-102	Soil			6.24	9.4	1.4	<0.05	5.8	8.94	27.4	0.06	<1	0.9	18.6	<10	<2
R11-103	Soil			0.82	8.7	0.4	<0.05	6.8	6.81	17.4	0.03	<1	0.8	25.4	<10	<2
R11-104	Soil			1.22	10.0	0.6	<0.05	8.4	16.72	41.7	0.07	<1	1.1	22.7	<10	4
R11-105	Soil			6.95	7.6	1.8	<0.05	14.3	8.96	30.5	0.06	<1	1.2	18.6	<10	<2
R11-106	Soil			5.62	6.1	1.1	<0.05	5.3	5.89	26.8	0.06	<1	0.9	15.3	<10	<2
R11-107	Soil			2.27	9.8	0.8	<0.05	7.3	6.97	21.8	0.04	<1	0.9	30.5	<10	3
R11-108	Soil			7.45	7.5	1.9	<0.05	14.6	19.09	48.4	0.07	1	1.5	15.3	<10	<2
R11-109	Soil			1.92	9.7	0.7	<0.05	4.3	9.59	37.2	0.05	<1	0.9	18.3	<10	2
R11-110	Soil			6.84	9.2	2.1	<0.05	20.7	18.12	46.3	0.05	1	1.6	14.2	<10	<2
R11-111	Soil			1.96	7.2	0.5	<0.05	7.4	7.88	30.1	0.04	1	0.8	17.7	<10	<2
R11-112	Soil			4.49	9.5	1.4	<0.05	9.8	15.00	41.8	0.06	1	1.3	19.4	<10	<2
R11-113	Soil			5.17	8.9	1.2	<0.05	14.7	15.88	38.7	0.05	1	1.2	13.7	<10	<2
R11-114	Soil			1.33	9.8	0.8	<0.05	6.7	16.80	39.8	0.06	1	1.1	20.0	<10	3
R11-115	Soil			1.83	7.1	0.5	<0.05	7.9	6.90	25.9	0.05	<1	0.8	20.1	<10	<2
R11-116	Soil			12.41	12.9	3.5	<0.05	14.2	17.57	57.3	0.07	<1	2.2	16.6	<10	<2
R11-117	Soil			1.93	8.1	0.6	<0.05	5.3	6.14	27.5	0.06	<1	0.8	23.9	<10	2
R11-118	Soil			1.71	8.1	1.0	<0.05	7.6	13.15	35.0	0.06	<1	1.0	17.9	<10	<2
R11-119	Soil			9.81	10.2	2.3	<0.05	11.6	7.37	34.1	0.06	<1	1.1	19.6	<10	<2

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-120	Soil			1.68	63.12	9.33	103.9	82	56.7	16.5	903	4.42	9.8	1.1	3.4	2.5	15.9	0.19	0.50	0.21	83	0.26	0.109
R11-121	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R11-122	Soil			2.31	33.57	10.09	58.5	300	14.8	7.2	833	3.54	4.7	1.2	2.3	0.2	14.4	0.11	0.46	0.21	60	0.31	0.179
R11-123	Soil			1.88	62.55	11.97	80.3	136	47.3	18.1	1182	5.05	12.7	0.7	3.0	1.2	18.0	0.21	0.89	0.16	124	0.26	0.114
R11-124	Soil			1.87	55.47	18.60	133.5	71	37.1	21.9	2473	5.36	13.1	0.8	7.8	1.1	19.0	0.38	0.88	0.22	95	0.37	0.128
R11-125	Soil			1.13	84.67	17.00	96.0	77	52.9	21.9	1763	4.57	14.7	0.7	4.3	1.4	20.1	0.32	0.72	0.17	116	0.35	0.133
R11-126	Soil			2.01	57.18	9.01	127.2	294	23.7	9.8	928	4.05	11.4	1.4	2.7	0.6	22.2	0.22	0.54	0.22	71	0.56	0.136
R11-127	Soil			1.11	108.5	10.81	79.2	119	56.9	21.0	1476	4.65	12.6	0.7	4.3	2.0	26.1	0.13	0.75	0.18	123	0.42	0.122
R11-128	Soil			0.98	134.4	22.58	152.4	457	30.1	21.7	2741	4.99	16.8	0.9	5.6	1.1	25.7	0.63	1.24	0.24	143	0.53	0.114
R11-129	Soil			1.07	109.3	10.37	76.8	155	52.8	18.9	1264	4.26	12.5	0.7	3.7	1.9	27.7	0.17	0.68	0.17	108	0.45	0.095
R11-130	Soil			1.60	33.62	13.06	72.2	172	27.4	12.3	891	4.39	5.7	0.9	23.5	0.4	11.3	0.25	0.42	0.21	85	0.22	0.093
R11-131	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-132	Soil			1.61	26.45	7.77	77.3	68	48.3	16.2	826	4.91	4.7	0.7	15.1	1.1	12.4	0.19	0.32	0.14	99	0.23	0.073
R11-133	Soil			1.33	50.42	11.03	63.3	813	27.4	9.0	503	4.14	4.9	0.9	3.1	0.3	19.8	0.17	0.42	0.16	85	0.37	0.134
R11-134	Soil			1.73	38.02	8.07	55.5	316	40.7	11.5	624	4.82	4.7	0.8	1.5	1.4	9.9	0.11	0.32	0.11	80	0.19	0.105
R11-135	Soil			1.23	129.7	11.41	87.0	142	54.8	18.0	1340	4.32	12.7	0.9	4.8	1.3	20.5	0.17	0.57	0.21	99	0.35	0.129
R11-136	Soil			1.68	33.45	9.78	75.2	119	58.0	22.4	1147	5.45	6.0	0.6	0.6	2.3	13.9	0.17	0.42	0.12	100	0.29	0.078
R11-137	Soil			1.56	70.75	10.52	75.3	137	30.6	12.0	890	3.95	7.8	1.0	2.7	0.6	18.0	0.11	0.46	0.23	79	0.27	0.138
R11-138	Soil			1.67	12.69	7.63	32.9	98	7.4	4.0	331	2.49	2.2	0.5	6.7	0.3	15.3	0.27	0.40	0.23	93	0.16	0.062
R11-139	Soil			1.30	119.8	10.80	91.1	214	54.1	16.3	988	4.36	12.9	1.0	11.1	1.5	24.1	0.14	0.64	0.21	101	0.37	0.097
R11-140	Soil			2.75	20.82	36.23	61.8	183	21.6	13.4	1103	4.70	8.0	0.4	1.6	1.0	13.2	0.16	0.69	0.28	130	0.15	0.067
R11-141	Soil			1.58	94.18	11.58	92.1	335	29.4	12.0	975	3.83	10.4	1.1	3.8	0.8	25.4	0.15	0.47	0.25	76	0.43	0.128
R11-142	Soil			3.28	29.15	22.31	65.2	22	14.4	4.8	655	4.07	7.8	1.4	6.2	1.5	11.2	0.17	0.41	0.32	35	0.19	0.079
R11-143	Soil			1.20	83.83	9.08	82.4	109	58.7	18.7	1128	4.33	10.6	0.7	3.3	1.0	14.8	0.18	0.51	0.16	92	0.27	0.102
R11-144	Soil			1.04	52.56	6.87	123.8	244	57.5	20.5	1398	4.43	5.3	0.8	1.7	2.2	23.2	0.34	0.35	0.09	78	0.54	0.091
R11-145	Soil			1.10	101.9	9.00	104.3	185	86.8	21.2	1084	4.72	11.2	0.6	6.8	1.9	27.4	0.27	0.58	0.22	90	0.40	0.114
R11-146	Soil			1.89	111.5	19.33	146.4	951	65.0	22.9	1724	5.82	12.1	1.5	5.4	4.2	16.6	0.40	1.31	0.27	94	0.29	0.127
R11-147	Soil			1.35	96.53	11.29	108.1	192	72.4	18.7	998	4.42	15.9	0.6	17.4	1.6	19.8	0.33	0.82	0.18	93	0.32	0.116
R11-148	Soil			1.06	159.4	11.71	101.8	296	74.1	25.0	1572	5.88	12.7	0.8	9.7	2.0	28.2	0.22	0.75	0.22	148	0.52	0.152
R11-149	Soil			1.00	119.3	11.77	103.0	277	74.5	21.1	953	4.38	16.5	0.5	6.7	1.4	28.0	0.34	0.70	0.22	92	0.46	0.112

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	Analyte	Unit	MDL	1F15 La	1F15 Cr	1F15 Mg	1F15 Ba	1F15 Ti	1F15 B	1F15 Al	1F15 Na	1F15 K	1F15 W	1F15 Sc	1F15 Ti	1F15 S	1F15 Hg	1F15 Se	1F15 Te	1F15 Ga	1F15 Cs	1F15 Ge	1F15 Hf
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
				0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
R11-120	Soil			17.7	43.3	1.07	114.1	0.241	2	2.78	0.027	0.07	0.1	4.7	0.11	0.05	37	0.4	0.04	11.2	1.19	<0.1	0.28
R11-121	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R11-122	Soil			24.4	28.3	0.35	112.1	0.076	2	2.10	0.011	0.05	0.2	2.1	0.09	0.20	49	0.3	<0.02	13.5	1.45	<0.1	0.12
R11-123	Soil			9.6	40.7	1.19	130.7	0.163	3	2.22	0.007	0.06	0.2	6.1	0.09	0.07	81	0.3	<0.02	11.2	1.31	<0.1	0.11
R11-124	Soil			15.3	43.8	0.93	165.8	0.205	3	2.11	0.010	0.07	0.2	4.3	0.07	0.11	47	0.1	<0.02	15.0	2.50	<0.1	0.21
R11-125	Soil			11.0	39.9	1.40	144.2	0.145	2	2.34	0.010	0.07	0.1	6.7	0.07	0.06	83	0.3	0.05	9.2	1.08	<0.1	0.11
R11-126	Soil			23.2	34.5	0.39	127.2	0.122	2	3.04	0.014	0.04	<0.1	3.3	0.07	0.18	80	0.6	0.02	13.5	1.39	<0.1	0.27
R11-127	Soil			14.4	44.0	1.51	181.0	0.146	2	2.45	0.013	0.07	0.1	7.7	0.08	0.03	65	0.2	0.07	9.1	0.88	<0.1	0.13
R11-128	Soil			18.5	30.2	1.62	183.0	0.097	2	2.40	0.007	0.06	<0.1	8.9	0.08	0.06	75	0.4	0.04	9.6	1.39	<0.1	0.12
R11-129	Soil			14.9	40.8	1.34	217.9	0.138	2	2.37	0.012	0.07	0.1	7.7	0.08	0.03	44	0.2	0.06	9.0	1.05	<0.1	0.12
R11-130	Soil			16.7	38.5	0.61	78.8	0.160	<1	2.77	0.009	0.03	<0.1	2.7	0.07	0.11	56	0.3	<0.02	12.2	0.99	<0.1	0.26
R11-131	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-132	Soil			10.3	51.7	0.86	95.9	0.256	1	2.45	0.010	0.03	<0.1	3.6	0.08	0.07	93	0.3	0.04	12.2	1.11	<0.1	0.24
R11-133	Soil			17.7	45.6	0.54	126.1	0.121	2	2.97	0.013	0.05	<0.1	3.6	0.09	0.14	92	0.6	0.03	10.6	1.28	<0.1	0.23
R11-134	Soil			10.7	43.0	0.76	67.6	0.259	<1	1.93	0.012	0.03	0.1	3.3	0.07	0.09	181	0.4	0.04	11.4	0.82	<0.1	0.37
R11-135	Soil			18.0	45.1	1.29	180.1	0.164	2	2.88	0.014	0.07	0.1	6.6	0.09	0.08	47	0.6	0.04	10.0	1.50	<0.1	0.17
R11-136	Soil			13.4	47.7	1.24	99.8	0.407	<1	1.86	0.020	0.04	<0.1	3.8	0.05	0.05	72	0.2	0.02	12.7	1.12	<0.1	0.38
R11-137	Soil			20.9	34.2	0.68	155.1	0.102	2	2.84	0.016	0.06	0.1	4.0	0.11	0.12	62	0.4	0.04	11.8	1.49	<0.1	0.18
R11-138	Soil			6.8	14.8	0.14	109.6	0.058	<1	1.02	0.006	0.04	<0.1	1.9	0.10	0.05	80	0.1	0.03	8.8	1.25	<0.1	0.06
R11-139	Soil			22.2	42.4	1.30	214.3	0.144	2	2.77	0.013	0.07	0.1	7.1	0.08	0.06	62	0.3	0.05	10.7	1.38	<0.1	0.15
R11-140	Soil			6.7	34.3	0.43	121.8	0.217	1	1.73	0.008	0.04	<0.1	2.6	0.11	0.06	70	0.2	0.04	12.2	1.57	<0.1	0.11
R11-141	Soil			25.3	32.0	0.65	197.5	0.091	2	3.04	0.012	0.07	0.2	4.7	0.10	0.15	87	0.5	0.06	11.6	1.38	<0.1	0.24
R11-142	Soil			23.9	19.6	0.25	79.5	0.106	<1	2.55	0.026	0.05	0.4	1.8	0.08	0.08	61	0.4	0.02	19.0	1.59	<0.1	0.56
R11-143	Soil			12.5	41.3	1.22	119.5	0.200	1	2.52	0.019	0.05	<0.1	4.5	0.07	0.10	63	0.3	0.04	9.2	0.93	<0.1	0.26
R11-144	Soil			21.6	37.2	1.24	155.2	0.285	<1	3.10	0.031	0.04	<0.1	5.9	0.05	0.07	64	0.3	<0.02	10.3	0.89	<0.1	0.35
R11-145	Soil			15.8	56.6	1.45	192.5	0.225	3	2.40	0.024	0.08	<0.1	7.6	0.07	0.02	52	0.3	0.03	8.1	0.82	<0.1	0.17
R11-146	Soil			29.5	47.7	1.41	122.1	0.289	2	2.74	0.041	0.07	0.2	7.1	0.11	0.04	52	0.5	<0.02	12.3	1.48	0.1	0.25
R11-147	Soil			14.3	54.3	1.29	160.9	0.151	2	2.19	0.012	0.08	0.1	6.5	0.08	0.03	44	0.4	0.03	7.8	0.96	<0.1	0.09
R11-148	Soil			19.5	57.7	1.86	373.6	0.180	3	2.63	0.012	0.08	0.1	11.7	0.08	0.02	51	0.3	0.06	9.8	1.11	0.1	0.10
R11-149	Soil			13.0	50.4	1.52	198.7	0.136	2	2.13	0.013	0.10	0.1	6.8	0.07	0.02	46	0.4	0.07	6.9	1.03	<0.1	0.15

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

Page: 6 of 11 Part 3

CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
R11-120	Soil			7.03	8.4	2.1	0.07	25.5	11.61	43.7	0.07	<1	1.5	13.4	<10	<2
R11-121	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R11-122	Soil			11.17	8.9	3.4	<0.05	8.9	12.47	39.1	0.05	<1	1.3	6.6	<10	<2
R11-123	Soil			6.78	8.4	1.4	<0.05	9.0	6.05	25.4	0.05	<1	0.9	19.5	<10	<2
R11-124	Soil			11.41	14.8	3.3	<0.05	13.5	8.05	36.3	0.09	2	1.5	14.4	<10	3
R11-125	Soil			4.68	7.5	1.1	<0.05	9.2	7.52	34.3	0.07	<1	1.0	21.3	<10	2
R11-126	Soil			16.16	7.0	3.0	0.06	19.7	18.21	45.1	0.07	<1	2.0	10.9	<10	<2
R11-127	Soil			2.75	6.8	1.2	<0.05	12.0	9.88	36.0	0.05	<1	1.0	22.3	<10	<2
R11-128	Soil			3.38	8.7	1.2	<0.05	8.1	13.23	41.6	0.06	<1	1.3	20.0	<10	<2
R11-129	Soil			2.95	7.8	1.1	<0.05	11.6	11.05	32.8	0.05	<1	1.1	20.3	<10	2
R11-130	Soil			11.67	6.0	2.2	0.05	16.8	8.82	34.6	0.06	<1	1.3	7.3	<10	<2
R11-131	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-132	Soil			9.24	5.0	1.7	0.06	16.2	6.11	24.1	0.07	<1	0.9	14.5	<10	<2
R11-133	Soil			9.09	6.1	1.6	<0.05	15.7	12.41	31.8	0.06	<1	1.1	10.9	<10	<2
R11-134	Soil			12.15	4.6	1.7	0.09	22.8	5.01	25.2	0.06	<1	0.6	10.9	<10	<2
R11-135	Soil			5.60	9.3	1.4	<0.05	13.2	13.32	39.2	0.06	<1	1.4	17.2	<10	<2
R11-136	Soil			8.33	5.5	2.1	0.06	27.0	6.85	32.1	0.07	<1	1.0	12.4	<10	<2
R11-137	Soil			9.92	7.8	2.4	<0.05	12.8	13.59	42.8	0.06	<1	1.5	12.1	<10	<2
R11-138	Soil			6.02	5.3	2.0	<0.05	3.6	2.99	13.6	0.03	<1	0.4	5.5	<10	<2
R11-139	Soil			6.25	9.9	1.9	<0.05	13.3	16.25	39.8	0.06	<1	1.5	18.6	<10	<2
R11-140	Soil			8.52	9.0	1.9	<0.05	8.0	3.45	15.4	0.04	1	0.6	9.8	<10	<2
R11-141	Soil			11.81	10.5	2.3	<0.05	18.8	19.11	41.3	0.07	<1	1.7	12.3	<10	<2
R11-142	Soil			40.71	8.1	5.7	0.17	42.2	10.35	49.7	0.08	<1	2.1	9.5	<10	<2
R11-143	Soil			6.67	6.7	1.2	<0.05	17.3	8.35	32.7	0.05	<1	1.0	11.7	10	<2
R11-144	Soil			8.36	4.8	1.7	<0.05	26.7	12.43	53.3	0.07	<1	1.3	9.4	<10	<2
R11-145	Soil			1.63	7.2	0.8	<0.05	13.0	14.47	28.9	0.06	<1	0.9	18.9	13	<2
R11-146	Soil			4.57	8.6	2.4	0.08	30.3	21.06	61.7	0.08	<1	1.9	15.5	10	<2
R11-147	Soil			2.16	7.1	0.9	<0.05	8.2	12.60	27.4	0.04	<1	0.8	19.2	12	<2
R11-148	Soil			0.83	7.3	0.8	<0.05	9.6	16.15	34.1	0.05	<1	1.1	23.2	23	3
R11-149	Soil			0.74	7.8	0.5	<0.05	9.3	12.34	23.6	0.04	1	0.8	20.8	<10	<2

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-150	Soil			1.65	137.9	10.83	94.4	168	38.1	19.2	5382	5.16	7.5	1.0	6.2	1.0	19.8	0.26	0.98	0.23	134	0.37	0.152
R11-151	Soil			1.46	74.77	10.04	66.1	128	48.3	29.8	2207	5.08	23.9	0.7	4.5	0.8	15.9	0.13	0.69	0.38	107	0.30	0.116
R11-152	Soil			2.25	62.88	10.41	37.6	299	17.5	15.8	2287	2.94	4.2	0.8	3.3	0.3	33.4	0.14	0.50	0.22	82	0.82	0.246
R11-153	Soil			1.12	132.5	11.23	210.4	163	34.2	19.3	2238	5.43	16.1	0.9	3.2	1.3	27.4	0.74	0.65	0.19	153	0.64	0.141
R11-154	Soil			2.13	59.60	10.15	60.4	157	32.9	11.3	631	4.10	8.4	0.6	7.3	0.5	25.0	0.10	0.55	0.24	95	0.61	0.142
R11-155	Soil			1.90	129.9	14.79	191.9	280	48.6	32.3	1140	5.09	31.5	0.7	8.2	1.8	34.9	0.60	1.05	0.41	114	0.54	0.127
R11-156	Soil			1.92	61.44	10.45	69.0	179	30.3	13.2	1361	4.69	6.1	1.1	3.8	0.8	19.7	0.11	0.43	0.27	89	0.45	0.117
R11-157	Soil			1.55	100.6	13.67	76.8	225	27.2	15.4	1395	4.14	12.7	0.7	3.4	0.8	20.9	0.19	0.53	0.27	87	0.39	0.135
R11-158	Soil			1.81	53.85	7.63	83.3	86	46.2	26.2	1704	5.74	15.6	0.9	3.1	1.4	14.4	0.16	0.53	0.23	99	0.33	0.125
R11-159	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-160	Soil			2.26	64.79	11.53	85.8	156	54.8	32.2	2192	6.26	43.6	0.7	6.6	1.7	20.3	0.18	0.74	0.50	123	0.38	0.137
R11-161	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R11-162	Soil			1.60	40.93	8.22	71.5	49	50.4	20.4	1605	4.77	8.2	0.6	5.0	1.3	15.3	0.17	0.55	0.22	106	0.27	0.106
R11-163	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R11-164	Soil			1.25	110.5	11.20	84.1	112	59.5	22.2	1366	5.30	20.3	0.6	11.8	1.5	17.8	0.15	0.99	0.44	120	0.33	0.127
R11-165	Soil			1.08	40.54	9.40	52.2	159	24.5	10.7	1431	2.26	4.8	0.5	2.8	0.3	46.0	0.25	0.69	0.25	55	2.58	0.160
R11-166	Soil			1.70	42.62	9.09	69.3	34	36.3	11.2	535	4.03	6.8	0.9	257.8	1.1	9.1	0.21	0.43	0.19	54	0.20	0.088
R11-167	Soil			0.85	105.8	11.50	72.4	336	46.4	15.2	1295	3.66	9.4	0.4	6.5	1.1	27.6	0.19	0.75	0.23	78	0.58	0.085
R11-168	Soil			2.23	61.44	18.04	76.8	195	31.9	20.3	1646	4.63	37.4	0.7	13.8	0.4	16.4	0.35	1.12	0.51	111	0.27	0.143
R11-169	Soil			3.00	106.1	30.21	169.6	677	61.8	15.2	1135	4.00	23.4	1.0	8.8	1.1	25.9	0.47	2.12	0.20	86	0.63	0.109
R11-170	Soil			2.17	70.28	229.2	354.6	349	37.0	27.3	2068	4.81	366.5	0.6	14.7	0.5	17.0	1.81	5.10	1.67	125	0.34	0.108
R11-171	Soil			1.96	151.1	21.84	173.1	537	48.1	17.5	1293	4.52	13.9	0.9	12.3	1.1	21.0	0.31	1.39	0.46	98	0.35	0.113
R11-172	Soil			2.68	30.27	11.96	84.0	<2	16.2	9.5	1066	4.03	7.6	1.8	*	0.9	6.2	0.43	0.48	0.28	30	0.13	0.095
R11-173	Soil			1.37	144.9	24.22	98.1	142	46.2	23.9	1339	4.48	21.2	0.6	12.4	1.3	15.5	0.27	1.19	0.73	110	0.24	0.095
R11-174	Soil			1.59	136.2	49.24	158.3	341	59.4	19.8	1314	4.60	51.1	0.7	28.3	0.6	11.0	0.75	4.35	0.39	99	0.17	0.092
R11-175	Soil			1.31	39.17	18.69	104.6	95	36.6	17.7	1108	4.19	17.8	0.6	5.0	0.8	11.1	0.18	0.62	0.52	81	0.23	0.089
R11-176	Soil			1.79	128.0	41.48	136.9	387	43.6	24.3	2858	5.11	17.9	0.7	12.9	1.4	24.4	0.77	1.48	0.20	86	0.47	0.129
R11-177	Soil			1.12	96.75	29.67	121.3	191	34.7	21.6	1810	4.67	18.8	0.5	2.8	1.4	17.5	0.34	1.08	0.19	86	0.34	0.091
R11-178	Soil			1.45	79.77	6.00	116.3	85	58.6	22.2	1000	5.34	4.2	1.1	4.9	4.0	23.2	0.26	0.27	0.07	74	0.47	0.092
R11-179	Soil			1.81	70.23	14.72	73.3	115	28.8	14.1	909	3.92	6.5	0.5	5.1	0.2	12.3	0.12	0.67	0.13	77	0.19	0.146

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	Analyte	Unit	MDL	1F15 La	1F15 Cr	1F15 Mg	1F15 Ba	1F15 Ti	1F15 B	1F15 Al	1F15 Na	1F15 K	1F15 W	1F15 Sc	1F15 Ti	1F15 S	1F15 Hg	1F15 Se	1F15 Te	1F15 Ga	1F15 Cs	1F15 Ge	1F15 Hf
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
				0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
R11-150	Soil			28.1	41.9	1.18	305.2	0.104	2	2.88	0.009	0.06	0.2	11.2	0.12	0.11	107	0.4	0.07	11.5	2.03	<0.1	0.10
R11-151	Soil			13.9	37.8	0.99	133.9	0.147	1	2.38	0.013	0.05	<0.1	4.3	0.12	0.10	52	0.4	0.17	10.7	1.15	<0.1	0.12
R11-152	Soil			12.5	27.0	0.35	218.6	0.046	1	1.72	0.008	0.04	0.2	3.8	0.14	0.22	304	0.5	0.07	8.7	1.25	<0.1	0.09
R11-153	Soil			23.7	35.5	1.79	253.8	0.145	2	3.60	0.013	0.20	0.2	9.8	0.25	0.11	58	0.5	0.05	12.3	3.57	<0.1	0.13
R11-154	Soil			9.9	40.7	0.61	190.9	0.115	2	1.59	0.010	0.05	0.1	3.7	0.12	0.15	101	0.5	0.06	10.5	1.64	<0.1	0.11
R11-155	Soil			14.3	38.0	1.60	121.1	0.143	3	2.37	0.012	0.14	0.2	6.7	0.23	0.03	50	0.4	0.07	9.1	2.23	<0.1	0.09
R11-156	Soil			19.8	35.2	0.54	129.7	0.113	1	2.29	0.009	0.04	0.2	4.1	0.11	0.13	83	0.4	0.06	14.7	2.57	0.1	0.22
R11-157	Soil			14.4	27.0	1.05	232.6	0.085	2	2.46	0.010	0.10	0.2	4.9	0.14	0.08	43	0.4	0.07	11.2	3.42	<0.1	0.10
R11-158	Soil			13.6	35.2	1.05	90.2	0.196	1	2.38	0.015	0.04	0.1	5.0	0.08	0.10	69	0.4	0.11	12.5	1.02	<0.1	0.26
R11-159	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-160	Soil			16.0	43.8	1.06	134.4	0.244	1	2.45	0.017	0.06	0.1	5.0	0.12	0.09	93	0.6	0.11	12.7	1.47	<0.1	0.13
R11-161	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R11-162	Soil			13.3	38.1	0.94	147.9	0.164	1	2.18	0.011	0.05	0.1	4.3	0.09	0.08	58	0.3	0.09	10.3	1.08	<0.1	0.16
R11-163	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R11-164	Soil			14.9	41.9	1.36	171.5	0.097	2	3.04	0.005	0.08	0.2	5.8	0.12	0.05	51	0.4	0.11	9.8	1.08	<0.1	0.11
R11-165	Soil			9.9	21.7	0.47	166.7	0.045	3	1.25	0.012	0.05	<0.1	2.8	0.14	0.23	186	0.8	0.07	4.8	0.69	<0.1	0.10
R11-166	Soil			17.6	31.0	0.64	106.8	0.116	1	2.96	0.015	0.05	0.1	3.2	0.09	0.08	44	0.3	0.06	11.1	1.13	<0.1	0.39
R11-167	Soil			16.3	33.9	1.09	260.9	0.080	2	2.22	0.009	0.10	<0.1	6.6	0.08	0.06	79	0.3	0.05	7.0	0.77	<0.1	0.14
R11-168	Soil			9.8	35.0	0.76	172.5	0.080	1	2.07	0.008	0.05	0.1	3.7	0.12	0.13	77	0.5	0.26	10.0	1.17	<0.1	0.09
R11-169	Soil			20.1	46.0	1.15	217.7	0.099	2	2.48	0.011	0.07	<0.1	6.6	0.12	0.06	103	0.6	0.05	7.8	0.99	<0.1	0.11
R11-170	Soil			7.7	40.3	1.13	156.8	0.066	2	2.15	0.004	0.06	<0.1	4.4	0.13	0.07	82	0.7	0.20	9.9	1.38	<0.1	0.04
R11-171	Soil			19.0	42.0	1.08	321.6	0.112	2	3.70	0.013	0.11	0.1	8.6	0.16	0.09	114	0.7	0.12	12.0	2.14	<0.1	0.13
R11-172	Soil			24.3	19.6	0.31	89.0	0.067	<1	2.65	0.026	0.07	0.2	1.3	0.09	0.10	71	0.4	0.04	16.0	1.22	<0.1	0.62
R11-173	Soil			14.6	36.4	1.47	158.1	0.084	2	2.74	0.007	0.07	0.1	9.3	0.13	0.05	48	0.7	0.14	8.9	1.28	<0.1	0.07
R11-174	Soil			13.7	46.8	1.21	179.5	0.075	2	2.59	0.003	0.07	<0.1	5.6	0.12	0.07	59	0.3	0.13	8.2	1.51	<0.1	0.06
R11-175	Soil			11.8	28.0	1.22	191.3	0.067	2	2.44	0.008	0.07	0.1	4.5	0.09	0.06	46	0.4	0.12	9.1	1.27	<0.1	0.06
R11-176	Soil			22.6	29.8	1.50	391.5	0.110	2	2.19	0.011	0.11	<0.1	7.5	0.12	0.03	83	0.4	0.17	6.8	2.93	<0.1	0.08
R11-177	Soil			20.4	26.4	1.34	581.0	0.023	2	2.58	0.005	0.09	<0.1	6.6	0.12	0.03	49	0.5	0.18	7.3	1.76	<0.1	0.06
R11-178	Soil			29.3	37.2	1.28	181.5	0.412	<1	2.71	0.063	0.07	0.1	4.7	0.08	0.04	18	<0.1	0.04	10.7	0.88	0.1	0.39
R11-179	Soil			6.2	27.5	0.82	216.7	0.047	1	1.74	0.004	0.07	<0.1	2.5	0.10	0.10	54	0.4	0.07	7.0	2.64	<0.1	0.03

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
R11-150	Soil			4.25	8.6	1.6	<0.05	8.0	23.23	51.0	0.11	<1	1.5	19.9	17	3
R11-151	Soil			5.33	7.7	1.3	<0.05	8.2	8.61	33.7	0.08	<1	1.0	13.9	<10	<2
R11-152	Soil			6.88	4.0	1.3	<0.05	5.4	8.91	29.0	0.06	1	0.9	9.4	<10	<2
R11-153	Soil			4.18	17.6	1.1	<0.05	10.4	24.00	41.5	0.06	<1	1.7	27.5	<10	3
R11-154	Soil			9.25	8.4	1.7	<0.05	8.1	6.09	18.8	0.05	1	0.6	12.5	<10	<2
R11-155	Soil			1.85	10.9	1.0	<0.05	8.9	14.16	27.0	0.05	1	0.9	24.0	<10	<2
R11-156	Soil			16.30	5.4	2.8	0.05	16.5	14.37	53.7	0.07	<1	1.6	14.7	<10	<2
R11-157	Soil			9.61	12.9	2.7	<0.05	6.5	8.97	31.0	0.06	<1	1.1	18.3	<10	<2
R11-158	Soil			10.65	4.9	1.6	0.05	18.4	6.96	36.4	0.08	2	1.1	13.5	<10	<2
R11-159	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-160	Soil			6.88	9.2	1.6	<0.05	11.7	9.47	39.6	0.08	1	1.2	16.5	<10	<2
R11-161	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R11-162	Soil			6.80	7.8	1.3	<0.05	11.3	7.83	33.9	0.06	2	0.9	16.9	<10	<2
R11-163	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R11-164	Soil			3.57	9.8	0.8	<0.05	8.3	8.93	36.9	0.06	<1	1.0	18.9	<10	<2
R11-165	Soil			3.51	4.0	0.4	<0.05	6.5	8.75	18.1	0.04	1	0.4	6.9	<10	<2
R11-166	Soil			17.85	5.9	2.3	0.13	29.0	9.50	38.9	0.06	1	1.5	11.6	<10	<2
R11-167	Soil			2.88	7.1	0.6	<0.05	8.2	15.78	27.5	0.04	<1	0.9	18.1	<10	<2
R11-168	Soil			6.11	7.9	1.2	<0.05	5.8	6.29	24.8	0.04	<1	0.8	14.6	<10	<2
R11-169	Soil			3.77	7.7	0.8	<0.05	8.9	23.92	28.8	0.05	<1	1.1	16.8	<10	<2
R11-170	Soil			2.85	6.8	0.9	<0.05	2.6	5.14	22.8	0.07	<1	0.7	22.1	<10	<2
R11-171	Soil			6.56	13.3	1.5	<0.05	9.6	17.87	32.6	0.07	<1	1.3	22.1	<10	<2
R11-172	Soil			35.41	8.5	4.7	0.14	39.1	10.47	52.1	0.09	<1	2.4	7.2	<10	<2
R11-173	Soil			2.43	9.0	0.7	<0.05	5.4	13.16	31.4	0.07	<1	1.0	24.7	<10	<2
R11-174	Soil			2.36	7.9	0.7	<0.05	3.7	12.65	30.7	0.04	1	0.9	19.5	<10	<2
R11-175	Soil			4.05	7.5	1.1	<0.05	5.6	8.15	28.9	0.05	<1	1.0	24.7	<10	<2
R11-176	Soil			0.75	6.8	0.5	<0.05	6.3	22.84	33.2	0.04	3	0.9	24.0	<10	<2
R11-177	Soil			0.86	9.0	0.4	<0.05	4.1	16.90	35.1	0.05	<1	1.0	25.7	<10	<2
R11-178	Soil			4.58	6.4	2.3	<0.05	40.9	17.98	60.8	0.08	<1	2.1	8.0	<10	<2
R11-179	Soil			3.34	8.8	0.9	<0.05	2.6	4.27	14.0	0.04	<1	0.5	12.7	<10	<2

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-180	Soil			2.47	30.40	8.30	76.6	53	31.2	12.3	975	4.82	3.0	1.0	<0.2	1.1	11.2	0.18	0.28	0.17	73	0.22	0.078
R11-181	Soil			1.83	44.79	12.24	68.7	279	15.4	10.8	936	3.17	4.7	0.5	1.4	<0.1	17.6	0.30	0.47	0.15	64	0.34	0.191
R11-182	Soil			1.91	120.2	17.49	107.4	103	45.1	17.0	1317	4.76	6.1	0.8	5.4	0.9	42.8	0.33	0.60	0.17	72	0.88	0.144
R11-183	Soil			1.19	75.45	35.99	160.0	405	28.9	10.8	942	3.43	8.2	0.6	5.4	0.4	23.3	0.47	0.83	0.12	60	0.57	0.119
R11-184	Soil			1.48	66.92	6.98	38.6	313	8.2	3.7	630	1.10	1.9	0.9	1.1	<0.1	85.9	0.94	0.53	0.11	19	1.90	0.219
R11-185	Soil			2.10	84.66	71.04	257.3	1204	19.4	10.0	1492	3.70	8.4	0.8	5.3	0.5	32.6	0.35	0.98	0.13	60	0.92	0.164
R11-186	Soil			3.35	95.37	19.61	38.7	681	8.4	7.8	1320	2.92	4.2	1.6	3.5	0.4	51.0	0.29	0.63	0.18	50	1.04	0.234
R11-187	Soil			1.88	100.4	32.81	143.7	1187	25.9	10.6	1230	3.93	6.8	1.2	3.8	0.3	21.2	0.26	0.57	0.16	64	0.34	0.200
R11-188	Soil			3.04	217.1	17.83	98.2	369	22.1	10.8	1449	3.09	5.6	1.9	5.2	0.6	43.3	0.30	1.01	0.13	46	0.90	0.137
R11-189	Soil			1.48	45.04	11.93	92.7	148	43.0	19.7	1338	4.27	3.5	0.6	1.4	0.9	32.1	0.14	0.36	0.09	81	0.76	0.101
R11-190	Soil			1.58	136.6	8.93	135.7	203	41.6	13.7	793	4.49	6.1	2.6	2.7	3.9	14.9	0.24	0.68	0.15	59	0.36	0.088
R11-191	Soil			1.46	34.83	11.75	73.3	117	30.7	12.8	1158	3.68	4.1	0.9	2.1	0.5	13.1	0.14	0.37	0.17	55	0.24	0.102
R11-192	Soil			1.38	222.6	15.09	116.4	223	55.4	16.7	932	4.37	7.8	1.0	9.4	2.7	18.3	0.22	0.56	0.15	65	0.41	0.100
R11-193	Soil			1.34	91.48	23.25	100.9	222	40.0	18.6	1565	4.10	7.6	0.6	1.5	1.1	16.9	0.24	0.78	0.08	64	0.36	0.105
R11-194	Soil			1.39	238.1	20.13	122.9	199	43.6	13.3	926	4.11	7.4	1.0	23.2	1.4	18.0	0.24	0.60	0.18	67	0.33	0.135
R11-195	Soil			1.69	26.73	12.93	66.2	170	14.1	14.1	1907	3.24	4.0	0.6	0.8	0.2	15.8	0.27	0.43	0.13	71	0.22	0.211
R11-196	Soil			0.96	75.21	15.81	118.0	206	36.1	12.1	944	3.98	4.5	0.9	2.8	0.7	27.3	0.20	0.55	0.13	70	0.55	0.153
R11-197	Soil			1.62	67.80	10.94	76.6	289	21.4	10.9	1286	3.35	5.0	1.1	1.8	0.4	20.6	0.13	0.47	0.15	56	0.40	0.217
R11-198	Soil			1.25	61.85	15.79	58.0	347	16.6	8.5	1395	3.13	4.8	0.7	2.5	0.2	16.2	0.16	0.47	0.13	54	0.34	0.219
R11-199	Soil			1.65	36.77	13.85	71.9	95	21.6	20.8	2272	3.82	3.9	0.5	0.8	0.5	25.2	0.10	0.49	0.19	80	0.48	0.148
R11-200	Soil			2.93	35.67	13.88	75.9	195	26.1	15.6	1191	4.58	25.1	0.6	0.9	0.2	16.8	0.43	1.97	0.57	124	0.18	0.088
R11-201	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-202	Soil			2.00	180.7	15.89	67.3	2304	20.0	21.6	2735	2.50	66.1	2.9	4.7	0.3	44.8	1.29	14.33	0.24	48	1.26	0.270
R11-203	Soil			1.95	407.2	96.61	565.7	482	33.0	17.7	5181	4.15	15.6	0.6	27.1	1.0	24.0	4.25	1.51	0.10	54	0.62	0.164
R11-204	Soil			1.39	55.81	47.90	104.5	207	65.9	24.0	1162	4.90	25.4	1.1	<0.2	2.6	23.4	1.75	2.22	0.10	81	0.48	0.110
R11-205	Soil			1.27	477.0	15.21	112.1	248	51.3	17.5	1347	4.35	9.9	0.8	32.3	1.9	19.6	0.32	0.70	0.14	72	0.41	0.109
R11-206	Soil			3.15	43.28	33.01	145.3	209	34.9	12.8	1396	4.45	21.4	0.8	0.7	0.7	18.9	1.14	1.48	0.34	72	0.40	0.100
R11-207	Soil			1.83	120.7	20.00	103.7	97	39.9	19.0	1390	5.01	11.5	0.5	14.3	0.4	13.9	0.26	0.74	0.19	94	0.38	0.104
R11-208	Soil			2.64	129.0	55.12	173.4	679	47.7	17.7	1585	3.72	48.6	1.2	8.0	0.7	40.7	2.01	4.15	0.31	70	1.03	0.124
R11-209	Soil			1.99	81.04	9.45	74.9	179	28.0	12.5	1434	4.02	4.5	1.1	1.6	0.6	15.8	0.20	0.36	0.17	61	0.38	0.164

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
R11-180	Soil	15.4	45.6	0.61	100.8	0.235	<1	2.75	0.022	0.04	<0.1	3.1	0.08	0.11	45	0.5	0.03	15.3	1.18	<0.1	0.38
R11-181	Soil	5.9	23.9	0.45	277.2	0.031	<1	1.44	0.007	0.06	<0.1	1.3	0.11	0.17	62	0.3	0.04	6.9	2.41	<0.1	0.04
R11-182	Soil	16.2	37.9	0.95	290.4	0.141	2	2.31	0.017	0.05	<0.1	3.9	0.09	0.11	54	0.8	0.04	10.6	1.91	<0.1	0.22
R11-183	Soil	17.6	27.6	0.95	353.8	0.035	2	2.21	0.007	0.10	0.1	4.9	0.08	0.04	81	1.5	0.07	6.1	2.27	<0.1	0.04
R11-184	Soil	9.7	12.6	0.15	320.0	0.022	3	0.69	0.014	0.04	<0.1	1.1	0.08	0.27	148	3.0	0.05	2.9	1.67	<0.1	0.09
R11-185	Soil	16.3	22.8	0.64	878.2	0.016	<1	3.44	0.004	0.14	0.1	6.8	0.24	0.12	183	1.2	0.12	9.5	9.16	<0.1	0.22
R11-186	Soil	16.1	20.8	0.18	372.3	0.042	2	1.50	0.013	0.04	0.1	2.1	0.11	0.27	204	1.5	0.08	8.1	2.06	<0.1	0.19
R11-187	Soil	26.9	30.8	0.73	673.0	0.030	2	3.27	0.007	0.07	<0.1	4.0	0.14	0.17	152	1.3	0.04	11.0	4.22	<0.1	0.11
R11-188	Soil	28.7	23.7	0.43	467.1	0.051	3	2.69	0.015	0.09	0.1	4.3	0.12	0.21	80	2.4	0.06	8.6	4.13	<0.1	0.21
R11-189	Soil	11.5	40.5	1.21	398.5	0.217	<1	1.58	0.020	0.05	<0.1	4.5	0.04	0.13	39	0.5	0.03	9.9	1.65	<0.1	0.18
R11-190	Soil	35.7	32.4	0.82	337.1	0.256	2	3.40	0.033	0.06	0.1	5.2	0.08	0.07	31	1.7	<0.02	12.5	1.78	<0.1	0.73
R11-191	Soil	21.6	27.1	0.78	321.2	0.096	2	2.15	0.017	0.05	<0.1	2.8	0.07	0.10	37	0.7	0.04	11.8	1.93	<0.1	0.18
R11-192	Soil	23.4	40.8	1.22	384.6	0.178	2	2.53	0.021	0.08	0.1	6.1	0.06	0.03	30	0.9	0.05	8.7	2.31	<0.1	0.19
R11-193	Soil	13.8	30.1	1.15	392.3	0.106	2	2.49	0.016	0.08	0.1	5.5	0.05	0.07	55	0.6	0.04	6.9	3.22	<0.1	0.10
R11-194	Soil	24.0	39.3	1.03	415.1	0.117	1	2.45	0.016	0.10	0.1	6.4	0.08	0.06	45	0.7	0.07	9.6	3.04	<0.1	0.07
R11-195	Soil	5.4	27.1	0.33	221.5	0.057	2	1.39	0.008	0.06	0.1	1.9	0.08	0.19	54	0.5	0.06	6.9	1.59	<0.1	0.08
R11-196	Soil	26.0	35.1	0.96	971.3	0.092	3	2.55	0.016	0.07	<0.1	6.7	0.08	0.08	34	0.9	0.03	8.3	2.88	<0.1	0.08
R11-197	Soil	22.1	28.8	0.44	366.4	0.057	3	2.37	0.009	0.07	<0.1	2.8	0.11	0.20	87	1.1	0.03	8.7	3.64	<0.1	0.13
R11-198	Soil	19.9	22.9	0.40	414.3	0.024	2	1.93	0.008	0.08	<0.1	2.5	0.10	0.20	98	0.9	0.05	6.7	3.22	<0.1	0.04
R11-199	Soil	9.9	38.9	0.59	394.1	0.108	2	1.57	0.009	0.05	<0.1	3.0	0.07	0.14	38	0.6	<0.02	9.9	2.07	<0.1	0.15
R11-200	Soil	7.6	36.3	0.46	196.2	0.075	1	2.01	0.006	0.04	<0.1	1.8	0.09	0.09	36	0.6	0.06	11.2	1.57	<0.1	0.04
R11-201	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-202	Soil	34.9	23.0	0.23	213.4	0.033	2	1.82	0.010	0.04	<0.1	3.2	0.10	0.26	281	3.0	0.09	5.6	1.52	<0.1	0.10
R11-203	Soil	26.4	25.3	0.93	827.2	0.051	2	1.88	0.008	0.11	<0.1	6.9	0.36	0.04	162	0.7	0.06	5.1	4.32	<0.1	0.02
R11-204	Soil	23.5	44.9	1.44	114.0	0.398	1	3.41	0.049	0.05	<0.1	5.4	0.03	0.08	78	1.0	0.04	9.9	0.85	<0.1	0.39
R11-205	Soil	19.8	39.6	1.24	442.6	0.142	2	2.27	0.016	0.09	<0.1	6.6	0.09	0.03	38	0.7	0.10	6.8	2.98	<0.1	0.07
R11-206	Soil	13.5	42.2	0.62	127.6	0.155	1	1.78	0.013	0.05	0.1	2.5	0.06	0.10	26	0.7	0.02	13.9	1.61	<0.1	0.16
R11-207	Soil	7.0	42.2	1.03	282.9	0.112	2	2.19	0.004	0.06	<0.1	3.3	0.08	0.09	40	0.8	0.09	8.9	2.97	<0.1	0.06
R11-208	Soil	23.6	37.8	0.82	161.2	0.132	2	2.24	0.014	0.04	<0.1	5.1	0.07	0.15	106	1.8	0.04	8.2	1.24	<0.1	0.22
R11-209	Soil	19.9	35.7	0.60	287.7	0.134	1	2.44	0.011	0.04	<0.1	2.8	0.08	0.21	41	1.1	<0.02	12.4	1.47	<0.1	0.27

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

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CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
R11-180	Soil			16.99	5.5	3.4	0.08	29.4	9.13	33.6	0.05	<1	1.2	7.2	<10	<2
R11-181	Soil			4.21	8.5	1.2	<0.05	1.9	3.52	12.4	0.02	<1	0.4	7.0	<10	<2
R11-182	Soil			9.74	8.9	2.2	0.06	13.7	10.15	38.8	0.09	2	1.4	11.9	13	<2
R11-183	Soil			1.76	10.0	0.7	<0.05	2.0	15.62	26.6	0.04	2	0.7	20.5	<10	<2
R11-184	Soil			2.72	7.9	0.7	<0.05	3.4	7.55	15.3	<0.02	<1	0.2	2.1	<10	3
R11-185	Soil			5.16	22.3	1.5	<0.05	7.9	14.25	23.6	0.07	<1	1.1	19.8	<10	3
R11-186	Soil			8.12	5.4	1.6	0.07	9.4	10.05	27.4	0.04	<1	1.1	5.5	<10	<2
R11-187	Soil			9.71	10.3	2.5	<0.05	6.9	30.44	36.3	0.06	<1	1.6	16.7	<10	<2
R11-188	Soil			10.47	12.4	1.7	<0.05	14.4	23.37	42.1	0.06	1	1.8	13.0	<10	<2
R11-189	Soil			8.24	6.5	1.7	<0.05	17.0	9.70	18.5	0.05	<1	0.7	10.0	<10	<2
R11-190	Soil			13.06	6.9	3.0	0.05	58.3	24.90	68.8	0.06	1	2.6	14.3	15	<2
R11-191	Soil			10.47	6.5	2.9	<0.05	12.3	12.45	38.7	0.04	<1	1.3	9.0	<10	<2
R11-192	Soil			3.66	8.3	1.9	<0.05	17.6	18.69	39.6	0.06	<1	1.6	16.0	<10	<2
R11-193	Soil			3.90	7.7	0.9	<0.05	7.8	11.85	30.0	0.03	1	1.0	15.1	<10	<2
R11-194	Soil			4.85	10.1	1.9	<0.05	8.7	19.55	38.4	0.06	<1	1.5	16.5	<10	<2
R11-195	Soil			5.30	6.5	1.3	<0.05	3.5	3.63	12.4	0.03	<1	0.5	5.3	<10	<2
R11-196	Soil			4.13	8.9	1.4	<0.05	5.3	24.79	32.9	0.05	2	1.4	15.9	<10	<2
R11-197	Soil			8.12	11.5	1.7	<0.05	8.0	19.54	33.2	0.05	<1	1.2	14.1	<10	<2
R11-198	Soil			4.11	9.3	0.9	<0.05	2.9	15.30	25.0	0.04	<1	0.8	10.8	<10	<2
R11-199	Soil			5.99	8.2	2.2	<0.05	8.1	6.86	18.2	0.04	<1	0.8	8.4	<10	<2
R11-200	Soil			6.73	5.9	1.9	<0.05	3.1	3.89	16.7	0.03	<1	0.7	10.9	<10	<2
R11-201	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-202	Soil			4.60	5.2	0.7	<0.05	5.8	70.55	31.6	0.06	3	0.9	6.5	<10	<2
R11-203	Soil			0.98	8.3	0.5	<0.05	2.2	23.17	37.1	0.05	<1	1.2	17.1	<10	<2
R11-204	Soil			8.14	5.1	1.6	<0.05	35.3	16.38	54.0	0.05	<1	2.0	6.7	<10	<2
R11-205	Soil			2.16	8.2	1.1	<0.05	8.2	16.13	29.3	0.04	<1	1.4	18.6	<10	<2
R11-206	Soil			15.83	9.0	3.8	0.06	12.8	6.52	28.3	0.06	<1	1.0	11.4	<10	<2
R11-207	Soil			4.39	8.7	1.1	<0.05	5.2	5.49	14.7	0.04	<1	0.8	12.4	<10	<2
R11-208	Soil			10.62	8.1	1.5	0.08	16.2	21.77	38.2	0.05	<1	1.3	12.0	<10	<2
R11-209	Soil			14.18	5.5	2.8	0.08	19.2	13.70	38.3	0.06	<1	1.7	7.4	<10	<2

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-210	Soil			2.15	117.7	131.0	264.7	823	54.1	22.0	2190	4.77	122.6	1.6	9.0	1.6	25.1	3.12	8.03	0.70	106	0.73	0.084
R11-211	Soil			2.35	59.32	11.55	81.0	77	31.2	11.1	835	4.37	6.6	0.7	8.9	0.4	8.7	0.46	0.44	0.24	65	0.11	0.101
R11-212	Soil			2.41	115.5	15.73	91.8	1076	14.4	13.3	2692	2.97	51.8	1.9	14.1	0.4	47.2	1.56	1.73	0.81	59	2.02	0.191
R11-213	Soil			1.49	103.4	8.35	80.8	130	53.4	19.2	891	4.40	4.8	0.8	1.5	1.2	12.2	0.46	0.35	0.12	72	0.26	0.081
R11-214	Soil			1.88	37.19	16.99	59.3	130	23.7	9.6	748	4.02	7.0	0.9	1.9	0.4	9.5	0.35	0.77	0.22	84	0.11	0.090
R11-215	Soil			2.45	59.05	14.73	81.9	142	25.2	15.2	1599	4.39	8.3	0.8	2.9	0.5	11.7	0.28	0.51	0.26	79	0.12	0.126
R11-216	Soil			2.91	24.89	11.78	83.1	65	18.7	5.8	549	3.99	8.9	1.4	1.4	0.8	12.8	0.19	0.55	0.32	49	0.29	0.096
R11-217	Soil			3.79	44.28	11.96	66.7	142	17.9	6.7	638	4.06	6.6	1.5	*	0.9	6.6	0.21	0.43	0.28	44	0.10	0.108
R11-218	Soil			2.39	93.42	30.18	69.9	389	24.6	23.2	3395	4.18	18.9	1.4	4.2	0.3	22.1	0.75	1.16	0.26	67	0.41	0.238
R11-219	Soil			2.10	65.57	25.05	116.1	219	44.0	17.0	1619	4.38	23.2	0.7	9.7	0.7	14.5	0.60	2.87	0.47	99	0.20	0.116
R11-220	Soil			1.59	69.67	26.65	66.7	220	21.0	12.3	1665	3.74	19.0	0.9	7.8	0.2	16.3	0.28	0.99	0.35	70	0.30	0.161
R11-221	Soil			2.05	51.05	50.08	127.6	267	43.3	17.7	2004	4.46	32.8	0.7	9.6	1.0	19.9	0.98	3.11	0.46	96	0.28	0.123
R11-222	Soil			3.18	18.37	13.79	54.2	74	20.3	8.9	604	4.64	8.3	0.4	4.5	0.6	18.5	0.16	0.90	0.33	152	0.30	0.055
R11-223	Soil			1.96	57.49	97.76	198.7	217	48.9	19.0	1432	4.63	93.2	0.5	10.2	1.0	14.5	0.85	8.68	0.53	106	0.21	0.106
R11-224	Soil			1.18	130.4	13.46	70.6	134	18.8	28.8	2231	6.07	36.9	0.7	85.2	1.3	29.0	0.16	1.40	0.48	226	0.42	0.201
R11-225	Soil			2.04	28.57	61.81	125.1	112	25.1	12.7	1143	3.82	37.3	0.6	6.2	0.2	13.9	1.07	3.31	0.39	74	0.15	0.103
R11-226	Soil			17.28	97.72	10.20	100.0	128	15.8	13.4	2598	3.39	14.8	1.4	*	0.5	32.7	0.30	0.86	0.26	88	0.98	0.447
R11-227	Soil			1.32	142.8	29.41	135.0	562	61.1	20.1	1754	4.67	46.3	0.6	32.7	1.8	34.6	1.06	1.73	0.44	102	0.54	0.137
R11-228	Soil			1.39	159.6	21.41	110.3	169	21.8	28.7	2419	6.11	31.8	0.8	69.1	1.4	36.4	0.44	1.29	0.41	213	0.63	0.235
R11-229	Soil			1.22	103.8	32.28	128.6	333	35.9	19.0	2040	4.03	16.1	0.6	11.3	1.2	26.8	0.68	1.41	0.24	74	0.48	0.127
R11-230	Soil			1.59	112.2	21.11	117.2	265	43.3	21.7	1880	5.17	23.5	1.0	9.1	1.9	27.1	0.47	1.05	0.36	132	0.41	0.157
R11-231	Soil			1.40	92.12	8.20	72.0	171	31.9	18.7	2133	4.85	13.4	0.8	9.1	0.6	23.0	0.15	1.02	0.34	115	0.63	0.121
R11-232	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R11-233	Soil			1.24	58.92	8.47	55.8	109	34.9	17.6	1698	4.45	15.1	0.5	5.4	0.8	19.1	0.06	0.89	0.30	107	0.37	0.104
R11-234	Soil			1.71	38.17	11.83	70.6	228	23.1	12.9	1217	4.96	8.5	0.9	3.8	0.4	11.5	0.26	0.67	0.23	120	0.12	0.076
R11-235	Soil			1.65	73.70	10.11	57.9	143	21.5	20.3	1745	5.21	35.6	0.6	8.5	0.7	19.1	0.12	1.37	0.67	167	0.33	0.114
R11-236	Soil			0.90	17.07	4.68	26.8	137	9.2	8.4	195	1.63	3.6	0.3	2.6	<0.1	25.0	0.84	0.39	0.22	48	0.43	0.137
R11-237	Soil			2.74	21.35	8.95	72.8	82	18.7	9.0	933	3.69	10.2	1.2	<0.2	1.0	7.0	0.18	0.42	0.29	41	0.12	0.085
R11-238	Soil			2.33	20.06	9.95	60.7	19	16.1	4.6	763	3.98	6.3	1.1	<0.2	1.1	11.6	0.09	0.36	0.29	36	0.22	0.084
R11-239	Soil			1.98	48.92	10.68	68.6	166	28.3	10.0	939	3.96	12.4	1.0	3.3	0.4	15.0	0.18	0.57	0.29	64	0.28	0.115

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
R11-210	Soil	25.0	46.9	1.31	211.6	0.131	3	2.71	0.014	0.07	0.1	7.5	0.07	0.06	145	1.2	0.07	9.8	1.37	<0.1	0.11
R11-211	Soil	11.1	36.4	0.60	124.6	0.115	<1	2.02	0.010	0.05	<0.1	2.0	0.07	0.10	46	0.7	0.03	12.9	1.87	<0.1	0.15
R11-212	Soil	28.2	17.2	0.46	126.9	0.024	3	1.70	0.008	0.05	0.1	2.7	0.13	0.20	245	2.6	0.09	6.8	0.88	<0.1	0.18
R11-213	Soil	15.9	39.9	1.05	143.3	0.250	<1	3.26	0.021	0.03	<0.1	4.2	0.05	0.09	49	0.8	0.05	9.8	1.19	<0.1	0.35
R11-214	Soil	9.7	47.3	0.41	76.6	0.164	1	2.31	0.008	0.03	<0.1	2.8	0.08	0.14	55	0.7	0.07	10.9	1.21	<0.1	0.23
R11-215	Soil	11.5	32.4	0.57	185.2	0.119	1	1.72	0.018	0.06	0.1	2.4	0.06	0.14	39	0.8	0.08	11.6	2.00	<0.1	0.14
R11-216	Soil	20.7	27.5	0.30	59.9	0.113	1	2.95	0.016	0.05	0.2	1.6	0.09	0.12	37	1.0	0.04	15.5	1.33	<0.1	0.39
R11-217	Soil	22.4	26.8	0.34	65.0	0.120	2	2.42	0.027	0.05	0.2	1.5	0.11	0.12	61	1.1	<0.02	16.0	1.43	<0.1	0.49
R11-218	Soil	30.2	32.8	0.44	171.6	0.062	1	2.88	0.010	0.03	0.1	2.6	0.09	0.24	67	1.2	0.05	9.8	1.32	<0.1	0.08
R11-219	Soil	11.4	41.7	1.23	164.6	0.082	4	2.68	0.007	0.05	0.1	4.1	0.12	0.06	60	0.4	0.04	9.3	1.06	<0.1	0.08
R11-220	Soil	15.9	28.6	0.40	116.3	0.039	2	2.33	0.005	0.03	<0.1	1.5	0.10	0.19	68	0.4	0.05	8.4	0.99	<0.1	0.10
R11-221	Soil	13.2	40.6	1.05	207.4	0.075	3	2.59	0.009	0.05	0.1	4.0	0.14	0.06	64	0.4	0.08	10.3	1.28	<0.1	0.07
R11-222	Soil	6.5	39.1	0.44	121.9	0.205	2	1.16	0.007	0.03	<0.1	2.5	0.11	0.06	55	0.1	0.04	14.0	1.28	<0.1	0.12
R11-223	Soil	8.4	49.2	1.34	138.2	0.060	3	2.60	0.006	0.05	0.1	4.9	0.12	0.04	59	0.3	0.10	8.7	1.20	<0.1	0.07
R11-224	Soil	18.4	23.9	1.88	99.0	0.078	2	2.74	0.005	0.05	0.2	9.7	0.14	0.03	69	0.1	0.11	12.8	1.48	<0.1	0.04
R11-225	Soil	8.8	33.0	0.60	112.2	0.055	2	2.02	0.007	0.04	<0.1	2.1	0.10	0.09	45	0.3	0.07	8.3	1.23	<0.1	0.07
R11-226	Soil	43.0	23.9	0.62	139.2	0.019	2	2.62	0.006	0.04	0.1	4.1	0.09	0.29	63	0.6	0.06	10.4	2.69	<0.1	0.35
R11-227	Soil	20.8	47.8	1.57	258.2	0.146	3	2.55	0.014	0.10	0.1	8.1	0.09	<0.02	74	0.3	0.06	8.6	0.96	<0.1	0.12
R11-228	Soil	20.3	25.9	2.08	105.2	0.092	3	2.41	0.008	0.06	0.2	10.2	0.09	<0.02	42	0.3	0.12	11.9	1.48	<0.1	0.03
R11-229	Soil	18.9	27.5	1.26	423.2	0.063	3	2.06	0.010	0.10	<0.1	6.0	0.11	0.04	89	0.5	0.14	6.6	2.60	<0.1	0.04
R11-230	Soil	22.1	39.8	1.67	142.8	0.142	3	2.63	0.019	0.07	0.2	9.1	0.12	0.04	55	0.3	0.09	11.7	1.72	<0.1	0.08
R11-231	Soil	20.8	30.2	1.07	138.0	0.082	2	2.42	0.010	0.05	0.2	3.7	0.11	0.08	53	0.3	0.09	11.3	1.18	<0.1	0.08
R11-232	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R11-233	Soil	12.8	31.4	1.02	147.4	0.107	3	2.22	0.008	0.05	0.1	3.9	0.10	0.06	43	0.2	0.06	10.4	1.03	<0.1	0.10
R11-234	Soil	11.5	37.7	0.73	86.4	0.130	1	2.37	0.010	0.04	<0.1	3.7	0.12	0.09	88	0.4	0.06	11.0	1.56	<0.1	0.10
R11-235	Soil	12.7	23.7	1.12	132.4	0.051	2	2.47	0.003	0.07	0.2	4.8	0.15	0.03	39	0.3	0.12	10.3	1.52	<0.1	<0.02
R11-236	Soil	3.0	13.0	0.16	112.7	0.030	4	0.52	0.013	0.06	0.1	0.8	0.09	0.20	201	0.2	0.03	3.3	2.61	<0.1	0.03
R11-237	Soil	21.1	19.8	0.41	66.0	0.110	<1	2.35	0.026	0.05	0.2	1.6	0.11	0.07	53	0.2	<0.02	14.6	1.14	<0.1	0.35
R11-238	Soil	18.5	19.2	0.29	94.1	0.084	2	2.20	0.026	0.05	0.4	1.4	0.09	0.10	61	0.4	0.02	17.6	1.50	<0.1	0.40
R11-239	Soil	15.1	28.8	0.68	113.9	0.071	2	1.99	0.014	0.05	0.1	2.3	0.12	0.12	54	0.3	0.05	12.5	1.30	<0.1	0.16

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

www.acmelab.com

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Project: ROK_LGM
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
R11-210	Soil			4.84	8.7	1.3	<0.05	10.1	20.69	42.9	0.07	<1	1.4	19.8	<10	2
R11-211	Soil			15.58	7.1	2.9	<0.05	13.1	4.88	23.0	0.04	<1	0.9	9.4	<10	<2
R11-212	Soil			7.87	9.2	1.2	0.07	10.2	30.35	42.6	0.04	3	1.0	10.6	<10	<2
R11-213	Soil			10.88	4.8	1.7	<0.05	24.8	9.40	36.6	0.05	<1	1.2	7.7	<10	<2
R11-214	Soil			11.20	6.9	2.1	<0.05	17.1	5.99	19.7	0.05	<1	0.8	6.8	<10	<2
R11-215	Soil			12.02	11.3	3.4	<0.05	11.3	5.35	23.8	0.04	<1	0.9	6.7	<10	<2
R11-216	Soil			27.56	9.4	4.6	0.09	32.3	8.76	42.3	0.06	<1	1.8	9.2	<10	<2
R11-217	Soil			25.59	8.4	4.6	0.12	34.5	10.42	44.5	0.06	<1	1.2	7.0	<10	<2
R11-218	Soil			6.64	8.4	1.7	<0.05	5.2	22.35	51.1	0.06	<1	2.2	7.6	<10	<2
R11-219	Soil			4.09	7.1	1.1	<0.05	5.7	8.64	32.4	0.07	<1	1.0	18.7	<10	<2
R11-220	Soil			7.20	6.2	1.4	<0.05	8.2	12.32	35.0	0.06	<1	1.2	7.4	<10	<2
R11-221	Soil			4.87	9.3	1.5	<0.05	5.9	9.19	34.7	0.06	<1	1.0	17.4	<10	<2
R11-222	Soil			7.87	6.3	2.3	<0.05	8.9	2.83	15.4	0.03	1	0.5	6.2	<10	<2
R11-223	Soil			2.81	7.9	0.7	<0.05	4.3	6.64	21.6	0.05	<1	0.7	26.4	<10	<2
R11-224	Soil			1.44	9.4	0.8	<0.05	2.0	11.48	44.6	0.08	<1	0.9	24.2	<10	5
R11-225	Soil			4.28	7.4	1.3	<0.05	4.5	6.23	20.8	0.06	<1	0.8	11.7	<10	<2
R11-226	Soil			7.60	7.5	1.6	0.13	13.5	46.42	43.1	0.05	<1	1.8	12.5	12	<2
R11-227	Soil			0.94	7.5	0.8	<0.05	11.9	21.02	35.4	0.05	1	0.8	23.2	<10	<2
R11-228	Soil			1.10	7.2	0.9	<0.05	2.7	12.80	49.9	0.06	<1	1.4	24.3	<10	5
R11-229	Soil			1.40	7.3	0.6	<0.05	4.1	18.57	33.0	0.04	<1	0.7	24.1	<10	<2
R11-230	Soil			3.48	9.0	1.5	<0.05	8.6	15.84	46.2	0.07	<1	1.2	22.5	13	3
R11-231	Soil			5.25	9.7	1.7	<0.05	6.6	12.71	46.4	0.05	<1	1.4	14.2	<10	3
R11-232	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R11-233	Soil			5.16	9.0	1.2	<0.05	7.4	7.39	33.1	0.05	<1	1.1	16.1	<10	<2
R11-234	Soil			6.94	7.9	1.6	<0.05	7.8	5.87	30.1	0.05	<1	0.9	13.1	<10	<2
R11-235	Soil			2.47	13.9	0.8	<0.05	1.4	7.19	29.9	0.05	<1	0.8	21.6	<10	2
R11-236	Soil			2.78	5.7	0.6	<0.05	1.2	1.66	6.3	<0.02	<1	0.2	1.9	<10	<2
R11-237	Soil			21.49	8.1	4.2	0.20	28.3	9.91	48.2	0.07	<1	1.6	8.1	<10	<2
R11-238	Soil			30.07	6.0	5.3	0.18	30.2	8.10	40.9	0.07	<1	1.8	11.2	<10	<2
R11-239	Soil			13.66	7.4	3.0	<0.05	11.8	8.31	38.2	0.06	<1	1.2	13.3	<10	<2

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-240	Soil			1.41	92.13	13.90	67.4	122	28.8	11.6	1178	4.15	8.3	1.2	*	0.6	24.0	0.13	0.56	0.22	82	0.48	0.125
R11-241	Soil			2.16	34.37	12.62	61.9	207	15.3	8.8	990	3.84	11.3	0.6	5.6	0.4	15.0	0.22	0.69	0.28	109	0.17	0.141
R11-242	Soil			1.55	48.31	10.42	83.6	97	38.6	16.3	962	4.65	7.8	0.5	5.5	0.9	15.6	0.11	0.58	0.17	104	0.31	0.080
R11-243	Soil			0.99	238.5	13.02	92.7	310	42.9	18.8	1975	4.24	14.3	0.9	10.7	1.5	34.1	0.24	0.88	0.23	118	0.67	0.141
R11-244	Soil			1.70	28.48	10.57	50.8	39	32.4	10.5	584	4.29	6.0	1.1	*	1.8	14.9	0.14	0.37	0.26	70	0.24	0.090
R11-245	Soil			1.30	175.2	9.02	63.5	365	32.5	14.4	1562	3.47	7.2	1.5	5.7	0.7	46.7	0.28	0.55	0.15	83	1.87	0.147
R11-246	Soil			1.59	30.11	11.08	66.7	65	35.8	14.8	769	4.40	8.9	0.5	3.1	1.0	14.4	0.30	0.51	0.18	82	0.26	0.112
R11-247	Soil			1.10	160.6	18.32	214.1	514	35.5	17.8	2091	4.54	18.8	1.0	8.1	2.7	32.6	0.98	1.22	0.28	114	0.61	0.145
R11-248	Soil			1.72	68.76	11.52	43.7	199	16.7	8.9	1436	4.01	4.6	0.8	2.4	0.3	32.8	0.17	0.38	0.28	88	0.73	0.243
R11-249	Soil			1.16	131.1	10.63	120.5	215	60.0	19.9	1159	4.70	11.6	1.1	6.2	2.7	24.6	0.35	0.67	0.42	103	0.45	0.132
R11-250	Soil			2.11	70.17	13.56	164.2	612	22.5	6.8	886	3.41	4.6	2.9	*	0.9	50.1	0.38	0.48	0.29	40	1.77	0.138
R11-251	Soil			1.39	119.1	13.99	110.7	119	51.3	18.1	967	4.64	12.0	1.3	6.2	2.9	16.7	0.21	0.63	0.25	89	0.29	0.135
R11-252	Soil			1.38	82.37	15.15	104.8	103	29.7	12.4	968	4.18	10.7	0.9	5.2	1.5	15.3	0.19	0.78	0.27	76	0.28	0.077
R11-253	Soil			1.41	97.82	15.10	124.8	140	62.7	21.5	1321	5.10	11.4	1.2	8.1	3.2	17.3	0.34	0.62	0.31	99	0.31	0.132
R11-254	Soil			1.50	61.79	25.95	152.2	190	25.2	11.3	978	4.29	19.3	0.8	4.4	0.6	15.4	0.33	1.19	0.20	70	0.31	0.118
R11-255	Soil			1.20	127.0	13.00	120.2	170	56.1	21.6	1419	4.66	11.8	1.0	17.5	1.8	20.9	0.28	0.83	0.28	120	0.36	0.124
R11-256	Soil			2.23	75.71	30.43	153.1	253	38.7	15.0	1670	4.80	14.2	1.9	5.8	2.4	16.6	0.46	0.81	0.34	74	0.25	0.134
R11-257	Soil			2.32	38.72	12.00	62.0	372	16.1	11.3	1550	3.71	4.7	1.2	2.7	0.5	23.4	0.11	0.51	0.24	61	0.65	0.156
R11-258	Soil			2.28	53.93	21.72	101.8	291	23.4	8.6	855	3.90	11.0	1.5	3.4	0.5	15.2	0.13	0.49	0.26	63	0.56	0.155
R11-259	Soil			1.86	28.21	10.27	84.0	72	38.8	15.2	1339	4.75	5.0	1.0	*	1.6	11.1	0.19	0.42	0.20	62	0.22	0.092
R11-260	Soil			5.13	56.12	11.83	94.9	1091	14.8	12.3	2723	2.39	6.3	2.6	5.4	0.7	98.2	2.91	1.12	0.20	36	1.84	0.298
R11-261	Soil			2.67	9.77	10.85	66.5	16	11.7	4.7	604	4.20	4.6	1.3	0.9	0.6	6.0	0.18	0.28	0.33	41	0.09	0.095
R11-262	Soil			2.31	18.78	21.84	160.6	131	12.9	8.2	807	4.31	28.1	0.7	1.5	0.5	6.2	0.61	0.69	0.30	63	0.04	0.101
R11-263	Soil			2.62	11.82	11.48	66.5	144	14.3	4.6	445	3.91	4.7	1.3	1.9	0.3	5.9	0.15	0.30	0.28	47	0.08	0.096
R11-264	Soil			1.99	32.10	35.96	219.6	75	22.7	16.3	900	5.36	34.5	0.4	4.2	1.1	20.8	0.48	0.81	0.15	100	0.12	0.063
R11-265	Soil			2.16	27.24	22.77	71.4	40	16.6	11.0	1510	5.54	8.1	0.7	1.4	1.1	8.6	0.25	0.69	0.25	146	0.10	0.109
R11-267	Soil			1.96	33.73	47.76	163.1	83	26.0	18.8	1586	5.58	21.3	0.7	4.0	0.8	13.3	0.71	1.57	0.17	94	0.20	0.109
R11-269	Soil			2.83	115.3	18.15	105.9	1554	16.3	9.9	1806	3.57	14.4	1.4	14.2	0.9	93.8	0.45	1.04	0.26	47	1.52	0.149
R11-271	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R11-273	Soil			1.37	72.88	35.95	235.5	361	32.2	13.0	920	4.27	17.4	0.9	6.7	0.5	16.9	0.64	1.02	0.18	77	0.32	0.122

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

SMI11000455.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
R11-240	Soil	20.5	33.4	0.61	129.9	0.103	2	2.63	0.012	0.04	0.1	4.7	0.09	0.13	58	0.4	0.04	12.3	2.63	<0.1	0.23
R11-241	Soil	7.2	39.0	0.35	98.7	0.126	2	1.33	0.009	0.05	<0.1	2.8	0.11	0.14	92	0.2	0.04	8.8	1.34	<0.1	0.08
R11-242	Soil	11.9	39.2	1.14	153.9	0.150	2	2.16	0.010	0.05	<0.1	4.6	0.08	0.06	50	0.4	0.05	9.6	1.39	<0.1	0.15
R11-243	Soil	32.0	40.4	1.46	192.5	0.117	3	2.58	0.014	0.07	0.1	12.4	0.10	0.05	137	0.4	0.07	9.2	1.80	<0.1	0.14
R11-244	Soil	18.9	35.5	0.69	108.7	0.235	1	2.71	0.019	0.04	0.2	3.6	0.08	0.07	105	0.4	0.03	16.0	1.02	<0.1	0.48
R11-245	Soil	26.5	31.1	0.90	145.5	0.116	4	1.94	0.024	0.04	<0.1	6.3	0.09	0.16	174	0.7	0.03	7.6	1.41	<0.1	0.25
R11-246	Soil	10.6	35.4	0.88	107.7	0.165	2	2.05	0.014	0.04	0.1	3.5	0.09	0.07	131	0.2	0.05	9.8	1.46	<0.1	0.16
R11-247	Soil	21.3	34.1	1.40	174.3	0.116	3	2.29	0.017	0.09	0.1	9.4	0.07	0.03	78	0.3	0.07	8.8	1.91	<0.1	0.15
R11-248	Soil	19.3	32.6	0.33	210.4	0.051	2	2.08	0.007	0.04	<0.1	3.8	0.12	0.17	159	0.3	0.06	9.9	1.55	<0.1	0.09
R11-249	Soil	20.9	46.5	1.51	113.2	0.202	2	2.35	0.026	0.07	0.1	6.9	0.06	0.02	38	0.3	0.03	8.4	1.24	<0.1	0.22
R11-250	Soil	56.4	24.3	0.37	347.1	0.054	2	2.77	0.019	0.03	0.1	3.1	0.10	0.20	256	0.9	<0.02	10.8	1.19	<0.1	0.58
R11-251	Soil	24.0	42.2	1.27	107.4	0.220	3	2.80	0.026	0.05	0.1	6.9	0.12	0.05	41	0.5	0.06	10.5	1.40	<0.1	0.36
R11-252	Soil	21.4	26.0	0.89	233.0	0.033	2	2.46	0.011	0.06	0.1	6.1	0.10	0.04	56	0.3	0.07	9.3	1.46	<0.1	0.13
R11-253	Soil	21.6	49.2	1.55	107.4	0.288	2	2.87	0.028	0.06	0.1	6.5	0.10	0.04	30	0.3	0.03	11.1	1.36	<0.1	0.24
R11-254	Soil	19.1	25.6	0.81	287.6	0.015	3	2.35	0.009	0.05	<0.1	4.6	0.10	0.05	105	0.4	0.07	7.9	1.55	<0.1	0.05
R11-255	Soil	17.6	44.3	1.58	124.4	0.161	3	2.48	0.022	0.07	0.1	8.3	0.11	0.05	52	0.3	0.05	9.1	1.35	<0.1	0.11
R11-256	Soil	37.9	34.8	0.89	265.8	0.072	3	3.03	0.014	0.07	0.2	7.3	0.12	0.07	124	0.4	0.06	13.7	2.20	<0.1	0.16
R11-257	Soil	25.2	28.7	0.33	224.0	0.074	2	2.29	0.012	0.04	0.1	2.1	0.08	0.23	71	0.4	0.04	14.9	1.27	<0.1	0.22
R11-258	Soil	31.4	26.9	0.54	139.6	0.037	3	2.38	0.011	0.05	0.2	2.4	0.12	0.17	134	0.7	0.05	14.4	1.75	<0.1	0.19
R11-259	Soil	21.2	31.0	0.85	140.6	0.134	1	3.20	0.013	0.04	0.1	3.5	0.07	0.09	82	0.1	0.03	13.3	1.43	<0.1	0.35
R11-260	Soil	28.7	24.2	0.29	476.5	0.037	4	2.07	0.012	0.04	<0.1	2.6	0.19	0.32	570	2.7	0.05	8.3	1.25	<0.1	0.64
R11-261	Soil	22.4	22.1	0.20	68.1	0.070	1	2.71	0.014	0.04	0.3	1.2	0.10	0.12	60	0.2	0.03	19.8	1.23	<0.1	0.33
R11-262	Soil	12.5	19.8	0.41	124.1	0.013	2	2.66	0.007	0.06	0.3	1.6	0.12	0.05	107	0.3	0.07	13.1	1.66	<0.1	0.12
R11-263	Soil	18.0	27.6	0.26	61.8	0.061	1	2.52	0.013	0.04	0.2	1.1	0.10	0.12	62	0.4	<0.02	18.5	1.24	<0.1	0.24
R11-264	Soil	7.8	25.6	0.99	197.9	0.007	3	3.48	0.004	0.06	<0.1	5.1	0.15	0.04	91	0.4	0.11	8.0	1.74	<0.1	0.15
R11-265	Soil	10.1	29.6	0.61	86.7	0.119	1	2.21	0.006	0.05	<0.1	3.7	0.12	0.06	114	0.2	0.04	15.1	2.10	<0.1	0.07
R11-267	Soil	13.4	27.6	0.90	263.0	0.028	3	2.64	0.005	0.06	0.1	4.3	0.14	0.05	105	0.5	0.08	10.3	1.70	<0.1	0.06
R11-269	Soil	65.9	25.6	0.35	540.2	0.038	3	2.76	0.013	0.06	0.1	7.3	0.09	0.17	641	0.7	0.02	9.3	3.72	<0.1	0.39
R11-271	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R11-273	Soil	22.0	30.3	0.95	274.0	0.032	3	2.53	0.011	0.08	<0.1	4.9	0.11	0.04	146	0.2	0.06	9.6	2.49	<0.1	0.02

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

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 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
R11-240	Soil			14.55	6.4	2.4	0.13	16.0	14.69	75.3	0.08	<1	1.4	12.7	11	<2
R11-241	Soil			7.45	10.4	1.6	<0.05	5.8	3.51	17.0	0.03	<1	0.6	5.9	<10	2
R11-242	Soil			5.92	9.2	1.3	<0.05	10.1	7.57	26.9	0.04	<1	0.8	14.7	<10	<2
R11-243	Soil			3.71	10.9	0.9	<0.05	9.4	27.60	52.7	0.07	<1	1.3	24.3	<10	2
R11-244	Soil			24.24	5.4	3.6	0.32	33.7	10.76	44.4	0.06	<1	1.2	10.9	11	<2
R11-245	Soil			8.32	6.6	1.2	0.06	15.1	23.40	39.9	0.05	<1	1.3	10.9	20	<2
R11-246	Soil			8.34	6.6	1.6	0.08	11.0	5.75	27.9	0.06	<1	0.7	16.7	<10	<2
R11-247	Soil			2.25	8.9	1.6	<0.05	17.4	20.32	39.6	0.07	<1	1.3	25.5	<10	<2
R11-248	Soil			7.49	4.8	1.4	<0.05	4.5	14.08	40.1	0.07	<1	0.9	14.5	<10	<2
R11-249	Soil			2.78	6.5	1.5	0.07	21.9	16.27	44.1	0.06	<1	1.3	20.8	20	<2
R11-250	Soil			24.97	3.7	3.6	0.22	40.8	50.44	74.3	0.08	<1	2.8	14.3	22	<2
R11-251	Soil			6.45	7.0	2.0	0.06	32.7	16.60	54.5	0.07	<1	1.6	15.9	26	<2
R11-252	Soil			6.77	8.1	2.1	<0.05	10.3	18.25	46.5	0.06	<1	1.4	22.8	<10	<2
R11-253	Soil			3.94	7.6	2.1	0.08	26.4	15.07	48.5	0.06	<1	1.3	16.8	13	<2
R11-254	Soil			3.53	9.7	1.3	<0.05	3.2	13.02	36.3	0.06	<1	1.2	23.1	<10	<2
R11-255	Soil			3.10	6.8	1.1	<0.05	10.5	13.16	39.5	0.08	<1	1.0	18.1	<10	2
R11-256	Soil			8.76	11.8	3.1	<0.05	16.1	30.32	69.3	0.10	<1	2.4	20.4	13	<2
R11-257	Soil			20.25	5.5	3.3	0.07	16.1	16.17	48.6	0.07	<1	1.7	8.1	<10	<2
R11-258	Soil			16.33	6.8	3.4	0.07	12.0	21.77	47.0	0.06	<1	1.4	16.2	<10	<2
R11-259	Soil			19.47	6.3	2.5	0.13	28.4	12.11	55.8	0.08	<1	1.8	12.5	<10	<2
R11-260	Soil			9.71	3.9	1.6	0.21	26.5	31.91	48.9	0.06	2	2.0	9.5	<10	<2
R11-261	Soil			33.49	6.5	4.9	0.07	22.3	9.56	47.4	0.08	<1	1.5	7.5	<10	<2
R11-262	Soil			17.08	8.4	3.4	0.05	5.4	3.52	26.8	0.07	<1	0.6	20.2	<10	<2
R11-263	Soil			26.56	6.3	4.2	<0.05	16.2	7.48	38.7	0.07	<1	1.2	8.7	<10	<2
R11-264	Soil			1.63	9.1	0.5	<0.05	5.6	4.74	19.4	0.07	<1	0.8	36.1	<10	<2
R11-265	Soil			9.07	9.4	2.5	<0.05	5.7	3.71	24.7	0.06	<1	0.7	11.4	<10	<2
R11-267	Soil			5.31	9.8	1.4	<0.05	3.1	7.72	35.8	0.07	<1	1.2	27.4	<10	<2
R11-269	Soil			20.04	9.7	3.4	0.08	22.2	82.62	66.8	0.08	3	2.1	15.6	22	2
R11-271	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R11-273	Soil			2.74	10.4	1.7	<0.05	2.2	17.80	39.5	0.08	<1	1.3	23.9	<10	<2

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-275	Soil			2.07	32.31	58.08	229.8	222	14.8	12.8	1289	4.55	21.5	0.8	6.9	0.4	9.2	0.84	1.33	0.20	61	0.14	0.116
R11-277	Soil			1.39	65.05	46.34	157.6	199	20.5	24.1	2148	5.70	21.7	0.4	8.4	1.1	16.1	0.33	1.65	0.15	125	0.28	0.097
R11-279	Soil			1.11	53.24	30.78	152.2	284	26.4	18.2	1434	4.89	15.4	0.6	4.8	0.8	21.2	0.29	1.46	0.12	109	0.42	0.110
R11-281	Soil			1.98	59.12	10.14	133.4	270	38.8	12.4	1556	4.19	10.1	3.2	4.1	1.7	28.6	0.36	0.98	0.20	67	1.00	0.106
R11-283	Soil			1.73	73.03	10.27	66.4	161	21.9	14.1	2224	2.97	14.5	1.7	6.1	0.3	50.1	0.42	1.02	0.16	67	2.05	0.174
R11-285	Soil			1.89	59.79	12.84	93.6	101	33.6	15.7	1327	4.41	8.4	1.4	2.2	0.9	24.6	0.17	0.70	0.21	93	0.76	0.119
R11-287	Soil			1.90	71.85	16.75	130.4	186	62.4	20.1	1328	4.99	10.1	1.3	3.4	3.5	18.4	0.34	0.74	0.20	82	0.36	0.100
R11-289	Soil			1.49	65.43	12.12	144.7	145	72.3	22.2	952	5.21	6.9	1.3	3.4	3.5	20.1	0.33	0.59	0.15	89	0.44	0.105
R11-291	Soil			2.03	74.71	18.93	154.4	169	54.8	16.6	1179	4.87	12.2	1.5	9.2	2.6	22.3	0.40	0.90	0.20	86	0.48	0.136
R11-293	Soil			2.57	28.88	9.30	46.1	48	31.0	12.4	623	4.53	5.3	0.6	2.1	1.4	9.9	0.59	0.48	0.23	107	0.16	0.060
R11-295	Soil			1.49	47.05	11.17	76.0	98	67.2	21.1	961	4.59	9.0	0.7	1.8	2.3	16.9	0.32	0.43	0.11	75	0.38	0.088
R11-297	Soil			2.43	24.42	9.82	71.9	84	27.5	10.8	920	4.49	4.1	1.1	1.5	1.0	10.3	0.19	0.36	0.19	69	0.19	0.072
R11-299	Soil			1.40	119.7	32.69	143.1	312	46.9	21.6	1846	4.55	15.5	0.8	12.8	1.4	24.8	0.54	1.38	0.26	88	0.52	0.123
R11-301	Soil			2.73	53.47	14.11	122.3	90	71.3	22.2	1236	5.14	12.2	1.0	3.4	3.0	16.3	0.30	0.50	0.17	87	0.34	0.116
R11-303	Soil			34.42	60.97	209.2	189.7	144	51.5	30.2	9280	9.54	216.6	2.4	10.0	2.7	25.8	2.93	19.32	0.28	103	0.66	0.466
R11-305	Soil			1.38	111.3	10.55	92.6	104	53.6	19.2	2208	4.35	8.0	0.9	5.2	0.8	26.8	0.22	0.55	0.16	86	0.64	0.107
R11-307	Soil			10.98	43.68	11.82	36.4	73	10.0	4.9	294	2.61	4.4	0.7	1.6	0.4	15.1	0.13	0.51	0.30	81	0.24	0.076
R11-309	Soil			1.54	66.38	28.69	80.3	107	76.1	23.0	1273	4.84	10.2	0.8	1.1	1.9	12.4	0.31	1.07	0.10	71	0.32	0.099
R11-311	Soil			1.48	61.89	58.10	111.6	247	50.3	20.4	1327	4.72	14.4	0.9	3.4	2.4	26.7	0.53	1.49	0.24	76	0.63	0.100
R11-313	Soil			2.01	67.24	62.17	179.2	434	51.0	25.7	3240	4.77	76.4	1.2	13.5	1.9	23.2	0.94	1.24	0.49	93	0.60	0.108
R11-315	Soil			1.80	44.00	6.22	85.8	183	60.2	18.5	903	4.79	5.5	1.3	2.1	3.0	11.1	0.57	0.39	0.13	59	0.29	0.082
R11-317	Soil			1.72	61.87	13.44	105.3	296	50.9	18.2	880	4.61	11.3	1.2	3.9	3.2	18.0	0.58	1.09	0.13	61	0.37	0.092
R11-319	Soil			1.63	467.4	23.21	121.7	335	58.2	24.3	1760	5.29	39.1	0.9	9.3	1.6	22.5	0.52	1.44	0.43	97	0.41	0.107
R11-321	Soil			1.91	154.3	11.25	72.2	382	58.6	15.5	685	4.49	5.3	1.7	*	2.4	17.3	0.22	1.02	0.14	59	0.32	0.095
R11-323	Soil			2.22	208.6	14.67	110.5	140	57.4	20.9	1784	5.16	11.1	1.0	16.9	1.7	14.8	0.59	0.63	0.19	76	0.28	0.108
R11-325	Soil			2.81	237.6	11.64	88.0	596	39.2	17.2	1556	4.22	14.6	2.3	6.9	0.7	20.5	0.39	4.80	0.25	69	0.33	0.125
R11-327	Soil			2.30	96.69	16.94	110.0	178	49.7	21.0	1187	6.59	7.6	0.8	7.5	1.4	13.4	0.41	0.50	0.30	103	0.23	0.103
R11-329	Soil			2.80	550.8	16.02	105.9	738	27.6	11.8	911	4.44	11.0	0.9	16.3	0.3	31.4	0.36	1.19	0.25	82	0.40	0.111
R11-331	Soil			2.84	267.7	20.28	171.9	464	35.9	14.9	1049	4.48	19.5	1.1	12.3	0.5	28.1	0.23	1.06	0.21	70	0.58	0.126



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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
R11-275	Soil	17.9	17.3	0.64	170.2	0.024	3	2.58	0.011	0.07	0.2	2.2	0.13	0.05	176	0.5	0.08	11.4	1.68	<0.1	0.07
R11-277	Soil	14.0	20.1	1.34	265.3	0.007	3	3.12	0.003	0.08	<0.1	7.3	0.16	0.03	108	0.3	0.08	8.9	2.06	<0.1	0.07
R11-279	Soil	15.9	24.5	1.24	327.5	0.015	2	3.25	0.004	0.06	<0.1	6.5	0.11	0.03	91	0.3	0.07	8.2	1.44	<0.1	0.05
R11-281	Soil	34.5	35.5	0.70	238.9	0.149	2	3.07	0.024	0.05	<0.1	4.8	0.10	0.14	105	1.5	<0.02	12.1	1.89	<0.1	0.40
R11-283	Soil	23.4	22.8	0.60	412.2	0.048	4	1.69	0.012	0.06	<0.1	3.5	0.15	0.24	181	2.5	0.03	6.0	2.07	<0.1	0.11
R11-285	Soil	24.0	39.1	0.76	149.3	0.128	3	3.07	0.017	0.05	0.1	4.5	0.11	0.16	62	0.8	0.05	13.9	1.70	<0.1	0.21
R11-287	Soil	26.3	43.7	1.30	142.2	0.265	2	3.10	0.025	0.06	0.1	5.7	0.08	0.05	46	0.4	0.04	12.2	1.41	<0.1	0.26
R11-289	Soil	23.2	45.0	1.61	118.8	0.299	2	2.70	0.034	0.06	<0.1	5.3	0.07	0.04	38	0.2	0.04	10.6	1.35	<0.1	0.27
R11-291	Soil	30.3	40.2	1.15	118.1	0.220	2	3.00	0.031	0.05	0.1	5.3	0.09	0.09	48	0.5	0.06	12.0	2.01	<0.1	0.28
R11-293	Soil	7.8	32.4	0.66	68.4	0.192	1	2.52	0.010	0.03	0.1	3.4	0.12	0.06	88	0.4	0.06	12.1	1.52	<0.1	0.31
R11-295	Soil	13.3	40.9	1.23	119.0	0.337	1	3.58	0.032	0.05	<0.1	3.8	0.05	0.08	94	0.3	0.03	10.5	0.86	<0.1	0.46
R11-297	Soil	20.8	32.6	0.60	81.5	0.169	<1	3.06	0.015	0.04	0.1	2.6	0.06	0.13	64	0.3	0.03	15.4	1.06	<0.1	0.42
R11-299	Soil	19.6	31.4	1.61	341.3	0.085	2	2.33	0.011	0.10	<0.1	7.0	0.09	0.04	79	0.5	0.13	7.3	2.24	<0.1	0.07
R11-301	Soil	20.9	51.1	1.42	99.5	0.330	2	3.21	0.035	0.06	<0.1	5.1	0.09	0.05	38	0.3	0.04	12.2	1.33	<0.1	0.23
R11-303	Soil	28.6	66.9	1.11	122.7	0.052	2	3.40	0.004	0.05	0.4	6.9	0.74	0.04	110	7.3	0.26	7.8	1.53	<0.1	0.17
R11-305	Soil	24.4	45.1	1.05	152.1	0.167	2	2.72	0.015	0.04	<0.1	5.5	0.08	0.15	79	0.2	0.04	10.5	1.37	<0.1	0.18
R11-307	Soil	8.0	23.8	0.13	113.5	0.103	1	1.11	0.008	0.05	0.1	2.5	0.16	0.08	60	0.2	0.05	10.2	1.22	<0.1	0.07
R11-309	Soil	14.4	41.6	1.48	104.5	0.319	<1	3.48	0.029	0.04	<0.1	3.4	0.05	0.11	100	0.5	0.05	10.6	0.88	<0.1	0.42
R11-311	Soil	20.9	34.0	1.16	149.9	0.246	1	2.91	0.034	0.04	<0.1	4.3	0.06	0.08	81	0.4	0.04	9.8	0.83	<0.1	0.34
R11-313	Soil	23.0	35.0	1.20	187.5	0.201	1	2.83	0.024	0.04	<0.1	4.6	0.08	0.14	125	0.4	0.06	12.2	0.91	<0.1	0.40
R11-315	Soil	20.4	32.8	1.24	105.8	0.248	<1	3.46	0.029	0.04	0.1	2.9	0.08	0.09	65	0.3	0.03	11.9	0.69	<0.1	0.85
R11-317	Soil	30.6	33.3	1.05	156.2	0.295	<1	2.98	0.048	0.05	<0.1	4.0	0.04	0.07	87	0.3	<0.02	10.5	0.84	<0.1	0.52
R11-319	Soil	19.2	46.8	1.31	211.0	0.246	2	2.78	0.026	0.05	0.1	5.8	0.10	0.09	58	0.4	0.09	10.5	1.47	<0.1	0.21
R11-321	Soil	26.4	36.5	1.10	143.4	0.269	<1	2.55	0.037	0.04	0.1	3.1	0.07	0.09	83	0.4	0.03	11.1	0.94	<0.1	0.62
R11-323	Soil	16.1	41.9	1.20	174.6	0.232	2	2.69	0.029	0.05	0.1	3.8	0.07	0.10	68	0.5	0.11	12.0	1.38	<0.1	0.31
R11-325	Soil	26.7	35.8	0.73	185.1	0.114	<1	2.86	0.020	0.03	<0.1	5.1	0.14	0.13	159	0.8	0.03	9.6	1.64	<0.1	0.17
R11-327	Soil	11.0	51.1	1.13	169.6	0.286	1	2.37	0.018	0.04	<0.1	3.5	0.09	0.09	74	0.5	0.09	13.7	1.61	<0.1	0.24
R11-329	Soil	14.5	36.3	0.60	398.5	0.103	2	2.90	0.016	0.06	<0.1	4.0	0.17	0.10	96	0.5	0.15	11.5	2.51	<0.1	0.08
R11-331	Soil	25.0	35.7	0.90	421.5	0.066	2	3.32	0.017	0.08	<0.1	4.8	0.18	0.11	98	2.2	0.15	10.3	4.12	<0.1	0.06



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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
R11-275	Soil			8.13	8.0	2.4	0.06	5.4	9.20	45.5	0.07	<1	1.3	19.1	<10	<2
R11-277	Soil			1.19	11.2	0.6	<0.05	2.7	8.51	36.9	0.08	<1	1.1	33.5	<10	3
R11-279	Soil			2.14	7.7	0.6	<0.05	2.2	10.76	39.5	0.06	<1	1.3	27.9	<10	<2
R11-281	Soil			17.60	7.8	3.1	0.09	31.5	30.64	81.0	0.08	1	2.1	16.0	17	<2
R11-283	Soil			4.28	10.5	0.7	<0.05	5.4	19.44	40.9	0.05	3	1.1	12.5	20	2
R11-285	Soil			14.21	6.9	2.7	<0.05	17.1	18.11	48.5	0.08	<1	1.8	16.0	<10	<2
R11-287	Soil			5.02	9.1	2.4	<0.05	31.0	18.75	55.4	0.08	<1	1.9	13.8	<10	<2
R11-289	Soil			3.60	7.1	2.1	<0.05	27.4	16.24	47.8	0.06	<1	1.8	13.4	<10	<2
R11-291	Soil			9.79	8.1	2.4	<0.05	23.8	21.78	64.4	0.07	<1	2.3	15.2	<10	<2
R11-293	Soil			12.45	5.0	1.8	<0.05	21.5	4.73	19.1	0.07	<1	0.8	11.7	<10	<2
R11-295	Soil			10.97	5.9	1.6	<0.05	33.7	8.23	35.6	0.07	<1	1.3	9.4	<10	<2
R11-297	Soil			18.54	7.2	2.9	0.06	32.5	11.66	45.1	0.08	<1	1.7	7.4	<10	<2
R11-299	Soil			1.40	7.1	0.6	<0.05	5.7	18.84	34.0	0.04	<1	0.9	25.4	<10	<2
R11-301	Soil			5.32	8.6	2.1	<0.05	23.0	14.14	46.2	0.07	<1	1.6	12.1	<10	<2
R11-303	Soil			1.92	7.3	0.7	<0.05	11.7	26.53	113.0	0.12	16	3.1	20.4	<10	<2
R11-305	Soil			7.64	6.4	1.5	<0.05	11.6	20.15	45.0	0.08	<1	1.4	13.1	<10	<2
R11-307	Soil			8.91	7.3	2.3	<0.05	5.6	4.42	17.8	0.04	<1	0.4	4.9	<10	<2
R11-309	Soil			10.94	3.9	1.4	<0.05	33.0	9.77	39.0	0.06	<1	1.5	7.1	<10	<2
R11-311	Soil			8.65	5.2	1.8	<0.05	29.7	14.04	49.2	0.06	<1	1.5	9.5	<10	<2
R11-313	Soil			11.08	4.4	2.0	0.08	30.0	16.06	61.3	0.08	<1	2.0	12.2	<10	<2
R11-315	Soil			17.68	3.9	2.7	<0.05	64.7	11.97	60.0	0.06	<1	2.3	7.6	<10	<2
R11-317	Soil			11.02	5.2	2.3	0.06	39.6	17.18	62.3	0.06	<1	1.7	8.1	<10	<2
R11-319	Soil			7.66	7.1	1.9	<0.05	17.1	13.29	46.0	0.06	<1	1.4	17.3	<10	<2
R11-321	Soil			17.09	4.4	2.8	0.11	41.1	12.29	51.2	0.05	<1	1.5	8.2	16	<2
R11-323	Soil			12.44	7.4	2.5	0.06	25.0	8.29	37.3	0.06	<1	1.3	12.9	18	<2
R11-325	Soil			10.58	4.5	1.9	<0.05	14.5	24.44	47.8	0.06	<1	1.4	13.2	<10	<2
R11-327	Soil			10.97	6.7	2.2	<0.05	18.9	5.36	25.0	0.07	<1	0.8	11.5	<10	<2
R11-329	Soil			8.25	8.5	1.9	<0.05	7.2	10.54	27.0	0.05	<1	1.0	11.2	<10	<2
R11-331	Soil			7.03	12.2	2.0	<0.05	6.7	19.49	41.7	0.06	1	1.4	19.4	<10	<2



Acme Analytical Laboratories (Vancouver) Ltd.

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
880 - 609 Granville St.
Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
Report Date: November 19, 2011

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QUALITY CONTROL REPORT

SMI11000455.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
R11-008	Soil	1.18	47.28	13.64	80.3	70	58.1	14.6	774	3.84	6.3	0.4	17.2	0.9	12.4	0.13	0.60	0.10	71	0.25	0.090
REP R11-008	QC	1.06	44.73	12.75	75.2	54	55.4	13.5	735	3.70	6.2	0.4	8.6	0.8	11.8	0.10	0.57	0.10	69	0.24	0.085
R11-019	Soil	1.64	18.55	6.16	95.8	16	46.6	16.1	799	4.65	3.2	0.9	<0.2	1.4	13.0	0.19	0.23	0.20	73	0.27	0.091
REP R11-019	QC	1.74	18.42	6.42	95.0	5	46.3	16.4	791	4.58	3.3	0.9	1.5	1.4	12.7	0.18	0.24	0.14	72	0.28	0.092
R11-051	Soil	1.55	23.79	13.74	62.0	60	44.4	19.8	1297	4.83	6.4	0.5	2.9	0.8	12.2	0.10	0.44	0.26	105	0.15	0.074
REP R11-051	QC	1.51	24.61	13.74	62.0	61	43.4	19.3	1305	4.89	6.4	0.5	6.5	0.8	11.9	0.10	0.42	0.25	103	0.15	0.077
R11-071	Soil	1.52	73.52	13.16	90.0	139	45.1	15.6	1098	4.68	5.5	1.2	2.4	2.3	13.1	0.15	0.47	0.16	73	0.25	0.128
REP R11-071	QC	1.50	75.85	13.51	95.5	137	45.2	15.7	1104	4.79	5.5	1.2	3.4	2.4	13.0	0.15	0.46	0.16	72	0.26	0.128
R11-078	Soil	2.12	138.5	19.16	102.9	160	38.8	15.5	980	4.98	5.2	1.2	3.0	1.8	15.1	0.12	0.50	0.18	77	0.27	0.104
REP R11-078	QC	2.13	139.7	19.36	103.3	168	38.3	15.7	977	4.96	5.3	1.2	3.1	1.8	15.6	0.13	0.50	0.18	78	0.27	0.105
R11-101	Soil	1.14	63.47	11.49	82.8	100	70.0	20.7	749	4.07	13.8	0.4	4.7	1.1	21.2	0.17	0.76	0.20	87	0.26	0.097
REP R11-101	QC	1.15	65.96	11.81	82.7	110	72.8	21.4	780	4.10	14.0	0.4	4.0	1.1	20.8	0.19	0.83	0.21	89	0.27	0.102
R11-116	Soil	1.74	97.54	12.63	86.5	206	33.0	13.7	1211	4.39	14.9	1.4	7.9	1.2	23.9	0.17	0.81	0.40	79	0.46	0.114
REP R11-116	QC	1.70	95.75	12.95	86.7	188	32.2	13.8	1198	4.35	14.6	1.3	6.3	1.3	23.4	0.16	0.75	0.40	77	0.46	0.110
R11-123	Soil	1.88	62.55	11.97	80.3	136	47.3	18.1	1182	5.05	12.7	0.7	3.0	1.2	18.0	0.21	0.89	0.16	124	0.26	0.114
REP R11-123	QC	1.82	59.05	11.71	77.7	123	44.2	17.5	1190	4.91	12.3	0.7	4.5	1.1	18.0	0.20	0.83	0.16	121	0.25	0.108
R11-143	Soil	1.20	83.83	9.08	82.4	109	58.7	18.7	1128	4.33	10.6	0.7	3.3	1.0	14.8	0.18	0.51	0.16	92	0.27	0.102
REP R11-143	QC	1.11	77.57	8.45	76.6	96	54.3	17.4	1045	4.08	9.8	0.7	2.2	0.9	14.1	0.16	0.50	0.15	86	0.25	0.095
R11-147	Soil	1.35	96.53	11.29	108.1	192	72.4	18.7	998	4.42	15.9	0.6	17.4	1.6	19.8	0.33	0.82	0.18	93	0.32	0.116
REP R11-147	QC	1.37	97.60	11.60	111.9	184	72.5	19.3	1034	4.58	16.2	0.6	6.3	1.6	20.3	0.33	0.82	0.20	95	0.33	0.120
R11-172	Soil	2.68	30.27	11.96	84.0	<2	16.2	9.5	1066	4.03	7.6	1.8	*	0.9	6.2	0.43	0.48	0.28	30	0.13	0.095
REP R11-172	QC	2.79	30.59	12.41	85.6	<2	15.7	9.4	1103	4.20	8.0	1.8	*	0.9	6.2	0.40	0.49	0.29	31	0.13	0.100
R11-182	Soil	1.91	120.2	17.49	107.4	103	45.1	17.0	1317	4.76	6.1	0.8	5.4	0.9	42.8	0.33	0.60	0.17	72	0.88	0.144
REP R11-182	QC	1.99	122.0	16.72	111.5	88	45.5	16.7	1296	4.75	6.6	0.8	4.1	0.9	42.9	0.30	0.56	0.14	70	0.87	0.162
R11-194	Soil	1.39	238.1	20.13	122.9	199	43.6	13.3	926	4.11	7.4	1.0	23.2	1.4	18.0	0.24	0.60	0.18	67	0.33	0.135
REP R11-194	QC	1.35	239.0	20.48	118.0	207	44.1	13.7	954	4.16	7.4	0.9	11.3	1.4	18.1	0.28	0.60	0.17	67	0.35	0.136
R11-203	Soil	1.95	407.2	96.61	565.7	482	33.0	17.7	5181	4.15	15.6	0.6	27.1	1.0	24.0	4.25	1.51	0.10	54	0.62	0.164
REP R11-203	QC	1.99	406.8	97.50	563.3	501	32.2	17.6	5068	4.10	16.4	0.6	19.8	1.1	24.0	4.38	1.53	0.11	53	0.65	0.160

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Acme Analytical Laboratories (Vancouver) Ltd.

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM

Report Date: November 19, 2011

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QUALITY CONTROL REPORT

SMI11000455.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
R11-008	Soil	7.3	44.7	1.12	209.9	0.070	2	2.00	0.008	0.05	<0.1	4.0	0.09	0.05	39	<0.1	0.04	7.5	1.11	<0.1	0.11
REP R11-008	QC	6.8	41.6	1.06	192.4	0.071	2	1.92	0.008	0.05	<0.1	3.7	0.09	0.05	41	<0.1	0.05	7.0	1.21	<0.1	0.06
R11-019	Soil	15.6	39.4	0.94	141.6	0.280	1	2.78	0.027	0.04	0.1	3.0	0.03	0.11	58	0.2	<0.02	12.9	1.13	<0.1	0.47
REP R11-019	QC	15.6	39.0	0.93	145.1	0.274	1	2.73	0.026	0.04	0.1	3.0	0.09	0.11	58	0.3	<0.02	12.6	1.13	<0.1	0.46
R11-051	Soil	7.5	45.8	0.97	197.1	0.202	2	1.89	0.009	0.04	<0.1	3.3	0.10	0.07	43	0.3	0.05	9.7	1.27	<0.1	0.15
REP R11-051	QC	7.5	46.1	0.95	198.7	0.208	2	1.85	0.009	0.04	<0.1	3.1	0.10	0.07	52	0.2	0.05	10.0	1.24	<0.1	0.18
R11-071	Soil	21.9	39.0	1.05	252.5	0.197	2	2.70	0.026	0.07	0.1	4.9	0.07	0.06	36	0.3	0.02	11.4	2.74	<0.1	0.22
REP R11-071	QC	22.2	37.7	1.05	258.5	0.186	2	2.67	0.025	0.07	0.1	4.9	0.07	0.06	39	0.3	0.03	11.7	2.63	<0.1	0.23
R11-078	Soil	24.7	42.1	0.85	270.4	0.190	3	3.64	0.020	0.06	0.1	5.6	0.12	0.09	66	0.6	0.03	13.8	3.54	<0.1	0.31
REP R11-078	QC	25.4	41.1	0.83	279.8	0.185	3	3.73	0.019	0.06	<0.1	5.7	0.11	0.10	64	0.5	0.04	13.9	3.46	<0.1	0.36
R11-101	Soil	7.3	50.2	1.31	186.5	0.107	3	2.34	0.009	0.08	0.1	4.9	0.08	0.04	58	0.3	0.05	7.4	0.99	<0.1	0.06
REP R11-101	QC	7.3	51.3	1.33	192.4	0.112	3	2.41	0.009	0.08	<0.1	5.0	0.08	0.04	58	0.3	0.07	7.6	1.07	<0.1	0.08
R11-116	Soil	29.1	30.4	0.87	162.1	0.087	2	2.97	0.012	0.09	0.2	3.9	0.14	0.08	61	0.5	0.07	14.7	1.54	<0.1	0.17
REP R11-116	QC	28.5	28.9	0.85	161.9	0.077	2	2.89	0.011	0.08	0.2	3.8	0.13	0.08	52	0.4	0.06	14.7	1.41	<0.1	0.18
R11-123	Soil	9.6	40.7	1.19	130.7	0.163	3	2.22	0.007	0.06	0.2	6.1	0.09	0.07	81	0.3	<0.02	11.2	1.31	<0.1	0.11
REP R11-123	QC	9.4	40.8	1.18	125.8	0.161	3	2.16	0.007	0.06	0.1	5.9	0.08	0.07	82	0.3	0.03	11.0	1.26	<0.1	0.09
R11-143	Soil	12.5	41.3	1.22	119.5	0.200	1	2.52	0.019	0.05	<0.1	4.5	0.07	0.10	63	0.3	0.04	9.2	0.93	<0.1	0.26
REP R11-143	QC	11.9	38.0	1.10	113.6	0.189	1	2.35	0.018	0.05	<0.1	4.2	0.07	0.10	55	0.4	0.04	8.5	0.92	<0.1	0.23
R11-147	Soil	14.3	54.3	1.29	160.9	0.151	2	2.19	0.012	0.08	0.1	6.5	0.08	0.03	44	0.4	0.03	7.8	0.96	<0.1	0.09
REP R11-147	QC	14.6	54.2	1.34	164.7	0.156	3	2.28	0.012	0.09	0.1	6.7	0.08	0.03	57	0.4	0.06	8.0	0.95	<0.1	0.09
R11-172	Soil	24.3	19.6	0.31	89.0	0.067	<1	2.65	0.026	0.07	0.2	1.3	0.09	0.10	71	0.4	0.04	16.0	1.22	<0.1	0.62
REP R11-172	QC	24.9	20.4	0.32	91.1	0.068	<1	2.76	0.028	0.07	0.3	1.3	0.09	0.11	56	0.5	<0.02	15.9	1.26	<0.1	0.54
R11-182	Soil	16.2	37.9	0.95	290.4	0.141	2	2.31	0.017	0.05	<0.1	3.9	0.09	0.11	54	0.8	0.04	10.6	1.91	<0.1	0.22
REP R11-182	QC	16.2	38.4	0.95	287.5	0.179	2	2.29	0.015	0.05	0.1	4.3	0.08	0.15	38	1.0	0.03	10.5	2.26	<0.1	0.19
R11-194	Soil	24.0	39.3	1.03	415.1	0.117	1	2.45	0.016	0.10	0.1	6.4	0.08	0.06	45	0.7	0.07	9.6	3.04	<0.1	0.07
REP R11-194	QC	24.1	39.6	1.04	414.3	0.123	2	2.50	0.016	0.10	0.1	6.6	0.08	0.06	33	0.8	0.06	9.7	3.17	<0.1	0.11
R11-203	Soil	26.4	25.3	0.93	827.2	0.051	2	1.88	0.008	0.11	<0.1	6.9	0.36	0.04	162	0.7	0.06	5.1	4.32	<0.1	0.02
REP R11-203	QC	26.9	24.8	0.91	825.6	0.047	2	1.76	0.008	0.10	<0.1	7.0	0.37	0.04	163	0.8	0.11	5.0	4.02	<0.1	0.05

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Acme Analytical Laboratories (Vancouver) Ltd.

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

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 Report Date: November 19, 2011

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QUALITY CONTROL REPORT

SMI11000455.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
R11-008	Soil	3.41	5.9	0.8	<0.05	6.4	5.68	20.8	0.04	<1	0.7	19.4	<10	<2
REP R11-008	QC	3.27	6.2	0.7	<0.05	4.6	5.32	19.1	0.03	<1	0.6	18.7	<10	<2
R11-019	Soil	14.60	4.8	2.1	<0.05	34.3	9.57	36.8	0.06	<1	1.5	8.7	<10	<2
REP R11-019	QC	14.69	4.9	2.1	<0.05	34.7	9.69	37.4	0.07	<1	1.4	8.9	<10	<2
R11-051	Soil	6.12	7.0	1.7	<0.05	10.6	4.37	18.0	0.05	<1	0.6	10.4	<10	<2
REP R11-051	QC	6.50	7.1	1.6	<0.05	12.2	4.39	17.8	0.04	1	0.7	10.5	<10	<2
R11-071	Soil	6.36	8.4	2.5	0.06	19.3	16.08	44.9	0.06	<1	1.5	13.6	<10	<2
REP R11-071	QC	5.97	8.0	2.6	0.07	21.4	16.40	45.0	0.07	<1	1.3	13.7	<10	<2
R11-078	Soil	11.49	10.1	2.6	<0.05	27.9	18.08	49.1	0.07	<1	1.7	13.5	<10	<2
REP R11-078	QC	11.58	10.0	2.7	<0.05	29.1	18.35	48.6	0.06	<1	1.7	13.1	24	<2
R11-101	Soil	2.18	6.7	0.7	<0.05	5.4	6.00	18.2	0.04	<1	0.6	22.7	<10	<2
REP R11-101	QC	2.30	7.0	0.7	<0.05	5.3	6.10	18.5	0.04	<1	0.7	22.7	<10	<2
R11-116	Soil	12.41	12.9	3.5	<0.05	14.2	17.57	57.3	0.07	<1	2.2	16.6	<10	<2
REP R11-116	QC	12.82	11.7	3.5	<0.05	16.3	17.23	56.3	0.08	<1	2.1	15.0	13	<2
R11-123	Soil	6.78	8.4	1.4	<0.05	9.0	6.05	25.4	0.05	<1	0.9	19.5	<10	<2
REP R11-123	QC	6.40	8.3	1.3	<0.05	7.8	5.90	24.6	0.04	<1	0.8	19.3	<10	<2
R11-143	Soil	6.67	6.7	1.2	<0.05	17.3	8.35	32.7	0.05	<1	1.0	11.7	10	<2
REP R11-143	QC	6.27	6.3	1.2	<0.05	14.5	7.81	30.4	0.05	<1	1.0	10.9	<10	<2
R11-147	Soil	2.16	7.1	0.9	<0.05	8.2	12.60	27.4	0.04	<1	0.8	19.2	12	<2
REP R11-147	QC	2.16	7.5	0.9	<0.05	7.9	12.50	27.6	0.05	<1	0.9	19.6	19	<2
R11-172	Soil	35.41	8.5	4.7	0.14	39.1	10.47	52.1	0.09	<1	2.4	7.2	<10	<2
REP R11-172	QC	36.40	8.5	4.9	0.15	39.7	10.80	53.1	0.09	<1	2.5	7.1	<10	<2
R11-182	Soil	9.74	8.9	2.2	0.06	13.7	10.15	38.8	0.09	2	1.4	11.9	13	<2
REP R11-182	QC	8.46	10.2	2.0	0.09	13.2	10.35	36.6	0.06	<1	1.0	11.0	<10	<2
R11-194	Soil	4.85	10.1	1.9	<0.05	8.7	19.55	38.4	0.06	<1	1.5	16.5	<10	<2
REP R11-194	QC	4.70	10.4	2.0	<0.05	8.2	20.21	39.9	0.06	<1	1.0	16.3	<10	<2
R11-203	Soil	0.98	8.3	0.5	<0.05	2.2	23.17	37.1	0.05	<1	1.2	17.1	<10	<2
REP R11-203	QC	0.93	7.4	0.5	<0.05	2.8	23.50	38.5	0.04	1	0.7	17.7	<10	<2

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

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QUALITY CONTROL REPORT

SMI11000455.1

		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
R11-222	Soil	3.18	18.37	13.79	54.2	74	20.3	8.9	604	4.64	8.3	0.4	4.5	0.6	18.5	0.16	0.90	0.33	152	0.30	0.055
REP R11-222	QC	3.49	18.70	14.53	53.4	78	20.8	9.0	603	4.67	8.4	0.4	3.5	0.6	19.5	0.18	0.94	0.32	153	0.31	0.054
R11-239	Soil	1.98	48.92	10.68	68.6	166	28.3	10.0	939	3.96	12.4	1.0	3.3	0.4	15.0	0.18	0.57	0.29	64	0.28	0.115
REP R11-239	QC	2.28	53.74	11.40	74.8	189	31.4	10.8	1046	4.19	14.2	1.1	4.2	0.5	16.0	0.21	0.62	0.33	66	0.30	0.133
R11-277	Soil	1.39	65.05	46.34	157.6	199	20.5	24.1	2148	5.70	21.7	0.4	8.4	1.1	16.1	0.33	1.65	0.15	125	0.28	0.097
REP R11-277	QC	1.32	62.20	45.47	146.1	189	18.7	23.2	2119	5.23	20.8	0.4	8.2	1.1	15.0	0.34	1.72	0.14	117	0.27	0.095
R11-307	Soil	10.98	43.68	11.82	36.4	73	10.0	4.9	294	2.61	4.4	0.7	1.6	0.4	15.1	0.13	0.51	0.30	81	0.24	0.076
REP R11-307	QC	11.23	45.38	12.23	37.2	71	10.3	5.2	293	2.70	4.5	0.7	4.2	0.4	15.3	0.15	0.51	0.31	84	0.25	0.074
R11-317	Soil	1.72	61.87	13.44	105.3	296	50.9	18.2	880	4.61	11.3	1.2	3.9	3.2	18.0	0.58	1.09	0.13	61	0.37	0.092
REP R11-317	QC	1.86	64.87	13.76	115.1	338	53.1	18.8	918	4.81	11.8	1.3	4.3	3.4	19.5	0.62	1.15	0.14	65	0.40	0.099
Reference Materials																					
STD DS8	Standard	13.77	115.9	128.3	318.0	1786	40.2	7.9	629	2.62	26.2	3.1	123.3	7.6	68.5	2.61	5.61	7.30	44	0.77	0.084
STD DS8	Standard	14.00	108.9	124.8	316.4	1798	38.2	7.5	643	2.50	23.2	2.7	117.4	6.8	65.0	2.18	5.03	5.97	42	0.74	0.078
STD DS8	Standard	13.32	106.5	118.3	299.4	1656	36.8	7.4	588	2.32	24.8	2.8	105.1	7.2	66.5	2.19	5.53	6.30	40	0.66	0.075
STD DS8	Standard	12.73	104.6	115.5	289.6	1604	36.7	7.3	578	2.33	21.7	2.6	97.9	6.4	55.9	2.08	4.48	5.36	39	0.67	0.073
STD DS8	Standard	12.00	103.2	115.4	295.6	1690	36.3	7.3	578	2.27	23.2	2.6	104.4	6.3	59.9	2.20	4.96	6.01	38	0.68	0.074
STD DS8	Standard	12.91	106.5	119.0	297.7	1713	37.6	7.4	588	2.39	23.8	2.7	119.8	6.7	61.0	2.21	5.06	6.25	41	0.69	0.078
STD DS8	Standard	13.20	104.9	114.1	299.5	1649	38.2	7.3	593	2.38	22.3	2.6	129.8	6.1	58.7	2.09	4.74	5.56	39	0.70	0.074
STD DS8	Standard	12.29	96.00	118.5	281.9	1751	33.6	6.8	573	2.30	23.9	2.5	118.0	6.3	64.2	2.17	5.32	5.95	37	0.65	0.075
STD DS8	Standard	12.29	103.7	120.0	301.9	1716	36.4	7.4	591	2.37	23.8	2.8	102.2	6.8	63.9	2.26	5.20	6.58	40	0.70	0.078
STD DS8	Standard	13.22	119.8	119.2	310.1	1683	38.3	7.6	615	2.57	26.0	2.8	107.0	6.7	61.3	2.46	5.85	7.04	43	0.69	0.080
STD DS8	Standard	13.26	111.4	126.5	316.6	1829	38.1	7.3	590	2.43	23.9	2.9	109.1	7.1	63.7	2.24	5.52	6.14	39	0.72	0.082
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



Acme Analytical Laboratories (Vancouver) Ltd.

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM

Report Date: November 19, 2011

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QUALITY CONTROL REPORT

SMI11000455.1

		1F15 La ppm	1F15 Cr ppm	1F15 Mg %	1F15 Ba ppm	1F15 Ti %	1F15 B ppm	1F15 Al %	1F15 Na %	1F15 K %	1F15 W ppm	1F15 Sc ppm	1F15 Ti ppm	1F15 S %	1F15 Hg ppb	1F15 Se ppm	1F15 Te ppm	1F15 Ga ppm	1F15 Cs ppm	1F15 Ge ppm	1F15 Hf ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
R11-222	Soil	6.5	39.1	0.44	121.9	0.205	2	1.16	0.007	0.03	<0.1	2.5	0.11	0.06	55	0.1	0.04	14.0	1.28	<0.1	0.12
REP R11-222	QC	6.6	38.9	0.42	126.0	0.208	1	1.18	0.008	0.03	<0.1	2.6	0.11	0.06	42	0.2	0.06	14.1	1.32	<0.1	0.13
R11-239	Soil	15.1	28.8	0.68	113.9	0.071	2	1.99	0.014	0.05	0.1	2.3	0.12	0.12	54	0.3	0.05	12.5	1.30	<0.1	0.16
REP R11-239	QC	16.5	31.5	0.67	124.4	0.096	4	2.07	0.015	0.06	0.2	2.5	0.12	0.12	54	0.3	<0.02	13.2	1.61	<0.1	0.15
R11-277	Soil	14.0	20.1	1.34	265.3	0.007	3	3.12	0.003	0.08	<0.1	7.3	0.16	0.03	108	0.3	0.08	8.9	2.06	<0.1	0.07
REP R11-277	QC	13.3	19.3	1.30	251.6	0.003	2	2.91	0.003	0.06	<0.1	7.0	0.15	0.03	104	0.3	0.07	7.9	1.51	<0.1	0.10
R11-307	Soil	8.0	23.8	0.13	113.5	0.103	1	1.11	0.008	0.05	0.1	2.5	0.16	0.08	60	0.2	0.05	10.2	1.22	<0.1	0.07
REP R11-307	QC	8.5	24.0	0.13	117.8	0.104	1	1.17	0.008	0.06	0.1	2.6	0.18	0.08	65	0.1	0.06	10.4	1.25	<0.1	0.09
R11-317	Soil	30.6	33.3	1.05	156.2	0.295	<1	2.98	0.048	0.05	<0.1	4.0	0.04	0.07	87	0.3	<0.02	10.5	0.84	<0.1	0.52
REP R11-317	QC	32.9	36.1	1.12	162.9	0.312	<1	3.05	0.049	0.05	0.1	4.1	0.04	0.07	87	0.3	0.04	10.7	0.89	<0.1	0.55
Reference Materials																					
STD DS8	Standard	16.4	124.7	0.65	278.7	0.123	3	0.99	0.100	0.45	3.0	2.2	5.58	0.17	195	4.9	5.07	4.6	2.57	<0.1	0.08
STD DS8	Standard	15.5	121.2	0.64	263.6	0.111	2	1.05	0.110	0.45	2.7	2.4	5.49	0.16	214	5.3	4.99	4.9	2.45	0.1	0.08
STD DS8	Standard	15.6	117.7	0.59	260.2	0.121	3	0.90	0.087	0.40	2.8	2.3	5.02	0.15	171	4.3	4.99	4.5	2.26	<0.1	0.07
STD DS8	Standard	14.5	113.8	0.56	240.6	0.105	2	0.89	0.092	0.39	2.6	2.2	5.09	0.15	164	4.9	4.85	4.3	2.29	<0.1	0.07
STD DS8	Standard	13.1	117.2	0.58	245.0	0.102	3	0.92	0.097	0.41	2.8	2.2	5.12	0.16	180	4.8	4.42	4.5	2.21	<0.1	0.07
STD DS8	Standard	14.0	116.3	0.60	262.8	0.106	3	0.94	0.093	0.41	2.8	2.1	5.24	0.16	199	5.0	4.76	4.5	2.35	<0.1	0.07
STD DS8	Standard	15.0	120.1	0.58	248.2	0.113	2	0.87	0.081	0.39	2.6	2.6	5.22	0.15	154	4.9	4.73	4.5	2.32	0.2	0.08
STD DS8	Standard	14.7	112.5	0.57	274.8	0.104	2	0.91	0.099	0.40	2.8	2.0	5.29	0.14	173	5.0	5.09	4.4	2.35	<0.1	0.08
STD DS8	Standard	15.0	117.8	0.58	265.1	0.111	3	0.95	0.096	0.41	2.8	2.2	5.33	0.15	186	4.9	4.87	4.8	2.38	<0.1	0.10
STD DS8	Standard	16.1	116.2	0.63	270.2	0.126	2	0.94	0.092	0.42	3.0	2.4	5.29	0.17	183	4.9	4.81	4.6	2.43	<0.1	0.09
STD DS8	Standard	16.2	118.0	0.61	253.2	0.114	3	0.93	0.091	0.42	3.1	2.4	5.49	0.16	206	4.9	5.06	4.9	2.48	0.1	0.09
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

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Acme Analytical Laboratories (Vancouver) Ltd.

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

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QUALITY CONTROL REPORT

SMI11000455.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
R11-222	Soil	7.87	6.3	2.3	<0.05	8.9	2.83	15.4	0.03	1	0.5	6.2	<10	<2
REP R11-222	QC	8.36	6.4	2.3	<0.05	9.4	2.84	15.5	0.06	<1	0.4	6.1	<10	<2
R11-239	Soil	13.66	7.4	3.0	<0.05	11.8	8.31	38.2	0.06	<1	1.2	13.3	<10	<2
REP R11-239	QC	12.95	9.4	3.1	0.07	11.7	8.71	42.2	0.07	<1	1.3	14.1	<10	<2
R11-277	Soil	1.19	11.2	0.6	<0.05	2.7	8.51	36.9	0.08	<1	1.1	33.5	<10	3
REP R11-277	QC	1.05	9.1	0.5	<0.05	3.6	8.20	35.5	0.07	<1	0.9	30.8	<10	<2
R11-307	Soil	8.91	7.3	2.3	<0.05	5.6	4.42	17.8	0.04	<1	0.4	4.9	<10	<2
REP R11-307	QC	9.31	7.4	2.3	<0.05	5.9	4.59	18.7	0.04	1	0.4	5.0	<10	<2
R11-317	Soil	11.02	5.2	2.3	0.06	39.6	17.18	62.3	0.06	<1	1.7	8.1	<10	<2
REP R11-317	QC	11.94	5.4	2.5	0.05	43.2	18.07	66.4	0.06	<1	1.9	8.5	15	<2
Reference Materials														
STD DS8	Standard	1.25	37.8	7.2	<0.05	2.0	6.19	29.1	2.27	57	4.8	27.7	112	356
STD DS8	Standard	1.47	38.8	6.1	<0.05	1.9	6.23	28.7	2.16	54	5.2	28.2	119	342
STD DS8	Standard	1.41	35.4	6.2	<0.05	2.1	6.37	28.5	2.18	64	5.0	26.1	109	311
STD DS8	Standard	1.14	35.5	5.9	<0.05	1.8	5.52	25.9	2.08	52	4.8	25.2	107	319
STD DS8	Standard	1.31	35.8	6.1	<0.05	1.7	5.15	24.0	2.06	57	4.7	26.6	105	320
STD DS8	Standard	1.21	35.5	6.2	<0.05	1.9	5.45	25.8	2.12	53	4.5	25.3	115	332
STD DS8	Standard	1.51	36.6	5.5	<0.05	1.6	6.05	28.2	1.99	51	5.0	25.2	110	333
STD DS8	Standard	1.47	36.1	6.2	<0.05	1.9	5.88	27.7	2.12	43	4.6	27.7	101	333
STD DS8	Standard	1.40	37.5	6.2	<0.05	2.0	6.04	28.2	2.11	56	4.8	26.4	106	324
STD DS8	Standard	1.32	39.8	6.8	<0.05	2.0	5.97	26.8	2.19	53	4.9	26.9	96	333
STD DS8	Standard	1.31	39.4	6.5	<0.05	2.2	6.09	28.7	2.23	50	5.5	28.8	115	349
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 19, 2011

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QUALITY CONTROL REPORT

SMI11000455.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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Client: **Lions Gate Metals Inc.**

880 - 609 Granville St.

Vancouver BC V7Y 1G5 Canada

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QUALITY CONTROL REPORT

SMI11000455.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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QUALITY CONTROL REPORT

SMI11000455.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Lions Gate Metals Inc.**
880 - 609 Granville St.
Vancouver BC V7Y 1G5 Canada

Submitted By: Email Distribution List
Receiving Lab: Canada-Smithers
Received: September 16, 2011
Report Date: November 12, 2011
Page: 1 of 11

CERTIFICATE OF ANALYSIS

SMI11000457.1

CLIENT JOB INFORMATION

Project: ROK_LGM
Shipment ID:
P.O. Number
Number of Samples: 300

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

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

Invoice To: Lions Gate Metals Inc.
880 - 609 Granville St.
Vancouver BC V7Y 1G5
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	289	Dry at 60C			SMI
SS80	289	Dry at 60C sieve 100g to -80 mesh			SMI
1F05	289	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
RJSV	300	Saving all or part of Soil Reject			SMI

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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www.acmelab.com

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 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

Page: 2 of 11 Part 1

CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-400	Soil			2.31	119.6	38.10	83.7	535	11.1	10.8	1191	3.37	15.0	0.7	4.7	<0.1	23.7	0.33	0.93	1.67	51	0.18	0.197
R11-401	Soil			1.45	104.6	99.90	166.6	185	38.1	16.6	1901	4.06	13.0	0.7	2.3	1.0	31.7	0.67	1.50	0.24	71	0.28	0.129
R11-402	Soil			1.82	104.4	26.29	79.6	460	11.9	6.5	526	2.58	11.2	0.5	4.6	<0.1	26.6	0.36	0.71	1.45	38	0.22	0.211
R11-403	Soil			1.66	443.0	85.05	141.7	244	51.0	15.8	1282	4.34	11.6	0.8	3.5	1.1	25.5	0.59	1.17	0.19	72	0.25	0.119
R11-404	Soil			2.46	52.01	18.03	65.2	111	18.9	7.8	632	3.88	8.9	0.9	2.6	0.2	13.1	0.22	0.63	0.81	71	0.11	0.123
R11-405	Soil			1.59	38.95	42.60	111.1	150	37.8	11.9	924	3.87	12.0	0.7	3.0	0.5	22.5	0.40	1.21	0.16	64	0.16	0.098
R11-406	Soil			2.35	43.06	17.60	68.4	178	21.0	8.4	691	3.72	8.1	0.9	2.2	0.2	15.5	0.22	0.63	0.79	65	0.13	0.142
R11-407	Soil			1.24	29.09	60.33	111.7	107	29.2	13.3	1219	3.86	11.5	0.8	2.1	0.6	29.4	0.50	1.22	0.15	67	0.29	0.114
R11-408	Soil			1.88	34.35	14.81	89.2	91	29.5	12.4	1114	3.79	7.1	0.9	1.7	0.3	18.4	0.28	0.57	0.52	64	0.19	0.175
R11-409	Soil			1.81	27.84	200.6	228.0	185	26.7	12.8	1896	3.80	5.6	1.0	0.9	0.3	26.4	2.31	0.85	0.20	72	0.28	0.150
R11-410	Soil			1.64	27.48	9.86	76.1	96	28.8	9.1	595	3.38	6.2	0.9	1.0	0.1	17.1	0.24	0.58	0.40	59	0.18	0.144
R11-411	Soil			2.21	26.62	66.89	136.7	132	24.5	10.5	1613	3.92	7.1	1.0	2.6	0.2	19.7	0.83	0.74	0.21	65	0.19	0.177
R11-412	Soil			1.99	25.59	11.99	84.3	108	27.7	10.3	871	3.95	5.5	1.0	1.2	0.2	14.6	0.22	0.50	0.39	68	0.16	0.138
R11-414	Soil			3.10	181.2	19.03	158.8	297	38.0	16.7	1096	4.71	12.2	1.5	3.4	2.3	16.7	0.20	0.81	0.41	67	0.17	0.156
R11-415	Soil			1.67	23.12	12.25	100.7	107	33.8	11.1	858	3.80	6.2	1.0	1.1	0.3	18.2	0.41	0.60	0.20	61	0.21	0.142
R11-416	Soil			2.08	70.63	15.15	115.0	127	58.3	19.7	1258	4.66	11.6	1.0	1.6	2.1	23.4	0.20	0.75	0.36	74	0.28	0.186
R11-417	Soil			1.76	21.96	16.06	90.1	166	24.6	7.9	750	3.45	6.1	1.0	1.4	0.2	18.4	0.34	0.65	0.21	54	0.17	0.191
R11-418	Soil			0.88	50.69	12.80	97.9	82	29.8	14.7	1061	3.24	8.5	0.7	5.7	2.0	41.0	0.19	1.11	0.11	59	0.52	0.141
R11-419	Soil			2.09	44.31	35.80	166.3	281	37.3	12.3	1144	3.82	7.9	1.2	3.2	2.6	22.5	0.32	0.86	0.17	64	0.22	0.162
R11-420	Soil			1.67	109.8	12.57	107.4	186	25.8	21.2	1499	3.97	15.7	0.9	2.0	1.5	33.8	0.24	1.63	0.21	67	0.36	0.177
R11-421	Soil			1.40	46.67	119.1	188.4	260	51.1	17.0	1329	4.49	9.3	0.8	5.2	1.6	26.4	0.83	1.11	0.14	74	0.32	0.110
R11-422	Soil			2.26	218.7	23.40	110.5	336	33.5	21.9	1582	4.34	23.8	1.2	2.0	2.6	40.5	0.20	1.56	0.28	73	0.36	0.211
R11-423	Soil			1.42	54.98	130.4	189.3	250	40.5	16.0	1563	3.88	13.5	0.7	1.3	1.4	30.0	0.71	1.38	0.16	65	0.31	0.119
R11-424	Soil			2.08	68.07	13.23	100.0	165	35.0	13.9	842	4.52	9.6	1.2	1.2	2.0	17.4	0.14	0.71	0.25	71	0.22	0.188
R11-425	Soil			1.50	46.77	148.3	245.9	598	40.2	13.3	1496	3.64	12.9	0.7	1.8	0.6	30.4	1.24	1.53	0.17	60	0.33	0.137
R11-426	Soil			1.77	21.48	8.36	95.2	38	31.6	9.9	614	4.07	6.6	1.2	*	0.5	13.9	0.22	0.47	0.24	57	0.19	0.125
R11-427	Soil			1.78	26.82	158.0	104.9	712	10.7	10.4	1238	2.72	14.2	0.7	1.8	<0.1	30.7	0.73	1.74	0.21	49	0.30	0.187
R11-428	Soil			1.62	20.49	8.98	77.7	<2	33.5	9.3	539	4.22	5.9	1.3	<0.2	0.9	11.2	0.27	0.38	0.24	55	0.18	0.125
R11-429	Soil			1.37	30.22	172.8	177.8	95	44.8	15.1	1626	4.17	8.5	0.9	1.6	0.9	24.9	2.36	0.90	0.19	66	0.32	0.154
R11-430	Soil			1.71	21.62	10.67	98.4	62	27.8	10.5	812	3.57	6.9	1.0	2.1	0.4	20.7	0.28	0.61	0.23	58	0.25	0.149

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
R11-400	Soil	7.3	16.6	0.40	319.2	0.024	3	1.59	0.010	0.05	0.1	0.8	0.12	0.21	163	0.7	0.56	5.6	2.16	<0.1	<0.02
R11-401	Soil	10.5	33.5	1.06	234.7	0.115	4	2.28	0.011	0.06	0.2	3.7	0.12	0.08	73	0.4	0.21	6.8	3.11	<0.1	0.05
R11-402	Soil	9.4	14.8	0.44	257.9	0.018	2	1.53	0.017	0.07	<0.1	0.6	0.11	0.24	246	0.9	0.38	4.1	1.87	<0.1	<0.02
R11-403	Soil	10.9	41.2	1.05	238.2	0.124	3	2.50	0.011	0.07	0.1	3.8	0.14	0.08	66	0.4	0.17	7.9	3.07	<0.1	0.07
R11-404	Soil	8.8	27.4	0.39	105.7	0.087	1	1.99	0.011	0.04	0.1	1.4	0.15	0.14	106	0.5	0.25	11.8	1.99	<0.1	0.10
R11-405	Soil	8.1	36.5	0.80	205.0	0.064	3	2.19	0.009	0.06	0.1	2.7	0.13	0.08	81	0.4	0.16	6.8	2.62	<0.1	0.04
R11-406	Soil	10.3	27.1	0.40	149.1	0.078	1	2.05	0.013	0.05	0.1	1.5	0.15	0.15	110	0.5	0.18	10.4	1.93	<0.1	0.07
R11-407	Soil	10.3	26.9	0.94	175.4	0.086	2	2.18	0.007	0.07	0.2	2.8	0.12	0.07	86	0.2	0.04	6.4	2.89	<0.1	0.04
R11-408	Soil	12.4	29.6	0.61	183.4	0.089	2	2.56	0.015	0.05	0.1	1.7	0.14	0.15	73	0.4	0.14	9.0	2.41	<0.1	0.08
R11-409	Soil	12.3	28.0	0.67	238.3	0.104	1	2.25	0.013	0.05	0.1	2.0	0.13	0.12	226	0.3	0.08	9.5	2.50	<0.1	0.08
R11-410	Soil	11.7	26.9	0.58	145.8	0.064	2	2.48	0.015	0.05	0.1	1.2	0.11	0.12	69	0.4	0.13	8.5	2.09	<0.1	0.07
R11-411	Soil	12.4	28.7	0.55	175.4	0.078	2	2.23	0.017	0.06	0.2	1.6	0.14	0.16	103	0.4	0.05	10.2	2.75	<0.1	0.08
R11-412	Soil	12.2	30.4	0.56	150.2	0.105	1	2.64	0.015	0.05	0.1	1.6	0.11	0.14	67	0.5	0.09	10.8	1.97	<0.1	0.11
R11-414	Soil	22.6	37.9	1.07	202.4	0.109	2	3.67	0.013	0.09	0.2	4.5	0.19	0.06	80	0.5	0.16	13.3	6.89	<0.1	0.21
R11-415	Soil	14.3	30.1	0.68	182.4	0.082	2	2.68	0.018	0.06	0.1	1.9	0.13	0.12	73	0.3	0.04	9.7	2.07	<0.1	0.07
R11-416	Soil	15.1	44.7	1.24	123.3	0.224	2	2.76	0.024	0.07	0.2	4.1	0.13	0.05	61	0.5	0.19	10.1	2.55	<0.1	0.17
R11-417	Soil	13.2	26.2	0.48	175.3	0.062	2	2.32	0.015	0.06	0.2	1.3	0.14	0.16	92	0.4	0.04	9.2	2.94	<0.1	0.06
R11-418	Soil	12.6	24.9	1.09	146.1	0.120	2	2.11	0.005	0.05	0.3	3.4	0.09	<0.02	34	0.2	0.09	5.7	1.63	<0.1	0.07
R11-419	Soil	22.8	34.5	0.84	142.8	0.166	2	2.97	0.019	0.09	0.2	4.4	0.13	0.06	77	0.4	0.06	10.7	3.95	<0.1	0.16
R11-420	Soil	12.6	22.7	0.93	123.7	0.149	3	2.29	0.012	0.09	0.3	3.7	0.15	0.06	49	0.3	0.15	7.7	3.08	<0.1	0.07
R11-421	Soil	16.0	43.4	1.22	200.9	0.208	2	2.85	0.020	0.06	0.1	4.3	0.11	0.07	80	0.4	0.17	8.6	2.66	<0.1	0.13
R11-422	Soil	17.8	30.9	1.02	152.3	0.142	3	2.90	0.013	0.11	0.3	5.3	0.17	0.07	47	0.6	0.23	8.5	3.70	<0.1	0.09
R11-423	Soil	10.9	36.1	1.00	209.4	0.124	2	2.13	0.011	0.07	0.2	3.5	0.08	0.06	122	0.3	0.20	7.1	2.58	<0.1	0.08
R11-424	Soil	19.1	38.0	0.90	86.2	0.192	2	3.56	0.022	0.07	0.2	3.5	0.14	0.08	82	0.8	0.10	14.0	2.46	<0.1	0.25
R11-425	Soil	14.7	37.7	0.97	298.7	0.062	3	2.27	0.010	0.08	0.1	3.0	0.14	0.09	172	0.3	0.26	6.8	4.15	<0.1	0.03
R11-426	Soil	20.0	30.4	0.58	165.2	0.123	1	3.37	0.024	0.06	0.2	2.0	0.11	0.12	64	0.4	0.04	13.1	1.50	<0.1	0.22
R11-427	Soil	11.2	17.0	0.32	311.9	0.025	2	1.40	0.013	0.07	0.1	1.0	0.16	0.20	260	0.4	0.34	5.1	2.63	<0.1	<0.02
R11-428	Soil	19.1	33.8	0.62	128.2	0.157	<1	4.06	0.023	0.04	0.3	2.2	0.08	0.13	108	0.5	0.04	16.0	1.16	<0.1	0.47
R11-429	Soil	18.9	37.2	0.92	260.7	0.121	2	2.96	0.016	0.08	0.1	3.6	0.14	0.09	161	0.4	0.06	9.5	3.04	<0.1	0.08
R11-430	Soil	14.7	26.2	0.62	137.7	0.102	1	2.54	0.015	0.05	0.2	1.9	0.11	0.11	70	0.3	0.10	9.2	1.92	<0.1	0.11

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	0.1	0.02	1	0.1	0.1	10	2
R11-400	Soil	2.10	9.3	0.8	<0.05	1.0	5.91	15.4	0.05	<1	0.6	7.7	<10	<2		
R11-401	Soil	2.45	9.4	0.9	<0.05	4.0	8.01	26.0	0.04	<1	1.0	20.8	<10	<2		
R11-402	Soil	1.27	10.0	0.5	<0.05	0.5	7.18	19.0	0.03	<1	0.6	7.7	<10	<2		
R11-403	Soil	2.59	9.6	1.0	<0.05	5.1	7.72	27.5	0.04	<1	1.0	22.0	<10	<2		
R11-404	Soil	9.23	8.4	2.2	<0.05	8.2	5.11	19.6	0.04	<1	0.6	7.6	<10	<2		
R11-405	Soil	2.64	9.4	0.9	<0.05	2.6	5.12	18.2	0.02	<1	0.9	20.7	<10	<2		
R11-406	Soil	8.13	9.2	2.0	<0.05	7.0	6.41	22.6	0.05	<1	0.9	8.5	<10	<2		
R11-407	Soil	1.92	9.2	0.8	<0.05	2.2	6.12	23.8	0.03	<1	1.0	22.7	<10	<2		
R11-408	Soil	6.33	10.0	1.8	<0.05	6.0	7.93	28.5	0.05	<1	1.0	9.9	<10	<2		
R11-409	Soil	5.11	8.1	1.7	<0.05	5.1	7.71	26.3	0.03	<1	1.0	12.9	<10	<2		
R11-410	Soil	5.72	8.1	1.6	<0.05	4.5	7.19	26.7	0.04	<1	0.9	9.9	<10	<2		
R11-411	Soil	7.26	11.2	2.1	<0.05	4.9	6.92	26.3	0.04	<1	1.0	12.5	<10	<2		
R11-412	Soil	8.90	8.5	2.2	0.08	8.7	7.29	27.4	0.05	<1	1.1	9.0	<10	<2		
R11-414	Soil	6.59	17.5	2.6	<0.05	17.5	18.05	46.3	0.08	<1	2.0	29.4	<10	<2		
R11-415	Soil	7.47	8.3	2.0	<0.05	6.8	8.95	32.7	0.05	<1	1.3	13.6	<10	<2		
R11-416	Soil	5.57	9.4	1.8	0.08	13.4	9.85	36.3	0.06	<1	0.9	15.7	<10	<2		
R11-417	Soil	7.92	9.8	2.1	<0.05	5.4	7.65	28.6	0.05	<1	1.0	12.9	<10	<2		
R11-418	Soil	1.35	6.3	0.5	<0.05	4.2	7.85	28.5	0.02	<1	1.0	20.3	<10	<2		
R11-419	Soil	6.53	12.2	2.2	<0.05	14.9	15.39	46.8	0.06	<1	1.3	21.9	<10	<2		
R11-420	Soil	2.17	11.8	1.1	<0.05	4.7	9.16	29.0	0.04	<1	1.1	15.8	<10	<2		
R11-421	Soil	3.57	8.4	1.1	0.06	10.2	11.38	35.8	0.05	<1	1.1	17.6	<10	<2		
R11-422	Soil	2.71	12.2	1.4	<0.05	8.1	16.91	39.6	0.05	<1	1.3	20.8	<10	<2		
R11-423	Soil	2.99	8.3	0.9	<0.05	6.1	7.44	27.4	0.04	<1	0.8	22.1	<10	<2		
R11-424	Soil	11.86	10.0	3.0	0.07	24.7	12.69	42.5	0.07	<1	1.1	13.5	<10	<2		
R11-425	Soil	2.34	10.6	0.9	<0.05	2.2	9.91	30.4	0.03	<1	0.9	20.4	<10	<2		
R11-426	Soil	15.20	8.7	3.1	0.16	18.6	11.31	47.7	0.07	<1	1.6	11.3	<10	<2		
R11-427	Soil	2.11	8.1	0.6	<0.05	1.1	7.36	21.6	0.03	<1	0.8	6.0	<10	<2		
R11-428	Soil	24.42	4.8	3.3	0.27	36.4	10.84	47.0	0.06	<1	2.0	10.4	<10	<2		
R11-429	Soil	5.40	8.5	1.7	0.06	7.9	12.58	44.3	0.06	1	1.7	18.4	<10	<2		
R11-430	Soil	7.58	9.1	2.0	0.07	8.4	8.65	32.8	0.04	<1	1.2	13.1	<10	<2		

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-431	Soil			1.44	24.41	42.59	114.6	112	40.7	13.1	984	3.90	11.0	0.8	3.4	1.0	23.2	0.46	0.90	0.14	60	0.27	0.129
R11-432	Soil			1.86	19.73	9.24	98.7	38	32.9	9.2	537	3.92	10.3	1.1	*	0.6	14.1	0.23	0.51	0.24	59	0.19	0.133
R11-433	Soil			1.45	24.78	74.92	128.7	114	35.3	11.7	890	3.77	6.0	1.0	0.4	0.3	19.3	1.15	0.57	0.37	58	0.25	0.190
R11-434	Soil			2.75	56.87	15.49	165.0	297	33.9	11.5	812	4.41	8.1	1.6	*	2.7	14.7	0.43	0.52	0.60	55	0.23	0.132
R11-435	Soil			1.68	24.32	24.79	115.0	111	47.5	13.0	994	4.29	7.7	0.9	2.6	0.7	19.4	0.50	0.72	0.19	72	0.24	0.141
R11-436	Soil			1.67	22.98	14.77	143.4	70	26.8	9.4	753	3.91	6.5	1.1	1.0	0.3	21.0	0.64	0.64	0.25	61	0.21	0.135
R11-437	Soil			1.69	15.81	11.86	95.0	107	27.6	8.0	491	3.74	5.8	1.3	3.2	0.5	13.9	0.44	0.54	0.35	45	0.18	0.139
R11-438	Soil			1.77	27.04	101.4	95.9	288	19.3	7.0	633	2.55	5.9	0.6	2.0	<0.1	19.8	0.71	0.60	0.38	43	0.18	0.192
R11-439	Soil			2.11	16.04	37.53	90.8	91	17.6	6.2	586	3.10	5.3	1.1	0.8	0.3	12.8	0.55	0.54	0.25	46	0.13	0.121
R11-440	Soil			1.57	32.22	17.81	303.7	105	37.4	14.1	1244	3.69	7.7	0.9	1.5	0.7	18.7	1.20	0.66	0.35	58	0.26	0.152
R11-441	Soil			1.94	28.28	35.39	126.0	102	31.0	12.7	1084	4.08	9.2	1.1	1.6	0.7	24.7	0.65	0.79	0.18	59	0.27	0.147
R11-442	Soil			1.39	37.16	27.84	339.1	187	33.0	13.7	1162	3.64	7.3	0.9	1.1	0.7	19.6	1.30	0.73	0.37	56	0.28	0.142
R11-443	Soil			1.78	29.65	21.89	108.6	90	34.9	12.2	849	3.95	8.7	1.1	2.8	1.8	20.9	0.31	0.82	0.13	56	0.24	0.140
R11-444	Soil			2.18	33.97	22.35	158.1	116	31.6	10.8	794	4.24	9.0	1.0	1.5	1.4	10.4	0.54	0.55	0.43	57	0.16	0.125
R11-445	Soil			1.82	22.03	22.13	98.9	81	25.7	10.3	1214	3.87	7.6	1.0	1.2	0.4	16.2	0.38	0.66	0.17	61	0.18	0.139
R11-446	Soil			2.34	29.51	35.68	163.1	77	23.0	11.9	2237	4.24	10.9	1.0	2.1	1.5	13.0	0.42	0.79	0.67	54	0.18	0.144
R11-447	Soil			1.79	20.55	38.85	120.6	123	24.5	10.7	1052	3.93	8.1	1.2	2.5	0.8	18.6	0.53	0.79	0.26	55	0.25	0.136
R11-448	Soil			1.86	73.01	104.7	243.4	325	20.0	15.7	2916	4.39	14.5	0.8	2.1	0.4	21.3	0.42	1.13	0.51	73	0.18	0.197
R11-449	Soil			1.65	22.59	41.93	104.1	81	26.7	9.6	1067	3.47	6.4	1.0	1.4	0.5	17.2	0.38	0.63	0.19	60	0.20	0.130
R11-450	Soil			1.36	39.55	45.27	146.6	75	33.5	14.2	1320	4.04	9.8	0.8	1.1	0.9	23.4	0.39	1.05	0.17	73	0.27	0.127
R11-451	Soil			1.81	18.65	15.26	99.7	83	29.2	8.9	607	3.79	5.4	1.2	0.8	0.5	13.5	0.40	0.46	0.22	61	0.18	0.136
R11-452	Soil			1.21	37.05	56.31	149.5	93	37.2	14.5	1227	3.61	9.0	0.8	2.6	2.0	30.2	0.59	1.00	0.13	64	0.43	0.156
R11-453	Soil			1.85	21.88	19.82	130.9	79	27.3	9.5	984	3.91	6.4	1.0	1.0	0.4	12.5	0.60	0.51	0.23	54	0.16	0.141
R11-454	Soil			1.44	32.36	40.63	131.2	69	40.8	13.2	978	3.91	7.9	0.7	5.8	1.0	20.0	0.48	0.72	0.18	70	0.25	0.127
R11-455	Soil			1.57	24.63	22.86	119.7	80	38.5	12.2	823	3.97	6.7	1.2	0.7	1.3	12.3	0.48	0.47	0.20	57	0.19	0.154
R11-456	Soil			1.37	35.79	79.36	199.1	167	63.9	18.6	1229	4.47	6.8	0.8	1.5	2.2	24.2	0.88	0.67	0.17	74	0.30	0.144
R11-457	Soil			1.60	28.70	40.50	197.2	84	42.5	12.9	803	3.77	6.7	1.0	0.2	1.5	19.8	0.60	0.65	0.16	62	0.27	0.146
R11-458	Soil			1.32	40.78	64.33	190.1	247	36.0	14.2	1299	3.65	8.3	1.0	4.3	2.5	31.6	0.72	0.95	0.16	60	0.39	0.149
R11-459	Soil			2.07	15.92	14.15	113.4	23	25.4	7.3	575	4.31	7.2	1.6	1.1	1.5	11.2	0.41	0.45	0.36	44	0.13	0.101
R11-460	Soil			0.94	97.26	61.79	231.1	267	33.8	13.0	1252	3.44	8.3	0.8	2.5	2.3	34.4	0.99	0.95	0.15	57	0.41	0.127

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
R11-431	Soil	14.3	32.7	0.89	187.7	0.126	2	2.29	0.017	0.07	0.2	2.6	0.08	0.08	72	0.2	0.11	8.5	2.47	<0.1	0.11
R11-432	Soil	15.4	31.1	0.65	112.1	0.127	2	2.77	0.019	0.05	0.2	2.1	0.11	0.11	94	0.5	0.07	12.3	1.69	<0.1	0.19
R11-433	Soil	17.4	31.5	0.71	205.8	0.090	1	3.29	0.017	0.06	0.1	2.1	0.09	0.16	79	0.4	0.04	9.7	2.57	<0.1	0.11
R11-434	Soil	27.3	31.0	0.72	141.8	0.172	2	3.28	0.032	0.08	0.3	3.2	0.16	0.06	99	0.8	0.07	14.4	3.11	<0.1	0.27
R11-435	Soil	13.1	41.3	0.91	181.4	0.137	2	2.28	0.014	0.06	0.1	2.8	0.12	0.11	94	0.3	0.08	10.0	2.05	<0.1	0.11
R11-436	Soil	17.9	28.7	0.60	209.3	0.094	2	2.97	0.014	0.06	0.2	1.7	0.12	0.13	67	0.3	0.10	10.5	3.03	<0.1	0.11
R11-437	Soil	22.0	24.1	0.53	203.4	0.071	2	3.16	0.022	0.05	0.2	1.6	0.10	0.13	74	0.4	0.04	12.3	1.62	<0.1	0.26
R11-438	Soil	7.4	20.7	0.36	195.5	0.033	2	1.41	0.017	0.07	0.1	0.8	0.09	0.23	221	0.5	0.09	5.9	1.71	<0.1	0.04
R11-439	Soil	14.0	18.7	0.36	122.0	0.049	2	2.01	0.018	0.04	0.2	1.1	0.11	0.12	74	0.3	0.02	10.1	2.01	<0.1	0.13
R11-440	Soil	13.7	28.6	0.87	206.5	0.113	2	2.13	0.023	0.05	0.1	2.2	0.08	0.13	173	0.4	0.14	8.6	1.94	<0.1	0.13
R11-441	Soil	15.8	27.0	0.78	182.6	0.083	2	2.54	0.015	0.05	0.1	2.2	0.15	0.10	107	0.3	0.07	9.2	1.98	<0.1	0.11
R11-442	Soil	12.1	26.6	0.84	160.6	0.096	1	2.52	0.014	0.05	0.1	2.2	0.10	0.10	199	0.3	0.11	8.5	1.93	<0.1	0.15
R11-443	Soil	16.0	28.6	0.98	145.2	0.106	3	3.14	0.011	0.05	0.2	3.0	0.17	0.06	78	0.3	0.06	8.1	2.44	<0.1	0.22
R11-444	Soil	16.5	29.0	0.71	103.5	0.135	2	2.99	0.027	0.06	0.2	2.3	0.13	0.08	92	0.6	0.16	12.5	1.75	<0.1	0.28
R11-445	Soil	14.1	25.5	0.65	153.8	0.074	1	2.36	0.013	0.05	0.2	2.0	0.12	0.12	66	0.2	0.04	9.0	2.67	<0.1	0.11
R11-446	Soil	14.4	23.1	0.63	109.2	0.104	1	1.92	0.027	0.07	0.2	2.0	0.08	0.10	66	0.5	0.17	12.6	2.06	<0.1	0.19
R11-447	Soil	19.7	23.4	0.76	152.6	0.090	2	2.96	0.013	0.05	0.2	2.2	0.13	0.09	77	0.3	0.06	11.4	2.39	<0.1	0.17
R11-448	Soil	8.6	27.6	0.88	297.5	0.034	1	2.63	0.004	0.11	0.1	2.2	0.18	0.19	120	0.6	0.32	9.2	4.71	<0.1	0.07
R11-449	Soil	14.0	25.7	0.61	140.4	0.086	1	2.44	0.017	0.05	0.2	2.0	0.10	0.11	71	0.2	0.05	8.7	1.69	<0.1	0.16
R11-450	Soil	10.8	30.7	1.03	184.9	0.101	2	2.49	0.007	0.07	0.1	3.4	0.12	0.08	65	0.2	0.06	8.2	2.79	<0.1	0.08
R11-451	Soil	15.4	26.6	0.58	125.8	0.102	<1	3.09	0.019	0.04	0.2	1.7	0.12	0.13	67	0.3	0.04	11.4	1.73	<0.1	0.25
R11-452	Soil	12.6	29.6	1.04	161.5	0.134	2	2.20	0.009	0.06	0.2	3.5	0.08	0.03	56	0.2	0.04	6.5	1.80	<0.1	0.15
R11-453	Soil	17.1	28.8	0.44	163.1	0.050	<1	2.81	0.019	0.05	0.2	1.6	0.09	0.13	63	0.4	0.03	11.6	1.44	<0.1	0.20
R11-454	Soil	10.7	37.3	0.90	98.0	0.123	2	2.47	0.011	0.05	<0.1	3.2	0.10	0.06	61	0.3	0.06	7.9	1.61	<0.1	0.10
R11-455	Soil	17.9	32.4	0.71	144.7	0.127	1	3.99	0.017	0.05	0.2	2.7	0.09	0.09	70	0.5	0.04	11.6	1.61	<0.1	0.33
R11-456	Soil	15.5	47.3	1.49	152.4	0.229	2	2.49	0.023	0.06	0.1	4.2	0.10	0.03	79	0.2	0.05	8.7	2.22	<0.1	0.15
R11-457	Soil	15.7	34.3	0.85	130.1	0.128	<1	2.77	0.013	0.05	0.2	3.2	0.11	0.05	72	0.3	0.05	9.4	1.33	<0.1	0.20
R11-458	Soil	17.1	31.5	1.00	163.3	0.152	<1	2.12	0.015	0.07	0.2	4.1	0.08	<0.02	121	0.3	0.05	7.9	2.51	<0.1	0.13
R11-459	Soil	26.9	26.2	0.37	199.6	0.087	<1	3.84	0.029	0.06	0.2	2.1	0.17	0.08	52	0.5	0.04	16.3	1.30	<0.1	0.36
R11-460	Soil	14.9	29.9	1.01	168.6	0.119	2	1.92	0.010	0.06	0.2	3.9	0.07	<0.02	123	0.1	0.07	6.3	2.05	<0.1	0.10

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
R11-431	Soil			5.93	9.0	1.6	0.05	8.6	8.62	31.9	0.04	<1	1.1	15.8	<10	<2
R11-432	Soil			12.59	6.6	2.5	0.11	15.2	8.55	33.8	0.06	<1	1.2	13.6	<10	<2
R11-433	Soil			7.69	7.6	1.7	0.05	8.2	11.07	37.2	0.05	<1	1.7	10.7	<10	<2
R11-434	Soil			12.79	11.5	3.5	0.14	26.8	16.81	56.5	0.07	<1	2.1	14.5	<10	<2
R11-435	Soil			6.01	7.8	1.6	<0.05	8.2	7.26	29.4	0.05	<1	0.8	16.6	<10	<2
R11-436	Soil			7.76	9.2	2.1	0.06	8.6	10.34	38.8	0.06	1	1.5	12.5	<10	<2
R11-437	Soil			17.52	6.7	3.2	0.07	20.6	11.35	47.3	0.09	<1	1.6	10.6	<10	<2
R11-438	Soil			4.00	8.7	0.9	<0.05	3.1	4.90	15.5	0.04	<1	0.4	5.2	<10	<2
R11-439	Soil			10.60	7.5	2.8	<0.05	11.9	7.57	28.9	0.05	<1	1.1	8.1	<10	<2
R11-440	Soil			7.39	7.2	1.6	<0.05	11.4	8.59	30.7	0.04	<1	1.0	12.4	<10	<2
R11-441	Soil			7.26	7.8	1.7	<0.05	9.4	9.47	35.4	0.04	<1	1.1	18.2	<10	<2
R11-442	Soil			6.77	6.6	1.5	<0.05	11.7	7.61	27.9	0.04	<1	1.2	14.5	<10	<2
R11-443	Soil			7.28	6.3	1.3	<0.05	16.7	8.73	34.0	0.03	<1	1.3	23.7	<10	<2
R11-444	Soil			12.97	7.7	2.8	0.06	24.0	9.08	37.9	0.05	<1	1.5	11.9	<10	<2
R11-445	Soil			7.94	7.7	1.9	<0.05	8.7	8.37	29.6	0.05	<1	1.0	15.4	<10	<2
R11-446	Soil			10.10	9.4	3.3	<0.05	17.3	7.21	33.0	0.05	<1	0.8	12.1	<10	<2
R11-447	Soil			12.12	6.4	2.4	0.06	15.2	11.00	45.6	0.05	<1	1.5	20.1	<10	<2
R11-448	Soil			3.28	20.3	1.0	<0.05	4.1	6.82	17.7	0.04	<1	0.9	18.3	<10	<2
R11-449	Soil			9.18	8.3	1.9	<0.05	12.2	8.42	30.8	0.06	<1	0.8	12.8	<10	<2
R11-450	Soil			3.36	9.2	1.1	<0.05	6.0	6.81	24.1	0.04	<1	0.8	22.0	<10	<2
R11-451	Soil			14.51	6.6	2.6	<0.05	19.1	8.58	34.3	0.06	<1	1.3	10.2	<10	<2
R11-452	Soil			2.79	5.8	0.8	<0.05	9.7	8.37	30.3	0.03	<1	1.0	20.2	<10	<2
R11-453	Soil			13.32	6.4	2.9	0.06	15.9	10.45	39.1	0.06	<1	1.5	10.9	<10	<2
R11-454	Soil			3.92	6.3	1.1	<0.05	8.6	7.47	25.6	0.04	<1	0.6	16.6	<10	<2
R11-455	Soil			13.39	6.4	2.2	<0.05	25.4	10.52	46.2	0.06	<1	1.6	12.6	<10	<2
R11-456	Soil			2.87	8.1	1.3	0.07	12.5	9.96	34.5	0.05	<1	1.0	18.0	<10	<2
R11-457	Soil			6.35	7.0	1.7	0.08	15.2	9.80	38.4	0.05	<1	1.1	16.2	<10	<2
R11-458	Soil			2.53	8.5	1.3	<0.05	11.9	11.84	35.7	0.04	<1	1.1	19.2	<10	<2
R11-459	Soil			22.20	6.7	4.5	0.05	32.4	16.35	60.7	0.10	<1	2.7	14.6	<10	<2
R11-460	Soil			1.47	7.0	0.8	<0.05	9.7	12.04	31.0	0.03	<1	0.8	18.9	<10	<2

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-461	Soil			1.81	19.00	19.97	101.8	36	26.2	7.7	616	3.43	5.8	1.0	0.3	0.6	17.2	0.34	0.60	0.20	51	0.21	0.130
R11-462	Soil			1.40	35.52	74.36	315.3	158	37.8	13.0	1277	3.61	7.4	0.8	1.0	2.2	27.1	1.06	0.86	0.17	57	0.33	0.160
R11-463	Soil			1.48	24.62	25.40	160.5	49	39.3	12.0	755	3.89	5.0	1.0	<0.2	0.9	16.8	0.53	0.52	0.18	61	0.23	0.107
R11-464	Soil			1.74	26.23	42.39	244.2	150	29.5	9.7	747	3.84	6.0	1.0	1.3	0.7	15.2	0.89	0.53	0.26	62	0.20	0.137
R11-465	Soil			2.51	103.7	111.5	532.8	932	35.5	14.8	1873	4.32	14.2	2.2	2.7	2.2	26.9	1.26	1.33	0.23	77	0.48	0.102
R11-466	Soil			2.16	24.34	19.06	188.3	44	41.7	12.7	1086	4.41	6.2	0.9	<0.2	1.8	10.7	0.66	0.48	0.21	62	0.20	0.134
R11-467	Soil			1.94	21.00	17.83	122.9	89	32.6	10.1	657	4.10	6.2	1.3	0.3	2.2	15.3	0.31	0.48	0.19	48	0.28	0.088
R11-468	Soil			2.48	17.52	13.75	82.0	119	20.1	8.1	784	3.65	5.0	0.8	1.2	0.1	14.4	0.46	0.58	0.35	69	0.12	0.104
R11-469	Soil			2.09	15.01	9.89	88.4	20	22.4	6.8	567	3.64	5.7	1.3	0.4	0.6	11.0	0.27	0.51	0.27	48	0.13	0.122
R11-470	Soil			2.85	22.15	12.54	76.5	579	12.3	4.8	686	2.27	4.9	0.8	0.8	<0.1	14.2	0.63	0.69	0.25	40	0.10	0.183
R11-471	Soil			1.98	40.67	108.3	429.7	438	31.0	11.9	1078	3.86	7.1	1.1	0.9	1.4	25.5	1.01	0.83	0.18	64	0.49	0.142
R11-472	Soil			2.06	22.15	16.19	133.5	174	22.3	7.6	932	3.36	7.1	0.9	0.8	0.3	15.4	0.62	0.67	0.23	55	0.16	0.146
R11-473	Soil			1.83	24.55	21.19	118.5	108	18.8	8.0	1024	3.73	3.6	1.0	2.7	0.3	15.5	1.05	0.43	0.32	64	0.24	0.121
R11-474	Soil			1.13	52.61	44.24	460.1	311	42.8	14.9	1303	3.64	9.5	1.0	3.1	2.4	27.1	1.37	1.01	0.25	58	0.46	0.130
R11-475	Soil			1.97	18.00	12.83	114.7	26	26.9	9.7	1302	4.23	5.9	1.2	2.3	0.9	9.0	0.32	0.43	0.34	58	0.16	0.119
R11-476	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-477	Soil			1.24	31.92	79.55	262.0	50	33.0	13.1	1212	3.66	6.6	0.9	1.5	0.7	26.1	0.89	0.73	0.18	70	0.34	0.113
R11-478	Soil			1.24	20.76	11.32	131.9	32	45.1	11.6	657	3.44	5.9	0.8	1.3	0.6	19.2	0.51	0.59	0.15	66	0.27	0.115
R11-479	Soil			1.36	22.15	44.08	156.3	34	41.6	15.1	920	3.95	4.8	1.1	2.3	1.5	17.7	0.79	0.54	0.18	60	0.34	0.123
R11-480	Soil			1.92	22.84	46.52	134.1	94	30.1	8.8	566	3.65	5.2	1.1	0.8	0.8	12.0	0.51	0.42	0.22	55	0.18	0.124
R11-481	Soil			1.61	20.22	13.66	95.3	47	33.7	11.7	923	3.94	5.6	1.0	<0.2	1.1	13.0	0.30	0.48	0.22	60	0.18	0.100
R11-482	Soil			1.40	28.14	35.31	199.1	48	37.6	12.7	963	3.87	5.3	0.9	1.4	0.6	18.0	0.74	0.52	0.17	69	0.25	0.105
R11-483	Soil			1.75	25.12	11.24	99.6	104	39.4	10.9	575	3.65	5.5	1.1	1.1	1.3	12.8	0.31	0.38	0.22	60	0.18	0.141
R11-484	Soil			1.82	25.32	60.58	207.6	20	31.3	10.3	819	3.79	5.2	1.1	0.8	0.8	11.8	0.79	0.42	0.21	54	0.19	0.107
R11-485	Soil			1.56	28.88	13.85	106.4	48	44.7	12.7	594	3.95	6.0	1.3	1.9	2.0	18.0	0.29	0.48	0.22	67	0.25	0.133
R11-486	Soil			1.52	25.16	101.0	218.6	55	31.2	13.4	1456	3.72	6.0	0.9	1.3	0.5	25.2	0.83	0.70	0.18	70	0.32	0.124
R11-487	Soil			1.66	35.54	24.52	125.7	140	47.3	14.6	769	4.10	6.4	1.1	2.1	2.6	22.9	0.38	0.59	0.18	70	0.40	0.136
R11-488	Soil			1.26	29.73	178.7	295.9	126	24.0	15.1	1766	3.54	8.4	0.9	2.3	1.2	42.1	1.11	1.20	0.14	66	0.60	0.137
R11-489	Soil			2.00	85.88	75.47	260.7	754	45.4	18.5	1535	4.77	10.6	1.3	*	1.8	29.5	0.50	1.17	0.16	86	0.46	0.101
R11-490	Soil			2.09	29.63	18.37	117.6	81	42.3	12.1	737	3.91	7.0	1.2	0.4	2.6	12.9	0.30	0.49	0.22	57	0.20	0.130

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
R11-461	Soil	14.3	25.9	0.55	119.7	0.091	1	2.47	0.018	0.06	0.2	1.9	0.11	0.09	67	0.4	0.02	9.9	1.80	<0.1	0.18
R11-462	Soil	13.9	28.8	1.09	114.5	0.134	1	2.22	0.014	0.06	0.2	3.1	0.09	0.03	121	0.3	0.05	7.8	1.90	<0.1	0.13
R11-463	Soil	18.6	32.3	0.75	182.3	0.128	<1	3.16	0.017	0.05	0.2	2.4	0.10	0.10	60	0.3	0.03	11.1	1.54	<0.1	0.28
R11-464	Soil	13.2	30.3	0.71	127.8	0.107	1	2.72	0.021	0.05	0.1	2.2	0.11	0.10	239	0.5	0.06	10.8	1.62	<0.1	0.22
R11-465	Soil	22.6	36.1	1.29	406.1	0.103	1	3.08	0.013	0.12	0.2	5.6	0.16	0.06	727	0.4	0.07	10.3	7.56	<0.1	0.21
R11-466	Soil	14.0	36.4	0.84	92.3	0.205	1	3.07	0.033	0.06	0.2	2.6	0.08	0.10	98	0.5	0.06	12.7	1.57	<0.1	0.41
R11-467	Soil	24.0	26.4	0.72	156.0	0.145	<1	3.48	0.027	0.05	0.2	2.2	0.10	0.07	80	0.4	<0.02	12.8	1.41	<0.1	0.44
R11-468	Soil	8.0	25.6	0.33	143.5	0.063	<1	1.46	0.012	0.04	<0.1	1.1	0.16	0.10	73	0.2	0.05	12.4	1.51	<0.1	0.10
R11-469	Soil	16.2	24.3	0.38	108.1	0.091	<1	2.82	0.026	0.05	0.2	1.6	0.11	0.12	82	0.5	0.03	13.2	1.98	<0.1	0.32
R11-470	Soil	7.4	17.2	0.16	142.5	0.025	<1	1.18	0.015	0.06	0.2	0.7	0.12	0.21	186	0.4	0.06	6.8	1.67	<0.1	0.07
R11-471	Soil	19.4	32.3	0.89	214.6	0.130	2	3.07	0.018	0.07	0.2	3.4	0.14	0.09	405	0.5	0.02	10.7	3.90	<0.1	0.19
R11-472	Soil	10.0	23.4	0.38	145.5	0.079	<1	2.20	0.016	0.05	0.1	1.4	0.10	0.15	97	0.4	0.10	8.8	1.97	<0.1	0.17
R11-473	Soil	12.6	32.3	0.32	164.1	0.106	2	2.34	0.014	0.05	0.1	1.8	0.11	0.17	140	0.4	0.05	12.4	2.32	<0.1	0.28
R11-474	Soil	15.9	29.3	1.12	115.2	0.178	3	2.48	0.009	0.06	0.2	3.6	0.11	0.03	148	0.2	0.11	6.7	2.34	<0.1	0.14
R11-475	Soil	16.7	30.4	0.54	98.0	0.138	2	2.56	0.023	0.06	0.2	2.1	0.09	0.11	57	0.4	0.03	14.5	2.04	<0.1	0.32
R11-476	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-477	Soil	13.0	30.7	0.80	139.4	0.126	2	2.29	0.009	0.05	0.1	3.2	0.10	0.07	132	0.4	0.03	8.1	1.65	<0.1	0.11
R11-478	Soil	11.6	34.6	0.77	142.7	0.115	2	2.07	0.008	0.05	0.1	2.5	0.09	0.06	46	0.3	<0.02	7.2	1.16	<0.1	0.10
R11-479	Soil	18.3	30.9	0.84	183.7	0.178	2	3.17	0.025	0.05	0.1	3.1	0.07	0.09	86	0.5	0.03	10.3	1.51	<0.1	0.32
R11-480	Soil	14.8	29.1	0.56	113.7	0.117	2	2.88	0.016	0.05	0.2	2.3	0.12	0.10	75	0.7	0.03	11.9	1.47	<0.1	0.29
R11-481	Soil	17.8	32.5	0.60	136.7	0.146	2	2.95	0.019	0.05	0.1	3.1	0.11	0.08	61	0.3	0.06	11.6	1.68	<0.1	0.24
R11-482	Soil	14.2	33.6	0.71	175.9	0.119	2	2.64	0.014	0.05	<0.1	2.9	0.10	0.09	72	0.3	0.05	8.7	1.42	<0.1	0.14
R11-483	Soil	17.8	38.8	0.63	140.9	0.144	2	3.14	0.017	0.06	0.1	3.6	0.15	0.08	70	0.5	0.04	11.5	1.54	<0.1	0.24
R11-484	Soil	17.1	27.8	0.57	132.7	0.118	1	2.96	0.027	0.05	0.2	2.2	0.10	0.11	119	0.7	0.04	12.4	1.72	<0.1	0.32
R11-485	Soil	21.0	39.6	0.71	173.2	0.153	2	3.22	0.016	0.06	0.2	4.0	0.16	0.05	34	0.4	<0.02	11.7	1.64	<0.1	0.21
R11-486	Soil	12.5	30.5	0.74	212.2	0.100	2	2.27	0.010	0.06	0.1	2.4	0.13	0.10	86	0.3	0.06	8.4	1.66	<0.1	0.11
R11-487	Soil	21.2	40.0	0.98	157.4	0.187	2	2.93	0.022	0.08	0.2	4.4	0.14	0.04	58	0.3	0.03	11.0	2.63	<0.1	0.24
R11-488	Soil	13.2	21.4	0.95	149.4	0.140	3	2.29	0.006	0.06	0.2	3.4	0.10	0.05	155	0.2	0.04	6.7	2.23	<0.1	0.07
R11-489	Soil	19.8	40.8	1.44	311.2	0.084	2	3.59	0.009	0.12	0.1	6.7	0.23	0.06	222	0.4	0.08	10.3	8.26	0.1	0.13
R11-490	Soil	22.1	34.6	0.72	128.4	0.155	2	3.13	0.027	0.08	0.2	3.6	0.14	0.05	41	0.5	0.04	12.1	1.72	<0.1	0.28

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	0.1	1	0.1	0.1	10	2	2
R11-461	Soil	12.15	7.9	2.4	<0.05	15.3	7.91	31.9	0.05	<1	1.2	11.8	<10	<2		
R11-462	Soil	3.54	7.3	1.3	0.06	11.4	8.29	31.5	0.04	<1	0.8	17.9	<10	<2		
R11-463	Soil	11.34	6.8	2.1	<0.05	22.0	12.17	43.5	0.05	<1	1.5	13.0	<10	<2		
R11-464	Soil	11.33	6.5	2.1	<0.05	17.3	7.84	30.6	0.05	<1	1.3	12.6	<10	<2		
R11-465	Soil	4.30	21.5	1.6	<0.05	13.9	22.56	36.2	0.06	<1	2.0	31.4	<10	<2		
R11-466	Soil	15.86	8.0	2.7	0.12	37.1	8.28	34.6	0.08	<1	1.1	9.0	<10	<2		
R11-467	Soil	16.53	5.6	3.0	<0.05	39.3	12.88	52.6	0.06	<1	2.7	11.1	<10	<2		
R11-468	Soil	8.86	6.1	2.7	<0.05	6.8	4.27	17.3	0.04	<1	0.5	5.0	<10	<2		
R11-469	Soil	20.43	8.8	3.5	0.07	26.6	9.04	38.6	0.07	<1	1.2	9.6	<10	<2		
R11-470	Soil	7.18	10.5	2.0	<0.05	4.8	4.68	16.0	0.03	<1	0.4	3.8	<10	<2		
R11-471	Soil	7.70	11.6	1.9	<0.05	15.7	13.53	40.3	0.05	<1	1.4	18.6	<10	<2		
R11-472	Soil	10.40	9.2	2.0	<0.05	12.5	6.55	24.1	0.04	<1	1.0	6.4	<10	<2		
R11-473	Soil	15.12	9.7	2.6	<0.05	19.9	8.47	26.7	0.08	<1	1.2	7.2	15	<2		
R11-474	Soil	2.97	7.4	0.9	<0.05	9.9	10.43	35.6	0.05	<1	1.1	16.3	<10	<2		
R11-475	Soil	18.01	9.7	4.0	0.09	26.8	8.14	40.0	0.06	<1	1.1	7.9	<10	<2		
R11-476	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-477	Soil	4.60	6.8	1.2	<0.05	7.3	8.89	29.6	0.04	<1	1.0	16.5	<10	<2		
R11-478	Soil	3.96	6.5	1.2	<0.05	6.8	7.23	27.2	0.05	<1	0.8	13.7	<10	<2		
R11-479	Soil	12.34	5.5	1.9	0.12	26.4	10.96	44.0	0.07	<1	1.5	12.1	<10	<2		
R11-480	Soil	15.30	7.3	2.5	0.09	23.3	8.58	34.1	0.07	<1	1.2	10.9	<10	<2		
R11-481	Soil	11.51	6.7	2.3	0.09	21.9	11.52	40.5	0.05	<1	1.4	12.0	<10	<2		
R11-482	Soil	6.01	7.5	1.4	<0.05	11.7	10.10	33.0	0.05	<1	1.2	11.8	<10	<2		
R11-483	Soil	11.69	8.4	2.2	0.08	21.6	11.44	39.1	0.06	1	1.4	12.5	<10	<2		
R11-484	Soil	17.40	6.9	2.5	0.11	28.5	10.37	39.3	0.05	<1	1.6	9.1	<10	<2		
R11-485	Soil	8.75	9.0	2.4	0.08	19.8	13.65	47.9	0.06	<1	1.7	15.3	<10	<2		
R11-486	Soil	4.73	7.8	1.5	<0.05	6.4	7.84	27.7	0.04	<1	1.0	14.5	<10	<2		
R11-487	Soil	6.68	10.6	2.0	<0.05	21.9	13.83	46.8	0.06	2	1.6	16.7	<10	<2		
R11-488	Soil	2.18	7.4	0.8	<0.05	4.3	8.16	29.3	0.04	1	0.9	19.5	<10	<2		
R11-489	Soil	3.64	19.3	1.1	<0.05	10.8	19.52	32.1	0.05	<1	1.6	31.5	<10	<2		
R11-490	Soil	11.21	9.7	2.7	0.09	25.7	14.12	50.7	0.08	2	1.8	14.0	<10	<2		

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit	MDL	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-491	Soil	1.65	26.76	20.85	102.4	239	35.7	10.8	687	3.70	5.6	1.1	4.4	0.7	16.0	0.34	0.54	0.16	59	0.22	0.129
R11-492	Soil	1.99	22.52	36.13	89.5	240	19.1	8.2	905	2.70	4.8	0.8	1.4	0.1	18.7	0.60	0.53	0.17	53	0.19	0.176
R11-493	Soil	2.24	21.88	18.76	96.0	72	24.7	10.2	999	3.62	7.0	1.2	1.4	0.4	14.4	0.38	0.62	0.19	53	0.18	0.138
R11-494	Soil	1.13	22.06	37.85	131.5	53	27.5	12.1	1217	3.36	7.1	0.8	1.3	0.4	31.7	0.74	0.78	0.12	78	0.32	0.099
R11-495	Soil	2.06	18.08	45.00	108.3	84	22.3	8.3	653	3.58	5.4	1.2	2.6	0.3	12.3	0.69	0.48	0.21	53	0.17	0.119
R11-496	Soil	1.56	20.67	21.67	83.3	159	27.9	17.1	2603	3.87	4.5	0.8	0.5	0.4	12.7	0.32	0.45	0.14	75	0.16	0.104
R11-497	Soil	1.61	15.76	13.15	114.6	41	31.4	9.0	573	3.48	5.8	1.0	1.2	0.7	14.9	0.47	0.42	0.17	54	0.21	0.105
R11-498	Soil	1.32	38.93	33.60	122.0	171	41.0	16.0	1204	3.75	9.1	0.7	3.0	0.9	25.9	0.44	0.91	0.13	72	0.28	0.116
R11-499	Soil	1.58	20.22	14.99	102.9	42	32.5	10.4	890	3.45	5.6	0.9	1.0	0.5	16.1	0.37	0.53	0.18	58	0.22	0.127
R11-500	Soil	1.23	184.2	26.18	132.8	190	74.1	20.1	1147	4.36	9.2	0.8	2.5	2.2	28.1	0.62	0.80	0.12	77	0.36	0.117
R11-501	Soil	1.79	24.31	75.45	169.6	70	36.5	11.1	700	3.63	7.3	1.0	1.0	1.5	16.8	0.94	0.64	0.15	51	0.26	0.102
R11-502	Soil	1.56	97.92	74.62	165.2	216	50.4	21.5	2176	4.51	10.1	0.9	2.5	1.5	31.5	0.76	0.96	0.15	87	0.34	0.157
R11-503	Soil	1.91	29.83	61.82	135.0	96	30.6	9.7	725	3.44	6.7	1.0	2.6	0.6	16.8	0.89	0.63	0.27	55	0.23	0.132
R11-504	Soil	1.37	137.9	56.43	149.1	352	70.1	24.2	1949	4.37	9.8	0.7	2.4	2.0	27.8	0.55	0.83	0.16	77	0.33	0.152
R11-505	Soil	1.82	30.26	31.04	90.4	82	23.4	11.4	1354	3.48	4.1	1.0	1.1	0.5	24.8	0.39	0.81	0.17	72	0.26	0.123
R11-506	Soil	1.24	42.90	52.69	110.1	158	39.9	15.8	1045	3.99	7.2	0.8	0.9	1.6	25.5	0.48	0.71	0.10	68	0.32	0.099
R11-507	Soil	1.18	44.08	73.72	177.0	119	40.1	16.7	1930	4.01	5.1	0.9	1.1	1.3	34.6	1.21	1.22	0.17	74	0.50	0.131
R11-508	Soil	0.98	226.9	16.41	97.9	305	81.2	15.5	638	3.65	7.2	0.4	3.2	1.4	23.9	0.24	0.67	0.09	70	0.35	0.088
R11-509	Soil	1.90	18.53	26.94	104.6	56	33.0	14.0	1416	3.60	4.5	0.9	1.2	1.0	15.9	0.45	0.58	0.19	61	0.24	0.105
R11-510	Soil	1.48	23.56	56.89	130.2	160	43.7	15.0	1265	4.09	12.8	0.8	4.4	1.7	23.7	0.40	1.01	0.21	68	0.29	0.118
R11-511	Soil	1.64	25.42	22.10	156.6	79	51.5	16.8	1234	4.47	5.3	1.1	1.1	2.1	16.1	0.45	0.57	0.15	70	0.30	0.119
R11-512	Soil	1.68	24.84	55.00	114.8	160	27.2	10.8	1271	3.41	8.1	1.0	1.3	0.4	16.0	0.58	0.70	0.21	49	0.18	0.156
R11-513	Soil	0.85	17.22	34.64	93.7	81	17.9	8.6	635	3.47	4.6	0.9	0.8	0.4	22.0	0.38	0.74	0.11	60	0.29	0.097
R11-514	Soil	2.78	32.07	281.1	326.0	393	17.1	20.4	2285	3.89	16.2	0.9	1.5	1.5	49.2	2.45	2.20	0.08	57	0.57	0.150
R11-515	Soil	1.81	21.53	19.68	122.1	144	41.2	15.3	1558	3.91	5.0	1.0	1.3	1.0	21.0	0.42	0.50	0.15	63	0.39	0.124
R11-516	Soil	1.51	21.56	62.93	151.9	114	29.7	11.9	1187	3.66	6.4	0.9	1.3	0.4	21.7	1.07	0.72	0.14	57	0.25	0.139
R11-517	Soil	0.73	25.23	22.04	87.3	53	38.8	12.9	797	3.86	6.5	1.1	0.8	3.0	27.2	0.25	0.78	0.07	63	0.43	0.133
R11-518	Soil	2.07	31.72	418.9	437.8	465	36.6	15.8	1716	4.20	11.1	1.0	1.1	1.7	38.9	2.67	1.58	0.12	63	0.45	0.147
R11-519	Soil	1.25	35.83	36.37	177.1	149	45.2	14.3	951	4.18	6.8	1.3	0.9	2.6	24.1	0.60	0.69	0.13	67	0.36	0.138
R11-520	Soil	1.81	20.72	136.2	173.6	142	24.1	11.3	1377	3.79	7.6	1.0	1.1	0.4	23.4	1.14	0.88	0.25	59	0.24	0.130

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

Page: 5 of 11 Part 2

CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
R11-491	Soil	16.2	32.4	0.72	163.9	0.092	2	3.10	0.011	0.06	0.1	2.7	0.15	0.11	87	0.3	0.04	10.2	2.79	<0.1	0.21
R11-492	Soil	8.4	22.9	0.39	158.3	0.075	3	1.55	0.018	0.09	0.2	1.5	0.10	0.20	134	0.6	0.09	7.0	2.64	<0.1	0.08
R11-493	Soil	14.6	24.2	0.50	107.5	0.085	2	2.45	0.019	0.07	0.1	1.7	0.15	0.13	70	0.4	0.06	10.6	3.00	<0.1	0.17
R11-494	Soil	10.4	28.9	0.70	178.0	0.101	2	2.17	0.007	0.06	0.1	2.6	0.10	0.09	56	0.2	0.04	6.9	1.69	<0.1	0.05
R11-495	Soil	16.4	23.8	0.40	116.6	0.072	1	2.70	0.021	0.05	0.2	1.4	0.10	0.14	80	0.3	0.05	12.0	2.33	<0.1	0.25
R11-496	Soil	11.1	31.5	0.63	147.9	0.106	1	2.28	0.008	0.05	<0.1	2.2	0.13	0.12	63	0.4	0.04	9.0	1.97	<0.1	0.11
R11-497	Soil	15.3	26.3	0.58	139.6	0.125	2	2.57	0.024	0.06	0.2	2.2	0.10	0.11	59	0.4	0.06	10.8	1.84	<0.1	0.20
R11-498	Soil	10.4	35.8	0.90	154.7	0.115	3	2.38	0.007	0.08	<0.1	3.8	0.15	0.06	57	0.3	0.08	7.1	2.97	<0.1	0.06
R11-499	Soil	14.2	27.9	0.61	132.8	0.092	2	2.59	0.016	0.07	0.1	2.2	0.10	0.11	58	0.4	0.05	8.9	2.23	<0.1	0.15
R11-500	Soil	13.9	52.8	1.25	234.9	0.224	3	2.75	0.014	0.09	0.1	6.2	0.10	0.03	53	0.4	0.09	7.6	1.88	<0.1	0.14
R11-501	Soil	17.0	27.5	0.71	140.8	0.113	2	2.53	0.015	0.07	0.2	2.8	0.09	0.07	88	0.3	0.07	8.1	2.06	<0.1	0.21
R11-502	Soil	13.1	46.4	1.03	167.0	0.200	3	2.78	0.013	0.10	0.1	4.9	0.12	0.06	57	0.5	0.06	9.2	2.56	<0.1	0.06
R11-503	Soil	13.6	28.9	0.58	111.4	0.087	2	2.51	0.013	0.07	0.1	2.2	0.10	0.11	89	0.4	0.05	9.0	2.07	<0.1	0.15
R11-504	Soil	11.2	48.6	1.42	137.8	0.192	3	2.51	0.018	0.09	0.1	5.9	0.13	0.05	75	0.5	0.12	7.0	2.51	<0.1	0.08
R11-505	Soil	10.6	24.2	0.57	132.6	0.102	2	2.09	0.014	0.06	0.1	2.3	0.10	0.15	80	0.4	0.03	9.1	1.68	<0.1	0.14
R11-506	Soil	15.1	33.9	1.00	153.8	0.166	2	2.44	0.016	0.07	<0.1	3.9	0.11	0.07	65	0.4	0.08	7.4	2.46	<0.1	0.11
R11-507	Soil	15.6	30.7	1.09	146.4	0.192	2	3.01	0.019	0.07	0.1	4.2	0.09	0.10	79	0.4	0.03	9.5	2.74	<0.1	0.13
R11-508	Soil	9.0	58.5	1.21	387.7	0.123	3	2.11	0.012	0.08	<0.1	5.2	0.07	0.02	46	0.3	0.09	6.2	1.04	<0.1	0.14
R11-509	Soil	14.6	26.9	0.73	108.3	0.157	2	2.06	0.027	0.06	0.1	2.3	0.09	0.14	48	0.4	<0.02	10.0	1.79	<0.1	0.21
R11-510	Soil	12.2	37.4	1.00	159.4	0.149	2	1.83	0.018	0.11	0.1	3.1	0.09	0.07	63	0.2	0.14	8.0	2.28	<0.1	0.11
R11-511	Soil	16.5	37.1	1.23	152.1	0.208	2	2.43	0.024	0.08	0.1	3.3	0.09	0.09	47	0.3	<0.02	11.2	3.86	<0.1	0.28
R11-512	Soil	14.5	26.6	0.62	198.9	0.057	1	2.58	0.023	0.08	0.1	1.5	0.11	0.18	72	0.4	0.16	9.5	2.74	<0.1	0.14
R11-513	Soil	11.8	20.0	0.66	228.9	0.062	1	2.07	0.012	0.08	0.1	1.7	0.13	0.06	39	0.2	0.03	5.7	1.96	<0.1	0.05
R11-514	Soil	12.4	16.5	1.15	99.6	0.129	3	2.35	0.010	0.08	0.2	3.2	0.11	0.06	248	0.3	0.15	6.1	2.62	<0.1	0.06
R11-515	Soil	14.4	33.3	0.95	198.7	0.160	2	2.13	0.029	0.08	<0.1	2.7	0.09	0.13	75	0.4	0.04	10.4	3.08	<0.1	0.19
R11-516	Soil	12.9	28.6	0.69	189.8	0.092	2	2.34	0.022	0.07	<0.1	2.0	0.08	0.14	83	0.3	0.09	7.8	2.37	<0.1	0.10
R11-517	Soil	19.0	29.1	1.04	261.5	0.174	2	2.05	0.017	0.09	0.2	3.7	0.06	0.02	29	0.1	<0.02	5.8	1.79	<0.1	0.18
R11-518	Soil	15.1	28.6	1.08	199.0	0.171	3	2.60	0.026	0.09	0.1	3.4	0.09	0.12	240	0.4	0.11	7.5	2.20	<0.1	0.15
R11-519	Soil	19.0	34.3	1.13	252.1	0.159	2	2.63	0.022	0.14	0.1	4.6	0.13	0.04	44	0.3	0.02	8.5	5.38	<0.1	0.11
R11-520	Soil	14.9	24.5	0.64	156.5	0.083	2	2.28	0.022	0.08	0.1	1.8	0.12	0.14	114	0.4	0.09	8.9	2.41	<0.1	0.10

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	0.1	0.02	1	0.1	0.1	10	2
R11-491	Soil	10.04	8.2	1.9	<0.05	15.6	9.89	34.7	0.05	<1	1.5	14.6	<10	<2		
R11-492	Soil	5.32	13.2	1.4	<0.05	5.8	5.71	17.7	0.05	<1	0.7	6.4	<10	<2		
R11-493	Soil	12.64	10.8	2.3	<0.05	13.7	8.46	32.0	0.04	<1	1.3	10.9	<10	<2		
R11-494	Soil	2.63	8.3	0.9	<0.05	3.6	6.91	22.3	0.03	<1	0.8	13.8	<10	<2		
R11-495	Soil	15.78	7.4	2.6	0.05	18.8	9.49	36.0	0.06	<1	1.4	8.2	<10	<2		
R11-496	Soil	4.36	6.3	1.4	<0.05	8.4	7.08	25.1	0.04	<1	0.9	9.4	<10	<2		
R11-497	Soil	14.17	7.5	2.2	0.07	18.5	8.33	33.9	0.04	<1	1.2	10.6	<10	<2		
R11-498	Soil	1.66	10.8	0.7	<0.05	3.4	7.37	24.1	0.03	<1	0.8	18.0	<10	<2		
R11-499	Soil	7.83	8.3	1.7	<0.05	9.9	8.20	31.1	0.04	1	1.0	11.9	<10	<2		
R11-500	Soil	1.49	8.8	0.8	<0.05	11.9	12.35	30.7	0.04	<1	1.0	19.8	<10	<2		
R11-501	Soil	8.36	7.2	1.6	0.07	16.5	10.01	39.4	0.04	<1	1.7	13.3	<10	<2		
R11-502	Soil	2.01	12.0	1.0	<0.05	6.1	9.98	29.8	0.05	<1	1.0	18.1	<10	<2		
R11-503	Soil	9.83	7.8	1.7	<0.05	12.6	8.27	30.7	0.04	<1	1.1	11.8	<10	<2		
R11-504	Soil	1.58	8.8	0.7	<0.05	8.6	9.56	28.1	0.03	<1	0.9	19.4	<10	<2		
R11-505	Soil	7.33	11.4	1.5	<0.05	10.9	6.66	23.8	0.04	<1	1.0	11.9	<10	<2		
R11-506	Soil	2.95	8.0	0.9	<0.05	10.4	9.60	31.9	0.04	<1	1.1	14.8	<10	<2		
R11-507	Soil	5.56	7.8	1.3	0.08	10.6	10.69	42.4	0.05	<1	1.4	17.8	<10	<2		
R11-508	Soil	0.83	6.3	0.5	<0.05	9.9	8.39	18.0	0.03	<1	0.7	19.0	<10	<2		
R11-509	Soil	10.81	9.9	2.1	<0.05	17.0	8.23	31.8	0.05	<1	1.2	7.8	<10	<2		
R11-510	Soil	3.90	9.9	1.3	<0.05	8.7	6.52	30.3	0.04	<1	0.7	16.3	<10	<2		
R11-511	Soil	7.88	12.5	2.0	<0.05	22.7	10.78	38.9	0.06	<1	1.4	14.0	<10	<2		
R11-512	Soil	9.62	11.0	1.9	<0.05	10.6	8.75	32.7	0.05	<1	1.4	11.6	<10	<2		
R11-513	Soil	2.10	10.7	0.8	<0.05	2.6	6.52	25.3	0.03	<1	0.9	13.5	<10	<2		
R11-514	Soil	2.11	7.2	0.6	<0.05	4.1	7.58	27.8	0.03	<1	0.9	22.8	<10	<2		
R11-515	Soil	7.81	10.5	1.9	<0.05	15.0	9.34	31.9	0.05	<1	1.2	9.7	<10	<2		
R11-516	Soil	5.68	8.0	1.3	<0.05	8.2	7.49	29.3	0.04	<1	1.0	11.6	<10	<2		
R11-517	Soil	1.80	7.5	0.7	<0.05	12.5	11.25	45.4	0.03	<1	1.2	14.7	<10	<2		
R11-518	Soil	4.70	7.5	1.1	<0.05	10.9	8.47	34.0	0.04	<1	1.2	17.9	<10	<2		
R11-519	Soil	3.01	16.6	1.5	<0.05	10.6	13.36	41.3	0.04	<1	1.5	18.8	<10	<2		
R11-520	Soil	6.75	9.1	1.8	<0.05	8.1	7.99	32.6	0.04	<1	1.1	12.3	<10	<2		

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
R11-521	Soil			1.26	24.65	17.71	121.3	151	38.6	12.6	812	3.94	5.6	1.2	1.6	2.1	24.4	0.36	0.52	0.18	63	0.37	0.132
R11-522	Soil			1.50	22.96	44.29	122.4	92	30.1	8.9	657	3.70	6.5	1.1	1.4	0.7	17.5	0.52	0.69	0.18	53	0.23	0.110
R11-523	Soil			1.28	20.52	14.52	106.2	67	39.5	12.2	723	3.96	6.1	1.1	1.7	1.2	22.4	0.50	0.60	0.25	66	0.31	0.123
R11-524	Soil			2.22	68.69	97.51	304.9	890	37.3	15.4	1516	5.00	13.9	1.3	6.0	2.8	20.0	0.49	1.34	0.23	72	0.30	0.105
R11-525	Soil			1.59	18.60	12.64	93.4	103	36.2	13.0	995	4.20	4.9	0.9	0.7	0.7	23.0	0.32	0.53	0.15	79	0.24	0.122
R11-526	Soil			1.85	19.74	22.39	103.9	100	36.8	11.4	635	3.96	5.9	1.1	1.5	1.6	15.7	0.36	0.48	0.15	63	0.23	0.127
R11-527	Soil			0.85	29.99	17.50	111.6	47	40.6	14.9	1342	3.88	6.1	0.9	0.7	2.5	27.7	0.37	0.78	0.08	70	0.35	0.160
R11-528	Soil			2.26	24.10	42.51	120.5	76	30.5	13.8	1444	4.19	8.3	1.1	1.3	1.2	17.7	0.42	0.72	0.20	58	0.22	0.165
R11-529	Soil			1.17	39.96	22.49	153.5	127	57.0	18.2	824	4.83	5.2	1.3	0.7	3.4	33.3	0.67	0.48	0.14	82	0.58	0.152
R11-530	Soil			1.88	28.66	25.57	132.0	81	37.2	16.3	1522	4.52	10.2	1.1	2.2	1.3	24.6	0.31	0.85	0.16	71	0.28	0.156
R11-531	Soil			1.52	28.40	10.58	75.0	34	52.8	17.8	993	4.41	4.1	0.8	0.6	1.5	21.2	0.28	0.39	0.12	76	0.34	0.120
R11-532	Soil			1.87	29.72	27.71	110.1	150	37.7	14.6	1152	4.24	8.9	1.1	2.7	1.9	23.0	0.36	0.82	0.14	65	0.30	0.138
R11-533	Soil			0.97	21.10	15.82	86.1	35	39.4	13.6	880	3.90	6.4	0.8	1.0	1.0	28.3	0.26	0.84	0.13	73	0.34	0.124
R11-534	Soil			1.71	21.69	32.62	124.9	73	36.9	12.4	805	3.88	6.3	1.2	0.6	1.2	22.2	0.53	0.63	0.14	63	0.31	0.115
R11-535	Soil			1.75	20.83	21.64	91.3	75	37.4	15.9	1535	4.01	4.1	0.9	0.8	0.7	18.1	0.60	0.50	0.16	66	0.24	0.146
R11-536	Soil			1.35	29.00	32.19	110.4	74	35.9	12.7	904	3.74	5.7	1.1	0.7	1.2	24.3	0.63	0.67	0.13	60	0.36	0.131
R11-537	Soil			1.12	39.70	12.56	92.7	55	48.3	16.4	1307	4.29	5.8	0.9	2.0	1.6	27.4	0.19	0.85	0.12	77	0.34	0.117
R11-538	Soil			2.20	32.51	71.37	121.8	94	28.0	11.3	916	4.04	7.3	1.2	0.9	0.5	23.6	0.55	0.88	0.15	67	0.25	0.115
R11-539	Soil			1.58	28.72	7.98	100.3	93	67.2	18.6	851	4.78	4.3	1.1	<0.2	2.4	18.7	0.18	0.37	0.11	68	0.38	0.112
R11-540	Soil			1.34	19.76	30.64	105.9	80	38.1	12.3	852	3.81	6.3	1.0	0.5	1.3	19.2	0.60	0.58	0.14	61	0.27	0.101
R11-541	Soil			1.67	22.85	11.50	77.4	99	46.6	15.5	1024	4.25	4.7	0.9	1.0	0.6	20.0	0.18	0.49	0.16	74	0.26	0.099
R11-542	Soil			1.92	24.49	49.13	122.7	165	40.5	12.0	651	3.89	6.9	1.0	2.2	1.9	20.1	0.47	0.65	0.15	62	0.24	0.135
R11-543	Soil			1.79	61.20	195.0	105.5	433	25.5	13.3	1428	4.03	10.0	1.1	0.8	0.5	35.6	0.34	0.85	0.21	81	0.27	0.145
R11-544	Soil			2.27	28.94	74.07	144.4	345	30.0	7.6	423	3.50	6.5	1.4	1.1	1.3	13.8	0.44	0.55	0.22	53	0.15	0.205
R11-545	Soil			1.04	20.73	12.54	90.4	61	47.9	13.6	811	3.92	6.0	0.9	0.7	1.0	25.5	0.28	0.59	0.18	68	0.36	0.101
R11-546	Soil			1.65	45.12	117.7	316.9	625	36.5	13.4	990	3.88	9.5	0.9	5.3	0.9	22.5	0.83	1.01	0.18	61	0.33	0.112
R11-547	Soil			0.98	38.48	40.40	92.0	142	44.7	13.2	989	3.63	6.9	0.8	2.5	1.6	24.6	0.26	0.84	0.10	67	0.38	0.092
R11-548	Soil			1.05	23.14	26.97	110.1	133	37.4	13.4	902	3.64	6.8	0.8	2.3	1.1	22.1	0.44	0.75	0.12	63	0.32	0.128
R11-549	Soil			0.99	23.94	22.43	74.8	69	27.3	10.1	722	3.24	6.0	0.8	2.2	0.4	22.2	0.28	0.70	0.13	71	0.25	0.083
R11-550	Soil			1.30	18.32	17.91	77.4	102	33.2	11.9	946	3.48	5.5	0.8	3.9	0.4	13.4	0.27	0.55	0.14	60	0.18	0.122

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
R11-521	Soil	20.4	36.2	0.83	252.7	0.181	2	2.68	0.032	0.09	0.1	3.7	0.14	0.06	56	0.3	0.03	10.4	3.52	<0.1	0.25
R11-522	Soil	17.2	27.7	0.63	167.8	0.083	1	2.63	0.022	0.08	0.1	2.2	0.13	0.09	66	0.3	0.05	10.3	2.67	<0.1	0.19
R11-523	Soil	16.6	32.9	0.78	203.0	0.144	1	2.87	0.025	0.06	0.1	2.7	0.12	0.09	138	0.3	0.03	9.5	1.71	<0.1	0.22
R11-524	Soil	16.8	36.3	1.19	251.5	0.089	2	3.50	0.017	0.16	0.1	5.7	0.24	0.06	339	0.5	0.12	11.5	9.78	<0.1	0.17
R11-525	Soil	13.4	44.6	0.76	207.3	0.163	2	2.40	0.028	0.06	<0.1	3.0	0.14	0.12	74	0.3	0.04	9.9	1.94	<0.1	0.21
R11-526	Soil	18.0	35.8	0.76	130.2	0.159	2	2.84	0.030	0.07	0.1	3.0	0.13	0.08	59	0.4	0.05	11.5	1.93	<0.1	0.30
R11-527	Soil	16.7	31.4	1.07	168.6	0.116	2	2.39	0.015	0.12	0.1	4.3	0.10	0.02	37	0.3	<0.02	6.3	2.38	<0.1	0.08
R11-528	Soil	15.7	29.9	0.73	94.1	0.111	2	2.56	0.028	0.08	0.1	2.4	0.12	0.10	98	0.6	0.06	11.8	2.61	<0.1	0.18
R11-529	Soil	23.9	51.7	1.14	218.7	0.325	2	3.21	0.053	0.08	0.1	6.0	0.10	0.05	50	0.4	0.02	11.1	2.70	<0.1	0.25
R11-530	Soil	14.5	35.9	0.95	121.6	0.151	2	2.64	0.021	0.10	0.1	3.2	0.13	0.10	87	0.5	0.07	10.6	3.24	<0.1	0.14
R11-531	Soil	17.4	45.7	1.18	157.0	0.249	1	2.80	0.042	0.06	<0.1	3.8	0.09	0.10	57	0.4	0.03	9.7	1.88	<0.1	0.29
R11-532	Soil	17.7	33.5	0.92	123.2	0.159	2	2.91	0.023	0.08	0.2	3.5	0.14	0.08	52	0.4	0.03	10.2	3.06	<0.1	0.19
R11-533	Soil	14.2	33.0	1.06	190.7	0.119	3	2.51	0.014	0.10	0.1	3.6	0.11	0.07	47	0.3	0.03	7.5	3.68	<0.1	0.07
R11-534	Soil	17.0	32.8	0.81	143.8	0.134	2	2.77	0.028	0.07	0.1	2.9	0.10	0.09	65	0.3	0.02	10.3	1.85	<0.1	0.24
R11-535	Soil	10.7	36.0	0.75	140.6	0.155	2	2.67	0.031	0.06	0.1	2.6	0.10	0.15	85	0.6	0.04	10.3	3.49	<0.1	0.26
R11-536	Soil	16.7	29.4	0.81	181.3	0.148	2	2.55	0.029	0.07	0.1	2.8	0.10	0.08	72	0.3	<0.02	9.3	2.07	<0.1	0.18
R11-537	Soil	15.2	41.6	1.11	176.3	0.204	2	2.84	0.026	0.09	0.1	4.5	0.11	0.08	59	0.4	0.04	9.5	4.36	<0.1	0.15
R11-538	Soil	15.3	27.5	0.69	162.0	0.096	2	2.59	0.022	0.09	0.1	2.3	0.15	0.11	80	0.4	0.06	9.5	2.81	<0.1	0.11
R11-539	Soil	22.4	44.7	1.31	134.2	0.277	1	3.16	0.043	0.06	0.1	3.9	0.11	0.08	55	0.4	0.03	12.0	2.06	<0.1	0.38
R11-540	Soil	18.3	33.5	0.78	217.2	0.141	1	2.50	0.028	0.07	0.1	3.0	0.10	0.07	49	0.3	0.03	10.3	1.97	<0.1	0.18
R11-541	Soil	12.6	35.1	0.92	159.8	0.155	1	2.30	0.026	0.06	<0.1	2.4	0.12	0.11	61	0.4	0.05	10.9	2.19	<0.1	0.19
R11-542	Soil	18.1	37.0	0.84	138.0	0.144	2	2.63	0.028	0.08	0.1	3.3	0.15	0.06	66	0.3	0.04	10.8	2.43	<0.1	0.18
R11-543	Soil	12.6	31.0	0.64	187.9	0.111	2	2.36	0.017	0.09	0.1	3.0	0.18	0.12	91	0.5	0.04	9.5	3.11	<0.1	0.10
R11-544	Soil	19.6	36.7	0.59	106.7	0.089	1	3.00	0.029	0.08	0.2	2.9	0.17	0.11	134	0.8	0.04	12.9	2.79	<0.1	0.35
R11-545	Soil	16.3	36.8	0.97	170.0	0.159	2	2.63	0.022	0.07	0.1	3.3	0.11	0.08	51	0.3	<0.02	9.5	2.28	<0.1	0.17
R11-546	Soil	15.7	32.8	1.08	255.0	0.065	3	2.91	0.009	0.09	0.1	3.6	0.16	0.07	260	0.3	0.06	8.2	6.35	<0.1	0.07
R11-547	Soil	13.9	33.8	1.06	216.6	0.127	3	2.72	0.009	0.06	0.2	3.7	0.10	0.05	46	0.2	0.04	7.5	2.27	<0.1	0.15
R11-548	Soil	14.8	29.7	0.99	211.9	0.088	3	2.28	0.008	0.07	0.1	3.0	0.08	0.04	55	0.1	0.06	6.9	2.36	<0.1	0.05
R11-549	Soil	9.8	26.2	0.72	152.1	0.084	2	2.11	0.008	0.05	0.1	2.2	0.09	0.06	35	0.3	0.02	6.1	1.36	<0.1	0.06
R11-550	Soil	13.9	29.9	0.74	177.3	0.075	2	2.41	0.010	0.06	0.1	1.9	0.08	0.11	58	0.2	0.09	7.5	1.59	<0.1	0.09

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
R11-521	Soil			6.87	11.7	2.1	<0.05	19.6	13.40	43.0	0.06	<1	1.6	12.9	<10	<2
R11-522	Soil			11.27	9.0	2.4	<0.05	13.4	9.46	39.6	0.05	<1	1.5	14.6	<10	<2
R11-523	Soil			8.03	7.8	1.8	0.05	16.4	9.56	41.6	0.05	<1	1.5	11.7	<10	<2
R11-524	Soil			5.75	23.9	2.0	<0.05	16.8	13.48	29.8	0.06	<1	1.6	31.2	<10	<2
R11-525	Soil			8.33	9.4	1.6	<0.05	14.4	8.11	30.3	0.05	<1	1.0	11.0	<10	<2
R11-526	Soil			10.19	8.4	2.5	<0.05	23.5	10.56	41.6	0.05	<1	1.2	12.3	<10	<2
R11-527	Soil			1.27	9.7	0.8	<0.05	5.9	9.93	38.5	0.04	<1	0.7	17.1	<10	<2
R11-528	Soil			9.91	10.2	2.8	<0.05	15.9	8.54	36.3	0.06	<1	1.1	12.5	<10	<2
R11-529	Soil			4.03	11.1	2.1	<0.05	23.6	17.86	46.6	0.07	<1	1.7	14.3	<10	<2
R11-530	Soil			6.27	11.0	2.0	<0.05	11.8	8.43	35.0	0.05	<1	0.9	17.1	<10	<2
R11-531	Soil			7.91	7.2	1.6	<0.05	22.9	10.50	38.1	0.05	<1	1.4	10.2	13	<2
R11-532	Soil			7.30	9.1	2.0	<0.05	16.2	10.54	41.4	0.05	<1	1.1	18.4	16	<2
R11-533	Soil			2.97	9.6	1.0	<0.05	5.2	8.43	34.5	0.03	<1	1.1	19.0	<10	<2
R11-534	Soil			9.55	7.7	2.1	<0.05	19.0	9.81	40.3	0.05	<1	1.3	14.6	<10	<2
R11-535	Soil			10.51	9.0	1.8	<0.05	20.1	7.09	26.9	0.05	<1	1.1	9.4	<10	<2
R11-536	Soil			7.89	7.0	1.9	<0.05	13.9	9.98	39.7	0.04	<1	1.2	13.4	<10	<2
R11-537	Soil			5.15	10.5	1.3	<0.05	12.2	9.96	38.8	0.05	<1	1.2	17.3	<10	<2
R11-538	Soil			6.75	10.6	2.0	<0.05	8.5	8.61	33.9	0.05	<1	1.2	15.2	<10	<2
R11-539	Soil			9.55	7.6	2.3	0.05	26.6	12.30	48.3	0.07	<1	1.8	11.4	12	<2
R11-540	Soil			7.07	8.6	2.1	0.06	15.1	11.06	41.7	0.04	<1	1.5	13.1	<10	<2
R11-541	Soil			8.62	8.1	2.1	<0.05	13.8	7.26	30.5	0.05	<1	1.3	13.3	<10	<2
R11-542	Soil			6.76	10.6	2.1	<0.05	15.6	10.17	41.5	0.06	<1	1.2	15.2	<10	<2
R11-543	Soil			5.27	16.1	1.5	<0.05	6.7	7.23	28.0	0.05	<1	1.1	16.0	<10	<2
R11-544	Soil			15.66	11.4	3.0	<0.05	27.7	11.71	43.4	0.07	<1	1.3	14.1	<10	<2
R11-545	Soil			7.05	8.0	1.7	0.06	13.8	10.45	40.3	0.05	<1	1.4	16.3	<10	<2
R11-546	Soil			3.66	14.1	1.0	<0.05	5.3	11.96	32.6	0.06	<1	1.3	27.5	<10	<2
R11-547	Soil			4.81	7.6	0.9	<0.05	10.9	10.32	40.5	0.04	<1	1.4	19.0	<10	<2
R11-548	Soil			2.35	8.5	0.9	<0.05	4.1	9.23	34.9	0.03	<1	1.1	17.6	<10	<2
R11-549	Soil			2.80	6.9	0.8	<0.05	3.6	6.63	25.6	0.03	1	0.9	15.0	<10	<2
R11-550	Soil			5.46	7.6	1.3	<0.05	6.6	8.66	31.4	0.04	<1	1.2	11.4	<10	<2

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
R11-551	Soil	1.86	20.42	17.83	74.7	190	16.4	10.1	1943	3.14	4.3	1.0	1.6	0.1	16.3	0.47	0.46	0.17	56	0.16	0.130
R11-552	Soil	1.08	20.48	20.21	87.3	92	42.9	13.7	940	3.61	6.5	0.8	2.5	1.2	20.5	0.25	0.66	0.12	62	0.29	0.120
R11-553	Soil	1.42	22.04	15.06	88.1	92	36.1	10.6	678	3.38	6.5	0.9	3.3	0.7	18.6	0.22	0.62	0.14	62	0.24	0.096
R11-554	Soil	1.20	63.12	68.81	162.6	259	102.2	42.3	2175	4.72	20.4	0.6	1.7	1.2	21.9	1.11	0.92	0.07	115	0.35	0.117
R11-555	Soil	1.11	25.65	25.37	75.8	81	34.6	12.1	829	3.56	7.2	0.9	1.3	0.7	24.0	0.19	0.77	0.10	68	0.26	0.078
R11-556	Soil	1.46	22.93	50.10	160.4	104	43.4	16.1	1594	3.85	8.3	1.0	2.3	1.1	23.4	0.80	0.87	0.13	66	0.32	0.137
R11-557	Soil	1.22	24.31	36.56	80.6	98	43.9	13.6	1074	3.37	7.3	0.7	2.3	0.3	27.2	0.19	0.75	0.13	67	0.49	0.133
R11-558	Soil	1.20	15.89	32.38	111.1	38	25.8	10.3	996	3.43	7.5	0.9	1.2	0.6	18.6	0.41	0.68	0.16	59	0.26	0.142
R11-559	Soil	1.28	19.95	9.97	70.3	115	40.1	13.7	1291	3.83	5.0	0.7	2.0	0.5	18.8	0.15	0.59	0.25	68	0.25	0.106
R11-560	Soil	1.71	15.42	17.26	74.5	169	21.6	6.6	429	2.94	4.5	1.0	1.4	0.2	11.8	0.38	0.44	0.22	53	0.11	0.130
R11-561	Soil	1.05	23.85	10.15	76.2	32	60.5	15.4	731	4.02	4.9	0.7	1.3	1.4	17.1	0.12	0.53	0.15	69	0.26	0.088
R11-562	Soil	0.78	22.34	12.38	88.3	56	43.9	14.5	895	3.83	5.9	0.8	2.9	1.5	26.2	0.36	0.70	0.09	68	0.36	0.134
R11-563	Soil	1.32	25.75	18.84	61.3	101	28.2	12.7	1381	3.18	4.7	0.7	1.6	0.4	23.4	0.18	0.72	0.12	56	0.34	0.160
R11-564	Soil	1.52	21.69	15.48	96.6	42	38.3	11.3	685	3.68	5.3	0.9	2.2	0.5	15.4	0.36	0.53	0.16	62	0.23	0.134
R11-565	Soil	1.06	31.96	14.60	81.6	181	33.5	12.7	1406	3.46	4.5	1.0	2.0	0.7	37.0	0.24	0.62	0.12	57	0.90	0.142
R11-566	Soil	1.58	14.58	11.55	96.6	49	27.8	8.0	547	3.31	6.0	0.9	1.8	0.3	17.0	0.41	0.52	0.14	53	0.21	0.110
R11-567	Soil	1.18	21.81	20.27	126.7	47	82.2	23.8	1251	4.67	4.3	0.7	0.8	1.7	20.6	0.26	0.56	0.11	77	0.39	0.068
R11-568	Soil	1.91	16.08	12.01	83.0	52	29.7	8.9	612	3.40	5.1	1.0	1.2	0.5	12.8	0.36	0.46	0.17	52	0.18	0.099
R11-569	Soil	1.03	26.81	15.97	101.0	78	56.8	15.9	952	4.01	5.0	0.7	0.9	1.3	22.6	0.28	0.62	0.10	74	0.33	0.113
R11-570	Soil	2.06	17.48	11.98	91.4	49	35.2	10.4	668	3.97	5.1	1.2	*	1.4	12.2	0.26	0.42	0.20	53	0.19	0.107
R11-571	Soil	1.47	22.09	12.20	113.7	78	41.2	12.9	923	4.06	5.0	1.1	0.2	1.8	22.7	0.33	0.50	0.15	58	0.35	0.121
R11-572	Soil	1.79	16.84	13.78	107.9	21	33.8	9.6	742	3.56	6.2	1.0	2.0	0.8	13.8	0.42	0.56	0.19	54	0.18	0.103
R11-573	Soil	0.64	46.38	47.35	141.5	98	37.4	13.6	1199	3.31	5.4	0.7	2.0	1.9	31.1	0.44	0.87	0.07	65	0.40	0.099
R11-574	Soil	3.29	46.13	62.31	163.8	1259	26.9	11.8	1197	3.88	8.8	1.2	2.4	0.4	25.0	0.49	1.01	0.12	60	0.55	0.211
R11-575	Soil	1.11	23.13	14.82	93.5	63	45.8	14.1	889	3.75	6.4	0.7	1.9	0.9	22.5	0.21	0.74	0.11	72	0.29	0.103
R11-576	Soil	2.52	40.85	60.24	155.6	463	30.0	12.2	999	3.96	8.4	1.4	2.6	1.0	19.2	0.87	0.78	0.18	56	0.34	0.160
R11-577	Soil	1.30	30.70	10.68	99.7	97	62.9	17.6	861	4.24	4.5	1.0	0.9	2.6	20.1	0.19	0.39	0.09	64	0.36	0.095
R11-578	Soil	1.53	28.61	22.63	112.5	88	46.6	14.7	923	3.88	7.6	0.9	2.6	1.6	28.6	0.43	0.79	0.11	68	0.36	0.122
R11-579	Soil	1.06	62.89	15.50	130.0	233	56.0	16.4	1085	4.08	6.1	1.1	1.9	2.9	26.7	0.26	0.57	0.10	68	0.41	0.125
R11-580	Soil	2.17	21.81	18.99	87.3	98	28.8	12.8	1143	4.26	8.0	1.0	0.6	0.9	15.1	0.28	0.73	0.14	59	0.17	0.114

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

Page: 7 of 11 Part 2

CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
R11-551	Soil	12.3	21.9	0.32	252.8	0.036	2	1.88	0.012	0.04	0.1	0.9	0.12	0.17	51	0.3	0.05	9.4	1.67	<0.1	0.07
R11-552	Soil	15.3	34.9	0.94	199.9	0.109	2	1.98	0.010	0.07	0.1	2.9	0.06	0.07	42	0.2	0.07	6.5	1.55	<0.1	0.08
R11-553	Soil	13.3	32.5	0.79	144.2	0.101	2	2.38	0.010	0.06	0.1	2.6	0.11	0.06	61	0.3	0.03	8.9	1.70	<0.1	0.10
R11-554	Soil	10.0	230.2	3.09	114.2	0.097	2	2.91	0.002	0.04	0.2	8.4	0.06	0.02	67	0.2	0.26	7.6	1.22	<0.1	0.09
R11-555	Soil	11.1	31.2	0.83	181.0	0.091	2	2.10	0.009	0.06	0.1	2.7	0.08	0.08	60	0.3	0.08	6.6	1.32	<0.1	0.07
R11-556	Soil	12.9	34.8	0.96	192.3	0.172	3	1.72	0.011	0.08	0.2	2.9	0.06	0.09	103	0.3	0.07	6.2	3.08	<0.1	0.09
R11-557	Soil	12.5	37.5	0.81	369.3	0.037	2	2.53	0.009	0.06	<0.1	2.5	0.11	0.11	72	0.3	0.04	7.4	2.69	<0.1	0.04
R11-558	Soil	13.4	24.9	0.69	162.0	0.075	2	1.93	0.012	0.07	0.1	1.8	0.08	0.09	45	0.2	0.04	6.3	2.09	<0.1	0.06
R11-559	Soil	12.9	33.6	0.79	241.8	0.112	2	2.52	0.011	0.05	0.1	2.6	0.09	0.13	83	0.4	0.04	9.0	2.81	<0.1	0.11
R11-560	Soil	11.4	26.6	0.40	138.8	0.056	1	2.29	0.011	0.05	0.1	1.1	0.15	0.14	76	0.4	0.03	9.2	2.20	<0.1	0.11
R11-561	Soil	12.6	38.7	1.14	138.9	0.180	2	2.16	0.013	0.06	0.1	3.1	0.11	0.07	39	0.3	0.04	9.7	2.08	<0.1	0.16
R11-562	Soil	16.4	31.6	1.03	271.0	0.125	3	2.46	0.009	0.09	0.1	3.6	0.07	0.04	34	0.2	0.02	6.4	1.66	<0.1	0.06
R11-563	Soil	12.8	27.1	0.65	245.4	0.051	2	2.05	0.008	0.07	0.1	2.0	0.16	0.14	38	0.3	0.03	7.2	4.48	<0.1	0.09
R11-564	Soil	15.3	32.3	0.77	137.5	0.109	2	2.67	0.012	0.06	0.1	2.2	0.09	0.11	52	0.3	0.04	8.7	1.93	<0.1	0.13
R11-565	Soil	39.9	28.2	0.83	332.0	0.088	2	2.45	0.016	0.07	<0.1	5.6	0.08	0.13	69	0.3	0.03	7.8	7.95	<0.1	0.11
R11-566	Soil	14.5	24.4	0.64	149.6	0.066	2	2.22	0.016	0.07	0.2	1.6	0.09	0.09	50	0.3	0.04	8.9	1.56	<0.1	0.07
R11-567	Soil	13.7	48.8	1.76	214.6	0.316	2	1.95	0.019	0.06	<0.1	3.6	0.06	0.08	26	0.3	0.03	9.7	2.61	<0.1	0.25
R11-568	Soil	16.5	26.0	0.50	146.1	0.082	2	2.56	0.021	0.05	0.1	1.8	0.11	0.10	53	0.4	0.03	10.7	1.74	<0.1	0.16
R11-569	Soil	13.0	41.7	1.18	242.0	0.152	2	2.35	0.012	0.06	0.1	3.6	0.09	0.07	35	0.3	0.05	8.8	2.03	<0.1	0.12
R11-570	Soil	21.0	29.3	0.67	141.3	0.132	1	3.07	0.028	0.06	0.2	2.5	0.12	0.09	58	0.4	0.03	14.4	2.29	<0.1	0.33
R11-571	Soil	23.3	32.3	0.88	204.1	0.169	2	2.84	0.024	0.07	0.2	3.1	0.11	0.09	39	0.4	0.03	11.8	2.85	<0.1	0.20
R11-572	Soil	16.0	28.2	0.66	131.7	0.093	2	2.32	0.016	0.06	0.2	1.9	0.08	0.09	47	0.4	0.04	11.1	1.85	<0.1	0.15
R11-573	Soil	12.6	27.9	1.01	249.2	0.098	2	2.03	0.006	0.08	0.1	3.7	0.08	<0.02	55	0.2	0.03	5.5	3.43	<0.1	0.08
R11-574	Soil	18.5	30.8	0.86	228.0	0.073	3	3.05	0.015	0.10	0.2	2.6	0.19	0.22	293	0.7	0.04	10.6	10.23	<0.1	0.11
R11-575	Soil	11.9	37.2	1.01	167.6	0.116	3	2.16	0.008	0.08	0.1	3.4	0.09	0.06	52	0.2	0.04	7.2	2.24	<0.1	0.06
R11-576	Soil	23.7	28.6	0.74	143.1	0.084	3	2.79	0.019	0.08	0.2	3.1	0.15	0.12	116	0.6	0.05	11.2	6.43	<0.1	0.17
R11-577	Soil	22.2	37.2	1.30	144.2	0.247	1	2.55	0.026	0.06	0.1	3.7	0.07	0.05	38	0.2	<0.02	9.1	1.83	<0.1	0.21
R11-578	Soil	14.2	38.2	1.02	173.5	0.149	3	2.56	0.013	0.08	0.2	3.9	0.12	0.06	53	0.3	0.05	8.6	2.58	<0.1	0.12
R11-579	Soil	20.1	37.7	1.31	244.1	0.199	2	2.36	0.021	0.09	0.2	4.5	0.07	0.03	34	0.2	0.02	8.3	3.56	<0.1	0.16
R11-580	Soil	13.3	24.7	0.75	117.3	0.113	2	2.41	0.012	0.06	0.1	2.3	0.10	0.12	83	0.4	0.04	8.4	2.84	<0.1	0.15

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
R11-551	Soil	8.29	6.3	2.2	<0.05	7.1	8.33	26.0	0.04	<1	1.1	7.3	<10	<2
R11-552	Soil	3.08	7.1	0.8	<0.05	6.4	9.22	35.0	0.03	<1	0.9	15.1	<10	<2
R11-553	Soil	5.88	7.7	1.6	<0.05	8.4	8.08	30.1	0.04	<1	1.0	15.1	<10	<2
R11-554	Soil	0.56	3.0	0.3	<0.05	5.0	8.57	23.6	0.03	1	0.7	40.5	<10	<2
R11-555	Soil	3.08	7.9	0.8	<0.05	5.2	6.97	29.0	0.03	<1	1.1	19.2	<10	<2
R11-556	Soil	3.03	9.2	0.8	<0.05	6.5	7.66	30.8	0.03	2	0.9	13.4	<10	<2
R11-557	Soil	3.38	9.0	0.8	<0.05	2.5	13.64	40.5	0.04	<1	1.3	22.3	<10	<2
R11-558	Soil	3.59	7.6	1.0	<0.05	4.3	7.11	31.0	0.04	<1	0.8	12.3	<10	<2
R11-559	Soil	6.96	9.0	1.4	<0.05	8.4	9.95	38.5	0.05	<1	1.6	16.3	<10	<2
R11-560	Soil	9.22	7.3	1.9	<0.05	8.1	6.16	24.7	0.04	<1	0.8	7.5	<10	<2
R11-561	Soil	6.71	7.6	1.5	<0.05	12.2	7.03	34.0	0.04	<1	1.0	16.6	<10	<2
R11-562	Soil	2.15	7.8	0.7	<0.05	4.8	9.99	40.2	0.04	<1	1.1	16.1	<10	<2
R11-563	Soil	4.98	11.0	1.1	<0.05	5.5	9.27	39.0	0.04	<1	1.2	13.8	<10	<2
R11-564	Soil	7.69	7.3	1.5	<0.05	10.3	8.86	35.0	0.04	<1	1.0	11.8	<10	<2
R11-565	Soil	5.87	12.5	1.3	<0.05	8.4	28.48	58.5	0.06	<1	2.2	12.7	<10	<2
R11-566	Soil	7.48	7.8	1.8	<0.05	5.8	7.51	33.7	0.05	<1	1.0	13.5	<10	<2
R11-567	Soil	5.52	8.2	1.5	0.07	16.8	8.84	36.3	0.05	<1	1.2	13.9	<10	<2
R11-568	Soil	10.47	7.9	2.2	0.07	12.9	9.61	37.5	0.05	<1	1.3	9.8	<10	<2
R11-569	Soil	3.72	9.7	1.1	<0.05	9.6	8.43	31.8	0.04	<1	1.2	16.3	<10	<2
R11-570	Soil	17.18	8.0	3.0	0.15	25.8	12.23	51.4	0.06	<1	1.9	11.3	<10	<2
R11-571	Soil	10.46	11.2	2.5	0.10	17.5	14.25	57.2	0.07	<1	2.0	12.7	<10	<2
R11-572	Soil	11.41	8.4	2.5	0.06	12.9	9.06	37.7	0.05	<1	1.2	12.8	<10	<2
R11-573	Soil	1.26	8.8	0.6	<0.05	4.9	8.10	31.3	0.04	<1	0.9	19.2	<10	<2
R11-574	Soil	8.35	19.2	1.4	<0.05	8.3	15.60	32.6	0.05	<1	1.5	23.5	<10	<2
R11-575	Soil	2.82	8.3	0.9	<0.05	4.3	7.55	30.6	0.04	<1	1.0	17.9	<10	<2
R11-576	Soil	8.44	11.9	2.3	<0.05	13.2	17.19	44.7	0.06	<1	1.9	20.4	<10	<2
R11-577	Soil	4.22	7.0	1.6	0.06	17.9	13.19	50.6	0.05	<1	1.8	10.3	<10	<2
R11-578	Soil	4.00	9.5	1.2	<0.05	8.4	9.12	34.4	0.04	<1	1.3	18.5	<10	<2
R11-579	Soil	2.67	9.5	1.5	<0.05	14.3	14.51	44.6	0.04	<1	1.6	16.7	<10	<2
R11-580	Soil	6.70	7.7	1.5	<0.05	12.1	7.51	31.7	0.05	<1	1.1	13.5	<10	<2

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
R11-581	Soil	1.01	169.7	16.84	110.8	397	61.0	17.4	853	4.53	10.0	1.8	5.2	3.4	23.3	0.48	0.49	0.12	74	0.46	0.085
R11-582	Soil	1.26	31.25	36.03	102.1	194	21.3	12.3	1079	3.33	7.7	1.4	4.0	0.6	27.6	0.38	1.11	0.23	68	0.29	0.100
R11-583	Soil	1.17	34.89	18.43	128.5	116	57.6	18.1	1104	4.29	6.3	1.1	3.1	3.1	20.4	0.41	0.54	0.19	66	0.32	0.146
R11-584	Soil	1.18	26.75	39.01	92.5	73	24.3	12.2	867	3.44	10.9	1.0	2.3	0.9	33.5	0.41	1.06	0.17	76	0.31	0.068
R11-585	Soil	2.41	27.93	38.07	155.1	168	20.5	12.6	1909	3.48	5.7	1.1	2.0	0.2	17.9	0.56	0.64	0.23	61	0.21	0.181
R11-586	Soil	1.22	31.88	20.28	75.6	126	27.8	12.1	1361	3.33	7.5	0.9	3.7	0.5	23.9	0.20	0.80	0.17	68	0.27	0.121
R11-587	Soil	1.48	13.03	14.36	77.8	95	24.8	10.8	808	3.74	4.2	1.0	2.0	0.4	20.9	0.41	0.42	0.23	59	0.30	0.153
R11-588	Soil	1.61	36.14	149.6	259.3	242	41.7	12.5	952	3.97	7.7	1.4	2.2	2.3	25.5	1.89	0.79	0.21	60	0.29	0.156
R11-589	Soil	1.88	29.25	32.52	156.5	255	32.6	16.8	1743	3.84	4.6	1.2	1.9	0.5	25.8	0.43	0.59	0.15	65	0.38	0.132
R11-590	Soil	1.94	38.27	87.97	101.1	376	17.4	15.4	1687	4.13	21.8	1.3	2.5	1.0	28.5	0.55	1.50	0.20	57	0.28	0.083
R11-591	Soil	1.09	14.01	15.73	121.1	33	28.8	11.8	958	3.23	4.7	0.7	1.7	0.5	12.6	1.44	0.54	0.18	60	0.18	0.085
R11-592	Soil	1.40	34.80	23.28	131.9	266	42.3	13.0	893	3.64	6.5	1.6	3.4	2.1	20.1	1.35	0.67	0.17	50	0.33	0.085
R11-593	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-594	Soil	1.76	20.37	56.88	100.9	113	19.6	9.9	973	2.82	5.8	0.7	2.1	0.3	19.9	0.64	0.83	0.13	57	0.19	0.103
R11-595	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-596	Soil	1.41	42.26	117.8	200.6	220	45.7	14.6	850	3.59	4.2	0.8	1.9	1.6	17.7	1.34	0.61	0.11	58	0.33	0.079
R11-597	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-598	Soil	1.36	33.43	34.84	115.1	158	37.1	13.2	893	3.60	4.7	1.1	1.6	2.3	19.7	0.75	0.56	0.13	56	0.28	0.118
R11-599	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-600	Soil	1.36	27.43	30.11	89.1	85	32.1	10.7	785	3.15	4.6	0.9	2.1	1.1	12.1	0.47	0.48	0.16	50	0.19	0.114
R11-601	Soil	0.97	17.25	18.83	129.4	44	27.5	10.7	815	3.03	5.2	0.7	2.2	0.5	20.0	0.97	0.65	0.16	59	0.25	0.111
R11-602	Soil	1.17	32.81	15.44	96.0	110	33.8	11.5	783	3.21	4.3	0.8	0.8	0.5	17.3	0.55	0.51	0.13	54	0.24	0.101
R11-603	Soil	1.17	17.61	18.65	95.0	37	36.4	11.2	661	3.19	3.5	0.7	0.8	0.8	14.1	0.44	0.41	0.26	54	0.22	0.097
R11-604	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-605	Soil	0.87	17.92	19.33	146.4	49	31.2	12.0	932	2.94	4.0	0.7	2.1	0.8	19.9	0.70	0.50	0.12	56	0.27	0.100
R11-606	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-607	Soil	1.42	13.60	17.22	81.7	40	18.0	5.6	412	2.59	4.7	0.9	1.6	0.6	8.7	0.29	0.38	0.17	33	0.13	0.089
R11-608	Soil	0.94	14.12	40.46	101.3	44	21.1	9.0	801	2.82	3.6	0.6	1.2	0.2	22.0	0.76	0.53	0.13	51	0.24	0.099
R11-609	Soil	1.97	23.59	11.50	65.3	101	18.5	4.9	311	2.83	5.6	1.2	*	0.7	7.4	0.23	0.33	0.26	32	0.11	0.121
R11-610	Soil	0.70	15.73	9.73	66.2	31	37.8	10.4	540	2.88	4.5	0.6	1.1	0.8	16.8	0.19	0.50	0.09	52	0.24	0.092

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

Page: 8 of 11 Part 2

CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
R11-581	Soil	24.0	41.3	1.36	379.3	0.270	2	2.40	0.026	0.10	0.1	5.3	0.07	0.03	44	0.1	0.02	7.9	7.09	<0.1	0.31
R11-582	Soil	15.8	21.5	0.79	173.2	0.074	3	2.23	0.005	0.05	0.2	2.8	0.15	0.06	60	0.2	0.03	6.5	2.47	<0.1	0.05
R11-583	Soil	18.6	37.3	1.31	151.1	0.227	2	2.16	0.027	0.09	0.2	4.0	0.09	0.03	41	0.2	0.03	7.5	3.45	<0.1	0.21
R11-584	Soil	9.6	22.7	0.81	124.4	0.123	3	2.07	0.003	0.04	0.2	2.9	0.13	0.05	95	0.3	0.08	5.6	1.25	<0.1	0.08
R11-585	Soil	12.8	26.5	0.55	266.0	0.040	2	2.74	0.005	0.10	0.1	1.6	0.21	0.19	60	0.4	0.03	9.5	6.44	<0.1	0.05
R11-586	Soil	9.6	26.8	0.74	165.2	0.092	3	1.95	0.006	0.06	0.2	2.6	0.10	0.11	88	0.2	0.04	6.1	4.38	<0.1	0.05
R11-587	Soil	14.4	25.6	0.55	185.6	0.093	2	2.02	0.011	0.05	0.2	1.6	0.10	0.18	47	0.2	<0.02	10.9	1.60	<0.1	0.19
R11-588	Soil	21.5	35.7	0.90	171.7	0.166	3	2.52	0.021	0.08	0.2	3.7	0.12	0.06	102	0.3	0.03	10.0	3.41	<0.1	0.16
R11-589	Soil	18.0	29.9	0.97	336.9	0.059	2	2.67	0.011	0.09	0.1	2.5	0.18	0.15	76	0.2	0.04	9.2	5.32	<0.1	0.08
R11-590	Soil	16.4	15.4	1.02	222.9	0.068	3	2.60	0.005	0.10	0.2	3.5	0.25	0.08	104	0.2	0.11	6.2	6.62	<0.1	0.03
R11-591	Soil	10.5	24.8	0.70	135.8	0.100	2	1.70	0.012	0.05	<0.1	1.8	0.09	0.07	41	0.2	<0.02	7.1	1.58	<0.1	0.08
R11-592	Soil	20.1	26.6	0.97	227.1	0.147	2	2.11	0.016	0.06	0.1	2.9	0.16	0.06	133	0.3	0.03	8.2	2.56	<0.1	0.20
R11-593	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-594	Soil	7.0	19.6	0.55	143.7	0.062	2	1.65	0.003	0.06	0.1	1.8	0.14	0.10	128	0.3	0.02	5.4	2.19	<0.1	0.03
R11-595	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-596	Soil	14.3	30.0	1.08	166.7	0.177	2	2.11	0.016	0.05	<0.1	2.8	0.09	0.06	140	0.3	0.03	8.0	3.58	<0.1	0.17
R11-597	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-598	Soil	17.4	32.1	0.79	152.7	0.193	2	2.41	0.022	0.06	0.1	3.5	0.11	0.06	48	0.3	0.03	8.9	2.82	<0.1	0.16
R11-599	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-600	Soil	13.3	25.2	0.66	97.6	0.112	2	2.31	0.012	0.06	0.1	2.4	0.10	0.06	48	0.3	0.02	8.0	2.26	<0.1	0.14
R11-601	Soil	9.5	23.7	0.74	151.4	0.093	2	1.73	0.006	0.05	0.1	2.1	0.08	0.07	50	0.2	0.04	5.9	1.40	<0.1	0.07
R11-602	Soil	12.6	26.3	0.75	151.1	0.107	2	2.06	0.011	0.06	<0.1	2.1	0.08	0.09	68	0.3	0.03	7.1	2.64	<0.1	0.08
R11-603	Soil	12.2	24.7	0.78	113.6	0.141	1	1.96	0.017	0.04	0.1	2.0	0.08	0.08	58	0.3	0.03	7.7	1.38	<0.1	0.15
R11-604	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-605	Soil	9.4	21.3	0.87	106.5	0.124	1	1.81	0.009	0.04	0.1	2.2	0.06	0.06	60	0.2	0.02	6.8	1.24	<0.1	0.12
R11-606	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-607	Soil	14.2	16.2	0.38	90.2	0.067	<1	1.99	0.018	0.04	0.2	1.3	0.09	0.08	57	0.3	<0.02	8.3	1.13	<0.1	0.23
R11-608	Soil	11.5	19.1	0.61	173.4	0.050	2	1.59	0.005	0.06	<0.1	1.5	0.09	0.07	47	0.2	0.03	6.0	3.11	<0.1	0.03
R11-609	Soil	18.4	18.5	0.34	102.7	0.079	1	2.86	0.019	0.05	0.2	1.3	0.11	0.10	78	0.6	0.03	11.5	1.03	<0.1	0.31
R11-610	Soil	10.4	26.9	0.79	152.8	0.087	2	1.82	0.006	0.05	<0.1	2.4	0.07	0.04	31	0.1	0.03	5.3	1.04	<0.1	0.06

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
R11-581	Soil	3.25	10.5	1.6	<0.05	30.3	21.17	47.7	0.05	<1	1.7	23.3	<10	<2
R11-582	Soil	2.43	9.8	1.1	<0.05	3.1	11.98	38.2	0.04	1	1.4	19.3	<10	<2
R11-583	Soil	2.83	8.3	1.4	0.05	19.2	12.97	41.4	0.04	<1	1.3	15.1	<10	<2
R11-584	Soil	2.48	5.2	0.7	<0.05	4.7	5.96	23.6	0.02	1	0.7	20.7	<10	<2
R11-585	Soil	5.52	17.6	1.8	<0.05	3.6	8.89	28.0	0.05	<1	1.4	16.6	<10	<2
R11-586	Soil	3.19	9.0	0.9	<0.05	3.7	6.78	24.7	0.03	<1	1.0	16.6	<10	<2
R11-587	Soil	14.83	6.7	2.9	<0.05	14.3	8.40	32.6	0.06	<1	1.4	9.1	<10	<2
R11-588	Soil	6.18	12.1	2.3	0.08	15.1	14.19	45.9	0.06	<1	1.8	18.7	<10	<2
R11-589	Soil	5.76	15.8	1.6	<0.05	6.2	12.89	38.2	0.04	<1	1.5	20.9	<10	<2
R11-590	Soil	1.70	16.1	0.8	<0.05	2.2	10.86	45.1	0.03	<1	1.4	23.7	<10	<2
R11-591	Soil	5.03	6.3	1.5	<0.05	6.7	5.77	25.5	0.03	<1	0.8	11.1	<10	<2
R11-592	Soil	7.15	8.8	2.1	0.05	16.4	13.89	44.3	0.05	<1	1.4	15.3	<10	<2
R11-593	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-594	Soil	2.67	9.1	0.7	<0.05	2.5	4.34	17.1	0.02	<1	0.7	12.6	<10	<2
R11-595	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-596	Soil	4.44	7.3	1.3	<0.05	13.5	8.99	31.7	0.05	<1	1.2	11.6	<10	<2
R11-597	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-598	Soil	5.66	7.8	1.8	0.07	15.3	11.10	41.7	0.04	<1	1.6	12.0	12	<2
R11-599	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-600	Soil	6.74	6.6	1.5	0.06	12.1	8.46	33.3	0.04	<1	1.2	11.1	<10	<2
R11-601	Soil	3.20	6.5	1.0	<0.05	4.2	5.79	22.6	0.02	<1	0.7	13.9	<10	<2
R11-602	Soil	4.59	5.8	1.2	<0.05	6.4	7.23	28.9	0.04	<1	1.1	13.7	<10	<2
R11-603	Soil	6.19	5.2	1.4	0.06	11.2	6.72	28.2	0.03	<1	0.9	9.5	<10	<2
R11-604	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-605	Soil	4.47	5.5	1.0	<0.05	9.4	5.98	22.4	0.03	<1	0.8	15.2	<10	<2
R11-606	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-607	Soil	13.54	5.2	2.2	0.09	19.6	7.56	31.8	0.04	<1	1.0	8.5	<10	<2
R11-608	Soil	2.17	7.0	1.0	<0.05	2.2	6.38	25.0	0.03	<1	0.9	11.7	<10	<2
R11-609	Soil	22.29	4.8	3.0	0.13	25.9	8.84	40.4	0.06	<1	1.3	8.0	<10	<2
R11-610	Soil	2.27	4.9	0.7	<0.05	5.2	6.23	24.5	0.02	<1	0.7	12.8	<10	<2

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-611	Soil			1.48	15.64	9.62	78.5	59	18.7	5.7	500	2.79	4.4	0.9	2.5	0.2	9.7	0.29	0.38	0.20	42	0.11	0.111
R11-612	Soil			0.95	13.09	10.17	71.1	46	31.0	8.8	428	2.95	4.6	0.7	2.4	0.4	14.4	0.30	0.46	0.13	53	0.19	0.087
R11-613	Soil			1.46	18.19	11.56	89.3	81	28.4	7.9	412	2.94	4.5	0.9	1.0	0.6	9.7	0.31	0.34	0.19	43	0.13	0.108
R11-614	Soil			1.03	14.93	12.44	76.0	68	29.7	10.7	818	2.92	3.8	0.6	1.2	0.4	13.9	0.31	0.42	0.12	52	0.15	0.097
R11-615	Soil			1.54	13.74	18.60	102.9	61	20.3	6.5	531	3.04	5.1	1.0	0.8	0.5	12.1	0.39	0.45	0.18	45	0.15	0.092
R11-616	Soil			0.65	14.57	13.19	114.8	34	21.6	7.6	531	2.69	6.1	0.8	1.3	1.2	18.2	0.34	0.63	0.10	45	0.28	0.108
R11-617	Soil			0.91	17.84	23.49	141.8	59	25.9	8.9	587	2.83	5.2	0.7	2.5	0.5	24.7	0.67	0.68	0.10	54	0.30	0.103
R11-618	Soil			1.55	14.47	19.75	90.9	120	18.9	7.6	800	2.72	4.1	0.7	1.4	0.2	18.3	0.63	0.45	0.18	48	0.33	0.136
R11-619	Soil			1.08	17.17	24.10	121.7	74	23.2	8.9	760	2.75	5.0	0.7	1.6	0.3	21.1	0.56	0.62	0.12	53	0.23	0.094
R11-620	Soil			0.98	24.92	22.80	180.5	159	32.8	10.7	650	3.20	5.7	1.0	1.2	1.5	19.4	0.57	0.63	0.12	50	0.35	0.111
R11-621	Soil			1.47	15.34	9.53	99.4	61	28.1	7.6	451	2.98	5.1	1.0	3.8	0.6	12.5	0.35	0.41	0.18	43	0.17	0.098
R11-622	Soil			1.10	44.15	44.83	232.0	504	54.3	16.0	889	3.78	6.6	0.9	3.8	1.7	20.3	0.45	0.75	0.11	57	0.24	0.087
R11-623	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-624	Soil			1.23	31.52	46.13	101.3	234	39.8	15.2	894	3.89	9.8	0.8	1.8	2.6	27.8	0.55	0.85	0.17	60	0.40	0.135
R11-625	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-626	Soil			1.25	26.02	9.13	77.7	95	55.6	18.0	1074	4.55	3.4	0.8	0.4	0.9	32.2	0.18	0.34	0.24	68	0.69	0.108
R11-627	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-628	Soil			1.69	14.12	8.45	54.2	84	19.3	7.1	592	2.45	3.1	0.7	1.5	0.2	24.9	0.14	0.40	0.18	50	0.39	0.129
R11-629	Soil			1.85	16.51	8.72	72.8	55	28.5	9.1	572	3.66	5.3	1.1	3.5	1.1	10.8	0.15	0.37	0.37	54	0.16	0.099
R11-630	Soil			2.37	17.69	13.14	61.3	92	12.4	12.8	2416	2.39	4.0	0.5	3.1	0.4	39.2	0.27	0.56	0.24	47	0.70	0.277
R11-631	Soil			2.46	23.85	10.61	97.9	91	36.9	10.7	630	3.80	6.4	1.0	2.3	2.0	11.5	0.13	0.47	0.24	51	0.15	0.132
R11-632	Soil			0.90	12.96	12.05	55.7	45	18.3	8.9	827	3.13	4.9	0.9	0.8	0.8	22.6	0.07	0.50	0.13	59	0.24	0.094
R11-633	Soil			1.84	31.17	10.59	113.3	113	46.0	13.2	756	3.92	7.0	1.2	1.8	2.7	17.3	0.18	0.53	0.24	58	0.22	0.152
R11-634	Soil			2.17	12.75	9.35	49.7	312	10.9	6.8	1262	2.09	3.5	0.8	0.6	<0.1	20.2	0.24	0.47	0.19	46	0.18	0.191
R11-635	Soil			1.03	19.88	11.05	77.4	101	37.4	10.1	765	3.29	6.1	0.6	1.4	0.4	19.5	0.17	0.71	0.12	60	0.25	0.075
R11-636	Soil			1.43	11.55	8.73	90.6	73	21.3	10.6	1393	3.23	4.6	0.7	0.8	0.2	19.9	0.20	0.50	0.13	60	0.20	0.109
R11-637	Soil			1.17	23.74	10.47	76.2	62	41.7	12.6	768	3.76	7.1	0.6	3.8	0.6	19.6	0.15	0.67	0.13	69	0.20	0.069
R11-638	Soil			2.28	13.26	7.75	39.5	179	11.4	6.9	936	1.90	3.1	0.7	0.4	<0.1	23.8	0.21	0.47	0.16	39	0.24	0.193
R11-639	Soil			1.43	19.45	11.63	73.1	86	22.4	10.4	1083	3.12	5.3	0.7	0.9	0.2	23.1	0.26	0.64	0.13	57	0.18	0.110
R11-640	Soil			1.35	13.32	6.82	51.4	105	19.9	5.0	234	2.13	3.3	0.7	1.6	<0.1	12.9	0.14	0.34	0.16	37	0.11	0.124

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
R11-611	Soil	12.3	22.1	0.32	94.4	0.063	1	1.94	0.014	0.05	0.2	1.3	0.10	0.12	54	0.4	<0.02	9.0	1.34	<0.1	0.13
R11-612	Soil	10.8	26.0	0.63	140.6	0.075	2	1.89	0.007	0.05	<0.1	1.8	0.09	0.06	38	0.2	<0.02	6.4	1.22	<0.1	0.04
R11-613	Soil	13.1	24.9	0.50	102.5	0.090	1	2.36	0.013	0.04	0.2	1.9	0.10	0.09	69	0.5	0.02	9.4	1.15	<0.1	0.20
R11-614	Soil	10.4	26.6	0.57	155.8	0.107	2	1.68	0.010	0.06	<0.1	2.0	0.09	0.09	77	0.2	0.03	6.2	1.43	<0.1	0.08
R11-615	Soil	14.2	20.5	0.39	114.7	0.097	1	2.02	0.015	0.05	0.2	1.6	0.09	0.08	48	0.3	0.04	9.7	1.27	<0.1	0.17
R11-616	Soil	11.9	16.5	0.61	157.8	0.079	1	1.43	0.005	0.05	0.2	1.9	0.07	0.04	53	0.1	<0.02	4.0	1.48	<0.1	0.08
R11-617	Soil	9.4	23.8	0.64	135.3	0.090	2	1.68	0.006	0.05	0.1	2.1	0.07	0.05	49	0.2	0.02	5.5	1.22	<0.1	0.04
R11-618	Soil	11.9	25.1	0.37	152.9	0.064	2	1.46	0.011	0.06	0.1	1.4	0.12	0.16	62	0.3	0.03	7.9	2.07	<0.1	0.06
R11-619	Soil	9.4	22.6	0.54	141.1	0.062	1	1.72	0.005	0.04	0.1	1.6	0.09	0.07	49	0.2	0.04	5.6	1.13	<0.1	0.05
R11-620	Soil	17.4	24.3	0.80	190.0	0.132	2	1.98	0.010	0.07	0.2	2.8	0.09	0.05	66	0.2	<0.02	6.4	2.83	<0.1	0.11
R11-621	Soil	15.1	23.4	0.44	146.1	0.078	1	2.45	0.014	0.05	0.2	1.7	0.09	0.09	45	0.3	0.04	9.2	1.12	<0.1	0.23
R11-622	Soil	15.1	38.3	1.15	253.8	0.196	2	3.00	0.007	0.12	0.1	4.6	0.17	0.07	168	0.3	0.05	8.2	5.83	<0.1	0.30
R11-623	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-624	Soil	13.9	26.6	0.93	254.1	0.179	2	1.80	0.013	0.11	0.2	3.6	0.07	0.10	142	0.3	0.11	4.9	2.23	<0.1	0.19
R11-625	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-626	Soil	20.7	39.1	1.16	183.4	0.209	2	2.56	0.015	0.04	0.1	3.4	0.06	0.14	45	0.4	<0.02	10.8	2.17	<0.1	0.21
R11-627	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-628	Soil	9.4	22.4	0.31	199.0	0.055	1	1.28	0.010	0.05	0.1	1.6	0.07	0.18	94	0.4	0.04	6.2	1.45	<0.1	0.12
R11-629	Soil	18.4	30.2	0.60	109.6	0.126	2	2.94	0.018	0.05	0.2	2.7	0.12	0.08	66	0.6	0.06	12.3	1.95	<0.1	0.27
R11-630	Soil	4.8	17.9	0.13	362.3	0.047	1	0.92	0.010	0.05	0.2	1.6	0.16	0.20	83	0.5	0.04	7.6	2.70	<0.1	0.36
R11-631	Soil	16.4	33.2	0.78	71.4	0.136	2	2.47	0.024	0.06	0.2	2.9	0.15	0.06	34	0.6	0.05	12.2	1.99	<0.1	0.25
R11-632	Soil	11.4	19.1	0.61	206.9	0.092	2	1.68	0.004	0.07	0.2	2.2	0.07	0.07	47	0.3	<0.02	5.9	4.91	<0.1	0.07
R11-633	Soil	21.1	39.2	0.88	135.6	0.170	2	2.64	0.022	0.07	0.2	4.3	0.16	0.04	32	0.4	<0.02	10.9	2.09	0.1	0.21
R11-634	Soil	5.3	18.8	0.11	271.1	0.018	1	1.15	0.008	0.05	0.2	0.4	0.16	0.22	146	0.4	0.04	6.2	1.75	<0.1	<0.02
R11-635	Soil	10.1	34.6	0.72	301.9	0.058	2	1.87	0.006	0.06	0.1	2.5	0.08	0.07	56	0.4	0.04	6.6	3.81	<0.1	0.04
R11-636	Soil	10.3	24.1	0.42	180.3	0.074	1	1.68	0.007	0.06	0.1	1.6	0.11	0.12	46	0.4	<0.02	8.7	2.90	<0.1	0.08
R11-637	Soil	9.4	42.2	0.79	171.1	0.110	2	1.95	0.005	0.06	0.1	2.9	0.09	0.06	39	0.4	0.04	7.7	1.99	<0.1	0.08
R11-638	Soil	5.2	16.4	0.09	242.8	0.014	1	1.05	0.009	0.04	0.1	0.4	0.12	0.23	142	0.5	<0.02	6.0	1.88	<0.1	<0.02
R11-639	Soil	7.7	25.1	0.45	176.1	0.059	2	1.79	0.007	0.05	0.2	1.5	0.10	0.11	67	0.4	<0.02	7.4	2.71	<0.1	0.05
R11-640	Soil	9.2	23.6	0.30	112.5	0.033	1	1.83	0.010	0.05	0.1	0.9	0.11	0.14	109	0.6	<0.02	7.3	2.79	<0.1	0.06

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
R11-611	Soil			10.66	7.2	2.3	<0.05	10.0	7.10	27.0	0.04	<1	1.0	8.0	<10	<2
R11-612	Soil			3.65	5.7	1.1	<0.05	4.8	5.87	24.4	0.03	<1	0.8	12.0	<10	<2
R11-613	Soil			10.95	5.9	2.1	0.06	15.9	7.44	30.3	0.05	<1	1.1	9.3	<10	<2
R11-614	Soil			4.75	7.2	0.9	<0.05	6.6	5.59	24.1	0.03	<1	0.6	9.4	<10	<2
R11-615	Soil			10.49	7.0	2.4	0.08	13.3	7.62	32.5	0.05	<1	1.2	9.6	<10	<2
R11-616	Soil			2.00	5.6	0.6	<0.05	4.4	6.44	26.3	<0.02	<1	0.7	10.4	<10	<2
R11-617	Soil			2.64	5.1	0.8	<0.05	3.6	5.66	21.1	0.02	<1	0.7	13.7	<10	<2
R11-618	Soil			6.45	9.6	1.7	<0.05	5.0	6.86	23.7	0.03	<1	0.8	7.6	<10	<2
R11-619	Soil			2.82	5.9	0.9	<0.05	3.6	5.73	21.5	0.03	<1	0.8	11.3	<10	<2
R11-620	Soil			3.48	8.9	1.2	<0.05	8.2	11.84	34.1	0.03	<1	1.3	14.4	<10	<2
R11-621	Soil			12.06	5.9	2.3	0.07	17.8	8.49	34.7	0.05	<1	1.3	9.9	<10	<2
R11-622	Soil			5.78	14.9	1.1	<0.05	21.9	13.00	31.6	0.03	<1	1.4	20.9	<10	<2
R11-623	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-624	Soil			1.39	6.2	0.5	<0.05	14.2	8.55	32.6	0.03	<1	0.8	13.2	<10	<2
R11-625	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-626	Soil			9.43	6.3	1.6	0.10	17.2	14.41	45.0	0.08	<1	1.8	9.1	<10	<2
R11-627	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-628	Soil			7.19	6.8	1.6	<0.05	6.2	5.70	20.4	0.02	<1	0.9	4.2	<10	<2
R11-629	Soil			13.29	7.4	2.8	0.10	21.3	12.37	44.9	0.05	<1	1.7	10.1	<10	<2
R11-630	Soil			7.35	12.6	2.2	0.19	10.9	3.44	11.1	0.03	<1	0.5	2.3	<10	<2
R11-631	Soil			9.90	9.2	2.7	0.07	21.0	10.52	42.5	0.08	<1	1.0	11.3	<10	<2
R11-632	Soil			3.37	10.2	1.0	<0.05	4.3	6.98	38.1	0.03	<1	0.8	13.1	<10	<2
R11-633	Soil			6.62	10.4	2.3	0.10	17.7	15.09	50.3	0.06	<1	1.6	14.7	<10	<2
R11-634	Soil			3.24	6.1	1.3	<0.05	1.0	3.06	12.1	0.02	<1	0.5	1.9	<10	<2
R11-635	Soil			2.58	10.2	0.7	<0.05	2.3	6.60	25.0	0.04	<1	1.0	15.1	<10	<2
R11-636	Soil			4.55	11.3	1.4	<0.05	4.1	5.01	26.6	0.04	<1	0.8	7.9	<10	<2
R11-637	Soil			4.06	10.7	1.0	<0.05	5.3	5.72	25.4	0.05	<1	1.1	16.1	<10	<2
R11-638	Soil			3.50	5.5	1.7	<0.05	1.5	3.29	11.1	<0.02	<1	0.5	1.7	<10	<2
R11-639	Soil			5.25	11.0	1.3	<0.05	3.7	4.72	18.7	0.04	<1	1.0	11.9	<10	<2
R11-640	Soil			6.50	7.4	1.4	<0.05	3.7	5.69	21.3	0.04	<1	0.7	5.5	<10	<2

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.1	0.01	0.02	0.02	0.02	2	0.01	0.001
R11-641	Soil	1.20	18.83	9.58	78.4	40	37.7	13.4	1217	3.63	6.0	0.8	0.5	0.6	22.7	0.13	0.53	0.15	62	0.34	0.090
R11-642	Soil	1.10	11.78	8.73	51.0	245	8.4	2.7	319	1.85	2.1	1.1	0.7	<0.1	16.0	0.29	0.27	0.20	38	0.14	0.129
R11-643	Soil	1.33	17.48	6.85	80.9	60	44.3	13.9	916	3.64	4.0	0.7	<0.2	0.9	19.8	0.13	0.37	0.11	54	0.31	0.093
R11-644	Soil	1.39	15.42	9.75	87.1	73	30.2	10.1	897	4.16	4.9	0.9	<0.2	0.6	15.0	0.35	0.42	0.20	58	0.19	0.101
R11-645	Soil	1.03	30.40	8.57	80.6	52	50.7	12.9	694	3.62	7.4	0.6	1.0	1.3	20.7	0.13	0.54	0.10	63	0.28	0.079
R11-646	Soil	1.15	23.42	19.78	110.7	35	37.6	13.2	902	3.69	6.6	0.8	1.1	0.9	25.4	0.25	0.72	0.13	62	0.30	0.093
R11-647	Soil	1.06	22.60	10.83	90.8	82	42.6	10.3	648	3.39	6.5	0.8	1.9	0.8	24.3	0.15	0.59	0.15	54	0.47	0.120
R11-648	Soil	1.80	27.91	115.9	76.5	363	14.0	8.3	1351	2.84	4.2	1.0	1.7	<0.1	28.1	0.36	0.61	0.17	58	0.23	0.192
R11-649	Soil	1.18	22.57	8.40	77.2	51	44.5	13.0	648	3.62	5.8	0.9	<0.2	1.2	15.5	0.25	0.43	0.13	52	0.27	0.104
R11-650	Soil	1.04	38.17	39.27	110.2	73	31.8	12.0	847	3.58	6.2	0.8	2.0	0.5	23.2	0.36	0.69	0.16	65	0.28	0.109
R11-651	Soil	1.06	26.94	11.31	78.0	144	39.8	13.4	978	3.51	6.5	0.9	1.6	0.8	23.5	0.13	0.69	0.12	58	0.31	0.100
R11-652	Soil	1.64	14.44	7.74	57.2	318	10.0	4.7	623	1.52	2.2	0.7	0.7	<0.1	20.0	0.50	0.35	0.16	31	0.19	0.248
R11-653	Soil	0.98	23.29	9.41	87.5	54	44.7	12.0	653	3.18	7.2	0.6	2.1	0.4	20.6	0.21	0.61	0.10	59	0.25	0.114
R11-654	Soil	2.22	15.01	9.64	56.6	269	10.7	7.6	1374	2.54	2.9	0.7	3.9	<0.1	13.5	0.37	0.38	0.15	58	0.09	0.140
R11-655	Soil	0.87	54.28	16.72	101.8	48	31.2	11.1	647	3.39	7.6	0.7	0.9	1.0	23.3	0.17	0.73	0.18	66	0.30	0.092
R11-656	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-657	Soil	1.12	18.28	8.53	74.5	66	32.1	10.9	782	3.18	5.5	0.8	0.5	0.3	16.9	0.18	0.52	0.12	61	0.21	0.111
R11-658	Soil	1.54	17.65	10.66	59.5	107	15.7	8.6	877	2.66	5.8	0.9	1.0	<0.1	20.6	0.20	0.50	0.12	63	0.18	0.132
R11-659	Soil	0.97	11.02	9.57	89.2	49	13.4	9.4	851	3.34	4.2	1.0	0.4	0.2	25.6	0.30	0.60	0.09	67	0.26	0.111
R11-660	Soil	0.92	19.18	24.23	76.4	53	29.9	11.1	694	3.31	6.8	0.9	1.8	0.7	29.6	0.26	0.69	0.09	70	0.35	0.103
R11-661	Soil	1.03	62.10	16.78	92.8	616	51.7	13.9	876	3.98	8.8	0.8	1.8	1.5	23.3	0.25	0.59	0.12	74	0.60	0.086
R11-662	Soil	1.02	22.63	13.63	76.0	44	39.5	13.0	811	3.50	6.9	0.7	0.7	0.6	20.8	0.16	0.64	0.11	72	0.24	0.086
R11-663	Soil	1.61	16.66	12.39	92.2	90	27.4	11.4	1492	3.77	6.1	0.8	2.1	0.4	13.6	0.34	0.52	0.17	61	0.15	0.137
R11-664	Soil	0.93	22.72	23.30	83.8	91	34.0	11.6	796	3.41	7.3	0.7	2.0	0.6	21.4	0.47	0.66	0.15	67	0.28	0.114
R11-665	Soil	1.27	15.70	9.50	97.0	61	39.1	10.3	698	3.56	7.6	1.0	*	1.0	15.7	0.27	0.46	0.24	46	0.21	0.103
R11-666	Soil	1.08	44.24	22.41	99.6	147	61.0	14.1	672	3.89	8.9	0.7	3.3	1.4	21.0	0.30	0.75	0.15	70	0.26	0.102
R11-667	Soil	1.37	19.56	12.72	85.8	79	26.0	10.6	891	3.60	7.1	0.8	1.6	0.2	15.8	0.24	0.60	0.23	62	0.12	0.112
R11-668	Soil	1.14	33.33	22.00	102.9	81	48.1	13.5	706	3.79	7.8	0.7	7.1	1.6	20.9	0.34	0.66	0.16	64	0.24	0.115
R11-669	Soil	1.01	18.26	9.72	67.8	116	35.2	9.7	575	3.31	6.7	0.8	1.4	0.4	13.2	0.13	0.48	0.15	52	0.20	0.105
R11-670	Soil	1.18	32.44	14.13	121.2	164	48.8	15.1	964	4.02	7.8	1.2	5.9	2.5	27.9	0.24	0.61	0.17	64	0.35	0.128

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
R11-641	Soil	13.4	33.7	0.73	201.1	0.097	2	2.61	0.009	0.05	0.1	2.5	0.11	0.11	63	0.4	0.02	9.4	3.38	<0.1	0.10
R11-642	Soil	10.1	20.0	0.15	169.4	0.028	1	1.76	0.009	0.05	0.1	0.5	0.13	0.14	79	0.3	0.04	9.7	3.48	<0.1	0.03
R11-643	Soil	18.7	32.7	0.82	173.6	0.137	1	2.42	0.014	0.04	<0.1	2.9	0.08	0.10	60	0.4	0.02	9.4	2.52	<0.1	0.16
R11-644	Soil	13.1	29.0	0.64	159.4	0.120	<1	2.38	0.010	0.04	0.2	2.0	0.09	0.12	52	0.5	<0.02	12.0	1.62	<0.1	0.21
R11-645	Soil	15.9	44.2	0.94	208.1	0.099	2	2.22	0.010	0.06	<0.1	4.9	0.09	0.03	34	0.3	0.03	7.3	2.02	<0.1	0.09
R11-646	Soil	11.7	31.2	0.82	230.7	0.140	1	2.20	0.007	0.05	0.2	2.8	0.10	0.06	37	0.4	0.04	9.0	2.02	<0.1	0.09
R11-647	Soil	20.1	37.6	0.74	285.2	0.074	2	2.41	0.010	0.06	0.1	3.3	0.09	0.06	50	0.5	0.05	8.8	2.85	<0.1	0.08
R11-648	Soil	10.2	20.4	0.30	408.9	0.035	1	1.78	0.009	0.05	0.2	0.8	0.20	0.20	86	0.5	0.06	8.0	4.10	<0.1	<0.02
R11-649	Soil	17.0	32.3	0.80	212.7	0.126	1	3.09	0.011	0.04	0.2	2.8	0.09	0.08	47	0.4	<0.02	10.0	1.38	<0.1	0.23
R11-650	Soil	10.6	29.0	0.80	205.3	0.092	1	2.39	0.005	0.05	0.1	2.5	0.12	0.07	45	0.3	0.04	7.1	2.05	<0.1	0.06
R11-651	Soil	17.8	32.8	0.83	267.7	0.092	2	2.18	0.010	0.06	0.2	3.1	0.09	0.08	63	0.4	0.04	8.4	3.19	<0.1	0.09
R11-652	Soil	6.1	15.7	0.11	192.7	0.022	1	0.78	0.011	0.09	<0.1	0.7	0.07	0.25	157	0.6	<0.02	3.8	1.13	<0.1	<0.02
R11-653	Soil	9.2	40.2	0.85	156.3	0.073	2	1.97	0.005	0.05	0.1	2.6	0.11	0.06	30	0.3	0.05	6.4	1.32	<0.1	0.04
R11-654	Soil	3.8	20.8	0.10	165.1	0.054	<1	0.91	0.010	0.05	0.1	0.7	0.10	0.16	123	0.4	0.05	8.5	1.12	<0.1	0.08
R11-655	Soil	9.1	30.0	0.85	96.6	0.109	2	2.11	0.004	0.05	0.2	3.2	0.10	0.03	32	0.3	0.04	6.5	1.40	<0.1	0.06
R11-656	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-657	Soil	9.5	28.5	0.73	173.8	0.070	1	2.24	0.007	0.05	0.1	1.9	0.11	0.09	41	0.4	<0.02	6.8	1.16	<0.1	0.04
R11-658	Soil	10.3	20.5	0.34	162.3	0.051	1	1.68	0.008	0.05	0.1	1.1	0.09	0.18	116	0.3	0.04	6.1	1.77	<0.1	0.04
R11-659	Soil	9.9	15.7	0.73	172.8	0.071	<1	2.58	0.004	0.06	0.1	1.8	0.14	0.09	51	0.4	<0.02	7.0	1.88	<0.1	0.04
R11-660	Soil	10.6	26.3	0.83	179.6	0.122	2	2.07	0.005	0.05	0.2	3.1	0.10	0.06	54	0.4	0.03	6.2	1.59	<0.1	0.06
R11-661	Soil	15.6	39.5	1.09	373.1	0.093	2	2.93	0.013	0.09	0.1	6.2	0.11	0.06	81	0.4	0.04	8.5	3.97	<0.1	0.12
R11-662	Soil	10.5	34.8	0.94	201.6	0.091	2	2.28	0.004	0.05	0.1	3.3	0.09	0.05	48	0.3	0.06	6.7	1.34	<0.1	0.04
R11-663	Soil	11.0	30.1	0.63	171.2	0.068	1	2.03	0.008	0.05	0.2	1.9	0.11	0.12	37	0.5	0.03	9.8	1.93	<0.1	0.07
R11-664	Soil	11.3	30.2	0.89	232.2	0.077	2	2.14	0.007	0.05	0.1	2.6	0.09	0.04	46	0.2	0.03	6.7	1.18	<0.1	0.07
R11-665	Soil	16.6	26.3	0.78	187.8	0.107	2	2.61	0.028	0.06	0.2	2.0	0.10	0.08	50	0.3	<0.02	10.4	0.95	<0.1	0.29
R11-666	Soil	12.4	52.3	1.12	189.2	0.079	3	2.50	0.007	0.06	0.1	4.5	0.10	0.02	48	0.3	0.04	7.1	1.19	<0.1	0.05
R11-667	Soil	11.5	29.4	0.56	151.4	0.051	2	2.28	0.008	0.06	0.1	1.2	0.11	0.10	38	0.3	0.03	8.1	1.39	<0.1	0.05
R11-668	Soil	14.1	42.6	1.00	189.1	0.114	2	2.48	0.008	0.05	0.1	3.7	0.09	0.03	44	0.3	0.03	7.7	1.32	<0.1	0.10
R11-669	Soil	16.1	28.7	0.74	170.3	0.055	2	2.21	0.011	0.05	0.1	1.8	0.10	0.09	50	0.2	0.02	8.0	1.34	<0.1	0.09
R11-670	Soil	20.7	38.4	1.10	260.6	0.146	2	2.63	0.016	0.08	0.2	4.4	0.10	0.02	44	0.3	0.02	9.2	1.81	<0.1	0.14

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
R11-641	Soil	7.35	7.9	1.6	<0.05	8.5	9.32	37.5	0.04	<1	1.4	14.4	<10	<2
R11-642	Soil	6.27	9.2	2.4	<0.05	3.2	5.80	19.5	0.04	<1	1.0	6.3	<10	<2
R11-643	Soil	7.45	6.1	1.7	<0.05	10.6	10.54	44.4	0.04	<1	1.4	10.0	<10	<2
R11-644	Soil	13.94	5.5	2.4	0.07	15.4	8.35	31.3	0.06	<1	1.2	9.7	<10	<2
R11-645	Soil	2.63	7.6	1.0	<0.05	6.3	11.67	34.0	0.05	<1	1.1	15.5	<10	<2
R11-646	Soil	6.56	8.4	1.6	<0.05	8.9	7.52	32.6	0.04	<1	1.0	16.0	<10	<2
R11-647	Soil	4.98	8.7	1.5	<0.05	6.9	13.40	39.0	0.05	2	1.4	14.8	<10	<2
R11-648	Soil	3.62	8.7	1.3	<0.05	1.6	7.18	21.1	0.04	<1	1.0	7.8	<10	2
R11-649	Soil	12.03	6.5	1.8	0.07	19.3	11.15	43.8	0.05	<1	1.7	11.7	<10	<2
R11-650	Soil	4.31	8.0	0.9	<0.05	4.3	7.15	27.0	0.04	<1	1.0	18.1	<10	<2
R11-651	Soil	6.08	9.4	1.5	<0.05	7.5	14.36	42.6	0.04	<1	1.5	13.3	<10	<2
R11-652	Soil	2.68	10.4	1.0	<0.05	1.0	3.74	11.1	0.04	<1	0.4	1.6	<10	<2
R11-653	Soil	2.55	7.4	0.8	<0.05	2.8	6.21	21.4	0.03	<1	0.6	15.4	<10	<2
R11-654	Soil	8.25	6.7	2.7	<0.05	3.4	2.26	7.9	0.03	<1	0.4	1.8	<10	<2
R11-655	Soil	2.54	7.6	0.7	<0.05	3.9	6.24	22.2	0.03	<1	0.7	17.9	<10	<2
R11-656	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-657	Soil	4.77	7.9	1.1	<0.05	3.8	6.35	22.0	0.04	<1	0.9	13.7	<10	<2
R11-658	Soil	4.78	9.2	1.0	<0.05	3.0	6.77	23.4	0.03	2	0.7	8.1	<10	<2
R11-659	Soil	4.28	10.9	1.1	<0.05	3.0	6.52	22.8	0.02	<1	0.9	15.8	<10	<2
R11-660	Soil	3.33	6.8	0.8	<0.05	4.2	7.32	24.7	0.03	<1	0.8	17.1	<10	<2
R11-661	Soil	5.70	12.2	1.3	<0.05	9.8	18.44	38.5	0.05	<1	1.5	23.9	<10	<2
R11-662	Soil	2.74	7.7	0.8	<0.05	3.5	7.07	26.5	0.03	<1	0.8	19.4	<10	<2
R11-663	Soil	6.25	8.8	1.9	<0.05	5.2	5.90	28.7	0.04	<1	1.0	15.0	<10	<2
R11-664	Soil	2.96	5.8	0.9	<0.05	3.9	7.75	30.9	0.05	<1	0.9	17.6	<10	<2
R11-665	Soil	15.37	7.0	2.7	0.13	20.2	9.27	44.4	0.06	<1	1.6	15.5	<10	<2
R11-666	Soil	1.79	6.6	0.9	<0.05	4.5	10.65	28.9	0.04	1	1.1	21.6	<10	<2
R11-667	Soil	5.57	8.4	1.5	<0.05	3.8	6.11	27.9	0.04	<1	1.1	12.2	<10	<2
R11-668	Soil	3.22	7.8	1.2	<0.05	7.9	9.09	34.1	0.05	<1	1.0	17.9	12	<2
R11-669	Soil	6.69	6.0	1.6	<0.05	6.8	8.74	39.5	0.05	<1	1.2	12.7	<10	<2
R11-670	Soil	3.52	9.2	1.7	0.06	11.6	15.89	45.9	0.05	<1	1.4	18.4	<10	<2

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
R11-671	Soil	1.35	12.69	13.19	81.0	91	25.7	6.9	469	3.22	5.0	1.0	1.0	0.5	11.3	0.30	0.48	0.24	47	0.14	0.098
R11-672	Soil	1.23	27.57	14.51	107.3	98	39.2	13.2	982	3.82	6.6	1.0	4.1	2.0	16.8	0.21	0.59	0.18	56	0.25	0.154
R11-673	Soil	1.26	22.90	11.33	101.1	101	46.1	11.4	587	3.57	6.0	1.1	4.5	1.5	16.0	0.27	0.44	0.18	54	0.23	0.134
R11-674	Soil	1.22	20.19	13.74	101.5	93	29.9	11.6	1205	3.51	5.6	0.9	1.8	0.9	15.6	0.26	0.58	0.14	55	0.18	0.118
R11-675	Soil	1.92	20.94	11.88	70.4	374	29.3	10.2	978	3.60	10.4	1.8	3.1	0.5	14.2	0.12	0.53	0.27	49	0.19	0.144
R11-676	Soil	1.21	43.02	29.43	132.3	129	54.9	15.9	1230	4.10	6.9	0.9	2.1	1.7	16.1	0.43	0.59	0.18	69	0.24	0.130
R11-677	Soil	0.98	17.30	12.82	64.9	47	28.6	8.8	574	3.06	9.0	0.7	2.0	<0.1	13.1	0.18	0.63	0.16	60	0.09	0.071
R11-678	Soil	0.93	27.35	16.57	115.0	124	51.6	14.0	832	3.83	6.0	0.8	2.9	1.4	22.8	0.27	0.57	0.11	62	0.31	0.115
R11-679	Soil	0.90	41.31	13.14	80.2	77	53.8	13.5	1050	3.40	7.4	0.7	1.7	1.2	19.8	0.19	0.63	0.16	53	0.24	0.095
R11-680	Soil	0.90	28.08	13.55	98.6	114	43.6	11.8	756	3.29	6.4	0.8	3.1	1.8	26.5	0.29	0.61	0.11	57	0.40	0.117
R11-681	Soil	1.16	20.30	24.48	76.9	95	33.5	11.9	1218	3.33	4.8	0.9	2.2	0.3	14.8	0.31	0.44	0.18	52	0.19	0.134
R11-682	Soil	0.79	28.32	11.13	95.7	87	43.2	12.0	802	3.14	5.7	0.7	2.6	1.9	24.5	0.25	0.55	0.10	51	0.34	0.109
R11-683	Soil	0.62	13.50	15.18	96.1	103	12.1	7.8	879	2.93	10.1	0.8	1.3	0.3	29.2	0.19	0.66	0.14	47	0.37	0.111
R11-684	Soil	0.62	24.46	8.80	62.3	119	23.7	6.0	363	1.87	3.6	0.5	1.6	0.9	13.6	0.16	0.31	0.06	32	0.20	0.059
R11-685	Soil	1.15	19.27	8.39	70.9	106	44.5	15.4	1286	3.62	3.9	0.9	1.1	0.6	13.7	0.18	0.37	0.16	57	0.27	0.118
R11-686	Soil	1.18	38.73	11.30	105.6	79	76.9	19.8	910	3.97	5.9	0.9	1.8	1.9	18.4	0.26	0.51	0.10	63	0.27	0.144
R11-687	Soil	1.14	23.86	6.98	78.5	53	56.3	14.7	761	3.94	5.0	0.9	1.1	1.6	16.1	0.13	0.39	0.11	54	0.31	0.097
R11-688	Soil	0.88	22.90	14.20	82.7	120	33.8	9.2	556	3.03	5.4	0.8	2.6	0.5	20.2	0.15	0.54	0.10	60	0.31	0.086
R11-689	Soil	0.77	19.49	33.44	132.3	96	37.9	12.0	718	3.66	4.9	0.9	1.1	1.2	26.0	0.45	0.48	0.14	57	0.38	0.124
R11-690	Soil	1.22	22.51	6.81	72.4	64	34.1	11.9	589	3.94	3.7	1.2	*	1.2	9.9	0.20	0.31	0.12	57	0.24	0.109
R11-691	Soil	1.26	32.35	31.41	210.8	114	59.9	17.2	886	4.29	5.8	0.8	1.4	2.3	21.4	1.09	0.44	0.17	71	0.25	0.141
R11-692	Soil	1.54	13.52	8.81	70.4	87	29.4	9.7	600	3.78	4.4	1.3	<0.2	1.1	11.2	0.33	0.30	0.19	46	0.19	0.091
R11-693	Soil	1.26	35.67	26.19	141.5	67	58.9	17.5	1081	4.25	7.9	0.6	2.5	1.5	14.2	0.56	0.52	0.16	73	0.21	0.127
R11-694	Soil	1.34	15.91	42.36	155.6	41	31.4	10.0	790	3.94	5.3	1.0	*	0.8	13.0	0.85	0.45	0.18	57	0.21	0.112
R11-695	Soil	1.18	30.57	17.58	195.2	152	46.9	16.0	1064	4.21	6.4	1.2	1.8	1.3	9.3	0.39	0.47	0.13	73	0.13	0.101
R11-696	Soil	1.41	20.36	15.64	105.0	40	55.8	16.7	798	4.24	4.3	1.2	0.8	2.8	9.1	0.47	0.27	0.12	53	0.24	0.105
R11-697	Soil	1.45	16.72	9.56	108.2	7	38.2	12.0	805	3.92	3.9	0.9	*	0.9	13.2	0.42	0.35	0.16	59	0.23	0.089
R11-698	Soil	1.30	25.32	23.58	133.5	137	38.4	13.4	921	4.02	6.5	2.0	0.8	1.2	17.8	0.30	0.47	0.16	64	0.31	0.113
R11-699	Soil	1.30	34.61	25.14	131.7	298	32.2	10.9	571	3.65	6.3	1.4	1.3	1.0	17.2	0.23	0.56	0.14	59	0.27	0.112
R11-700	Soil	2.72	16.01	20.41	90.3	134	22.8	9.9	1206	4.01	4.6	1.0	1.9	0.2	12.0	0.83	0.37	0.24	64	0.14	0.145

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	
R11-671	Soil	17.0	26.1	0.49	134.7	0.059	1	2.20	0.015	0.06	0.1	1.5	0.12	0.09	48	0.3	0.03	9.9	2.05	<0.1	0.14
R11-672	Soil	18.7	31.7	0.94	129.1	0.143	2	2.53	0.015	0.07	0.1	3.5	0.09	0.04	39	0.4	0.03	8.2	1.99	<0.1	0.13
R11-673	Soil	23.9	36.1	0.82	155.8	0.124	2	2.44	0.018	0.07	0.1	3.2	0.12	0.05	42	0.3	0.03	9.5	1.92	<0.1	0.17
R11-674	Soil	14.2	27.0	0.76	120.3	0.098	2	2.13	0.011	0.06	0.1	2.3	0.08	0.07	43	0.4	0.04	7.9	1.68	<0.1	0.10
R11-675	Soil	29.3	26.5	0.64	168.1	0.058	1	2.54	0.017	0.06	0.2	1.9	0.13	0.13	87	0.4	0.04	11.1	2.39	<0.1	0.12
R11-676	Soil	14.3	39.8	1.14	156.0	0.142	2	2.48	0.011	0.08	0.1	3.8	0.10	0.05	58	0.3	0.04	8.6	2.13	<0.1	0.12
R11-677	Soil	9.5	30.8	0.62	120.5	0.030	1	2.18	0.004	0.05	<0.1	1.0	0.11	0.07	56	0.3	0.04	6.2	1.28	<0.1	<0.02
R11-678	Soil	13.6	36.9	1.16	229.3	0.116	2	2.16	0.009	0.07	0.1	3.7	0.08	0.03	38	0.1	0.03	7.3	2.09	<0.1	0.07
R11-679	Soil	13.8	34.4	0.95	214.1	0.086	2	2.40	0.009	0.06	<0.1	2.9	0.09	0.05	49	0.2	0.02	6.7	3.35	<0.1	0.12
R11-680	Soil	15.3	36.7	0.99	238.2	0.098	1	1.91	0.009	0.07	0.1	4.0	0.07	<0.02	46	0.1	<0.02	6.1	1.62	<0.1	0.08
R11-681	Soil	17.0	28.0	0.67	169.1	0.057	1	2.21	0.009	0.04	<0.1	1.7	0.12	0.13	38	0.3	<0.02	8.1	1.91	<0.1	0.11
R11-682	Soil	14.6	33.7	1.02	332.6	0.077	1	1.68	0.009	0.06	0.1	3.8	0.06	<0.02	28	0.2	0.03	5.3	1.37	<0.1	0.11
R11-683	Soil	16.3	16.1	0.54	273.0	0.039	1	1.94	0.006	0.06	0.1	1.4	0.12	0.08	39	0.3	0.03	5.7	2.54	<0.1	0.03
R11-684	Soil	8.7	20.4	0.54	148.1	0.055	<1	1.22	0.005	0.05	<0.1	2.5	0.05	<0.02	43	0.2	0.04	3.6	1.78	<0.1	0.06
R11-685	Soil	12.1	31.1	0.88	131.0	0.125	1	2.28	0.014	0.03	<0.1	2.0	0.08	0.15	51	0.3	<0.02	9.4	1.26	<0.1	0.25
R11-686	Soil	13.6	44.6	1.50	124.2	0.179	2	2.56	0.014	0.06	0.1	4.3	0.09	0.04	49	0.4	0.03	6.9	1.30	<0.1	0.15
R11-687	Soil	20.7	31.0	1.04	149.1	0.190	1	2.54	0.018	0.04	0.1	2.8	0.07	0.09	40	0.3	0.02	9.2	1.53	<0.1	0.23
R11-688	Soil	11.0	35.8	0.77	246.8	0.066	2	2.03	0.008	0.06	<0.1	2.9	0.09	0.06	38	0.2	0.03	6.5	2.19	<0.1	0.05
R11-689	Soil	16.0	30.8	0.84	227.0	0.141	2	2.35	0.011	0.05	0.1	3.2	0.10	0.07	54	0.3	0.03	7.8	1.84	<0.1	0.16
R11-690	Soil	27.2	29.0	0.72	123.3	0.174	<1	3.80	0.017	0.05	0.1	2.6	0.09	0.12	45	0.4	<0.02	12.2	1.89	<0.1	0.46
R11-691	Soil	16.4	47.2	1.11	142.9	0.241	2	2.67	0.023	0.07	0.1	4.7	0.11	0.03	43	0.5	0.05	9.1	1.96	<0.1	0.17
R11-692	Soil	18.8	26.2	0.54	120.4	0.143	<1	3.40	0.019	0.04	0.2	2.0	0.09	0.11	58	0.5	<0.02	13.2	1.12	<0.1	0.64
R11-693	Soil	12.0	46.5	1.13	90.7	0.156	2	2.54	0.011	0.07	<0.1	4.3	0.10	0.04	36	0.5	0.05	8.4	1.51	<0.1	0.11
R11-694	Soil	15.7	30.2	0.64	115.5	0.158	<1	3.17	0.015	0.05	0.1	2.3	0.08	0.11	76	0.4	0.04	11.3	1.28	<0.1	0.27
R11-695	Soil	17.0	39.3	0.84	160.0	0.137	1	3.24	0.007	0.09	<0.1	3.9	0.12	0.07	67	0.5	<0.02	11.1	7.05	<0.1	0.16
R11-696	Soil	20.8	32.3	1.01	121.7	0.257	<1	4.14	0.022	0.05	0.1	2.7	0.06	0.07	41	0.5	<0.02	11.7	1.24	<0.1	0.63
R11-697	Soil	14.9	32.2	0.72	123.0	0.158	1	2.83	0.017	0.04	0.1	2.2	0.08	0.10	44	0.3	0.04	11.7	1.11	<0.1	0.30
R11-698	Soil	21.6	31.9	0.89	292.9	0.088	2	3.15	0.012	0.10	0.1	3.2	0.16	0.07	38	0.3	<0.02	11.4	4.88	<0.1	0.12
R11-699	Soil	24.7	30.0	0.65	304.8	0.084	1	2.99	0.012	0.09	0.1	3.6	0.16	0.08	67	0.5	0.02	10.3	6.73	<0.1	0.12
R11-700	Soil	13.9	31.3	0.37	163.5	0.072	<1	2.18	0.020	0.05	0.1	1.3	0.10	0.16	55	0.4	0.06	11.4	1.68	<0.1	0.10

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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CERTIFICATE OF ANALYSIS

SMI11000457.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
R11-671	Soil			10.49	8.3	2.7	0.06	10.6	8.81	40.0	0.06	<1	1.3	11.2	<10	<2
R11-672	Soil			4.87	8.1	1.6	0.08	11.5	11.83	47.2	0.04	<1	1.2	15.3	<10	<2
R11-673	Soil			6.44	9.0	2.0	0.08	13.7	14.29	48.8	0.06	<1	1.6	14.4	14	<2
R11-674	Soil			4.72	8.9	1.3	<0.05	7.6	7.84	35.5	0.04	<1	0.9	13.1	<10	<2
R11-675	Soil			10.21	7.8	2.7	0.05	10.7	28.32	60.2	0.05	<1	2.5	12.0	<10	<2
R11-676	Soil			3.62	8.4	1.3	<0.05	8.9	10.38	34.8	0.04	<1	1.0	17.5	<10	<2
R11-677	Soil			1.97	7.3	0.7	<0.05	1.1	5.15	23.8	0.03	<1	0.8	13.7	<10	<2
R11-678	Soil			2.25	8.4	1.0	<0.05	5.2	10.40	29.2	0.03	<1	0.9	18.5	<10	<2
R11-679	Soil			3.78	6.5	1.0	<0.05	7.7	8.76	41.9	0.04	<1	1.2	16.9	<10	<2
R11-680	Soil			1.52	6.8	0.8	<0.05	5.7	12.16	32.9	0.04	2	0.9	17.6	<10	<2
R11-681	Soil			7.17	6.9	1.5	<0.05	8.3	10.61	37.4	0.05	<1	1.4	11.4	<10	<2
R11-682	Soil			0.80	5.1	0.6	<0.05	8.0	11.91	31.4	0.03	<1	0.9	18.0	<10	<2
R11-683	Soil			2.28	11.7	0.8	<0.05	1.7	10.88	33.4	0.02	<1	1.5	12.5	<10	<2
R11-684	Soil			1.24	5.9	0.4	<0.05	3.7	7.66	19.3	0.02	<1	0.7	10.4	<10	<2
R11-685	Soil			8.25	4.2	1.6	0.07	16.6	8.41	29.4	0.04	<1	1.4	8.1	<10	<2
R11-686	Soil			3.56	6.4	0.8	0.05	11.6	9.08	32.6	0.03	<1	1.0	16.6	<10	<2
R11-687	Soil			7.76	5.2	1.7	0.10	17.2	12.51	51.6	0.06	<1	2.0	9.0	<10	<2
R11-688	Soil			2.38	7.9	0.8	<0.05	3.1	8.01	20.7	0.03	<1	0.8	15.6	<10	<2
R11-689	Soil			4.78	7.9	1.2	<0.05	10.9	11.17	37.6	0.03	1	1.4	13.0	<10	<2
R11-690	Soil			16.03	7.3	2.3	0.10	35.4	18.07	53.1	0.06	<1	2.0	8.5	<10	<2
R11-691	Soil			3.62	8.9	1.5	0.09	14.3	11.40	35.8	0.04	<1	1.2	15.3	<10	<2
R11-692	Soil			21.05	4.5	2.8	0.19	45.7	10.42	45.7	0.07	<1	1.9	7.5	<10	<2
R11-693	Soil			3.04	7.7	1.1	<0.05	8.4	8.57	29.7	0.05	<1	0.9	14.9	<10	<2
R11-694	Soil			13.26	5.0	2.2	0.20	21.4	8.80	39.0	0.04	<1	1.3	10.1	11	<2
R11-695	Soil			6.63	15.9	1.8	<0.05	13.5	14.33	34.3	0.07	<1	1.6	18.2	<10	<2
R11-696	Soil			14.11	5.2	2.2	<0.05	50.6	11.87	50.8	0.06	<1	1.8	7.9	<10	<2
R11-697	Soil			12.20	5.5	2.3	0.15	24.5	8.41	36.3	0.06	<1	1.2	9.6	<10	<2
R11-698	Soil			7.01	15.9	2.2	<0.05	10.6	16.86	44.2	0.05	<1	1.9	18.9	<10	<2
R11-699	Soil			6.87	16.4	1.9	<0.05	10.7	20.18	45.4	0.05	<1	2.0	16.6	<10	<2
R11-700	Soil			10.49	7.7	2.9	<0.05	8.0	7.14	31.1	0.03	<1	1.0	6.8	<10	<2

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Acme Analytical Laboratories (Vancouver) Ltd.

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
880 - 609 Granville St.
Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
Report Date: November 12, 2011

Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

SMI11000457.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
R11-418	Soil	0.88	50.69	12.80	97.9	82	29.8	14.7	1061	3.24	8.5	0.7	5.7	2.0	41.0	0.19	1.11	0.11	59	0.52	0.141
REP R11-418	QC	0.88	53.27	13.37	99.7	89	32.0	15.6	1098	3.32	9.0	0.8	5.8	2.1	42.8	0.16	1.20	0.13	62	0.55	0.148
R11-423	Soil	1.42	54.98	130.4	189.3	250	40.5	16.0	1563	3.88	13.5	0.7	1.3	1.4	30.0	0.71	1.38	0.16	65	0.31	0.119
REP R11-423	QC	1.43	53.18	132.8	185.9	250	40.3	15.2	1546	3.86	13.4	0.7	2.7	1.3	29.6	0.70	1.39	0.16	65	0.31	0.119
R11-439	Soil	2.11	16.04	37.53	90.8	91	17.6	6.2	586	3.10	5.3	1.1	0.8	0.3	12.8	0.55	0.54	0.25	46	0.13	0.121
REP R11-439	QC	2.11	16.32	38.49	96.5	83	17.9	6.4	594	3.16	6.0	1.1	1.5	0.2	13.7	0.57	0.56	0.27	48	0.14	0.131
R11-460	Soil	0.94	97.26	61.79	231.1	267	33.8	13.0	1252	3.44	8.3	0.8	2.5	2.3	34.4	0.99	0.95	0.15	57	0.41	0.127
REP R11-460	QC	1.02	99.43	61.51	230.9	276	35.4	12.9	1263	3.47	8.6	0.9	1.6	2.4	36.3	0.98	1.00	0.16	59	0.45	0.126
R11-481	Soil	1.61	20.22	13.66	95.3	47	33.7	11.7	923	3.94	5.6	1.0	<0.2	1.1	13.0	0.30	0.48	0.22	60	0.18	0.100
REP R11-481	QC	1.75	22.12	14.56	103.0	60	36.4	12.3	997	4.24	5.5	1.1	0.7	1.3	13.7	0.29	0.47	0.23	66	0.20	0.107
R11-482	Soil	1.40	28.14	35.31	199.1	48	37.6	12.7	963	3.87	5.3	0.9	1.4	0.6	18.0	0.74	0.52	0.17	69	0.25	0.105
REP R11-482	QC	1.38	27.57	34.00	193.1	43	36.2	12.6	940	3.73	5.3	0.9	2.3	0.6	19.3	0.70	0.52	0.16	70	0.28	0.107
R11-518	Soil	2.07	31.72	418.9	437.8	465	36.6	15.8	1716	4.20	11.1	1.0	1.1	1.7	38.9	2.67	1.58	0.12	63	0.45	0.147
REP R11-518	QC	1.91	28.66	378.3	393.6	436	32.4	14.1	1528	3.71	10.1	0.9	1.2	1.4	35.0	2.50	1.45	0.10	55	0.40	0.132
R11-532	Soil	1.87	29.72	27.71	110.1	150	37.7	14.6	1152	4.24	8.9	1.1	2.7	1.9	23.0	0.36	0.82	0.14	65	0.30	0.138
REP R11-532	QC	1.89	30.26	28.57	112.2	134	37.0	15.1	1165	4.28	9.1	1.1	2.7	1.9	24.3	0.37	0.82	0.15	66	0.32	0.137
R11-546	Soil	1.65	45.12	117.7	316.9	625	36.5	13.4	990	3.88	9.5	0.9	5.3	0.9	22.5	0.83	1.01	0.18	61	0.33	0.112
REP R11-546	QC	1.58	44.24	116.6	318.0	642	36.7	13.6	1021	3.80	9.7	0.9	5.5	0.9	21.6	0.79	0.95	0.14	60	0.31	0.105
R11-581	Soil	1.01	169.7	16.84	110.8	397	61.0	17.4	853	4.53	10.0	1.8	5.2	3.4	23.3	0.48	0.49	0.12	74	0.46	0.085
REP R11-581	QC	1.03	167.3	16.14	108.4	388	57.7	17.0	845	4.38	9.9	1.8	5.8	3.4	22.1	0.47	0.45	0.12	73	0.46	0.084
R11-600	Soil	1.36	27.43	30.11	89.1	85	32.1	10.7	785	3.15	4.6	0.9	2.1	1.1	12.1	0.47	0.48	0.16	50	0.19	0.114
REP R11-600	QC	1.45	29.27	31.47	95.6	84	33.9	11.3	830	3.36	4.7	0.9	2.0	1.2	13.6	0.45	0.51	0.16	53	0.20	0.121
R11-624	Soil	1.23	31.52	46.13	101.3	234	39.8	15.2	894	3.89	9.8	0.8	1.8	2.6	27.8	0.55	0.85	0.17	60	0.40	0.135
REP R11-624	QC	1.37	35.60	53.45	116.6	276	45.0	17.5	1055	4.52	11.2	0.9	2.1	3.0	32.4	0.62	1.00	0.21	70	0.46	0.154
R11-644	Soil	1.39	15.42	9.75	87.1	73	30.2	10.1	897	4.16	4.9	0.9	<0.2	0.6	15.0	0.35	0.42	0.20	58	0.19	0.101
REP R11-644	QC	1.48	15.68	9.68	85.3	62	29.1	10.2	898	4.08	5.1	0.9	0.6	0.6	14.7	0.34	0.42	0.21	58	0.19	0.102
R11-650	Soil	1.04	38.17	39.27	110.2	73	31.8	12.0	847	3.58	6.2	0.8	2.0	0.5	23.2	0.36	0.69	0.16	65	0.28	0.109
REP R11-650	QC	1.08	37.23	38.24	109.1	83	31.4	11.4	814	3.46	5.9	0.8	0.7	0.4	22.1	0.36	0.63	0.17	61	0.26	0.109

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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QUALITY CONTROL REPORT

SMI11000457.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
R11-418	Soil	12.6	24.9	1.09	146.1	0.120	2	2.11	0.005	0.05	0.3	3.4	0.09	<0.02	34	0.2	0.09	5.7	1.63	<0.1	0.07
REP R11-418	QC	13.1	25.7	1.12	149.7	0.132	2	2.18	0.005	0.05	0.3	3.5	0.09	<0.02	27	0.2	0.11	6.0	1.78	<0.1	0.06
R11-423	Soil	10.9	36.1	1.00	209.4	0.124	2	2.13	0.011	0.07	0.2	3.5	0.08	0.06	122	0.3	0.20	7.1	2.58	<0.1	0.08
REP R11-423	QC	10.7	36.6	0.99	210.1	0.125	3	2.14	0.011	0.07	0.2	3.4	0.08	0.07	118	0.3	0.16	7.1	2.61	<0.1	0.08
R11-439	Soil	14.0	18.7	0.36	122.0	0.049	2	2.01	0.018	0.04	0.2	1.1	0.11	0.12	74	0.3	0.02	10.1	2.01	<0.1	0.13
REP R11-439	QC	14.5	18.8	0.36	124.8	0.058	1	2.04	0.019	0.05	0.2	1.1	0.12	0.12	80	0.3	0.05	10.5	2.29	<0.1	0.11
R11-460	Soil	14.9	29.9	1.01	168.6	0.119	2	1.92	0.010	0.06	0.2	3.9	0.07	<0.02	123	0.1	0.07	6.3	2.05	<0.1	0.10
REP R11-460	QC	15.2	29.6	1.02	169.6	0.127	2	1.95	0.011	0.06	0.2	4.0	0.07	<0.02	124	0.1	0.07	6.4	2.15	<0.1	0.11
R11-481	Soil	17.8	32.5	0.60	136.7	0.146	2	2.95	0.019	0.05	0.1	3.1	0.11	0.08	61	0.3	0.06	11.6	1.68	<0.1	0.24
REP R11-481	QC	18.8	35.8	0.65	146.9	0.153	2	3.10	0.021	0.05	0.1	3.5	0.12	0.08	71	0.4	0.07	12.4	1.77	<0.1	0.32
R11-482	Soil	14.2	33.6	0.71	175.9	0.119	2	2.64	0.014	0.05	<0.1	2.9	0.10	0.09	72	0.3	0.05	8.7	1.42	<0.1	0.14
REP R11-482	QC	13.8	33.9	0.69	166.9	0.131	2	2.66	0.015	0.06	<0.1	2.9	0.11	0.09	61	0.4	0.06	8.9	1.45	<0.1	0.12
R11-518	Soil	15.1	28.6	1.08	199.0	0.171	3	2.60	0.026	0.09	0.1	3.4	0.09	0.12	240	0.4	0.11	7.5	2.20	<0.1	0.15
REP R11-518	QC	13.5	25.2	0.94	175.9	0.147	3	2.31	0.022	0.08	0.1	2.9	0.08	0.11	210	0.4	0.09	6.5	1.94	<0.1	0.13
R11-532	Soil	17.7	33.5	0.92	123.2	0.159	2	2.91	0.023	0.08	0.2	3.5	0.14	0.08	52	0.4	0.03	10.2	3.06	<0.1	0.19
REP R11-532	QC	18.5	35.1	0.93	132.6	0.164	2	2.97	0.023	0.09	0.1	3.7	0.14	0.08	68	0.4	0.04	10.4	3.31	<0.1	0.18
R11-546	Soil	15.7	32.8	1.08	255.0	0.065	3	2.91	0.009	0.09	0.1	3.6	0.16	0.07	260	0.3	0.06	8.2	6.35	<0.1	0.07
REP R11-546	QC	15.3	31.1	1.06	248.2	0.058	2	2.89	0.008	0.09	0.1	3.4	0.15	0.08	262	0.4	0.09	8.5	5.78	<0.1	0.07
R11-581	Soil	24.0	41.3	1.36	379.3	0.270	2	2.40	0.026	0.10	0.1	5.3	0.07	0.03	44	0.1	0.02	7.9	7.09	<0.1	0.31
REP R11-581	QC	23.6	40.9	1.36	379.0	0.265	2	2.34	0.025	0.10	0.1	5.4	0.07	0.03	43	0.2	<0.02	8.0	6.76	<0.1	0.33
R11-600	Soil	13.3	25.2	0.66	97.6	0.112	2	2.31	0.012	0.06	0.1	2.4	0.10	0.06	48	0.3	0.02	8.0	2.26	<0.1	0.14
REP R11-600	QC	13.9	27.6	0.71	102.4	0.124	2	2.44	0.013	0.06	0.1	2.6	0.11	0.07	45	0.3	0.03	8.7	2.42	<0.1	0.14
R11-624	Soil	13.9	26.6	0.93	254.1	0.179	2	1.80	0.013	0.11	0.2	3.6	0.07	0.10	142	0.3	0.11	4.9	2.23	<0.1	0.19
REP R11-624	QC	16.0	30.5	1.09	292.8	0.205	3	2.02	0.015	0.13	0.2	4.3	0.09	0.12	160	0.3	0.20	5.7	2.66	<0.1	0.21
R11-644	Soil	13.1	29.0	0.64	159.4	0.120	<1	2.38	0.010	0.04	0.2	2.0	0.09	0.12	52	0.5	<0.02	12.0	1.62	<0.1	0.21
REP R11-644	QC	13.3	29.0	0.64	166.6	0.119	1	2.42	0.011	0.04	0.2	2.1	0.08	0.12	53	0.5	0.04	12.3	1.65	<0.1	0.19
R11-650	Soil	10.6	29.0	0.80	205.3	0.092	1	2.39	0.005	0.05	0.1	2.5	0.12	0.07	45	0.3	0.04	7.1	2.05	<0.1	0.06
REP R11-650	QC	10.4	28.1	0.77	194.6	0.091	2	2.29	0.005	0.05	0.1	2.5	0.12	0.07	46	0.5	0.06	6.8	1.99	<0.1	0.06

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Acme Analytical Laboratories (Vancouver) Ltd.

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

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QUALITY CONTROL REPORT

SMI11000457.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
R11-418	Soil	1.35	6.3	0.5	<0.05	4.2	7.85	28.5	0.02	<1	1.0	20.3	<10	<2
REP R11-418	QC	1.55	6.7	0.6	<0.05	4.2	8.12	29.5	0.03	<1	1.0	21.3	<10	<2
R11-423	Soil	2.99	8.3	0.9	<0.05	6.1	7.44	27.4	0.04	<1	0.8	22.1	<10	<2
REP R11-423	QC	3.07	8.5	1.0	<0.05	5.4	7.37	27.5	0.03	<1	1.0	22.2	<10	<2
R11-439	Soil	10.60	7.5	2.8	<0.05	11.9	7.57	28.9	0.05	<1	1.1	8.1	<10	<2
REP R11-439	QC	10.92	8.1	3.0	<0.05	9.8	7.87	29.9	0.04	<1	1.1	8.1	<10	<2
R11-460	Soil	1.47	7.0	0.8	<0.05	9.7	12.04	31.0	0.03	<1	0.8	18.9	<10	<2
REP R11-460	QC	1.60	7.5	0.9	<0.05	9.6	12.19	31.4	0.02	<1	0.9	19.5	<10	<2
R11-481	Soil	11.51	6.7	2.3	0.09	21.9	11.52	40.5	0.05	<1	1.4	12.0	<10	<2
REP R11-481	QC	11.99	7.1	2.5	0.09	22.8	12.56	44.0	0.05	<1	1.5	12.6	<10	<2
R11-482	Soil	6.01	7.5	1.4	<0.05	11.7	10.10	33.0	0.05	<1	1.2	11.8	<10	<2
REP R11-482	QC	6.08	8.0	1.5	<0.05	10.0	10.16	32.4	0.05	<1	1.1	11.9	<10	<2
R11-518	Soil	4.70	7.5	1.1	<0.05	10.9	8.47	34.0	0.04	<1	1.2	17.9	<10	<2
REP R11-518	QC	4.10	6.7	1.0	<0.05	9.9	7.86	31.0	0.04	<1	1.1	15.6	<10	<2
R11-532	Soil	7.30	9.1	2.0	<0.05	16.2	10.54	41.4	0.05	<1	1.1	18.4	16	<2
REP R11-532	QC	7.63	9.5	2.0	<0.05	16.1	11.04	42.9	0.06	<1	1.2	18.8	<10	<2
R11-546	Soil	3.66	14.1	1.0	<0.05	5.3	11.96	32.6	0.06	<1	1.3	27.5	<10	<2
REP R11-546	QC	3.45	13.4	1.1	<0.05	5.8	11.97	31.2	0.04	<1	1.4	27.2	<10	<2
R11-581	Soil	3.25	10.5	1.6	<0.05	30.3	21.17	47.7	0.05	<1	1.7	23.3	<10	<2
REP R11-581	QC	3.21	9.9	1.6	<0.05	30.2	20.46	47.2	0.05	<1	1.7	22.6	<10	<2
R11-600	Soil	6.74	6.6	1.5	0.06	12.1	8.46	33.3	0.04	<1	1.2	11.1	<10	<2
REP R11-600	QC	6.90	7.2	1.5	0.06	12.4	8.90	35.0	0.04	<1	1.2	11.6	<10	<2
R11-624	Soil	1.39	6.2	0.5	<0.05	14.2	8.55	32.6	0.03	<1	0.8	13.2	<10	<2
REP R11-624	QC	1.56	7.2	0.6	<0.05	16.5	9.83	37.5	0.02	<1	0.9	15.9	<10	<2
R11-644	Soil	13.94	5.5	2.4	0.07	15.4	8.35	31.3	0.06	<1	1.2	9.7	<10	<2
REP R11-644	QC	13.95	5.6	2.2	0.07	15.4	8.26	32.1	0.05	<1	1.2	9.6	<10	<2
R11-650	Soil	4.31	8.0	0.9	<0.05	4.3	7.15	27.0	0.04	<1	1.0	18.1	<10	<2
REP R11-650	QC	4.25	8.1	0.9	<0.05	4.2	6.94	26.9	0.03	2	1.1	16.9	<10	<2

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Acme Analytical Laboratories (Vancouver) Ltd.

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
880 - 609 Granville St.
Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
Report Date: November 12, 2011

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QUALITY CONTROL REPORT

SMI11000457.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-668	Soil	1.14	33.33	22.00	102.9	81	48.1	13.5	706	3.79	7.8	0.7	7.1	1.6	20.9	0.34	0.66	0.16	64	0.24	0.115
REP R11-668	QC	1.14	34.19	22.66	104.6	80	49.8	13.3	697	3.82	7.6	0.7	4.6	1.7	20.8	0.35	0.59	0.14	63	0.25	0.114
R11-695	Soil	1.18	30.57	17.58	195.2	152	46.9	16.0	1064	4.21	6.4	1.2	1.8	1.3	9.3	0.39	0.47	0.13	73	0.13	0.101
REP R11-695	QC	1.20	30.31	17.86	196.4	155	47.5	16.1	1049	4.38	6.6	1.2	2.5	1.3	9.5	0.40	0.48	0.14	74	0.13	0.106
Reference Materials																					
STD DS8	Standard	13.77	115.9	128.3	318.0	1786	40.2	7.9	629	2.62	26.2	3.1	123.3	7.6	68.5	2.61	5.61	7.30	44	0.77	0.084
STD DS8	Standard	12.07	106.2	123.7	301.8	1768	36.2	7.2	585	2.40	23.0	2.5	112.3	6.3	57.3	2.19	5.08	5.87	38	0.66	0.076
STD DS8	Standard	12.80	103.4	117.3	300.4	1678	36.4	7.2	587	2.35	22.5	2.6	99.3	6.3	58.5	1.98	4.99	5.60	41	0.69	0.074
STD DS8	Standard	13.15	104.2	111.6	285.6	1593	35.9	7.5	587	2.33	21.8	2.7	107.5	6.4	59.1	2.00	4.58	5.20	41	0.70	0.071
STD DS8	Standard	12.27	104.8	121.2	310.7	1738	37.3	7.2	606	2.44	24.0	2.6	107.4	6.3	59.1	2.18	5.45	5.95	40	0.66	0.077
STD DS8	Standard	13.47	112.0	126.7	325.2	1895	39.1	7.7	637	2.49	25.6	2.9	143.3	7.0	67.5	2.34	5.57	6.62	43	0.78	0.079
STD DS8	Standard	12.21	109.1	128.0	315.1	1840	37.0	7.4	613	2.46	24.9	2.6	110.2	6.5	60.0	2.34	5.37	6.16	40	0.67	0.084
STD DS8	Standard	12.60	105.5	124.4	314.0	1763	37.4	7.2	613	2.45	24.8	2.7	111.9	6.6	63.5	2.25	5.15	6.41	41	0.71	0.079
STD DS8	Standard	11.64	98.45	114.9	279.3	1645	33.7	6.8	558	2.23	22.3	2.5	116.5	6.4	59.8	2.10	4.97	5.91	39	0.64	0.075
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	*	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



Acme Analytical Laboratories (Vancouver) Ltd.

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM

Report Date: November 12, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

SMI11000457.1

		1F15 La ppm	1F15 Cr ppm	1F15 Mg %	1F15 Ba ppm	1F15 Ti %	1F15 B ppm	1F15 Al %	1F15 Na %	1F15 K %	1F15 W ppm	1F15 Sc ppm	1F15 Ti ppm	1F15 S %	1F15 Hg ppb	1F15 Se ppm	1F15 Te ppm	1F15 Ga ppm	1F15 Cs ppm	1F15 Ge ppm	1F15 Hf ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
R11-668	Soil	14.1	42.6	1.00	189.1	0.114	2	2.48	0.008	0.05	0.1	3.7	0.09	0.03	44	0.3	0.03	7.7	1.32	<0.1	0.10
REP R11-668	QC	14.5	42.2	1.01	193.4	0.110	2	2.47	0.008	0.05	0.1	3.6	0.10	0.03	39	0.3	0.03	7.8	1.20	<0.1	0.13
R11-695	Soil	17.0	39.3	0.84	160.0	0.137	1	3.24	0.007	0.09	<0.1	3.9	0.12	0.07	67	0.5	<0.02	11.1	7.05	<0.1	0.16
REP R11-695	QC	17.7	39.1	0.84	161.7	0.138	<1	3.31	0.007	0.09	<0.1	4.0	0.13	0.07	71	0.5	0.03	11.0	7.32	<0.1	0.19
Reference Materials																					
STD DS8	Standard	16.4	124.7	0.65	278.7	0.123	3	0.99	0.100	0.45	3.0	2.2	5.58	0.17	195	4.9	5.07	4.6	2.57	<0.1	0.08
STD DS8	Standard	12.7	118.1	0.59	255.9	0.099	3	0.94	0.104	0.43	3.2	2.5	5.49	0.16	199	4.9	4.94	4.7	2.53	0.2	0.07
STD DS8	Standard	14.2	114.7	0.61	247.7	0.107	3	0.94	0.097	0.43	3.0	2.1	5.25	0.16	176	5.0	5.17	4.7	2.48	0.1	0.07
STD DS8	Standard	16.1	114.7	0.59	238.6	0.117	3	0.96	0.091	0.40	2.6	2.3	4.94	0.15	180	4.5	4.86	4.6	2.26	<0.1	0.06
STD DS8	Standard	13.8	115.5	0.60	255.9	0.100	2	0.88	0.083	0.41	3.1	2.0	5.38	0.16	192	5.1	4.75	4.5	2.38	0.1	0.06
STD DS8	Standard	16.3	128.3	0.63	284.6	0.115	2	0.95	0.097	0.47	3.0	2.4	5.64	0.17	194	5.2	4.85	5.2	2.54	<0.1	0.09
STD DS8	Standard	13.3	120.5	0.61	241.9	0.098	5	0.91	0.088	0.41	2.9	2.0	5.58	0.16	212	5.2	4.97	4.7	2.42	<0.1	0.08
STD DS8	Standard	14.2	120.1	0.61	270.3	0.108	2	0.95	0.097	0.42	2.9	2.2	5.47	0.16	206	4.9	4.73	4.6	2.41	0.1	0.08
STD DS8	Standard	13.6	112.4	0.55	238.2	0.099	3	0.85	0.081	0.38	2.7	1.9	4.99	0.15	183	4.5	4.47	4.2	2.18	<0.1	0.08
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



Acme Analytical Laboratories (Vancouver) Ltd.

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: November 12, 2011

Page: 2 of 2 Part 3

QUALITY CONTROL REPORT

SMI11000457.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	
R11-668	Soil	3.22	7.8	1.2	<0.05	7.9	9.09	34.1	0.05	<1	1.0	17.9	12	<2
REP R11-668	QC	3.10	7.5	1.2	<0.05	9.0	9.18	34.3	0.04	<1	1.3	19.2	<10	<2
R11-695	Soil	6.63	15.9	1.8	<0.05	13.5	14.33	34.3	0.07	<1	1.6	18.2	<10	<2
REP R11-695	QC	6.66	16.1	1.8	<0.05	14.7	15.03	36.1	0.06	<1	1.5	19.0	<10	<2
Reference Materials														
STD DS8	Standard	1.25	37.8	7.2	<0.05	2.0	6.19	29.1	2.27	57	4.8	27.7	112	356
STD DS8	Standard	1.33	38.9	6.3	<0.05	1.8	5.48	25.7	2.27	53	5.1	26.3	99	352
STD DS8	Standard	1.30	37.7	5.8	<0.05	1.8	5.68	26.5	2.13	54	5.2	26.4	121	318
STD DS8	Standard	1.43	35.2	5.7	<0.05	1.7	6.47	28.6	2.07	53	4.8	24.0	100	323
STD DS8	Standard	1.17	36.3	6.2	<0.05	1.7	5.16	24.6	2.10	52	4.4	27.8	113	342
STD DS8	Standard	1.44	39.3	6.9	<0.05	2.0	6.39	30.2	2.31	59	5.2	27.1	121	354
STD DS8	Standard	1.09	37.5	6.5	<0.05	1.7	5.02	23.8	2.20	55	4.8	29.1	122	343
STD DS8	Standard	1.24	37.3	6.6	<0.05	1.4	5.59	26.6	2.17	61	4.9	26.4	113	344
STD DS8	Standard	1.21	33.7	6.2	<0.05	1.7	5.41	24.9	1.94	55	4.4	25.4	114	313
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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Client: **Lions Gate Metals Inc.**
880 - 609 Granville St.
Vancouver BC V7Y 1G5 Canada

Submitted By: Andrew Gourlay
Receiving Lab: Canada-Smithers
Received: September 16, 2011
Report Date: October 27, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

SMI11000458.1

CLIENT JOB INFORMATION

Project: ROK_LGM
Shipment ID:
P.O. Number
Number of Samples: 329

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

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

Invoice To: Lions Gate Metals Inc.
880 - 609 Granville St.
Vancouver BC V7Y 1G5
Canada

CC: Mathias W.
Lorie Farrell

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	300	Dry at 60C			SMI
SS80	300	Dry at 60C sieve 100g to -80 mesh			SMI
1F05	299	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
RJSV	300	Saving all or part of Soil Reject			SMI

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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

www.acmelab.com

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 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-701	Soil			1.79	12.30	9.61	99.4	69	25.3	8.7	920	3.86	5.1	1.1	*	0.4	11.2	0.49	0.44	0.34	54	0.16	0.110
R11-702	Soil			1.64	17.07	11.35	99.5	153	25.6	9.6	726	3.82	4.4	1.0	3.0	0.3	15.4	0.84	0.42	0.22	69	0.18	0.122
R11-703	Soil			1.92	15.50	11.18	103.6	56	34.3	11.9	1087	4.51	4.7	0.8	2.8	0.4	13.0	0.48	0.45	0.27	79	0.18	0.097
R11-704	Soil			1.42	22.71	22.19	146.0	157	37.5	14.7	1239	4.51	4.0	1.0	3.1	1.1	17.6	1.22	0.52	0.16	80	0.25	0.122
R11-705	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-706	Soil			1.75	26.42	15.40	157.2	78	69.1	18.4	946	5.04	5.3	1.1	*	3.5	15.3	0.57	0.47	0.14	70	0.24	0.111
R11-707	Soil			1.43	16.77	9.17	104.8	60	40.1	11.6	744	4.07	5.4	1.2	*	1.8	11.5	0.41	0.34	0.18	52	0.23	0.099
R11-708	Soil			1.86	26.67	20.23	136.3	49	39.7	11.7	957	4.26	5.0	0.9	*	1.1	13.2	0.81	0.50	0.17	67	0.22	0.108
R11-709	Soil			1.46	36.89	30.47	166.6	47	46.1	13.3	903	4.18	4.8	0.9	*	0.9	13.2	1.25	0.50	0.17	62	0.24	0.107
R11-710	Soil			1.62	28.65	10.56	125.6	98	45.6	16.6	986	4.83	5.0	1.4	1.8	3.3	14.2	0.68	0.34	0.15	65	0.31	0.103
R11-711	Soil			1.53	21.04	16.21	95.8	72	42.3	14.0	895	4.14	4.0	0.8	1.6	0.7	17.1	0.40	0.41	0.15	69	0.27	0.102
R11-712	Soil			2.22	91.48	40.61	612.6	701	40.0	14.0	1112	4.62	7.1	2.5	3.1	1.7	25.2	3.09	1.10	0.19	77	0.33	0.114
R11-713	Soil			0.47	57.50	50.05	188.3	134	7.9	12.7	1593	3.88	6.4	1.0	1.4	2.3	28.9	1.08	1.14	0.04	71	0.44	0.143
R11-714	Soil			1.27	43.41	118.4	416.6	613	28.2	10.3	853	3.85	6.4	3.3	2.0	0.7	24.4	1.21	0.75	0.17	76	0.33	0.140
R11-715	Soil			1.58	41.24	13.95	139.1	137	61.5	19.6	979	4.89	5.9	1.0	*	2.9	19.9	0.30	0.46	0.15	83	0.21	0.165
R11-716	Soil			1.55	17.30	31.24	119.5	77	42.1	15.9	1002	4.72	3.8	0.9	*	0.9	13.9	0.83	0.37	0.18	79	0.26	0.100
R11-717	Soil			1.92	33.33	17.27	139.7	85	59.9	17.6	1032	4.79	6.0	1.0	*	3.1	17.8	0.29	0.51	0.16	73	0.23	0.135
R11-718	Soil			1.65	18.07	36.09	110.0	93	32.0	11.1	772	4.89	3.3	0.9	1.5	0.8	11.4	0.65	0.44	0.19	97	0.16	0.075
R11-719	Soil			1.53	28.89	10.69	86.3	100	47.6	13.4	558	4.31	4.9	1.1	3.6	1.9	13.1	0.16	0.38	0.15	65	0.23	0.097
R11-720	Soil			1.86	25.96	20.40	138.9	45	27.2	11.1	1162	4.30	5.8	1.1	*	1.3	14.8	0.43	0.47	0.32	56	0.21	0.125
R11-721	Soil			1.57	16.03	8.26	76.6	91	33.7	12.7	1216	4.14	3.3	0.8	1.4	0.6	10.4	0.26	0.31	0.15	76	0.16	0.100
R11-722	Soil			1.75	25.92	33.31	178.7	121	40.5	15.2	1268	4.45	6.4	1.2	*	2.8	23.3	0.70	0.70	0.16	74	0.32	0.143
R11-723	Soil			1.42	16.48	10.08	85.6	83	34.7	11.2	738	3.99	3.2	0.9	*	0.7	14.3	0.32	0.32	0.18	66	0.20	0.083
R11-724	Soil			1.88	30.55	21.87	147.1	189	46.3	15.4	913	4.67	5.2	1.3	*	3.3	17.8	0.59	0.50	0.16	70	0.25	0.139
R11-725	Soil			1.39	23.80	9.22	96.2	76	47.2	15.3	1105	4.21	4.8	1.1	8.0	1.7	14.4	0.37	0.39	0.09	58	0.26	0.105
R11-726	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-727	Soil			1.60	23.80	17.44	90.9	107	43.4	13.6	624	4.55	4.8	1.1	2.1	1.9	14.2	0.33	0.35	0.18	68	0.24	0.095
R11-728	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-729	Soil			1.62	18.72	11.42	87.5	81	36.8	13.4	791	4.47	3.7	1.0	1.3	1.6	13.7	0.31	0.28	0.18	69	0.21	0.094
R11-730	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
R11-701	Soil	17.9	27.5	0.46	149.8	0.099	3	2.62	0.021	0.05	0.2	1.8	0.13	0.06	57	0.2	0.05	14.4	1.15	<0.1	0.24
R11-702	Soil	16.1	30.4	0.53	141.7	0.105	2	2.29	0.012	0.05	0.1	1.8	0.10	0.13	57	0.1	0.03	13.3	1.56	<0.1	0.20
R11-703	Soil	13.4	37.3	0.65	162.8	0.127	3	2.07	0.014	0.05	<0.1	2.1	0.12	0.11	61	0.1	0.05	14.7	1.26	<0.1	0.18
R11-704	Soil	15.7	34.0	0.94	140.5	0.212	3	2.91	0.017	0.05	0.1	3.6	0.08	0.11	69	0.2	0.04	12.4	1.71	<0.1	0.24
R11-705	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-706	Soil	21.2	41.1	1.51	111.6	0.310	1	2.45	0.036	0.06	0.2	3.8	0.07	0.04	16	0.1	<0.02	11.8	1.58	<0.1	0.32
R11-707	Soil	21.5	32.3	0.76	129.8	0.180	2	3.88	0.020	0.05	0.2	2.8	0.08	0.10	47	0.3	0.02	14.1	0.97	<0.1	0.69
R11-708	Soil	15.0	36.6	0.86	99.0	0.201	3	2.14	0.024	0.06	0.1	2.6	0.08	0.11	70	0.4	0.03	12.3	1.58	<0.1	0.36
R11-709	Soil	16.0	34.7	0.82	134.8	0.158	3	3.49	0.020	0.05	0.1	2.9	0.09	0.12	69	0.4	0.03	12.0	1.15	<0.1	0.30
R11-710	Soil	26.0	35.1	0.93	172.5	0.284	2	3.95	0.035	0.06	0.1	3.6	0.11	0.07	44	0.3	0.02	14.4	1.44	<0.1	0.58
R11-711	Soil	14.1	33.0	0.89	125.1	0.177	2	2.60	0.018	0.04	0.1	2.7	0.08	0.10	49	0.1	0.02	11.0	1.61	<0.1	0.25
R11-712	Soil	24.9	36.6	1.06	279.9	0.185	2	3.14	0.016	0.07	0.2	4.7	0.15	0.10	327	0.5	0.06	12.9	6.80	<0.1	0.25
R11-713	Soil	13.4	8.0	1.41	86.3	0.096	3	2.33	<0.001	0.10	0.2	3.7	0.11	<0.02	51	<0.1	0.06	6.7	3.07	<0.1	0.08
R11-714	Soil	19.1	34.1	0.79	304.4	0.065	1	3.04	0.008	0.10	0.1	4.0	0.17	0.10	94	0.4	0.04	10.7	7.95	<0.1	0.09
R11-715	Soil	19.7	51.3	1.14	117.2	0.304	3	2.99	0.034	0.07	0.1	5.8	0.11	0.04	36	0.4	0.06	11.6	1.66	<0.1	0.22
R11-716	Soil	16.1	41.1	0.90	128.7	0.235	1	2.99	0.011	0.04	0.1	3.1	0.09	0.13	60	0.3	<0.02	14.4	1.16	<0.1	0.52
R11-717	Soil	18.7	45.5	1.24	85.3	0.277	2	2.92	0.032	0.07	0.2	4.7	0.09	0.05	29	0.2	0.04	11.7	1.78	<0.1	0.32
R11-718	Soil	13.5	45.8	0.72	84.5	0.245	<1	2.35	0.009	0.04	<0.1	2.7	0.08	0.11	65	0.3	0.03	15.0	1.32	<0.1	0.38
R11-719	Soil	22.1	37.6	0.86	117.8	0.218	1	3.32	0.020	0.05	0.1	3.8	0.12	0.08	58	0.2	0.02	12.9	1.22	<0.1	0.39
R11-720	Soil	25.3	27.3	0.63	149.0	0.148	2	2.59	0.020	0.07	0.2	2.3	0.09	0.14	58	0.2	0.06	15.7	1.72	<0.1	0.36
R11-721	Soil	12.4	37.1	0.65	96.4	0.198	<1	2.80	0.012	0.04	<0.1	2.9	0.08	0.13	69	0.2	0.03	11.4	1.12	<0.1	0.29
R11-722	Soil	20.0	30.4	1.27	94.2	0.226	1	2.64	0.024	0.06	0.2	3.9	0.09	0.04	27	0.2	0.04	11.8	1.57	<0.1	0.19
R11-723	Soil	14.3	32.1	0.65	145.6	0.164	<1	2.88	0.015	0.03	<0.1	2.6	0.08	0.11	47	<0.1	0.04	11.8	0.93	<0.1	0.39
R11-724	Soil	26.2	37.5	0.98	101.7	0.266	1	2.93	0.033	0.07	0.1	4.3	0.12	0.05	72	0.2	0.04	12.8	1.85	<0.1	0.34
R11-725	Soil	21.6	29.8	0.84	159.4	0.183	1	3.57	0.015	0.04	0.1	3.1	0.07	0.11	61	0.2	0.03	11.3	1.09	<0.1	0.46
R11-726	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-727	Soil	21.2	39.5	0.83	120.2	0.238	1	3.44	0.022	0.04	0.1	3.9	0.13	0.09	65	0.4	0.05	13.1	1.22	<0.1	0.64
R11-728	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-729	Soil	18.5	35.4	0.71	138.1	0.218	1	3.21	0.021	0.04	0.1	3.4	0.09	0.11	55	0.4	0.04	13.0	1.04	<0.1	0.56
R11-730	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
R11-701	Soil			17.42	6.7	4.0	0.16	20.0	9.78	41.4	0.07	<1	1.7	9.6	14	<2
R11-702	Soil			12.82	6.7	3.0	<0.05	14.6	9.25	36.1	0.05	1	1.3	9.4	<10	<2
R11-703	Soil			11.93	6.6	3.1	<0.05	14.5	6.96	31.3	0.06	<1	1.4	12.0	<10	<2
R11-704	Soil			9.82	7.2	2.3	0.09	19.3	9.60	38.3	0.04	<1	1.4	12.3	10	<2
R11-705	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-706	Soil			6.77	8.0	2.9	0.18	29.7	12.96	48.9	0.06	<1	1.4	13.4	<10	<2
R11-707	Soil			21.12	5.0	3.0	0.12	53.7	12.70	57.6	0.09	<1	1.8	11.7	<10	<2
R11-708	Soil			13.41	8.0	2.7	0.10	28.4	9.00	34.4	0.07	<1	1.0	8.8	<10	<2
R11-709	Soil			13.66	5.6	2.4	0.11	25.0	9.97	42.3	0.06	<1	1.5	11.9	<10	<2
R11-710	Soil			14.63	6.4	3.4	<0.05	50.5	15.88	68.9	0.08	<1	2.4	11.9	<10	<2
R11-711	Soil			10.14	5.7	2.2	0.09	17.1	8.01	34.7	0.05	<1	1.0	11.1	<10	<2
R11-712	Soil			11.79	14.3	3.0	<0.05	22.7	23.67	48.5	0.07	<1	2.3	23.2	<10	<2
R11-713	Soil			0.44	10.2	0.4	<0.05	4.1	7.63	35.4	<0.02	<1	1.0	29.7	<10	<2
R11-714	Soil			5.92	21.7	1.9	<0.05	7.7	19.14	34.1	0.05	<1	1.7	29.6	<10	<2
R11-715	Soil			4.39	9.1	2.1	0.13	21.2	13.74	45.7	0.06	<1	1.2	15.6	<10	<2
R11-716	Soil			16.64	4.7	2.5	0.19	32.0	10.04	35.7	0.06	<1	1.8	9.2	<10	<2
R11-717	Soil			7.85	8.4	2.6	0.17	28.6	12.57	46.1	0.06	<1	1.4	14.7	<10	<2
R11-718	Soil			14.69	6.3	2.9	0.07	28.6	6.51	30.8	0.06	<1	0.6	7.5	<10	<2
R11-719	Soil			12.80	5.8	2.6	0.06	32.9	13.06	52.6	0.07	<1	1.6	11.5	24	<2
R11-720	Soil			22.63	9.9	4.5	0.16	29.4	14.37	59.4	0.07	<1	1.8	12.2	<10	<2
R11-721	Soil			10.17	5.6	1.9	0.07	20.5	7.66	30.4	0.06	<1	0.9	8.0	14	<2
R11-722	Soil			6.20	7.8	2.6	0.16	18.2	11.90	51.2	0.05	<1	1.3	16.0	<10	<2
R11-723	Soil			13.14	4.7	2.3	0.11	29.0	8.85	34.4	0.06	<1	1.0	8.3	<10	<2
R11-724	Soil			8.39	8.5	3.0	0.11	28.0	16.05	55.9	0.06	<1	2.0	13.5	<10	<2
R11-725	Soil			11.11	5.5	2.0	<0.05	34.4	13.46	58.7	0.06	<1	1.8	9.6	<10	<2
R11-726	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-727	Soil			13.50	5.6	2.8	<0.05	44.9	14.05	51.7	0.08	<1	2.4	10.9	<10	2
R11-728	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-729	Soil			15.25	5.2	2.6	<0.05	44.5	12.34	45.4	0.06	<1	1.6	9.5	<10	<2
R11-730	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-731	Soil			2.19	34.73	13.14	61.9	104	18.4	8.3	796	3.95	5.6	0.8	2.3	0.4	12.9	0.11	0.43	0.25	80	0.19	0.088
R11-732	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-733	Soil			2.58	367.1	18.62	129.4	1051	29.1	12.2	854	4.23	9.0	1.8	13.6	0.8	26.4	0.54	0.73	0.34	70	0.53	0.157
R11-734	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-735	Soil			1.61	65.69	10.31	80.9	55	29.6	10.6	726	4.32	5.2	0.9	*	0.7	13.3	0.37	0.35	0.22	62	0.30	0.121
R11-736	Soil			0.60	87.06	37.74	165.0	153	63.7	19.7	1807	4.08	5.6	0.9	2.3	2.3	35.1	0.62	0.57	0.18	78	0.52	0.150
R11-737	Soil			1.55	87.66	11.32	88.7	90	40.3	14.5	802	4.45	5.2	1.1	*	1.5	12.7	0.32	0.32	0.19	61	0.32	0.117
R11-738	Soil			1.41	16.68	7.70	103.3	67	43.8	13.6	827	4.06	3.1	1.0	0.8	0.8	13.6	0.52	0.27	0.10	61	0.30	0.136
R11-739	Soil			1.58	193.8	31.80	144.3	234	44.2	20.8	1199	5.32	19.8	0.9	7.2	2.2	17.1	0.43	0.56	0.17	81	0.40	0.111
R11-740	Soil			1.58	20.75	7.69	90.7	184	35.9	12.3	1410	3.95	3.1	1.0	*	0.3	15.7	0.63	0.27	0.38	61	0.24	0.168
R11-741	Soil			0.63	29.00	11.09	92.3	89	18.7	10.9	1220	3.34	4.4	0.8	3.6	1.0	20.2	0.16	0.75	0.13	57	0.61	0.147
R11-742	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-743	Soil			0.60	30.68	8.54	85.7	54	18.8	9.2	711	3.33	4.0	0.8	1.5	1.2	17.3	0.08	0.68	0.09	56	0.48	0.140
R11-744	Soil			1.73	16.35	11.13	85.6	86	26.8	8.9	694	4.13	4.3	1.2	*	0.5	10.0	0.41	0.36	0.28	57	0.19	0.128
R11-745	Soil			0.71	32.55	9.57	96.9	52	20.4	10.0	647	3.62	4.3	0.9	2.1	1.2	16.8	0.12	0.76	0.12	65	0.55	0.143
R11-746	Soil			1.53	18.44	6.88	89.0	41	37.2	11.7	634	3.82	2.9	0.9	1.5	0.3	10.8	0.34	0.25	0.18	63	0.22	0.112
R11-747	Soil			0.83	32.54	10.60	95.1	38	22.1	12.5	1267	3.91	4.5	0.9	1.9	1.7	17.2	0.17	0.92	0.10	67	0.55	0.147
R11-748	Soil			1.48	54.83	6.00	112.6	53	70.8	24.3	1072	5.43	3.3	1.1	1.1	3.4	21.8	0.30	0.22	0.11	80	0.47	0.103
R11-749	Soil			1.65	206.5	23.80	110.6	147	29.8	22.3	1361	5.61	26.1	0.7	11.4	1.0	20.1	0.25	0.74	0.22	88	0.42	0.102
R11-750	Soil			1.60	34.68	9.99	86.6	60	41.7	14.8	841	4.14	5.6	1.1	2.7	1.2	15.7	0.29	0.32	0.19	61	0.31	0.118
R11-751	Soil			1.85	43.46	11.72	61.4	93	12.2	10.6	977	4.17	9.9	0.6	2.8	<0.1	15.1	0.15	0.37	0.22	82	0.31	0.133
R11-752	Soil			1.15	109.2	24.40	104.0	82	21.1	19.6	1788	4.44	18.6	0.4	12.1	0.6	15.8	0.20	0.67	0.23	88	0.36	0.127
R11-753	Soil			1.76	101.9	9.18	71.3	108	33.3	14.4	772	4.19	8.8	0.7	13.0	0.3	19.3	0.18	0.38	0.14	70	0.55	0.121
R11-754	Soil			1.20	156.9	27.29	310.3	760	20.2	13.3	2500	3.28	8.7	2.0	10.6	0.2	39.8	4.68	0.80	0.19	53	1.38	0.181
R11-755	Soil			2.35	137.8	20.00	98.8	54	18.9	17.5	1481	5.02	25.2	0.6	9.4	0.5	13.6	0.20	0.68	0.20	80	0.24	0.132
R11-756	Soil			2.07	177.1	12.93	88.5	275	6.5	26.2	1158	8.92	12.6	0.5	16.0	0.6	22.8	0.19	0.77	0.34	80	1.07	0.201
R11-757	Soil			1.24	38.19	7.06	85.0	53	52.5	15.3	660	4.19	3.5	0.8	1.9	1.1	15.4	0.11	0.32	0.13	66	0.35	0.105
R11-758	Soil			1.42	69.34	29.49	75.8	224	23.2	9.0	934	3.17	5.5	0.7	3.0	0.1	17.3	0.27	0.53	0.16	60	0.32	0.156
R11-759	Soil			0.46	20.16	10.87	120.8	49	12.7	13.1	861	3.83	3.7	0.7	1.5	1.1	21.4	0.08	0.74	0.08	74	0.70	0.151
R11-760	Soil			1.25	65.67	16.32	99.3	100	56.3	17.1	941	4.25	7.0	0.7	2.8	1.3	16.2	0.32	0.42	0.15	66	0.36	0.113

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
R11-731	Soil	11.3	31.8	0.42	114.8	0.131	1	2.20	0.008	0.04	<0.1	2.4	0.13	0.10	44	0.6	0.07	12.3	2.05	<0.1	0.24
R11-732	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-733	Soil	39.0	30.3	0.95	254.2	0.091	2	3.38	0.012	0.06	<0.1	6.3	0.15	0.17	271	3.8	0.16	11.9	4.25	<0.1	0.25
R11-734	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-735	Soil	17.7	32.2	0.59	95.1	0.152	1	2.77	0.010	0.04	0.2	2.5	0.07	0.17	58	1.5	0.03	14.0	1.45	<0.1	0.49
R11-736	Soil	19.0	27.7	1.49	375.1	0.165	2	2.46	0.006	0.08	0.1	5.6	0.05	0.04	44	<0.1	0.14	7.8	3.10	<0.1	0.09
R11-737	Soil	22.4	32.0	0.83	116.4	0.184	<1	3.31	0.017	0.04	0.1	3.6	0.08	0.13	76	1.5	0.04	13.0	2.05	<0.1	0.58
R11-738	Soil	17.5	31.1	0.92	122.0	0.180	1	2.70	0.023	0.05	<0.1	2.6	0.05	0.14	72	0.3	<0.02	11.1	1.20	<0.1	0.31
R11-739	Soil	17.9	33.7	1.39	131.1	0.189	2	2.55	0.019	0.07	0.1	5.8	0.08	0.04	83	0.7	0.13	9.6	3.77	<0.1	0.19
R11-740	Soil	17.4	30.3	0.69	167.3	0.089	<1	2.82	0.014	0.03	<0.1	2.0	0.07	0.18	69	0.4	0.03	11.5	1.02	<0.1	0.20
R11-741	Soil	31.2	18.6	0.92	531.0	0.025	3	1.87	0.005	0.15	0.1	5.8	0.09	0.05	33	<0.1	0.02	5.3	2.95	<0.1	0.08
R11-742	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-743	Soil	25.8	17.3	0.96	409.3	0.027	2	1.70	0.007	0.12	0.1	4.9	0.06	0.04	23	<0.1	0.06	4.7	1.89	<0.1	0.04
R11-744	Soil	19.5	29.9	0.50	122.8	0.117	2	2.93	0.023	0.05	0.2	1.9	0.10	0.13	60	0.4	0.03	15.5	1.13	<0.1	0.42
R11-745	Soil	22.0	15.8	1.02	383.5	0.021	3	1.90	0.006	0.15	0.1	5.0	0.08	0.04	11	0.1	0.03	5.3	1.74	<0.1	0.05
R11-746	Soil	13.6	34.1	0.64	125.6	0.133	2	2.69	0.019	0.04	<0.1	2.2	0.09	0.12	44	0.3	0.03	11.9	1.01	<0.1	0.28
R11-747	Soil	24.9	16.1	1.10	423.5	0.043	4	1.70	0.007	0.17	0.1	5.6	0.07	0.02	19	0.2	0.02	4.9	3.15	<0.1	0.04
R11-748	Soil	26.2	42.4	1.58	134.5	0.434	2	2.98	0.061	0.06	0.1	5.1	0.08	0.04	26	0.3	0.02	11.2	1.04	<0.1	0.37
R11-749	Soil	14.7	20.0	1.54	293.1	0.059	3	2.62	0.007	0.10	<0.1	7.0	0.08	0.04	57	1.6	0.25	7.0	5.81	<0.1	0.06
R11-750	Soil	18.6	30.4	0.80	204.3	0.200	1	3.26	0.035	0.05	0.1	2.7	0.08	0.13	45	0.4	0.03	12.9	1.52	<0.1	0.38
R11-751	Soil	9.0	26.1	0.41	201.5	0.053	2	1.94	0.008	0.06	<0.1	1.5	0.11	0.16	35	0.5	0.12	10.2	2.62	<0.1	0.07
R11-752	Soil	8.0	15.1	1.38	180.1	0.088	3	2.28	0.010	0.08	0.2	4.6	0.09	0.05	39	0.4	0.16	7.5	2.98	<0.1	0.04
R11-753	Soil	13.5	26.9	0.84	255.6	0.104	2	2.63	0.019	0.05	<0.1	2.3	0.08	0.12	31	0.8	0.06	9.2	1.96	<0.1	0.13
R11-754	Soil	18.6	14.5	0.96	398.4	0.028	6	2.38	0.011	0.18	0.1	4.0	0.16	0.18	265	5.0	0.13	6.0	7.39	<0.1	0.03
R11-755	Soil	8.9	19.5	1.15	197.1	0.054	3	2.80	0.005	0.08	<0.1	3.9	0.09	0.07	39	0.9	0.19	8.7	3.61	<0.1	0.06
R11-756	Soil	12.4	6.9	1.33	667.1	0.012	5	1.70	0.007	0.15	<0.1	9.8	0.06	0.33	101	6.2	0.38	4.8	4.42	<0.1	0.04
R11-757	Soil	20.7	31.6	1.22	324.6	0.163	3	3.05	0.022	0.07	<0.1	4.0	0.08	0.09	34	0.3	0.03	10.9	3.12	<0.1	0.22
R11-758	Soil	12.1	24.8	0.56	168.2	0.049	3	1.83	0.022	0.08	<0.1	1.9	0.10	0.20	69	0.3	0.02	8.3	3.73	<0.1	0.08
R11-759	Soil	27.5	14.1	1.86	839.7	0.012	3	3.30	<0.001	0.17	<0.1	6.1	0.13	0.06	16	<0.1	<0.02	8.6	3.34	<0.1	0.19
R11-760	Soil	18.5	34.2	1.08	178.3	0.173	2	2.94	0.026	0.06	<0.1	4.3	0.09	0.08	39	0.3	0.03	11.1	2.27	<0.1	0.21

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
		ppm		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02		0.1	0.1	0.05	0.1	0.01	0.1	0.02	0.1	1	0.1	0.1	10	2
R11-731	Soil	11.19		7.2	2.6	<0.05	13.7	6.63	23.7	0.05	<1	0.6	9.3	<10	<2	
R11-732	Soil	L.N.R.		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-733	Soil	10.87		11.2	1.9	<0.05	18.7	47.25	48.7	0.07	12	2.0	30.5	17	<2	
R11-734	Soil	L.N.R.		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-735	Soil	22.19		5.6	3.1	0.19	35.2	13.13	41.1	0.07	4	1.4	10.2	<10	<2	
R11-736	Soil	1.98		6.8	1.0	<0.05	7.9	15.42	39.9	0.04	1	1.2	20.8	<10	<2	
R11-737	Soil	17.70		5.5	2.7	0.10	44.8	20.28	47.4	0.07	2	1.9	12.6	<10	<2	
R11-738	Soil	11.80		5.5	2.1	0.06	23.0	9.76	40.8	0.05	<1	1.0	6.3	11	<2	
R11-739	Soil	3.33		9.3	1.5	0.08	16.6	20.55	36.0	0.05	3	1.3	32.3	<10	<2	
R11-740	Soil	10.05		5.0	2.3	0.11	14.7	10.81	39.9	0.05	<1	1.4	7.5	<10	<2	
R11-741	Soil	1.69		11.7	0.8	<0.05	3.4	28.41	47.5	0.05	1	1.1	18.9	<10	<2	
R11-742	Soil	L.N.R.		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-743	Soil	1.39		9.9	0.7	<0.05	2.9	23.43	38.8	0.04	<1	1.1	17.7	<10	<2	
R11-744	Soil	19.37		6.0	3.7	0.12	28.6	10.18	43.2	0.09	<1	1.7	8.0	10	<2	
R11-745	Soil	1.20		10.4	0.7	<0.05	2.4	17.23	37.2	0.05	<1	1.1	17.9	<10	<2	
R11-746	Soil	12.10		5.2	2.3	0.08	19.5	7.38	30.7	0.05	<1	1.0	6.7	<10	<2	
R11-747	Soil	0.90		10.6	0.8	<0.05	2.4	20.26	42.0	0.05	<1	1.1	17.5	<10	<2	
R11-748	Soil	6.49		6.4	2.1	<0.05	36.3	15.70	55.4	0.06	<1	1.9	8.2	<10	<2	
R11-749	Soil	1.72		9.7	0.6	<0.05	4.2	22.88	22.8	0.03	<1	0.9	32.3	<10	<2	
R11-750	Soil	16.77		6.5	2.6	0.06	30.4	11.11	44.6	0.06	<1	1.4	8.4	<10	<2	
R11-751	Soil	7.15		8.1	1.8	<0.05	4.5	6.00	17.9	0.04	<1	0.7	7.8	<10	<2	
R11-752	Soil	2.15		7.9	0.7	<0.05	2.9	6.55	19.8	0.03	<1	0.9	22.8	<10	<2	
R11-753	Soil	8.65		6.9	1.5	0.05	9.4	7.34	28.9	0.06	<1	1.2	9.7	<10	<2	
R11-754	Soil	1.85		28.8	0.6	<0.05	1.4	26.33	25.8	0.04	23	1.2	21.0	<10	<2	
R11-755	Soil	4.93		8.6	1.1	<0.05	4.4	6.53	22.4	0.05	<1	0.8	22.6	<10	<2	
R11-756	Soil	0.61		7.2	0.2	<0.05	2.1	14.25	17.7	0.04	3	0.5	17.0	<10	<2	
R11-757	Soil	9.57		10.1	1.8	0.05	16.7	14.46	42.6	0.06	<1	1.6	15.1	<10	<2	
R11-758	Soil	8.62		10.6	1.7	<0.05	5.5	8.25	33.9	0.04	<1	1.0	8.9	<10	<2	
R11-759	Soil	1.80		16.9	0.7	<0.05	6.0	22.82	42.3	0.05	<1	1.5	31.3	<10	<2	
R11-760	Soil	9.47		7.0	2.0	0.08	16.0	10.87	43.2	0.06	<1	1.4	13.4	<10	<2	

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

Page: 4 of 12 Part 1

CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-761	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-762	Soil			1.15	174.5	7.53	28.5	540	10.6	5.7	845	1.24	3.5	0.6	8.3	0.1	39.9	0.32	0.39	0.11	23	2.23	0.247
R11-763	Soil			0.89	34.23	10.93	97.4	90	42.5	14.7	1317	3.61	5.1	0.6	1.5	0.8	21.3	0.18	0.54	0.10	72	0.56	0.113
R11-764	Soil			2.75	112.0	8.96	37.9	690	14.3	9.3	1878	2.28	3.7	0.8	4.3	<0.1	24.0	0.31	0.37	0.13	44	0.71	0.289
R11-765	Soil			0.88	33.09	14.26	95.6	79	25.8	13.8	1300	3.58	4.5	0.7	3.5	0.4	13.4	0.16	0.63	0.10	71	0.27	0.124
R11-766	Soil			2.27	67.15	6.83	26.7	955	9.1	3.3	356	1.36	2.7	0.8	3.3	<0.1	28.8	0.25	0.32	0.14	34	1.10	0.314
R11-767	Soil			1.37	26.03	24.08	113.8	76	44.3	14.1	1047	4.20	5.5	0.9	3.8	1.1	20.8	0.39	0.50	0.16	67	0.27	0.100
R11-768	Soil			3.46	179.7	8.91	86.3	597	12.8	6.5	884	1.82	4.8	0.8	5.6	0.1	36.1	0.69	0.53	0.11	35	1.28	0.326
R11-769	Soil			1.54	18.95	16.79	108.4	77	64.0	19.0	1373	4.58	5.6	1.0	0.8	1.2	20.0	0.32	0.44	0.18	78	0.32	0.108
R11-770	Soil			1.45	57.47	7.26	92.5	234	13.0	5.8	1236	1.68	2.9	0.7	3.0	<0.1	54.7	0.87	0.39	0.12	28	1.89	0.376
R11-771	Soil			1.35	32.13	15.21	89.7	64	40.9	13.8	1131	3.95	5.4	1.1	0.9	1.0	21.0	0.21	0.51	0.15	59	0.29	0.126
R11-772	Soil			0.93	118.5	9.60	129.8	307	37.0	9.8	541	3.42	10.8	0.9	15.4	0.6	22.3	0.17	0.47	0.24	61	0.57	0.116
R11-773	Soil			1.01	25.22	12.14	88.0	56	52.1	13.6	751	3.73	6.3	0.8	9.7	1.6	26.2	0.22	0.65	0.13	65	0.36	0.123
R11-774	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R11-775	Soil			1.01	32.62	26.02	133.5	519	32.7	10.8	701	3.50	5.3	1.1	1.6	0.7	32.1	0.44	0.65	0.14	63	0.55	0.168
R11-776	Soil			1.98	35.80	6.64	34.9	208	8.6	6.3	1465	1.57	3.0	0.6	3.2	<0.1	36.4	0.36	0.35	0.14	33	0.77	0.289
R11-777	Soil			1.04	25.67	16.44	130.2	218	32.8	10.3	1153	3.40	5.9	1.0	1.1	0.4	27.4	0.37	0.67	0.14	62	0.37	0.147
R11-778	Soil			5.97	237.7	62.96	164.8	172	17.0	24.3	1468	7.29	30.7	0.7	8.2	0.7	14.7	0.49	0.88	0.41	86	0.24	0.139
R11-779	Soil			0.83	28.58	13.36	91.4	103	42.9	11.6	814	3.61	6.4	0.9	2.0	2.4	33.2	0.29	0.77	0.09	67	0.53	0.126
R11-780	Soil			4.43	55.18	19.12	74.6	243	11.1	12.0	1803	2.95	8.3	0.6	8.2	<0.1	29.7	0.45	0.45	0.13	59	0.68	0.293
R11-781	Soil			0.86	26.11	12.63	89.3	103	48.5	11.8	618	3.51	6.7	0.8	7.4	2.0	29.6	0.33	0.86	0.21	62	0.45	0.126
R11-782	Soil			1.30	48.75	14.17	77.6	133	15.2	10.3	836	3.05	4.9	0.7	4.7	0.4	26.5	0.12	0.58	0.14	63	0.62	0.214
R11-783	Soil			0.76	29.90	13.32	101.2	128	46.3	11.4	677	3.62	5.9	0.9	3.0	2.0	30.3	0.29	0.67	0.12	66	0.45	0.131
R11-784	Soil			1.21	32.96	10.85	99.2	118	31.9	11.2	905	4.00	5.1	1.1	2.4	0.4	32.7	0.25	0.49	0.16	77	0.84	0.194
R11-785	Soil			0.86	24.73	14.67	100.0	102	35.9	12.5	1054	3.69	5.8	1.0	3.2	2.6	29.2	0.26	0.69	0.12	63	0.45	0.156
R11-786	Soil			0.87	24.99	8.55	84.6	68	25.2	11.9	1098	3.23	4.1	1.0	1.8	0.7	32.5	0.14	0.70	0.11	65	0.86	0.158
R11-787	Soil			0.84	33.12	17.07	109.3	72	37.0	12.3	950	3.67	5.5	0.9	1.3	1.8	28.6	0.23	0.77	0.12	64	0.41	0.160
R11-788	Soil			1.04	21.80	11.33	86.5	94	23.5	11.6	1394	3.51	4.1	0.8	2.5	0.3	24.9	0.22	0.52	0.16	66	0.61	0.233
R11-789	Soil			1.19	19.52	12.97	66.1	249	19.6	7.5	930	2.78	3.6	1.1	1.5	0.1	44.6	0.22	0.66	0.19	50	1.01	0.319
R11-790	Soil			0.74	25.39	8.67	80.2	64	39.7	11.0	756	3.44	6.4	0.9	3.0	1.1	19.5	0.11	0.68	0.10	68	0.33	0.112

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
R11-761	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
R11-762	Soil	15.4	11.3	0.18	245.6	0.020	4	1.11	0.011	0.05	<0.1	1.3	0.10	0.29	135	1.0	0.03	2.8	2.10	<0.1	0.10
R11-763	Soil	18.5	35.9	1.27	422.0	0.060	3	2.25	0.009	0.11	<0.1	6.0	0.08	0.08	48	0.2	0.04	7.1	1.62	<0.1	0.07
R11-764	Soil	26.2	20.4	0.29	213.5	0.007	2	1.97	0.012	0.05	<0.1	0.6	0.11	0.26	97	0.5	0.04	6.8	2.60	<0.1	0.02
R11-765	Soil	12.4	23.5	1.16	366.9	0.039	4	2.24	0.006	0.15	<0.1	3.7	0.08	0.10	84	0.2	<0.02	6.5	2.30	<0.1	0.02
R11-766	Soil	8.4	15.7	0.15	160.2	0.001	2	1.28	0.010	0.06	<0.1	0.2	0.13	0.30	98	0.6	<0.02	4.5	2.27	<0.1	<0.02
R11-767	Soil	13.8	36.5	0.91	208.1	0.132	2	2.59	0.015	0.06	<0.1	3.3	0.11	0.09	44	0.2	0.04	11.8	1.92	<0.1	0.22
R11-768	Soil	11.4	14.9	0.37	326.1	0.008	4	1.98	0.010	0.20	<0.1	2.1	0.15	0.25	88	0.7	0.03	4.6	11.48	<0.1	0.05
R11-769	Soil	14.7	43.6	1.26	194.2	0.217	2	2.20	0.033	0.07	<0.1	3.4	0.09	0.12	52	0.3	0.03	12.4	2.29	<0.1	0.25
R11-770	Soil	22.9	14.0	0.31	474.6	0.011	5	1.31	0.012	0.09	<0.1	0.9	0.09	0.29	93	0.6	0.05	3.6	2.87	<0.1	<0.02
R11-771	Soil	19.2	29.6	0.92	210.2	0.112	1	3.03	0.019	0.07	0.2	2.8	0.11	0.10	38	0.2	0.02	12.5	2.61	<0.1	0.21
R11-772	Soil	21.7	31.9	1.05	644.5	0.030	3	2.73	0.009	0.13	<0.1	5.5	0.12	0.08	71	0.6	0.07	7.7	4.95	<0.1	0.10
R11-773	Soil	15.0	38.6	1.01	213.6	0.134	3	2.61	0.012	0.09	0.1	4.0	0.11	0.04	45	0.3	0.04	7.8	1.68	<0.1	0.12
R11-774	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R11-775	Soil	19.3	30.5	0.81	266.4	0.086	3	2.80	0.015	0.11	0.1	3.6	0.16	0.10	83	0.5	0.03	9.3	6.41	<0.1	0.10
R11-776	Soil	14.4	14.6	0.11	483.9	0.013	2	0.96	0.008	0.05	0.1	0.7	0.10	0.27	60	0.4	0.04	4.6	1.44	<0.1	0.06
R11-777	Soil	15.6	32.0	0.82	275.5	0.060	3	2.55	0.011	0.13	<0.1	3.2	0.14	0.08	43	0.3	0.05	8.3	5.68	<0.1	0.02
R11-778	Soil	16.1	13.5	1.50	291.5	0.023	3	2.93	0.008	0.12	<0.1	6.3	0.13	0.06	37	2.6	0.08	8.5	5.30	<0.1	0.03
R11-779	Soil	19.6	37.2	0.96	255.2	0.109	3	1.83	0.011	0.11	0.1	5.2	0.07	<0.02	32	0.1	0.02	6.3	2.37	<0.1	0.10
R11-780	Soil	8.9	20.3	0.44	654.4	0.013	2	1.64	0.008	0.09	<0.1	0.9	0.13	0.20	46	0.7	0.04	6.4	2.61	<0.1	0.03
R11-781	Soil	18.1	39.0	1.05	273.1	0.098	3	1.89	0.011	0.07	0.1	4.2	0.07	<0.02	44	0.2	0.05	6.1	1.56	0.1	0.10
R11-782	Soil	12.7	19.4	0.79	495.5	0.017	3	2.12	0.006	0.09	<0.1	2.5	0.11	0.13	43	0.5	0.03	6.2	1.35	<0.1	0.10
R11-783	Soil	19.0	37.5	1.08	326.1	0.109	4	2.16	0.012	0.09	0.1	4.6	0.07	<0.02	29	0.2	0.03	6.7	2.41	<0.1	0.09
R11-784	Soil	23.7	35.1	0.87	433.1	0.077	4	2.53	0.014	0.09	<0.1	3.4	0.08	0.15	46	0.3	0.04	9.0	2.08	<0.1	0.11
R11-785	Soil	20.7	29.8	1.00	274.9	0.111	3	2.08	0.013	0.10	0.1	4.6	0.08	<0.02	34	0.2	0.03	6.4	2.74	<0.1	0.09
R11-786	Soil	25.0	23.0	1.07	786.8	0.034	4	2.10	0.008	0.11	0.1	4.1	0.07	0.10	48	0.2	0.02	6.1	1.10	<0.1	0.16
R11-787	Soil	13.4	30.3	0.94	176.6	0.090	4	2.19	0.009	0.13	0.1	4.2	0.10	0.04	35	0.2	0.02	6.6	2.65	<0.1	0.06
R11-788	Soil	18.0	30.6	0.67	572.3	0.043	3	2.11	0.007	0.12	<0.1	2.2	0.07	0.16	50	0.3	0.04	7.3	2.62	<0.1	0.08
R11-789	Soil	37.0	24.5	0.44	330.6	0.029	4	2.31	0.011	0.07	0.1	1.1	0.14	0.28	65	0.5	0.02	8.1	2.68	<0.1	0.07
R11-790	Soil	19.8	35.6	1.06	920.7	0.037	3	2.54	0.006	0.13	<0.1	5.5	0.09	0.05	45	0.2	0.03	6.4	4.59	<0.1	0.14

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
R11-761	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-762	Soil			2.63	6.5	0.5	<0.05	4.3	23.56	13.2	0.03	2	0.6	3.9	<10	<2
R11-763	Soil			2.26	8.2	0.7	<0.05	4.5	13.94	40.4	0.04	<1	0.9	21.1	<10	<2
R11-764	Soil			2.69	5.6	0.9	<0.05	0.9	28.09	31.2	0.03	<1	1.1	7.5	<10	<2
R11-765	Soil			1.71	10.5	0.6	<0.05	1.2	6.77	45.0	0.04	<1	0.7	22.2	<10	<2
R11-766	Soil			1.49	7.5	0.8	<0.05	0.3	7.71	11.2	0.03	3	0.6	3.1	<10	<2
R11-767	Soil			8.95	9.5	2.3	<0.05	18.0	8.66	32.9	0.05	<1	1.1	14.6	<10	<2
R11-768	Soil			1.37	29.7	0.4	<0.05	2.2	15.74	11.9	0.03	2	0.6	8.4	<10	<2
R11-769	Soil			10.52	10.4	2.7	<0.05	19.0	9.07	35.1	0.05	<1	1.0	11.2	<10	<2
R11-770	Soil			1.82	20.4	0.6	<0.05	1.5	36.13	18.8	0.02	1	0.7	5.9	<10	<2
R11-771	Soil			11.19	9.9	2.5	<0.05	17.9	13.51	47.3	0.06	<1	2.0	14.3	<10	<2
R11-772	Soil			3.44	15.7	0.9	<0.05	4.5	27.60	29.1	0.04	<1	1.1	23.8	<10	3
R11-773	Soil			4.17	8.9	1.1	<0.05	9.1	9.61	37.9	0.03	<1	1.2	15.6	<10	<2
R11-774	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
R11-775	Soil			6.55	18.5	1.5	<0.05	7.3	16.05	37.0	0.05	<1	1.4	17.8	<10	<2
R11-776	Soil			4.86	5.9	1.2	<0.05	2.4	10.17	14.8	0.03	<1	0.5	1.8	<10	<2
R11-777	Soil			2.23	21.0	1.3	<0.05	2.2	11.77	29.0	0.04	<1	1.3	18.6	<10	<2
R11-778	Soil			1.86	11.3	0.8	<0.05	1.7	15.50	29.9	0.10	4	1.1	24.1	<10	<2
R11-779	Soil			0.69	7.1	0.7	<0.05	6.9	15.36	38.3	0.04	<1	1.1	17.5	<10	<2
R11-780	Soil			2.07	10.4	1.1	<0.05	1.1	7.74	13.9	0.03	2	0.5	6.8	<10	<2
R11-781	Soil			1.44	6.0	0.9	0.08	6.8	13.18	32.8	0.11	<1	1.2	21.1	<10	<2
R11-782	Soil			2.54	10.2	0.7	<0.05	3.8	8.98	24.1	0.04	<1	0.7	17.8	<10	<2
R11-783	Soil			1.24	8.4	1.0	<0.05	6.7	13.95	35.7	0.04	<1	1.0	22.5	<10	<2
R11-784	Soil			7.36	8.6	1.5	<0.05	7.5	19.71	43.8	0.05	<1	1.6	16.6	<10	<2
R11-785	Soil			1.53	8.6	1.1	<0.05	7.7	14.99	43.8	0.03	<1	1.3	21.3	<10	<2
R11-786	Soil			3.28	8.4	0.8	<0.05	6.9	19.75	44.2	0.04	<1	1.0	22.2	<10	<2
R11-787	Soil			2.33	11.9	1.0	<0.05	5.7	8.47	35.9	0.04	<1	1.0	19.3	<10	<2
R11-788	Soil			4.33	10.0	1.1	<0.05	3.8	12.84	40.0	0.04	<1	1.1	16.1	<10	<2
R11-789	Soil			4.59	9.3	1.4	<0.05	4.0	27.60	65.2	0.04	<1	1.9	12.5	<10	<2
R11-790	Soil			2.24	12.6	0.7	<0.05	5.4	13.84	53.0	0.04	<1	0.9	25.1	<10	<2

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

Page: 5 of 12 Part 1

CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-791	Soil			1.01	19.05	19.71	100.1	89	23.2	9.6	1194	3.38	5.2	1.1	0.7	0.6	36.7	0.46	0.54	0.20	52	0.65	0.192
R11-792	Soil			0.81	22.06	9.41	91.8	118	17.2	7.0	1303	2.19	3.9	0.8	2.3	0.5	49.4	0.54	0.59	0.13	40	1.19	0.207
R11-793	Soil			0.39	10.74	4.38	46.5	61	8.6	3.5	640	1.06	1.9	0.4	1.1	0.2	24.4	0.27	0.31	0.05	19	0.58	0.099
R11-794	Soil			1.90	16.88	9.66	46.5	136	12.5	6.9	1086	2.73	2.9	1.1	1.0	0.2	35.2	0.24	0.42	0.16	48	0.55	0.398
R11-795	Soil			0.79	24.83	19.63	105.1	100	46.6	13.3	770	3.77	6.0	1.0	0.6	1.9	32.4	0.40	0.73	0.10	68	0.53	0.110
R11-796	Soil			0.98	17.61	8.18	108.9	49	38.2	15.1	1281	3.84	4.0	0.8	1.0	0.8	20.7	0.22	0.58	0.11	70	0.41	0.156
R11-797	Soil			1.09	24.32	17.84	127.2	98	44.2	14.1	926	4.12	5.3	1.2	0.4	1.9	29.3	0.44	0.55	0.12	71	0.44	0.150
R11-798	Soil			1.02	15.73	4.10	42.3	191	8.7	3.0	279	1.20	2.1	0.5	0.6	<0.1	37.0	0.58	0.39	0.14	23	0.90	0.281
R11-799	Soil			0.69	18.87	14.81	91.2	90	23.0	8.6	640	3.24	4.5	1.0	0.9	1.3	28.6	0.26	0.59	0.11	67	0.36	0.121
R11-800	Soil			1.65	26.44	9.85	52.5	245	15.2	12.1	2022	2.52	3.8	1.0	1.5	0.2	38.8	0.12	0.44	0.15	49	0.82	0.373
R11-801	Soil			1.84	27.29	21.06	119.6	135	41.3	12.8	744	4.48	6.7	1.7	0.7	2.8	18.3	0.23	0.55	0.22	73	0.23	0.140
R11-802	Soil			1.93	35.37	10.52	61.5	127	11.1	7.1	838	2.96	4.8	0.9	1.2	<0.1	14.9	0.11	0.48	0.19	67	0.20	0.220
R11-803	Soil			1.62	29.34	22.06	116.9	231	37.9	13.0	794	4.23	6.9	1.9	0.6	1.5	16.3	0.22	0.58	0.21	78	0.21	0.141
R11-804	Soil			2.09	57.29	12.38	79.8	135	17.9	11.2	1407	3.38	6.9	0.9	4.6	0.3	32.9	0.22	0.54	0.20	64	0.78	0.308
R11-805	Soil			0.86	14.00	96.09	361.9	51	7.9	9.7	1444	3.68	4.9	1.1	0.7	1.1	68.0	1.78	1.28	0.15	78	0.54	0.107
R11-806	Soil			5.75	191.7	8.43	48.0	446	8.0	12.6	2737	2.64	13.5	0.6	19.5	<0.1	37.9	0.53	0.54	0.24	36	0.79	0.301
R11-808	Soil			49.38	442.1	55.99	122.1	327	9.6	28.3	1983	11.69	94.2	0.6	38.8	0.7	12.3	0.42	1.30	0.36	66	0.10	0.241
R11-810	Soil			9.77	373.4	44.36	126.7	304	15.3	31.7	1730	9.74	53.3	0.7	43.7	0.9	14.7	0.43	1.08	0.59	80	0.22	0.225
R11-812	Soil			3.71	235.6	27.90	158.2	155	21.5	26.1	1386	7.75	48.4	0.6	15.7	0.9	12.8	0.56	0.70	0.34	92	0.24	0.192
R11-814	Soil			2.42	80.08	10.12	64.8	175	27.6	12.4	1230	4.21	8.3	0.7	2.6	0.4	17.9	0.11	0.36	0.16	78	0.26	0.133
R11-816	Soil			2.46	123.0	12.15	48.8	409	10.0	7.0	987	2.55	7.3	1.0	4.7	0.1	39.4	0.24	0.34	0.19	40	0.84	0.347
R11-818	Soil			1.70	26.42	8.99	67.5	113	20.1	7.4	705	4.00	5.0	1.1	1.5	0.3	13.8	0.19	0.35	0.35	62	0.21	0.133
R11-820	Soil			1.35	106.1	12.77	66.5	292	24.7	8.6	554	3.04	7.1	1.0	3.3	0.3	34.7	0.14	0.45	0.19	65	1.12	0.218
R11-822	Soil			1.29	122.8	5.93	30.3	402	10.2	5.8	1002	1.19	2.7	0.5	5.0	<0.1	57.1	0.40	0.43	0.17	23	2.74	0.208
R11-824	Soil			1.10	92.98	6.24	16.8	471	6.1	7.9	2063	0.98	1.6	0.5	2.2	<0.1	45.4	0.16	0.26	0.11	16	2.40	0.246
R11-826	Soil			2.28	33.07	11.47	39.4	317	9.0	6.1	1174	2.19	4.2	0.6	1.2	<0.1	21.1	0.57	0.33	0.13	49	0.57	0.340
R11-828	Soil			1.58	166.8	16.09	89.4	530	20.3	9.7	1125	2.65	6.1	1.3	9.2	0.2	28.8	0.61	0.49	0.22	50	1.14	0.177
R11-830	Soil			1.37	41.57	23.60	50.5	364	13.6	4.9	472	2.08	3.4	0.5	3.0	<0.1	11.8	0.16	0.43	0.23	50	0.18	0.157
R11-832	Soil			1.85	240.2	220.6	98.6	373	14.2	21.4	1788	5.36	60.2	0.4	12.5	0.4	13.8	0.10	1.11	0.25	70	0.30	0.107
R11-834	Soil			1.26	31.98	49.95	109.8	136	23.0	12.5	1226	3.08	6.2	0.6	1.6	0.2	22.1	0.58	0.66	0.16	58	0.22	0.106

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
R11-791	Soil	21.0	22.6	0.63	247.5	0.068	3	2.20	0.013	0.07	0.1	2.0	0.11	0.16	80	0.3	0.04	9.4	2.84	<0.1	0.20
R11-792	Soil	24.5	18.5	0.47	1065	0.022	6	1.94	0.010	0.16	0.1	4.2	0.10	0.17	187	0.5	<0.02	4.7	7.16	<0.1	0.14
R11-793	Soil	12.2	8.6	0.23	523.4	0.011	2	0.94	0.005	0.08	<0.1	2.0	0.05	0.09	85	0.2	<0.02	2.3	3.52	<0.1	0.09
R11-794	Soil	9.4	20.6	0.22	505.3	0.020	2	1.42	0.009	0.07	0.1	1.1	0.08	0.30	144	0.4	0.03	6.8	1.08	<0.1	0.14
R11-795	Soil	18.2	34.0	1.16	241.2	0.124	3	2.20	0.013	0.08	0.1	3.8	0.09	0.04	36	0.1	0.02	6.9	2.61	<0.1	0.13
R11-796	Soil	20.7	30.3	1.30	483.5	0.061	4	2.35	0.015	0.12	<0.1	4.1	0.08	0.08	50	0.2	0.02	7.5	3.52	<0.1	0.04
R11-797	Soil	21.3	34.2	1.06	222.7	0.165	3	2.56	0.025	0.08	0.1	3.5	0.09	0.07	38	0.3	0.02	9.6	3.21	<0.1	0.17
R11-798	Soil	10.3	12.3	0.24	494.7	0.008	3	0.79	0.012	0.10	<0.1	0.5	0.07	0.27	155	0.5	0.04	2.6	1.68	<0.1	<0.02
R11-799	Soil	19.0	24.6	0.81	196.3	0.071	2	1.97	0.008	0.09	0.1	3.7	0.10	0.05	40	0.2	<0.02	5.9	1.57	<0.1	0.08
R11-800	Soil	29.4	20.8	0.35	795.0	0.020	2	1.88	0.009	0.08	<0.1	1.5	0.12	0.28	149	0.5	0.03	6.4	2.39	<0.1	0.07
R11-801	Soil	27.6	40.2	0.86	143.5	0.197	3	3.40	0.025	0.08	0.1	4.5	0.15	0.07	43	0.4	0.03	13.8	3.69	<0.1	0.33
R11-802	Soil	15.5	18.7	0.42	312.8	0.010	1	1.91	0.005	0.06	<0.1	0.6	0.11	0.21	90	0.4	0.05	8.4	2.14	<0.1	0.04
R11-803	Soil	24.0	37.3	0.88	162.1	0.126	2	3.33	0.016	0.09	0.1	4.2	0.18	0.08	37	0.5	0.05	13.8	5.90	<0.1	0.23
R11-804	Soil	20.2	23.6	0.61	602.8	0.038	3	2.07	0.011	0.11	<0.1	2.1	0.08	0.22	91	0.5	0.05	7.8	2.82	<0.1	0.11
R11-805	Soil	14.8	14.2	0.99	96.2	0.105	2	2.57	0.002	0.06	0.1	2.9	0.15	0.06	199	0.2	0.03	9.4	2.07	<0.1	0.10
R11-806	Soil	16.8	10.6	0.32	675.5	0.011	4	1.31	0.010	0.08	<0.1	1.3	0.12	0.29	210	1.5	0.07	3.6	2.72	<0.1	0.03
R11-808	Soil	14.6	10.6	1.04	254.9	0.011	2	2.21	0.006	0.12	<0.1	5.5	0.48	0.17	114	27.6	0.26	5.3	4.95	<0.1	0.10
R11-810	Soil	11.3	12.7	1.40	243.1	0.021	2	2.33	0.008	0.11	<0.1	6.4	0.14	0.10	71	7.5	0.46	6.5	5.41	<0.1	0.04
R11-812	Soil	13.5	18.8	1.33	452.8	0.016	2	2.55	0.006	0.10	<0.1	6.5	0.12	0.06	39	5.8	0.13	8.3	4.15	<0.1	0.07
R11-814	Soil	10.6	33.1	0.67	227.1	0.097	1	2.36	0.011	0.05	<0.1	2.6	0.14	0.14	62	0.5	0.06	11.1	1.79	<0.1	0.12
R11-816	Soil	18.7	19.1	0.23	299.5	0.020	2	1.71	0.009	0.06	0.1	0.9	0.12	0.33	102	0.9	0.05	8.6	2.58	<0.1	0.08
R11-818	Soil	17.5	29.3	0.42	122.8	0.070	2	2.76	0.016	0.05	0.1	1.6	0.10	0.13	44	0.3	0.04	13.3	2.34	<0.1	0.19
R11-820	Soil	19.0	33.6	0.54	236.9	0.046	3	2.65	0.013	0.06	<0.1	2.7	0.16	0.19	80	0.7	0.03	10.0	2.67	<0.1	0.11
R11-822	Soil	8.4	12.3	0.22	128.0	0.023	6	0.88	0.016	0.05	<0.1	1.1	0.11	0.32	134	1.0	<0.02	2.8	0.99	<0.1	0.11
R11-824	Soil	9.5	9.0	0.11	198.3	0.019	4	0.82	0.010	0.04	<0.1	0.8	0.16	0.31	131	0.6	0.03	2.7	0.90	<0.1	0.07
R11-826	Soil	5.6	17.7	0.15	198.6	0.009	1	1.36	0.008	0.06	0.1	0.5	0.12	0.32	76	0.5	0.03	5.9	1.43	<0.1	0.04
R11-828	Soil	28.4	21.6	0.49	317.3	0.041	3	1.86	0.016	0.05	<0.1	2.1	0.10	0.21	148	1.4	0.03	5.6	2.68	<0.1	0.13
R11-830	Soil	6.2	22.7	0.31	117.5	0.023	1	1.28	0.010	0.06	<0.1	0.7	0.13	0.16	73	0.4	<0.02	6.1	3.12	<0.1	<0.02
R11-832	Soil	8.4	12.5	0.80	149.2	0.025	2	2.12	0.006	0.11	0.2	3.4	0.19	0.07	35	1.0	0.14	5.3	6.17	<0.1	<0.02
R11-834	Soil	10.0	24.1	0.60	177.4	0.082	2	1.61	0.009	0.06	<0.1	1.7	0.08	0.12	99	0.3	0.04	5.6	1.62	<0.1	0.06

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
R11-791	Soil	11.04	12.3	2.3	<0.05	11.3	15.25	53.4	0.05	<1	1.8	14.1	<10	<2
R11-792	Soil	3.57	17.8	0.7	<0.05	6.7	19.42	47.5	0.04	1	1.4	13.0	<10	<2
R11-793	Soil	1.72	8.7	0.3	<0.05	3.3	9.41	23.8	<0.02	<1	0.6	6.5	<10	<2
R11-794	Soil	7.21	7.2	1.4	0.05	5.7	6.67	19.9	0.05	<1	0.9	4.9	<10	<2
R11-795	Soil	2.96	11.0	1.1	<0.05	8.8	12.72	40.6	0.03	<1	1.1	21.4	<10	<2
R11-796	Soil	2.73	11.7	1.1	<0.05	2.9	12.93	53.3	0.04	<1	1.2	24.8	<10	<2
R11-797	Soil	4.62	11.0	1.8	<0.05	12.9	14.19	46.0	0.05	<1	1.6	14.9	<10	<2
R11-798	Soil	0.99	7.0	0.4	<0.05	0.7	7.26	16.6	0.02	<1	0.4	4.2	<10	<2
R11-799	Soil	2.33	10.4	0.8	<0.05	5.3	12.30	44.1	0.03	<1	1.0	18.2	<10	<2
R11-800	Soil	3.84	7.6	0.8	<0.05	2.8	19.18	54.1	0.05	<1	1.1	9.5	<10	<2
R11-801	Soil	10.53	12.6	3.0	<0.05	29.0	18.47	62.3	0.07	<1	2.2	18.8	<10	<2
R11-802	Soil	3.78	8.8	1.4	<0.05	2.0	9.45	32.1	0.04	<1	1.0	11.2	<10	<2
R11-803	Soil	10.30	15.2	2.7	<0.05	20.1	17.58	54.0	0.07	<1	1.5	22.3	<10	<2
R11-804	Soil	5.48	10.7	1.2	<0.05	5.0	14.82	54.4	0.06	<1	1.2	14.3	<10	<2
R11-805	Soil	3.56	7.8	1.4	<0.05	6.8	7.46	33.4	0.03	<1	0.6	20.5	<10	<2
R11-806	Soil	1.31	9.6	0.4	<0.05	0.8	16.43	26.1	0.05	<1	0.5	5.6	<10	<2
R11-808	Soil	1.19	8.3	0.4	<0.05	3.2	8.81	27.6	0.07	4	0.6	18.3	<10	<2
R11-810	Soil	1.10	8.6	0.6	<0.05	2.0	10.97	22.7	0.06	2	0.6	22.7	<10	3
R11-812	Soil	1.46	10.1	0.9	<0.05	3.1	12.57	26.8	0.06	1	0.9	25.5	<10	<2
R11-814	Soil	8.53	7.0	1.7	<0.05	8.1	6.35	28.9	0.05	<1	0.9	15.7	<10	<2
R11-816	Soil	9.73	7.9	1.8	<0.05	4.7	20.88	28.6	0.05	<1	0.9	9.1	<10	<2
R11-818	Soil	16.31	7.9	3.4	<0.05	14.0	10.11	42.0	0.07	<1	1.5	11.2	<10	<2
R11-820	Soil	8.09	7.6	1.4	<0.05	7.2	23.06	30.7	0.07	1	1.1	16.3	<10	<2
R11-822	Soil	2.60	5.2	0.4	<0.05	4.5	11.27	11.8	0.02	1	0.6	4.4	<10	<2
R11-824	Soil	2.41	3.3	0.4	<0.05	3.5	11.10	14.4	<0.02	<1	0.5	2.5	<10	<2
R11-826	Soil	3.89	5.7	1.0	<0.05	1.6	4.10	12.2	0.03	<1	0.6	3.3	<10	<2
R11-828	Soil	6.58	7.6	1.3	<0.05	7.5	41.67	29.2	0.06	4	1.1	11.9	14	<2
R11-830	Soil	3.10	7.2	1.1	<0.05	1.4	3.22	12.4	0.03	<1	0.4	5.6	<10	<2
R11-832	Soil	1.33	14.1	0.5	<0.05	0.9	6.85	19.0	0.05	<1	1.0	15.2	<10	<2
R11-834	Soil	3.16	6.3	0.8	<0.05	3.4	6.47	21.0	0.03	<1	0.9	11.1	<10	<2

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-836	Soil			1.14	55.24	19.38	248.3	99	27.8	15.2	1391	3.22	10.2	0.6	2.0	0.8	25.2	0.65	0.82	0.38	55	0.34	0.122
R11-838	Soil			1.45	126.5	43.45	244.4	223	20.4	24.3	1533	3.59	16.1	0.7	3.0	1.0	28.9	0.84	1.13	0.95	56	0.36	0.135
R11-840	Soil			1.71	69.50	35.91	110.1	216	18.4	14.5	1440	3.27	15.1	0.7	4.5	0.1	21.1	0.35	0.87	0.73	55	0.20	0.147
R11-842	Soil			1.62	56.83	40.16	116.0	181	32.5	15.7	1204	3.98	17.9	0.7	2.1	0.5	23.1	0.29	0.82	0.78	67	0.25	0.112
R11-844	Soil			1.11	61.58	45.58	344.1	85	31.3	18.5	1971	3.63	12.1	0.7	2.7	1.9	34.2	1.21	1.06	0.34	62	0.47	0.134
R11-846	Soil			1.45	64.04	109.8	326.8	216	31.6	17.1	2136	4.26	12.2	0.8	3.3	0.6	27.0	0.72	0.92	0.35	76	0.31	0.151
R11-848	Soil			1.31	67.01	54.94	135.9	151	24.8	17.8	1590	3.89	15.1	0.6	3.4	0.4	21.4	0.38	0.73	0.51	68	0.22	0.099
R11-850	Soil			1.25	41.62	32.25	107.0	68	37.5	14.4	1207	3.59	8.2	0.5	2.6	0.7	18.9	0.35	0.65	0.24	65	0.23	0.109
R11-852	Soil			0.87	27.95	62.98	204.6	44	18.0	13.6	1416	2.97	7.5	0.7	2.7	1.6	40.7	0.84	1.10	0.16	54	0.55	0.130
R11-854	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-856	Soil			1.03	42.93	27.76	100.4	133	44.5	13.7	917	3.18	7.2	0.6	1.2	0.7	27.3	0.33	0.82	0.10	61	0.31	0.104
R11-858	Soil			1.28	36.67	45.21	132.5	80	34.9	17.8	1544	3.76	9.2	0.7	2.5	1.1	31.0	0.53	1.02	0.17	70	0.43	0.141
R11-860	Soil			1.41	44.85	42.54	99.5	76	34.4	16.7	1353	3.74	7.2	0.7	1.2	0.7	20.5	0.42	0.71	0.13	64	0.29	0.130
R11-862	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-864	Soil			1.83	55.36	47.77	135.5	227	41.7	18.1	2064	4.22	6.3	0.8	3.6	0.5	16.2	0.44	0.65	0.15	71	0.23	0.162
R11-866	Soil			1.31	38.75	18.03	47.2	317	12.4	5.6	517	2.04	4.1	0.5	1.9	<0.1	23.2	0.21	0.60	0.14	42	0.25	0.167
R11-868	Soil			1.65	68.15	99.24	107.4	389	19.3	10.1	1244	3.49	7.5	0.7	1.6	0.2	36.0	0.41	0.86	0.14	61	0.43	0.181
R11-870	Soil			1.62	85.71	76.55	111.2	291	25.6	18.4	1671	4.02	11.7	0.7	2.8	0.8	33.4	0.60	1.07	0.10	64	0.38	0.137
R11-872	Soil			1.07	597.5	30.81	277.0	191	55.6	13.9	852	3.33	7.7	0.5	2.5	1.5	24.7	1.27	0.88	0.06	59	0.37	0.116
R11-874	Soil			1.19	254.9	48.42	114.9	104	42.6	12.9	1026	3.48	7.9	0.6	2.7	1.2	29.2	0.31	0.91	0.09	65	0.37	0.110
R11-876	Soil			1.28	632.1	101.0	147.8	513	42.0	14.6	1450	3.78	10.1	0.7	3.3	1.3	33.8	0.53	1.21	0.11	69	0.38	0.123
R11-878	Soil			0.99	99.30	78.71	181.9	163	35.8	16.4	2099	3.83	9.3	0.6	2.5	1.5	28.9	0.61	1.23	0.08	71	0.39	0.133
R11-880	Soil			1.66	36.00	107.8	135.8	149	47.8	15.3	990	4.01	7.7	0.7	0.9	1.1	19.0	0.50	0.72	0.15	67	0.25	0.101
R11-882	Soil			1.03	40.57	73.51	153.6	113	46.8	14.2	1211	3.46	9.3	0.5	2.2	1.2	26.8	0.44	1.04	0.09	63	0.35	0.100
R11-884	Soil			1.38	50.27	125.3	190.3	278	43.6	15.0	1357	3.86	9.5	0.6	2.3	1.5	28.4	0.95	1.10	0.11	64	0.38	0.119
R11-886	Soil			2.04	59.15	255.4	308.1	554	31.7	17.7	2248	4.27	14.5	0.9	9.2	0.8	33.5	1.78	1.49	0.20	67	0.39	0.138
R11-888	Soil			1.72	27.32	114.3	116.8	352	13.0	6.3	726	2.83	14.2	0.6	2.5	<0.1	23.1	0.76	1.30	0.19	52	0.21	0.121
R11-890	Soil			1.16	30.04	50.48	120.4	196	45.2	14.2	1173	3.62	7.8	0.6	1.7	1.1	20.9	0.59	0.77	0.10	59	0.31	0.120
R11-892	Soil			1.30	21.91	67.56	109.1	108	22.2	11.6	1316	3.70	13.7	0.7	1.9	0.4	24.1	0.37	0.99	0.14	58	0.26	0.130
R11-892A	Soil			1.57	25.47	62.99	119.9	133	32.0	15.4	1386	3.67	12.2	0.6	1.8	0.6	23.2	0.42	1.00	0.13	64	0.28	0.116

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
R11-836	Soil	9.1	23.7	0.84	111.6	0.103	2	1.63	0.008	0.06	0.2	2.3	0.06	0.06	146	0.3	0.24	5.2	1.72	<0.1	0.06
R11-838	Soil	8.9	19.1	0.88	98.3	0.106	2	1.78	0.008	0.06	0.2	2.9	0.08	0.05	71	1.0	0.61	4.7	2.00	<0.1	0.04
R11-840	Soil	7.7	19.9	0.48	166.4	0.045	1	1.56	0.009	0.05	0.1	1.3	0.09	0.15	85	0.6	0.43	5.4	2.45	<0.1	0.04
R11-842	Soil	8.3	30.0	0.75	184.7	0.119	1	1.83	0.012	0.06	0.1	2.5	0.08	0.11	71	0.6	0.52	6.8	2.01	<0.1	0.08
R11-844	Soil	11.0	24.6	1.04	133.3	0.162	3	1.96	0.008	0.08	0.2	3.3	0.09	0.03	93	0.3	0.21	6.6	2.41	<0.1	0.05
R11-846	Soil	9.0	31.5	1.09	214.3	0.110	2	2.44	0.010	0.12	0.1	3.4	0.13	0.13	162	0.5	0.22	8.6	3.95	<0.1	0.06
R11-848	Soil	8.4	25.1	0.74	210.7	0.094	1	1.92	0.011	0.06	0.1	2.7	0.09	0.11	62	0.5	0.46	6.1	1.60	<0.1	0.06
R11-850	Soil	8.6	33.0	0.79	171.2	0.096	2	1.86	0.011	0.07	0.1	3.1	0.07	0.08	58	0.3	0.13	6.1	1.20	<0.1	0.05
R11-852	Soil	11.0	15.3	1.01	90.9	0.137	2	1.70	0.006	0.05	0.2	3.0	0.06	0.03	85	0.2	0.03	4.6	1.41	<0.1	0.06
R11-854	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-856	Soil	8.9	38.9	0.85	164.9	0.106	3	1.73	0.012	0.07	<0.1	3.4	0.08	0.06	77	0.2	0.05	5.2	1.15	<0.1	0.05
R11-858	Soil	11.8	30.6	1.05	150.8	0.147	3	2.17	0.012	0.08	0.2	3.7	0.15	0.06	67	0.3	0.07	6.5	2.79	<0.1	0.04
R11-860	Soil	12.6	28.4	0.84	135.8	0.153	2	2.21	0.015	0.06	0.1	2.9	0.11	0.11	53	0.3	0.06	6.9	2.41	<0.1	0.08
R11-862	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-864	Soil	11.7	34.2	0.99	198.1	0.109	2	2.88	0.016	0.09	<0.1	3.2	0.20	0.16	90	0.4	<0.02	9.4	3.67	<0.1	0.10
R11-866	Soil	6.9	17.3	0.31	238.9	0.036	2	1.16	0.012	0.06	0.1	1.2	0.11	0.19	158	0.3	0.03	3.8	1.93	<0.1	0.03
R11-868	Soil	11.1	24.2	0.61	396.7	0.068	2	1.95	0.012	0.09	0.1	2.3	0.13	0.20	169	0.4	0.06	6.5	2.55	<0.1	0.07
R11-870	Soil	10.0	23.7	0.81	355.6	0.129	3	1.99	0.013	0.08	0.1	3.1	0.11	0.12	86	0.4	0.11	5.8	2.89	<0.1	0.04
R11-872	Soil	8.6	40.1	1.04	186.5	0.106	2	1.62	0.010	0.06	0.1	3.9	0.05	0.02	58	0.2	0.05	4.6	1.10	<0.1	0.20
R11-874	Soil	8.0	33.5	0.93	190.7	0.131	2	1.87	0.012	0.06	0.1	3.6	0.06	0.04	52	0.2	0.09	5.7	2.87	<0.1	0.08
R11-876	Soil	10.9	33.2	1.02	156.9	0.145	2	2.14	0.010	0.07	0.2	4.1	0.10	0.06	78	0.3	0.15	5.8	3.04	<0.1	0.07
R11-878	Soil	10.7	27.6	1.12	255.1	0.121	2	2.03	0.010	0.08	0.3	4.2	0.09	0.03	40	0.2	0.08	5.5	2.53	<0.1	0.07
R11-880	Soil	12.8	36.1	0.99	138.6	0.159	1	2.42	0.015	0.06	0.1	3.0	0.13	0.08	73	0.4	0.12	8.4	2.09	<0.1	0.13
R11-882	Soil	8.8	34.6	0.95	277.5	0.122	2	1.83	0.010	0.07	0.1	3.5	0.06	0.04	93	0.1	0.10	5.6	2.61	<0.1	0.06
R11-884	Soil	11.8	33.1	1.06	171.9	0.141	3	2.01	0.015	0.08	0.1	3.5	0.09	0.06	73	0.2	0.11	6.2	2.49	<0.1	0.06
R11-886	Soil	17.6	31.1	0.93	281.9	0.108	2	2.48	0.015	0.10	0.1	3.1	0.13	0.11	282	0.2	0.25	8.0	4.85	<0.1	0.06
R11-888	Soil	6.6	19.4	0.36	203.4	0.035	1	1.36	0.009	0.07	0.1	1.1	0.14	0.12	214	0.3	0.25	5.5	2.66	<0.1	<0.02
R11-890	Soil	12.3	31.9	0.95	176.6	0.136	2	2.06	0.016	0.08	0.1	3.1	0.07	0.07	88	0.2	0.09	6.6	2.68	<0.1	0.08
R11-892	Soil	12.3	21.7	0.66	185.3	0.080	2	1.83	0.011	0.08	0.1	1.9	0.08	0.09	69	0.2	0.22	6.8	1.97	<0.1	0.05
R11-892A	Soil	9.9	26.9	0.78	151.5	0.119	2	1.78	0.013	0.08	<0.1	2.4	0.09	0.08	85	0.3	0.13	6.7	2.39	<0.1	0.06

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
R11-836	Soil	2.14	5.8	0.6	<0.05	3.1	5.96	21.5	0.03	1	0.6	14.0	<10	<2
R11-838	Soil	1.26	6.7	0.5	<0.05	1.9	6.24	21.3	<0.02	<1	0.8	14.3	<10	<2
R11-840	Soil	2.53	8.1	0.7	<0.05	2.1	5.37	17.6	0.02	<1	0.8	9.2	<10	<2
R11-842	Soil	4.06	8.0	0.9	<0.05	5.5	5.55	18.8	0.03	<1	0.7	10.9	<10	<2
R11-844	Soil	1.53	7.6	0.7	<0.05	4.9	6.81	26.0	0.03	<1	0.8	17.5	<10	<2
R11-846	Soil	3.39	16.3	0.9	<0.05	4.1	6.69	19.8	0.04	<1	0.9	18.1	<10	<2
R11-848	Soil	2.92	8.5	0.9	<0.05	4.0	6.10	20.0	0.03	<1	0.7	12.2	<10	<2
R11-850	Soil	2.98	6.8	0.7	<0.05	4.3	6.54	20.7	0.03	<1	0.7	13.8	<10	<2
R11-852	Soil	1.06	4.0	0.3	<0.05	3.0	6.76	24.6	<0.02	<1	0.6	18.6	<10	<2
R11-854	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-856	Soil	1.70	6.6	0.5	<0.05	2.5	6.58	19.5	0.02	<1	0.6	14.6	<10	<2
R11-858	Soil	2.11	7.7	0.8	<0.05	3.5	7.82	28.3	0.05	<1	0.9	19.8	<10	3
R11-860	Soil	4.67	7.8	1.0	<0.05	6.8	8.15	27.5	0.03	<1	0.9	12.5	<10	<2
R11-862	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-864	Soil	5.46	12.1	1.3	<0.05	7.7	8.21	25.6	0.04	<1	1.1	14.0	<10	<2
R11-866	Soil	2.34	5.8	0.4	<0.05	1.8	5.41	13.7	<0.02	<1	0.4	5.0	<10	<2
R11-868	Soil	3.96	11.8	0.8	<0.05	3.9	7.14	19.9	0.03	<1	0.8	12.6	<10	<2
R11-870	Soil	2.65	7.8	0.6	<0.05	3.6	5.92	22.6	0.03	<1	0.8	15.9	<10	<2
R11-872	Soil	0.84	3.8	0.4	<0.05	9.8	7.47	18.7	0.02	<1	0.7	15.9	<10	<2
R11-874	Soil	2.71	5.3	0.7	<0.05	5.7	5.92	19.1	0.03	<1	0.7	18.1	<10	<2
R11-876	Soil	2.26	7.8	0.6	<0.05	4.5	8.36	25.1	0.03	<1	0.8	17.5	<10	<2
R11-878	Soil	1.11	8.0	0.5	<0.05	4.3	9.05	23.9	0.02	<1	0.8	19.5	<10	<2
R11-880	Soil	5.36	7.4	1.1	<0.05	11.0	7.99	26.6	0.04	<1	0.9	13.6	<10	<2
R11-882	Soil	2.38	6.0	0.6	<0.05	4.4	6.40	21.7	0.02	1	0.8	17.9	<10	<2
R11-884	Soil	2.36	7.3	0.8	<0.05	4.9	7.63	26.7	0.03	<1	0.9	16.6	<10	<2
R11-886	Soil	3.86	12.7	1.3	<0.05	4.6	12.41	36.9	0.04	<1	1.5	18.3	<10	<2
R11-888	Soil	1.96	10.6	0.7	<0.05	1.1	3.84	13.2	<0.02	<1	0.6	6.2	<10	<2
R11-890	Soil	4.00	7.1	0.9	<0.05	6.4	7.11	28.6	0.03	<1	1.0	14.6	<10	<2
R11-892	Soil	3.30	9.6	1.1	<0.05	3.0	6.62	26.3	0.03	<1	0.8	13.4	<10	<2
R11-892A	Soil	2.85	8.8	0.9	<0.05	3.9	5.72	22.6	0.03	<1	0.7	14.0	<10	<2

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-894	Soil	1.85	38.15	324.7	194.7	3736	35.0	11.0	741	4.27	38.4	0.6	8.0	1.6	42.8	1.47	2.07	0.33	50	0.28	0.105
R11-896	Soil	1.30	22.43	62.61	92.1	229	39.9	12.9	877	3.64	11.1	0.8	1.5	1.2	21.1	0.32	0.75	0.15	57	0.29	0.115
R11-898	Soil	1.72	23.48	60.58	108.5	194	35.9	13.5	1189	3.78	9.4	0.7	2.6	0.6	19.0	0.39	0.76	0.18	61	0.23	0.117
R11-900	Soil	0.90	33.54	72.30	138.4	146	47.3	18.1	1293	3.56	8.4	0.7	1.3	1.7	28.8	0.81	0.81	0.08	65	0.40	0.118
R11-902	Soil	1.10	60.68	72.79	152.2	289	91.0	36.9	1894	5.09	23.2	0.6	3.5	1.4	26.9	1.09	1.04	0.15	112	0.39	0.172
R11-904	Soil	1.02	22.21	28.73	104.3	171	29.3	11.6	1030	3.62	7.9	0.8	1.4	0.7	27.6	0.28	0.73	0.16	65	0.27	0.145
R11-904A	Soil	1.04	20.20	54.09	126.4	42	37.0	11.5	937	3.58	5.6	0.6	1.6	0.4	19.6	0.83	0.81	0.17	63	0.21	0.101
R11-906	Soil	2.01	15.34	13.19	96.9	66	37.6	9.9	594	4.17	4.9	1.1	*	1.6	10.3	0.29	0.38	0.20	50	0.19	0.105
R11-906A	Soil	2.18	42.69	71.42	132.2	692	29.6	12.9	1000	7.99	15.8	0.8	3.5	2.6	33.6	0.45	1.27	0.26	67	0.15	0.181
R11-907	Soil	1.93	26.90	24.23	145.4	168	54.3	18.6	1162	4.91	3.8	2.1	1.0	1.5	16.8	0.70	0.66	0.18	77	0.33	0.086
R11-908	Soil	1.02	20.23	39.04	97.4	166	19.6	10.5	863	3.28	10.2	0.8	0.6	2.3	33.1	0.64	0.97	0.14	47	0.43	0.168
R11-909	Soil	1.94	20.13	41.15	123.8	112	24.0	18.7	1886	4.22	3.1	1.0	0.8	0.3	22.8	0.90	0.60	0.21	79	0.31	0.208
R11-910	Soil	0.85	15.54	25.49	101.9	123	20.5	10.1	893	3.25	6.8	1.0	0.4	1.6	25.5	0.41	0.80	0.13	52	0.38	0.148
R11-911	Soil	2.31	18.38	14.85	94.6	142	19.0	8.5	939	3.44	4.3	1.0	0.9	0.2	14.7	1.03	0.47	0.24	59	0.15	0.148
R11-912	Soil	0.66	24.13	27.00	91.7	100	46.8	14.8	942	3.90	6.1	1.0	1.7	2.6	34.3	0.26	0.69	0.10	63	0.48	0.177
R11-913	Soil	1.48	20.73	16.16	157.7	121	41.9	14.2	1081	3.99	4.8	1.0	7.2	0.7	21.9	1.06	0.55	0.34	72	0.33	0.146
R11-914	Soil	0.95	25.88	32.56	124.4	128	58.6	17.3	1117	4.18	6.5	0.9	2.6	2.0	27.2	0.50	0.74	0.14	66	0.38	0.145
R11-915	Soil	1.80	18.79	25.54	115.6	106	26.8	11.3	1263	4.25	5.4	1.1	2.8	0.6	15.1	1.00	0.48	0.28	61	0.23	0.127
R11-916	Soil	2.74	31.50	90.54	405.6	408	22.3	12.6	2057	3.39	5.8	0.9	1.8	0.6	30.2	2.01	0.80	0.18	55	0.49	0.155
R11-917	Soil	1.64	21.68	30.52	110.8	124	31.5	12.6	1366	3.86	4.2	1.0	0.3	0.7	20.9	0.94	0.51	0.18	64	0.27	0.133
R11-918	Soil	0.97	20.53	42.81	152.5	55	36.8	12.9	988	3.56	5.7	0.8	2.0	1.4	26.0	0.56	0.77	0.12	63	0.34	0.121
R11-919	Soil	1.93	14.97	12.24	80.1	108	21.6	7.7	683	3.63	3.6	1.1	0.3	0.3	13.9	0.35	0.44	0.22	57	0.17	0.102
R11-920	Soil	1.17	45.77	57.45	212.4	112	25.0	14.1	1629	3.84	4.6	0.8	1.1	0.8	43.1	0.84	1.66	0.18	80	0.40	0.136
R11-921	Soil	1.94	23.67	19.75	92.4	41	28.8	9.3	765	4.08	5.2	1.2	*	1.1	12.8	0.29	0.46	0.25	55	0.19	0.105
R11-922	Soil	1.27	28.10	47.56	194.7	91	34.4	14.7	1549	3.86	4.3	0.9	<0.2	1.5	40.7	0.89	0.91	0.17	73	0.46	0.142
R11-923	Soil	1.93	21.07	19.12	98.3	70	30.4	9.6	777	4.03	4.5	1.2	1.2	0.9	13.7	0.34	0.43	0.23	57	0.20	0.110
R11-924	Soil	1.13	27.32	69.67	168.0	63	15.6	12.8	1527	3.87	5.7	1.0	0.7	0.5	36.3	0.59	0.92	0.30	94	0.30	0.099
R11-925	Soil	1.87	23.80	36.19	124.1	203	37.2	12.7	1072	4.26	4.6	1.2	*	1.0	19.4	0.57	0.71	0.23	60	0.29	0.117
R11-926	Soil	1.12	25.98	49.64	122.1	88	21.1	14.6	1361	3.98	4.6	1.0	0.8	0.8	39.2	0.24	0.70	0.13	94	0.38	0.128
R11-927	Soil	2.42	17.02	20.63	89.4	75	25.6	11.8	1261	3.71	3.7	1.0	0.4	0.6	18.8	0.58	0.57	0.34	59	0.23	0.117

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
R11-894	Soil	10.2	29.4	0.76	264.0	0.131	2	1.47	0.011	0.21	0.1	3.8	0.15	0.37	132	0.7	2.50	4.2	1.96	<0.1	0.07
R11-896	Soil	14.3	28.8	0.79	199.7	0.130	2	2.00	0.018	0.09	0.1	2.8	0.09	0.09	58	0.3	0.15	6.9	1.89	<0.1	0.10
R11-898	Soil	11.6	32.0	0.77	144.5	0.129	<1	1.51	0.019	0.09	0.1	2.2	0.07	0.13	77	0.3	0.16	8.4	2.32	<0.1	0.12
R11-900	Soil	14.2	56.9	1.30	186.8	0.122	1	1.72	0.011	0.07	0.1	4.1	0.06	0.03	56	0.1	0.09	5.0	1.66	<0.1	0.08
R11-902	Soil	12.4	199.5	2.81	123.8	0.098	3	2.61	0.002	0.05	0.1	8.3	0.06	<0.02	74	0.2	0.19	7.3	1.17	<0.1	0.08
R11-904	Soil	14.6	36.7	0.87	292.9	0.069	2	2.07	0.006	0.10	0.1	2.8	0.09	0.09	75	0.2	0.08	6.7	2.29	<0.1	0.06
R11-904A	Soil	11.1	33.7	0.87	164.0	0.055	2	2.08	0.005	0.07	0.1	2.1	0.13	0.06	48	0.2	0.04	7.1	2.86	<0.1	0.03
R11-906	Soil	23.5	29.8	0.68	128.7	0.156	1	3.12	0.024	0.05	0.2	2.4	0.12	0.09	51	0.4	<0.02	14.1	1.72	<0.1	0.42
R11-906A	Soil	22.8	34.7	0.89	199.7	0.100	1	1.72	0.023	0.17	0.1	4.8	0.17	0.29	103	0.5	0.36	7.2	4.02	<0.1	0.08
R11-907	Soil	24.4	39.8	1.35	162.7	0.221	1	2.24	0.015	0.05	0.1	2.8	0.10	0.10	64	0.2	0.02	13.6	2.00	<0.1	0.45
R11-908	Soil	17.3	16.5	0.73	202.8	0.092	1	1.12	0.008	0.08	0.2	2.6	0.05	0.05	92	0.2	0.07	3.2	1.18	<0.1	0.09
R11-909	Soil	10.0	38.2	0.64	202.7	0.115	2	1.85	0.008	0.05	<0.1	1.6	0.11	0.24	44	0.3	0.02	11.7	2.07	<0.1	0.15
R11-910	Soil	14.6	16.1	0.70	194.6	0.120	1	1.32	0.009	0.08	0.2	2.3	0.06	0.06	74	0.2	0.03	4.6	1.89	<0.1	0.10
R11-911	Soil	11.6	23.7	0.35	154.7	0.070	<1	2.05	0.014	0.05	0.1	1.0	0.12	0.17	61	0.3	0.04	11.3	1.95	<0.1	0.16
R11-912	Soil	19.5	32.1	1.06	356.3	0.194	2	2.02	0.012	0.09	0.2	4.0	0.06	0.03	36	0.2	0.03	5.9	1.70	<0.1	0.15
R11-913	Soil	14.5	34.5	0.93	148.0	0.145	2	2.48	0.013	0.05	0.1	2.7	0.10	0.10	53	0.4	0.02	11.1	1.65	<0.1	0.19
R11-914	Soil	12.6	39.9	1.27	215.0	0.245	2	2.04	0.014	0.09	0.2	3.6	0.09	0.07	98	0.2	0.08	6.5	2.27	<0.1	0.16
R11-915	Soil	16.9	27.2	0.61	139.7	0.114	1	2.68	0.021	0.05	0.2	1.8	0.12	0.14	68	0.3	<0.02	15.5	1.63	<0.1	0.28
R11-916	Soil	11.2	22.4	0.79	236.2	0.058	2	2.31	0.007	0.11	0.1	2.7	0.20	0.13	131	0.6	0.05	7.8	6.67	<0.1	0.08
R11-917	Soil	15.1	27.5	0.73	170.8	0.134	2	2.28	0.026	0.06	0.1	2.0	0.08	0.13	50	0.3	0.04	10.8	2.43	<0.1	0.22
R11-918	Soil	12.9	29.6	0.95	158.0	0.136	2	2.20	0.011	0.06	0.1	3.0	0.07	0.06	71	0.3	0.03	7.2	1.67	<0.1	0.13
R11-919	Soil	16.1	23.6	0.39	119.1	0.103	<1	2.43	0.022	0.05	0.2	1.5	0.12	0.14	60	0.4	0.02	13.1	1.73	<0.1	0.31
R11-920	Soil	12.9	23.7	1.03	113.3	0.154	2	2.08	0.010	0.07	0.1	3.0	0.09	0.11	110	0.3	<0.02	9.2	2.10	<0.1	0.11
R11-921	Soil	20.6	24.7	0.63	102.7	0.136	1	3.22	0.029	0.06	0.2	2.0	0.13	0.10	57	0.4	<0.02	13.4	1.90	<0.1	0.53
R11-922	Soil	14.1	25.0	1.10	178.9	0.189	2	2.43	0.018	0.07	0.2	3.1	0.08	0.09	108	0.4	0.06	9.0	2.27	<0.1	0.14
R11-923	Soil	18.0	25.9	0.63	104.9	0.145	1	2.75	0.027	0.05	0.2	1.9	0.10	0.12	64	0.4	0.02	14.2	1.62	<0.1	0.38
R11-924	Soil	10.1	19.8	1.04	91.9	0.118	<1	2.08	0.004	0.04	0.1	2.5	0.09	0.09	99	0.2	0.05	9.3	1.59	<0.1	0.12
R11-925	Soil	19.8	31.1	0.77	163.7	0.163	<1	2.83	0.031	0.05	0.2	2.3	0.10	0.12	90	0.4	0.03	14.6	1.95	<0.1	0.39
R11-926	Soil	12.7	23.4	1.12	99.9	0.188	1	2.16	0.010	0.05	0.2	3.0	0.07	0.10	73	0.3	<0.02	9.9	1.95	<0.1	0.17
R11-927	Soil	14.8	22.2	0.49	173.1	0.118	<1	2.20	0.025	0.05	0.2	1.8	0.12	0.13	57	0.4	0.05	12.6	1.57	<0.1	0.27

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
R11-894	Soil			0.78	7.4	0.4	<0.05	4.1	7.92	19.0	0.03	1	0.5	13.6	<10	<2
R11-896	Soil			4.89	8.1	1.2	<0.05	7.1	8.47	32.9	0.03	<1	1.0	14.0	<10	<2
R11-898	Soil			6.25	10.0	1.8	<0.05	9.2	6.65	25.1	0.03	<1	0.8	10.5	<10	<2
R11-900	Soil			1.25	5.3	0.5	<0.05	4.6	8.76	31.9	0.03	<1	0.7	18.0	<10	<2
R11-902	Soil			0.72	3.3	0.3	<0.05	5.5	10.16	26.8	0.04	<1	0.8	45.9	<10	<2
R11-904	Soil			3.16	10.3	0.9	<0.05	3.9	9.25	33.7	0.04	<1	1.0	20.6	<10	<2
R11-904A	Soil			2.54	8.3	0.9	<0.05	2.4	5.28	27.3	0.04	<1	0.8	21.3	<10	<2
R11-906	Soil			16.99	6.7	3.3	0.11	33.4	12.29	56.2	0.07	<1	1.8	12.5	31	<2
R11-906A	Soil			1.74	11.7	0.7	<0.05	6.0	6.10	43.2	0.05	<1	0.8	19.1	<10	<2
R11-907	Soil			13.32	7.5	3.1	<0.05	31.0	18.74	47.4	0.07	<1	1.6	15.4	<10	<2
R11-908	Soil			0.78	3.8	0.3	<0.05	5.4	9.60	35.2	0.02	<1	0.6	12.8	<10	<2
R11-909	Soil			8.58	9.3	2.3	<0.05	9.8	5.93	23.6	0.05	<1	1.0	9.0	<10	<2
R11-910	Soil			2.59	6.6	0.7	<0.05	5.1	8.08	32.3	0.02	<1	0.9	12.6	<10	<2
R11-911	Soil			11.71	9.2	2.6	<0.05	11.4	7.20	26.9	0.04	<1	1.3	7.5	<10	<2
R11-912	Soil			2.19	6.2	0.7	<0.05	10.4	12.56	44.4	0.03	<1	1.2	17.2	<10	<2
R11-913	Soil			8.34	6.1	1.8	<0.05	14.9	8.77	37.1	0.05	<1	1.3	19.0	<10	<2
R11-914	Soil			3.48	7.6	0.9	<0.05	11.3	7.88	30.8	0.03	<1	1.0	16.8	<10	<2
R11-915	Soil			19.14	6.8	3.7	0.09	22.2	8.72	41.5	0.07	<1	1.5	12.3	<10	<2
R11-916	Soil			3.90	20.5	1.2	<0.05	5.0	7.48	25.2	0.04	<1	1.0	24.1	<10	<2
R11-917	Soil			10.57	10.9	2.5	0.07	15.8	8.78	35.4	0.05	<1	1.5	12.4	<10	<2
R11-918	Soil			4.34	6.0	1.0	<0.05	9.2	7.78	33.1	0.03	<1	0.8	20.3	<10	<2
R11-919	Soil			15.92	6.7	3.3	0.08	22.1	9.07	37.3	0.06	<1	1.5	8.5	<10	<2
R11-920	Soil			4.61	9.3	1.3	<0.05	7.8	7.84	32.0	0.04	<1	0.9	19.9	<10	<2
R11-921	Soil			19.20	8.4	3.4	0.11	36.0	11.78	50.8	0.06	<1	1.8	12.5	<10	<2
R11-922	Soil			5.41	9.0	1.4	0.05	10.9	8.35	33.6	0.04	<1	0.9	17.9	<10	<2
R11-923	Soil			17.88	7.7	3.2	0.07	29.7	9.83	42.2	0.06	<1	1.6	11.1	<10	<2
R11-924	Soil			4.04	8.1	1.0	<0.05	7.4	5.84	24.6	0.03	<1	0.9	23.4	<10	<2
R11-925	Soil			18.27	7.5	3.2	0.12	30.5	10.25	49.5	0.07	<1	1.6	15.4	<10	<2
R11-926	Soil			5.25	8.2	1.3	<0.05	10.6	7.81	30.6	0.04	<1	0.9	21.4	<10	<2
R11-927	Soil			15.42	7.3	3.1	0.09	19.9	8.27	34.2	0.06	<1	1.4	10.5	<10	<2

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-928	Soil			1.02	88.90	58.24	257.9	392	33.7	17.4	1875	4.52	5.6	1.3	1.5	2.5	43.7	0.84	1.03	0.18	87	0.51	0.119
R11-929	Soil			1.92	23.22	20.53	123.1	77	40.7	16.4	1465	4.47	4.4	1.1	0.4	1.3	19.2	0.57	0.51	0.27	78	0.29	0.120
R11-930	Soil			0.32	33.15	46.46	190.4	75	13.7	13.4	1566	3.26	6.0	1.0	0.5	2.5	77.7	0.76	1.03	0.11	87	0.88	0.171
R11-931	Soil			0.97	16.30	35.07	160.3	120	15.9	10.1	1423	3.04	5.1	0.9	2.1	0.3	37.4	0.61	0.83	0.15	63	0.39	0.150
R11-932	Soil			0.86	26.87	41.68	145.7	107	29.9	15.5	1558	3.67	5.1	0.8	0.7	1.4	44.3	0.45	0.81	0.15	86	0.45	0.110
R11-933	Soil			1.05	32.45	39.92	166.2	94	25.2	14.8	1830	3.53	3.3	0.8	3.6	0.4	33.6	0.76	0.62	0.18	77	0.36	0.147
R11-934	Soil			1.32	51.02	21.86	142.8	102	32.1	13.2	1089	3.53	11.5	0.8	1.7	0.6	30.4	0.38	0.87	0.52	67	0.31	0.122
R11-934A	Soil			1.11	60.43	40.81	205.7	583	53.1	22.2	1674	5.11	4.9	1.4	1.0	2.6	32.0	0.74	0.80	0.24	93	0.44	0.102
R11-935	Soil			1.23	36.05	29.45	110.6	102	52.8	15.0	1109	4.34	5.2	0.8	1.4	1.0	22.5	0.29	0.53	0.17	80	0.31	0.116
R11-936	Soil			0.90	34.47	42.07	195.1	103	42.9	15.7	1325	3.92	5.2	0.8	1.2	1.6	34.7	0.63	0.75	0.16	69	0.48	0.143
R11-937	Soil			1.63	32.78	30.27	115.1	75	32.5	14.6	1525	4.03	6.0	0.8	3.3	0.4	15.5	0.33	0.55	0.28	82	0.20	0.144
R11-938	Soil			0.66	51.61	44.54	168.2	196	31.1	15.1	1461	3.49	5.9	0.7	3.0	1.0	24.4	0.91	0.58	0.23	68	0.39	0.156
R11-939	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-941	Soil			0.89	58.31	23.98	116.0	102	50.4	17.5	1271	4.35	8.2	0.6	3.1	0.5	14.3	0.26	0.52	0.30	80	0.24	0.157
R11-943	Soil			0.65	94.83	36.73	132.9	79	39.8	24.6	1748	4.74	13.0	0.5	3.6	1.4	14.6	0.44	0.65	0.45	88	0.32	0.188
R11-945	Soil			1.48	45.27	18.11	98.1	100	54.5	22.0	1136	4.74	7.3	0.8	*	1.5	11.7	0.31	0.38	0.20	70	0.26	0.125
R11-947	Soil			1.25	90.45	29.04	116.3	135	35.0	19.8	1615	4.62	13.9	0.5	3.0	0.5	15.0	0.25	0.59	0.44	83	0.25	0.142
R11-949	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-951	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-953	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-955	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-957	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-959	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-961	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-963	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-965	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-967	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-969	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-971	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-973	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
R11-928	Soil	22.4	24.5	1.65	128.0	0.208	1	2.86	0.028	0.09	0.3	4.3	0.11	0.05	111	0.3	0.03	10.9	3.15	<0.1	0.18
R11-929	Soil	19.4	35.2	0.84	164.7	0.233	<1	3.08	0.024	0.05	0.2	2.8	0.10	0.12	63	0.4	0.02	14.4	1.54	<0.1	0.33
R11-930	Soil	16.5	15.4	1.58	79.8	0.150	3	2.26	0.003	0.05	0.3	5.2	0.04	<0.02	35	0.1	<0.02	7.7	1.55	<0.1	0.12
R11-931	Soil	11.9	17.8	0.67	174.7	0.082	1	1.82	0.006	0.05	0.1	1.8	0.10	0.11	78	0.3	0.05	6.7	1.73	<0.1	0.08
R11-932	Soil	12.5	28.5	1.40	117.9	0.167	2	2.25	0.009	0.05	0.2	3.9	0.07	0.06	46	0.2	<0.02	8.3	1.53	<0.1	0.13
R11-933	Soil	10.1	21.6	0.91	233.2	0.111	1	2.14	0.005	0.06	0.1	2.4	0.08	0.11	48	0.2	0.04	8.0	2.27	<0.1	0.07
R11-934	Soil	10.4	30.8	0.79	164.8	0.104	2	1.89	0.005	0.08	0.2	2.8	0.09	0.08	70	0.4	0.20	6.5	2.29	<0.1	0.06
R11-934A	Soil	26.1	41.6	1.93	155.1	0.262	1	3.46	0.030	0.07	0.1	5.1	0.12	0.06	101	0.2	0.05	12.4	2.88	<0.1	0.29
R11-935	Soil	12.8	37.1	1.13	226.7	0.185	1	2.39	0.014	0.06	0.1	3.3	0.08	0.09	74	0.3	0.04	11.0	2.02	<0.1	0.20
R11-936	Soil	17.7	27.6	1.17	246.8	0.164	2	2.39	0.014	0.06	0.1	3.4	0.07	0.06	73	0.2	0.03	9.1	1.98	<0.1	0.13
R11-937	Soil	9.9	28.1	0.84	231.9	0.084	3	2.09	0.008	0.05	0.1	2.1	0.10	0.07	49	0.2	0.08	9.3	1.58	<0.1	0.08
R11-938	Soil	14.5	19.3	1.19	295.9	0.102	2	2.16	0.007	0.04	0.1	3.1	0.08	0.05	68	0.2	0.05	6.7	1.36	<0.1	0.08
R11-939	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-941	Soil	10.0	31.2	1.26	333.7	0.082	3	2.51	0.006	0.07	0.1	3.0	0.08	0.07	65	0.3	0.14	7.4	1.95	<0.1	0.06
R11-943	Soil	8.9	22.2	1.54	504.5	0.096	2	3.05	0.002	0.04	0.2	4.4	0.07	0.03	49	0.5	0.30	7.1	1.84	<0.1	0.10
R11-945	Soil	13.8	35.3	1.15	133.4	0.247	2	2.56	0.021	0.04	0.2	3.1	0.07	0.10	91	0.5	0.08	11.0	1.07	<0.1	0.47
R11-947	Soil	9.6	24.9	1.13	164.7	0.103	2	2.39	0.010	0.05	0.2	3.0	0.09	0.09	61	0.5	0.13	8.5	1.87	<0.1	0.09
R11-949	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-951	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-953	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-955	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-957	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-959	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-961	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-963	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-965	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-967	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-969	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-971	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-973	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

Page: 8 of 12 Part 3

CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
R11-928	Soil	5.09	11.6	1.7	<0.05	15.5	15.20	47.6	0.05	<1	1.6	27.9	<10	<2
R11-929	Soil	13.25	8.2	2.7	0.08	27.6	11.83	47.0	0.05	<1	1.3	11.4	<10	<2
R11-930	Soil	0.90	6.0	0.4	<0.05	4.4	9.81	37.4	<0.02	<1	0.7	27.8	<10	<2
R11-931	Soil	3.55	7.1	0.9	<0.05	4.7	7.33	30.9	0.03	<1	0.7	14.8	<10	<2
R11-932	Soil	2.99	6.0	0.9	<0.05	7.3	7.76	28.7	0.03	<1	0.9	24.6	<10	<2
R11-933	Soil	3.66	9.9	1.0	<0.05	5.6	5.70	24.1	0.03	<1	0.7	18.7	<10	<2
R11-934	Soil	2.60	10.0	0.7	<0.05	3.5	6.52	25.3	0.03	<1	0.6	18.6	<10	<2
R11-934A	Soil	6.66	10.4	1.7	<0.05	22.9	21.17	50.3	0.05	<1	1.6	25.0	<10	<2
R11-935	Soil	8.25	7.3	1.7	<0.05	15.1	7.31	31.2	0.05	<1	0.9	20.6	<10	<2
R11-936	Soil	4.24	6.4	1.3	<0.05	9.2	9.77	41.3	0.04	1	0.9	17.8	<10	<2
R11-937	Soil	5.39	8.0	1.5	<0.05	5.7	5.60	22.3	0.06	2	0.7	15.0	<10	<2
R11-938	Soil	2.63	4.9	0.7	<0.05	4.8	8.49	33.5	0.03	1	0.9	18.9	<10	<2
R11-939	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-941	Soil	3.06	6.4	0.8	<0.05	3.8	6.59	22.8	0.04	2	0.7	24.3	<10	<2
R11-943	Soil	2.08	5.3	0.5	<0.05	5.7	5.85	22.0	0.03	2	0.6	31.1	<10	<2
R11-945	Soil	13.59	4.6	1.9	0.16	31.0	8.10	32.5	0.06	1	1.1	11.9	<10	<2
R11-947	Soil	4.53	7.6	1.0	<0.05	6.3	6.72	23.0	0.05	<1	0.8	19.8	<10	<2
R11-949	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-951	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-953	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-955	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-957	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-959	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-961	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-963	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-965	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-967	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-969	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-971	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-973	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-975	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-977	Soil			0.87	33.86	12.85	101.1	87	30.1	15.4	1677	3.49	3.8	0.5	1.7	0.4	23.9	0.16	0.61	0.12	61	0.64	0.149
R11-979	Soil			0.53	21.50	12.75	77.4	97	10.7	9.6	898	3.03	3.0	0.6	1.2	0.6	24.8	0.10	0.75	0.13	54	0.84	0.157
R11-981	Soil			0.61	22.17	9.11	106.8	53	16.2	10.0	730	3.34	3.3	0.6	2.0	0.5	21.1	0.11	0.62	0.10	62	0.63	0.163
R11-983	Soil			0.63	25.07	10.12	102.6	70	23.0	11.3	1524	3.43	3.7	0.9	2.4	1.2	20.2	0.24	0.78	0.09	54	0.60	0.155
R11-985	Soil			1.22	34.49	13.88	102.2	91	31.5	9.2	588	3.66	5.0	0.9	2.0	0.3	15.7	0.14	0.58	0.19	66	0.32	0.162
R11-987	Soil			2.07	75.36	11.44	97.9	69	43.2	17.7	1152	5.28	10.7	1.0	3.2	0.7	14.6	0.10	0.46	0.16	88	0.31	0.104
R11-989	Soil			2.34	98.35	8.39	44.8	222	9.2	12.6	2501	1.86	5.8	0.5	5.8	0.2	43.8	0.31	0.45	0.15	29	1.32	0.303
R11-991	Soil			1.89	47.13	6.36	36.3	253	7.5	3.6	414	1.77	4.5	0.7	3.6	<0.1	23.3	0.47	0.42	0.16	36	0.69	0.388
R11-993	Soil			4.92	105.6	337.7	30.6	1035	1.5	2.5	223	5.78	24.1	0.1	104.8	0.1	22.7	0.05	1.30	2.04	34	0.06	0.090
R11-995	Soil			2.68	50.85	11.43	88.2	104	14.1	13.2	1604	5.10	8.1	0.7	2.6	0.2	14.7	0.27	0.41	0.24	88	0.22	0.129
R11-997	Soil			6.54	333.9	19.58	108.7	149	25.0	15.3	777	6.19	33.4	0.9	20.4	0.9	12.0	0.16	0.65	0.41	81	0.27	0.137
R11-999	Soil			14.64	511.7	29.35	88.3	383	7.6	13.2	764	7.88	74.3	0.6	46.1	0.2	9.7	0.25	1.07	0.63	75	0.17	0.214
R11-1001	Soil			11.84	501.5	29.12	108.6	440	13.4	32.8	2603	7.31	57.7	0.7	42.2	0.4	13.9	0.60	0.91	0.52	76	0.33	0.206
R11-1003	Soil			1.60	120.1	27.40	109.3	90	34.1	18.1	1745	4.97	31.3	0.7	4.3	0.9	11.9	0.16	0.84	0.16	89	0.25	0.118
R11-1005	Soil			1.52	28.07	9.41	87.7	35	41.0	13.9	869	4.59	4.8	1.1	*	1.0	13.1	0.30	0.33	0.20	63	0.28	0.138
R11-1007	Soil			1.54	177.4	20.30	131.4	347	43.5	18.2	1392	5.12	16.0	1.3	6.8	2.5	23.1	0.23	0.50	0.15	78	0.67	0.114
R11-1009	Soil			1.69	33.05	13.34	84.4	94	34.2	16.2	1447	5.21	5.3	0.9	*	0.6	14.8	0.14	0.39	0.19	96	0.25	0.107
R11-1011	Soil			1.57	40.46	14.85	88.2	88	41.5	17.5	1267	5.09	5.9	0.7	5.2	0.4	14.1	0.20	0.48	0.25	91	0.26	0.116
R11-1013	Soil			1.61	81.75	23.31	97.3	154	30.4	18.0	1990	4.96	10.5	0.6	3.0	0.2	15.9	0.21	0.45	0.25	88	0.25	0.132
R11-1015	Soil			1.74	34.57	28.93	71.1	112	31.0	11.5	948	5.00	4.0	0.8	*	0.5	9.3	0.17	0.37	0.19	87	0.15	0.088
R11-1017	Soil			1.54	24.91	10.22	94.1	42	77.6	24.5	1115	5.86	2.8	0.6	19.1	0.9	13.6	0.23	0.26	0.12	97	0.29	0.083
R11-1019	Soil			1.46	87.71	8.18	186.0	172	86.3	25.5	987	5.75	5.5	1.1	*	3.3	22.2	2.38	0.34	0.05	74	0.48	0.103
R11-1021	Soil			0.58	28.06	105.4	308.5	96	13.0	14.0	2177	3.72	5.0	0.9	1.0	1.8	42.3	1.18	0.75	0.11	79	0.51	0.102
R11-1023	Soil			1.11	26.01	10.03	99.4	70	59.1	16.5	880	4.38	5.9	0.6	3.4	1.1	9.8	0.27	0.42	0.10	66	0.22	0.089
R11-1025	Soil			0.60	22.11	69.16	232.0	53	25.1	12.7	1587	3.22	5.3	0.8	1.5	2.0	37.5	0.54	0.95	0.08	50	0.52	0.166
R11-1027	Soil			1.56	42.12	14.75	138.2	87	68.6	21.7	1083	5.04	7.2	1.0	*	2.9	14.7	0.23	0.50	0.17	78	0.24	0.132
R11-1029	Soil			1.22	58.90	24.64	136.1	237	61.1	20.1	1370	5.28	8.7	1.4	3.0	3.7	20.2	0.36	0.67	0.20	89	0.37	0.133
R11-1031	Soil			1.50	38.70	16.95	140.5	202	45.1	15.8	1187	4.75	6.7	1.4	*	1.9	23.1	0.31	0.57	0.16	101	0.37	0.115
R11-1033	Soil			1.58	28.29	16.64	102.1	54	38.7	13.0	994	4.52	9.2	1.0	2.0	0.4	17.3	0.33	0.65	0.23	85	0.23	0.112

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
R11-975	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
R11-977	Soil	13.9	26.4	1.01	501.0	0.030	3	2.20	0.007	0.10	<0.1	3.1	0.09	0.09	43	0.2	0.02	6.5	2.09	<0.1	0.09
R11-979	Soil	14.8	11.7	0.75	485.9	0.015	4	1.52	0.008	0.10	<0.1	4.0	0.06	0.08	27	0.1	<0.02	3.8	0.99	<0.1	0.11
R11-981	Soil	15.4	18.4	0.90	474.5	0.021	3	1.84	0.007	0.09	<0.1	3.6	0.07	0.07	28	0.1	<0.02	5.1	1.19	<0.1	0.06
R11-983	Soil	29.0	19.2	0.99	593.5	0.030	2	1.65	0.007	0.11	0.2	4.8	0.06	0.03	24	<0.1	0.03	4.5	2.64	<0.1	0.09
R11-985	Soil	21.1	34.9	0.76	495.2	0.053	3	2.69	0.010	0.05	0.1	2.3	0.11	0.12	55	0.5	0.04	9.4	2.26	<0.1	0.06
R11-987	Soil	15.5	35.5	1.11	304.3	0.153	2	1.90	0.011	0.04	<0.1	2.9	0.07	0.12	35	0.5	0.05	11.0	2.00	<0.1	0.17
R11-989	Soil	21.3	12.9	0.33	626.3	0.015	3	1.05	0.013	0.05	<0.1	0.9	0.10	0.29	108	0.8	0.05	3.3	1.26	<0.1	0.06
R11-991	Soil	8.5	13.3	0.20	301.5	0.005	2	1.00	0.010	0.05	0.1	0.5	0.08	0.31	82	0.5	0.06	3.4	1.59	<0.1	0.02
R11-993	Soil	4.2	3.6	0.34	150.6	0.003	1	0.96	0.008	0.15	<0.1	0.8	0.16	0.34	152	11.8	2.15	2.9	2.23	<0.1	<0.02
R11-995	Soil	11.3	31.1	0.30	191.1	0.108	2	1.82	0.011	0.04	0.1	1.3	0.08	0.19	51	0.6	0.09	13.8	2.18	<0.1	0.19
R11-997	Soil	18.4	27.0	1.10	207.1	0.078	2	2.86	0.007	0.06	0.1	5.0	0.15	0.07	71	2.4	0.22	10.5	3.04	<0.1	0.12
R11-999	Soil	10.6	9.8	0.90	232.4	0.006	1	2.06	0.004	0.06	<0.1	2.9	0.20	0.11	81	5.8	0.41	5.5	3.42	<0.1	0.03
R11-1001	Soil	19.4	13.4	1.15	349.9	0.016	2	2.07	0.007	0.06	<0.1	5.2	0.17	0.10	80	4.7	0.37	6.0	3.90	<0.1	0.02
R11-1003	Soil	13.6	26.7	1.30	195.8	0.133	2	3.14	0.007	0.05	0.2	3.8	0.08	0.09	57	0.5	0.06	10.4	3.22	<0.1	0.28
R11-1005	Soil	20.8	34.0	0.75	135.9	0.189	1	3.83	0.018	0.04	0.2	2.6	0.07	0.13	55	0.5	0.03	15.9	1.60	<0.1	0.57
R11-1007	Soil	29.9	34.4	1.23	200.1	0.236	2	2.69	0.024	0.06	0.1	4.8	0.09	0.05	77	0.5	0.03	11.1	3.45	<0.1	0.27
R11-1009	Soil	17.7	44.0	0.76	137.4	0.184	1	2.93	0.015	0.03	<0.1	3.9	0.12	0.13	65	0.5	0.06	13.3	2.50	<0.1	0.24
R11-1011	Soil	15.2	39.3	0.97	147.9	0.149	<1	2.58	0.011	0.04	<0.1	2.9	0.11	0.12	58	0.4	0.07	12.9	2.33	<0.1	0.20
R11-1013	Soil	10.7	32.0	0.88	195.9	0.073	1	2.48	0.007	0.04	<0.1	2.1	0.12	0.15	53	0.3	0.05	11.1	3.85	<0.1	0.08
R11-1015	Soil	11.5	44.3	0.60	87.7	0.212	1	2.44	0.009	0.03	0.1	2.5	0.08	0.14	61	0.5	0.05	13.0	1.64	<0.1	0.35
R11-1017	Soil	13.4	52.1	1.60	102.3	0.375	<1	2.52	0.014	0.03	<0.1	3.1	0.05	0.12	37	0.2	<0.02	13.0	1.09	<0.1	0.39
R11-1019	Soil	28.1	43.3	1.95	247.0	0.415	<1	1.95	0.048	0.05	0.1	4.4	0.06	0.03	69	0.2	<0.02	8.2	1.15	0.1	0.73
R11-1021	Soil	15.6	11.0	1.43	173.6	0.112	2	2.52	0.004	0.04	0.2	3.9	0.09	0.02	92	<0.1	0.05	8.4	2.19	<0.1	0.08
R11-1023	Soil	12.9	38.7	1.06	152.7	0.181	2	3.22	0.012	0.04	0.1	3.4	0.08	0.08	68	0.3	0.03	8.9	0.76	<0.1	0.37
R11-1025	Soil	16.3	14.9	1.17	382.3	0.129	2	2.41	0.006	0.05	0.2	2.4	0.10	0.03	36	0.1	0.02	6.6	4.38	<0.1	0.10
R11-1027	Soil	19.6	44.6	1.44	90.6	0.276	2	2.72	0.024	0.05	0.2	4.4	0.10	0.04	38	0.4	0.05	10.8	1.63	<0.1	0.28
R11-1029	Soil	26.6	42.3	1.50	139.7	0.272	2	2.97	0.021	0.07	0.2	5.6	0.10	0.03	54	0.3	0.06	10.5	2.89	<0.1	0.27
R11-1031	Soil	21.9	36.7	1.10	130.2	0.225	1	3.05	0.016	0.05	0.1	4.3	0.09	0.07	44	0.2	0.03	12.3	2.75	<0.1	0.21
R11-1033	Soil	12.9	35.7	0.86	130.6	0.129	2	2.38	0.010	0.04	0.1	2.5	0.12	0.11	95	0.4	0.04	10.8	1.92	<0.1	0.14

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
				0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
R11-975	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-977	Soil			2.48	8.5	0.7	<0.05	3.9	9.94	36.7	0.04	1	1.1	22.4	<10	<2
R11-979	Soil			1.33	7.1	0.5	<0.05	3.7	14.93	31.3	0.04	<1	1.0	13.6	<10	<2
R11-981	Soil			1.54	7.7	0.6	<0.05	2.4	11.07	30.1	0.04	<1	1.0	18.4	<10	<2
R11-983	Soil			1.44	7.7	0.7	<0.05	4.4	25.53	44.1	0.05	<1	1.1	19.4	<10	<2
R11-985	Soil			5.27	7.6	1.5	<0.05	4.5	13.95	45.8	0.06	<1	1.3	17.8	<10	<2
R11-987	Soil			7.41	6.6	1.9	0.05	11.9	9.07	42.4	0.05	<1	1.0	22.0	<10	<2
R11-989	Soil			2.41	4.4	0.7	<0.05	2.4	14.63	28.5	0.02	1	0.6	5.3	<10	<2
R11-991	Soil			0.90	6.8	0.7	<0.05	0.5	5.81	13.1	0.03	3	0.4	4.2	<10	<2
R11-993	Soil			0.56	8.8	0.4	<0.05	0.5	1.51	7.1	0.06	1	0.2	5.3	<10	<2
R11-995	Soil			11.86	8.7	3.0	<0.05	11.8	4.77	23.7	0.05	<1	0.7	5.2	<10	<2
R11-997	Soil			6.78	8.8	1.9	0.07	8.5	15.93	36.0	0.08	1	1.0	19.9	<10	<2
R11-999	Soil			0.97	6.4	0.5	<0.05	0.7	10.80	19.2	0.07	3	0.7	14.7	<10	<2
R11-1001	Soil			1.50	6.8	0.6	<0.05	1.0	21.27	37.1	0.08	5	0.9	18.7	<10	<2
R11-1003	Soil			9.57	7.1	1.4	0.09	17.1	9.16	33.5	0.06	<1	1.0	21.1	<10	<2
R11-1005	Soil			22.43	5.6	3.1	0.24	42.0	12.15	53.3	0.08	<1	1.6	9.3	<10	<2
R11-1007	Soil			6.74	10.5	2.4	0.10	22.0	31.62	50.4	0.07	<1	1.6	20.8	<10	<2
R11-1009	Soil			9.68	6.5	2.1	0.11	18.4	13.74	38.3	0.06	<1	1.4	10.1	<10	<2
R11-1011	Soil			9.90	7.0	2.0	0.09	13.9	9.73	34.3	0.06	<1	1.0	12.0	<10	<2
R11-1013	Soil			6.81	10.2	1.6	<0.05	5.9	8.49	28.4	0.05	<1	1.3	17.6	<10	<2
R11-1015	Soil			14.93	5.4	2.3	0.11	22.5	7.20	26.4	0.05	<1	1.0	8.2	<10	<2
R11-1017	Soil			12.05	6.1	2.0	0.19	25.0	7.39	29.7	0.04	<1	1.1	6.9	<10	<2
R11-1019	Soil			4.27	5.4	1.9	0.15	53.7	18.90	49.1	0.05	<1	1.5	13.5	<10	<2
R11-1021	Soil			1.36	8.6	0.6	<0.05	4.0	9.01	44.5	0.03	<1	1.0	28.6	<10	<2
R11-1023	Soil			8.91	5.7	1.3	0.08	24.6	8.18	33.6	0.05	<1	1.3	13.6	<10	<2
R11-1025	Soil			2.76	8.6	0.7	<0.05	7.2	9.57	49.0	0.02	<1	1.1	23.4	<10	<2
R11-1027	Soil			5.13	7.5	1.9	0.16	22.4	12.91	44.6	0.06	<1	1.4	15.4	<10	<2
R11-1029	Soil			4.11	10.3	1.9	0.09	24.0	22.39	52.4	0.06	<1	1.9	18.3	<10	<2
R11-1031	Soil			6.47	9.3	2.1	0.12	15.0	13.11	52.5	0.05	<1	1.5	17.5	<10	<2
R11-1033	Soil			7.96	7.9	1.6	<0.05	11.2	8.19	33.1	0.05	<1	0.9	20.6	<10	<2

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-1035	Soil			1.72	26.39	10.11	76.0	90	33.5	12.2	996	4.50	4.6	0.9	1.2	0.4	15.7	0.14	0.49	0.35	79	0.21	0.097
R11-1037	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-1039	Soil			1.36	32.83	13.13	96.6	95	51.2	16.5	1049	4.41	5.1	0.8	4.5	1.0	18.9	0.29	0.54	0.23	69	0.31	0.114
R11-1041	Soil			1.64	30.04	31.64	112.5	155	35.3	11.4	684	4.19	6.1	0.7	3.4	0.5	15.0	0.32	0.56	0.28	78	0.15	0.147
R11-1043	Soil			1.40	29.42	19.99	118.5	77	47.4	16.3	1112	4.55	5.3	0.8	2.8	0.6	16.1	0.30	0.54	0.23	76	0.26	0.117
R11-1045	Soil			1.32	25.33	12.67	110.0	57	47.8	14.7	945	4.32	5.7	0.8	2.4	0.5	16.5	0.31	0.49	0.19	76	0.26	0.139
R11-1047	Soil			1.09	26.98	10.09	133.1	63	39.9	15.6	1159	4.36	5.7	1.0	4.6	0.8	22.3	0.30	0.61	0.15	83	0.29	0.107
R11-1049	Soil			2.08	25.41	18.94	98.1	113	28.6	8.8	582	4.18	6.7	1.2	*	1.1	10.3	0.28	0.52	0.28	56	0.13	0.124
R11-1051	Soil			1.76	25.81	12.96	117.0	86	41.8	13.8	1097	4.37	6.0	0.8	13.4	1.0	13.6	0.31	0.55	0.18	67	0.19	0.147
R11-1053	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-1053A	Soil			1.64	29.89	6.67	104.1	87	67.4	18.1	980	4.59	4.1	1.0	1.3	3.3	10.4	0.23	0.25	0.08	51	0.30	0.103
R11-1055	Soil			1.48	32.44	19.24	152.2	139	47.8	15.2	1137	4.37	8.6	0.8	6.9	1.0	15.7	0.68	0.58	0.19	74	0.22	0.152
R11-1057	Soil			1.36	29.50	60.54	203.1	505	35.2	9.4	718	3.79	6.9	0.8	3.7	0.3	19.4	1.24	0.51	0.22	63	0.23	0.140
R11-1059	Soil			1.33	26.12	11.77	101.6	95	44.9	15.1	1262	4.37	8.5	0.5	3.9	0.3	14.2	0.28	0.60	0.19	77	0.16	0.110
R11-1061	Soil			1.00	27.02	7.86	89.7	136	55.6	14.9	829	3.92	7.1	0.8	5.6	0.9	15.6	0.32	0.48	0.10	52	0.26	0.120
R11-1063	Soil			1.67	22.95	10.93	116.1	130	48.5	15.1	1166	4.92	7.3	0.8	3.7	0.8	14.2	0.31	0.53	0.19	75	0.21	0.114
R11-1065	Soil			1.54	15.55	8.81	73.9	121	30.7	11.6	780	4.17	4.0	0.9	6.5	0.3	14.4	0.36	0.35	0.18	63	0.20	0.125
R11-1067	Soil			1.35	23.12	11.19	106.3	78	43.4	11.8	1148	3.77	6.1	0.7	2.8	0.4	17.8	0.20	0.57	0.15	68	0.20	0.106
R11-1069	Soil			1.45	22.70	12.34	86.0	108	35.0	16.2	1605	4.45	5.3	0.8	1.7	0.4	17.0	0.31	0.47	0.20	72	0.19	0.120
R11-1071	Soil			1.76	20.92	22.73	81.1	76	31.8	15.0	1474	4.18	8.4	0.7	2.6	0.3	15.7	0.26	0.61	0.29	63	0.17	0.123
R11-1073	Soil			1.20	19.84	9.14	64.3	185	33.2	10.4	703	3.80	3.4	0.9	1.3	0.2	21.0	0.18	0.34	0.15	63	0.37	0.118
R11-1075	Soil			1.72	20.37	12.33	71.8	92	35.6	16.3	1560	4.27	6.3	0.7	3.2	0.4	17.8	0.22	0.49	0.16	74	0.22	0.126
R11-1077	Soil			1.34	19.36	11.58	89.6	57	40.5	13.4	1757	3.93	7.1	0.5	3.2	0.2	14.1	0.18	0.55	0.21	68	0.13	0.113
R11-1079	Soil			1.18	24.49	11.40	84.7	80	35.8	11.8	820	4.08	8.2	0.4	4.1	0.2	13.9	0.22	0.66	0.18	79	0.12	0.079
R11-1081	Soil			1.38	31.55	11.48	79.1	164	33.8	14.1	1392	4.22	9.2	0.4	6.4	0.1	11.7	0.23	0.57	0.15	73	0.11	0.111
R11-1083	Soil			1.13	23.69	8.80	97.4	79	39.8	9.4	539	3.92	8.3	0.5	20.6	0.2	9.7	0.27	0.59	0.17	72	0.09	0.096
R11-1085	Soil			1.32	22.83	10.74	64.9	79	36.0	11.9	894	4.06	8.7	0.4	25.7	0.1	14.7	0.13	0.63	0.17	80	0.12	0.091
R11-1087	Soil			1.71	18.47	13.23	61.4	139	17.1	7.5	660	3.03	7.4	0.7	3.4	<0.1	23.8	0.19	0.62	0.17	68	0.17	0.176
R11-1089	Soil			1.36	28.13	17.79	95.4	143	46.3	16.9	1307	4.41	7.7	0.6	3.1	0.3	18.0	0.48	0.66	0.17	78	0.17	0.086
R11-1091	Soil			2.56	22.70	12.73	62.4	209	14.0	13.2	2518	3.11	4.3	0.8	2.1	<0.1	20.0	0.85	0.52	0.30	56	0.15	0.171

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

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
R11-1035	Soil	10.7	32.2	0.69	124.8	0.132	2	2.18	0.012	0.04	0.1	2.1	0.09	0.11	58	0.3	0.05	12.4	1.64	<0.1	0.23
R11-1037	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-1039	Soil	16.6	34.0	1.04	160.8	0.154	3	2.79	0.016	0.04	0.1	3.0	0.11	0.07	63	0.2	0.04	10.4	1.59	<0.1	0.18
R11-1041	Soil	11.4	42.3	0.74	111.2	0.106	4	2.66	0.008	0.05	0.1	3.0	0.15	0.07	60	0.4	0.07	10.8	2.10	<0.1	0.10
R11-1043	Soil	15.2	36.0	0.93	150.1	0.157	3	2.84	0.013	0.04	0.1	3.0	0.12	0.10	69	0.4	0.04	10.7	1.63	<0.1	0.18
R11-1045	Soil	12.5	36.0	0.90	172.5	0.131	3	3.05	0.013	0.04	0.1	2.7	0.09	0.12	93	0.4	0.05	10.0	1.68	<0.1	0.18
R11-1047	Soil	13.5	31.8	1.20	139.9	0.156	3	2.58	0.013	0.04	0.1	2.9	0.09	0.08	61	0.3	0.03	10.6	1.61	<0.1	0.16
R11-1049	Soil	19.5	33.3	0.50	113.2	0.121	3	3.31	0.020	0.05	0.2	2.5	0.17	0.09	95	0.7	0.04	14.5	1.64	<0.1	0.36
R11-1051	Soil	16.1	35.2	0.90	119.8	0.142	3	2.57	0.018	0.05	0.2	2.9	0.11	0.08	48	0.4	0.03	11.3	1.31	<0.1	0.20
R11-1053	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-1053A	Soil	26.7	33.2	1.27	117.8	0.269	2	2.97	0.031	0.05	0.2	3.0	0.08	0.05	35	0.3	<0.02	10.3	0.85	<0.1	0.53
R11-1055	Soil	15.2	44.6	0.88	179.5	0.118	4	2.73	0.013	0.07	0.1	4.0	0.13	0.07	64	0.5	0.05	9.9	2.09	<0.1	0.10
R11-1057	Soil	17.2	35.1	0.70	200.3	0.080	2	2.48	0.013	0.05	0.1	2.5	0.14	0.10	126	0.4	0.07	9.5	2.05	<0.1	0.10
R11-1059	Soil	7.8	44.7	0.78	274.5	0.059	3	2.13	0.007	0.05	0.1	2.3	0.12	0.09	71	0.3	0.06	9.5	1.09	<0.1	0.04
R11-1061	Soil	15.9	36.5	0.86	227.4	0.107	2	3.11	0.011	0.04	0.1	3.4	0.07	0.10	80	0.4	0.05	8.9	0.82	<0.1	0.31
R11-1063	Soil	13.9	44.4	0.85	223.1	0.146	3	2.20	0.013	0.05	0.1	2.9	0.10	0.10	53	0.4	0.05	13.0	1.14	<0.1	0.24
R11-1065	Soil	17.2	33.2	0.58	158.5	0.093	1	2.88	0.013	0.03	0.1	1.8	0.09	0.15	74	0.4	0.03	11.9	1.00	<0.1	0.23
R11-1067	Soil	14.3	43.2	0.80	229.6	0.083	3	2.25	0.008	0.07	<0.1	3.3	0.12	0.06	50	0.3	0.04	8.1	3.60	<0.1	0.06
R11-1069	Soil	16.5	36.9	0.73	281.4	0.093	2	2.39	0.011	0.04	<0.1	2.4	0.11	0.14	47	0.3	0.04	11.6	1.36	<0.1	0.14
R11-1071	Soil	14.0	32.8	0.59	324.4	0.053	2	2.22	0.013	0.05	0.1	2.1	0.12	0.11	57	0.3	0.05	10.8	1.48	<0.1	0.11
R11-1073	Soil	18.0	32.6	0.65	191.1	0.102	2	2.58	0.014	0.04	<0.1	2.1	0.10	0.13	57	0.3	<0.02	10.5	1.39	<0.1	0.15
R11-1075	Soil	10.4	37.8	0.67	282.6	0.102	2	2.22	0.010	0.04	0.1	2.6	0.11	0.13	78	0.3	<0.02	10.0	1.42	<0.1	0.12
R11-1077	Soil	8.4	42.1	0.74	210.1	0.041	2	1.97	0.006	0.05	<0.1	1.7	0.11	0.08	61	0.3	0.07	7.6	1.10	<0.1	0.02
R11-1079	Soil	5.9	43.9	0.72	193.1	0.037	2	2.00	0.005	0.06	<0.1	2.1	0.10	0.06	56	0.4	0.07	7.4	1.20	<0.1	0.03
R11-1081	Soil	5.6	39.1	0.76	217.5	0.014	2	2.07	0.004	0.06	<0.1	1.5	0.13	0.08	64	0.3	0.09	7.0	0.85	<0.1	<0.02
R11-1083	Soil	6.1	49.1	0.82	121.1	0.032	3	2.32	0.004	0.06	<0.1	2.0	0.10	0.08	58	0.4	0.05	7.9	1.18	<0.1	0.03
R11-1085	Soil	6.7	44.0	0.69	202.3	0.046	2	2.03	0.006	0.06	<0.1	2.1	0.11	0.08	55	0.3	0.06	7.9	1.10	<0.1	0.03
R11-1087	Soil	5.8	27.4	0.33	228.0	0.030	2	1.49	0.006	0.05	0.1	0.8	0.11	0.15	102	0.4	0.05	6.7	1.24	<0.1	0.03
R11-1089	Soil	9.2	45.0	0.77	268.3	0.075	2	2.21	0.007	0.06	<0.1	2.3	0.12	0.08	52	0.3	0.07	9.0	1.43	<0.1	0.05
R11-1091	Soil	6.8	21.6	0.19	290.1	0.027	2	1.66	0.010	0.04	0.1	0.6	0.15	0.16	72	0.4	0.05	8.8	1.71	<0.1	0.03

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	Unit	MDL	1F15 Nb	1F15 Rb	1F15 Sn	1F15 Ta	1F15 Zr	1F15 Y	1F15 Ce	1F15 In	1F15 Re	1F15 Be	1F15 Li	1F15 Pd	1F15 Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	0.1	0.02	1	0.1	0.1	10	2
R11-1035	Soil	11.21	7.6	2.3	0.07	15.4	6.76	27.7	0.06	<1	1.1	16.4	<10	<2		
R11-1037	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-1039	Soil	8.53	7.2	1.8	0.09	13.7	9.50	38.0	0.08	<1	1.3	17.3	<10	<2		
R11-1041	Soil	6.18	10.4	1.6	<0.05	7.5	7.66	26.8	0.07	<1	0.9	20.1	<10	<2		
R11-1043	Soil	8.50	7.7	1.9	0.10	13.9	10.17	36.6	0.06	<1	1.5	18.8	<10	<2		
R11-1045	Soil	8.79	6.9	1.5	0.08	12.9	8.32	30.6	0.06	<1	1.4	18.0	<10	<2		
R11-1047	Soil	6.15	7.6	1.7	0.05	10.8	8.75	35.3	0.04	<1	1.3	21.2	<10	<2		
R11-1049	Soil	19.59	7.7	3.4	0.15	30.3	11.89	47.7	0.07	<1	1.8	14.4	<10	<2		
R11-1051	Soil	9.03	8.9	2.2	0.10	14.0	8.98	40.1	0.06	<1	1.3	14.8	<10	<2		
R11-1053	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-1053A	Soil	8.32	5.0	2.4	0.07	35.5	11.73	65.9	0.06	<1	2.3	7.9	<10	<2		
R11-1055	Soil	5.53	10.3	1.6	<0.05	9.4	10.64	34.3	0.06	<1	1.2	17.4	<10	<2		
R11-1057	Soil	5.75	9.2	1.6	<0.05	6.1	11.32	32.4	0.05	1	1.0	14.2	<10	<2		
R11-1059	Soil	4.43	7.7	1.4	<0.05	3.2	4.66	19.4	0.06	<1	0.6	20.8	<10	<2		
R11-1061	Soil	8.48	5.6	1.3	0.07	19.5	9.62	40.3	0.10	<1	1.4	17.0	<10	<2		
R11-1063	Soil	11.42	7.2	2.3	0.06	16.2	7.22	34.3	0.06	<1	1.1	16.9	<10	<2		
R11-1065	Soil	13.48	4.8	2.5	0.11	16.1	10.20	39.1	0.05	<1	1.7	9.6	<10	<2		
R11-1067	Soil	2.99	9.9	1.1	<0.05	3.7	9.90	28.1	0.05	<1	1.1	17.4	<10	<2		
R11-1069	Soil	9.69	6.9	2.3	0.06	11.1	11.06	35.6	0.05	<1	1.5	13.1	<10	<2		
R11-1071	Soil	10.16	7.8	2.2	<0.05	8.0	8.61	35.6	0.06	<1	1.3	14.3	<10	<2		
R11-1073	Soil	8.66	5.5	1.9	<0.05	11.4	12.13	34.3	0.05	<1	1.4	9.0	<10	<2		
R11-1075	Soil	7.20	6.1	1.6	<0.05	8.8	6.10	25.9	0.05	<1	0.9	15.1	<10	<2		
R11-1077	Soil	3.05	6.7	1.1	<0.05	2.0	4.88	20.7	0.03	<1	0.7	17.1	<10	<2		
R11-1079	Soil	2.34	8.6	0.8	<0.05	1.5	3.25	14.1	0.04	<1	0.6	16.4	<10	<2		
R11-1081	Soil	1.57	9.2	0.7	<0.05	0.8	3.44	13.7	0.04	<1	0.7	18.3	<10	<2		
R11-1083	Soil	2.36	8.7	0.8	<0.05	1.9	3.76	14.1	0.04	<1	0.6	20.6	<10	<2		
R11-1085	Soil	2.95	8.0	0.9	<0.05	1.8	4.09	16.2	0.04	<1	0.7	17.2	<10	<2		
R11-1087	Soil	2.93	9.2	1.1	<0.05	1.3	3.53	12.6	0.03	<1	0.4	6.8	<10	<2		
R11-1089	Soil	4.14	8.8	1.2	<0.05	3.4	5.44	25.1	0.05	<1	0.9	19.6	<10	<2		
R11-1091	Soil	5.03	10.0	2.3	<0.05	2.1	4.17	15.9	0.04	<1	1.0	5.8	<10	<2		

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
R11-1093	Soil	1.28	43.74	12.27	94.5	180	63.0	14.2	676	4.11	8.4	0.8	17.1	1.0	27.7	0.23	0.81	0.16	71	0.28	0.103
R11-1095	Soil	0.97	64.97	9.80	104.6	182	52.4	11.9	708	3.48	7.3	0.8	3.1	2.2	26.8	0.20	0.65	0.13	56	0.32	0.117
R11-1097	Soil	1.26	34.06	9.71	128.7	141	53.8	15.7	977	4.24	6.8	0.7	2.0	1.3	24.7	0.54	0.49	0.12	66	0.52	0.105
R11-1099	Soil	1.52	25.26	10.57	90.4	77	53.1	15.7	1008	4.57	8.4	0.7	5.7	0.7	17.9	0.26	0.60	0.20	71	0.23	0.113
R11-1101	Soil	1.35	26.26	9.26	108.2	85	49.2	13.3	934	4.24	8.9	0.5	3.3	0.4	14.4	0.23	0.59	0.16	72	0.17	0.117
R11-1103	Soil	1.01	28.34	8.66	76.8	68	56.2	15.3	775	3.96	9.7	0.5	5.9	0.7	14.4	0.21	0.62	0.13	68	0.19	0.092
R11-1105	Soil	0.94	38.46	10.86	86.2	108	58.7	15.0	711	3.97	9.6	0.7	3.3	1.8	20.5	0.25	0.71	0.11	69	0.26	0.093
R11-1107	Soil	1.41	25.15	8.24	106.0	38	49.8	11.8	637	4.07	8.7	0.8	3.5	0.7	12.5	0.33	0.56	0.15	61	0.19	0.124
R11-1109	Soil	1.00	27.24	9.45	91.9	47	62.3	13.8	556	3.59	8.9	0.6	2.8	0.6	18.8	0.20	0.79	0.12	65	0.23	0.097
R11-1111	Soil	1.71	20.63	11.20	84.7	245	33.3	12.3	1159	3.61	6.0	0.6	6.2	0.3	16.5	0.42	0.56	0.29	65	0.18	0.125
R11-1113	Soil	1.42	15.39	7.59	48.0	256	14.4	4.4	465	2.01	2.8	0.9	5.9	<0.1	22.5	0.26	0.41	0.23	40	0.34	0.221
R11-1115	Soil	0.84	28.83	8.55	79.5	57	67.6	11.7	396	3.53	7.4	0.6	6.5	1.6	14.1	0.16	0.63	0.10	60	0.21	0.095
R11-1117	Soil	1.37	30.64	8.03	80.7	73	55.3	15.6	796	3.87	6.3	0.7	5.5	1.1	11.2	0.21	0.48	0.13	61	0.20	0.110
R11-1119	Soil	1.43	19.69	9.54	65.2	156	26.6	7.1	606	3.25	5.8	0.8	3.9	0.2	12.8	0.20	0.48	0.15	54	0.12	0.135
R11-1121	Soil	1.30	18.26	7.11	66.0	45	43.9	13.3	518	3.70	5.0	0.7	2.8	0.8	9.8	0.18	0.40	0.13	54	0.18	0.093
R11-1123	Soil	0.74	23.38	11.02	89.9	64	44.1	12.1	623	3.70	7.7	0.8	9.5	0.7	17.1	0.17	0.65	0.09	63	0.24	0.067
R11-1125	Soil	0.89	25.18	11.15	87.5	57	49.7	11.2	595	3.43	6.7	0.7	3.1	1.5	19.4	0.16	0.61	0.12	56	0.25	0.108
R11-1127	Soil	1.42	20.17	13.19	81.2	152	33.7	11.3	905	3.65	6.4	0.8	1.5	0.3	14.2	0.20	0.54	0.16	61	0.17	0.118
R11-1129	Soil	1.49	14.44	9.83	75.2	64	22.1	8.6	963	3.16	5.8	0.7	5.8	0.3	16.4	0.30	0.48	0.14	55	0.16	0.106
R11-1131	Soil	0.98	23.79	9.43	73.0	29	43.9	11.5	724	3.46	7.3	0.7	2.7	1.2	15.7	0.15	0.54	0.11	51	0.24	0.083
R11-1133	Soil	1.61	17.82	8.02	70.4	32	31.6	9.3	614	3.71	4.7	0.9	<0.2	0.6	9.4	0.16	0.40	0.17	54	0.14	0.094
R11-1135	Soil	1.50	25.50	51.35	183.5	222	40.8	13.5	790	4.18	5.5	1.1	2.1	2.0	16.8	0.97	0.42	0.21	63	0.26	0.133
R11-1137	Soil	1.17	29.68	110.1	628.1	292	37.3	16.2	2198	4.31	8.0	1.0	3.1	2.3	26.4	3.01	0.92	0.19	67	0.34	0.142
R11-1139	Soil	1.47	31.27	47.00	268.9	204	44.5	16.2	1448	4.64	6.2	1.2	2.2	3.1	25.2	1.67	0.55	0.14	70	0.30	0.154
R11-1141	Soil	1.55	36.41	23.17	201.9	128	52.1	18.1	1372	5.05	7.9	1.2	1.9	2.7	16.0	0.69	0.51	0.18	74	0.26	0.150
R11-1143	Soil	1.37	22.79	19.22	118.3	152	29.7	11.4	857	4.21	5.8	1.0	6.4	0.5	14.4	0.36	0.46	0.17	69	0.22	0.131
R11-1145	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-1147	Soil	1.77	25.79	20.77	111.9	239	28.8	14.7	1812	4.09	5.3	1.0	2.1	0.5	10.8	0.41	0.47	0.20	64	0.13	0.138
R11-1149	Soil	2.00	19.23	10.95	77.8	109	26.2	10.9	938	4.10	3.7	0.8	1.5	0.6	11.0	0.19	0.37	0.16	69	0.11	0.099
R11-1151	Soil	1.16	29.89	15.33	120.1	43	43.3	17.4	1230	4.13	6.7	0.7	2.4	1.5	18.6	0.30	0.56	0.13	74	0.27	0.111

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
R11-1093	Soil	13.4	53.1	1.00	248.3	0.095	2	2.41	0.009	0.06	0.1	4.4	0.12	0.04	59	0.3	0.06	8.0	1.52	<0.1	0.07
R11-1095	Soil	14.6	43.1	0.91	309.3	0.099	3	1.92	0.009	0.06	0.2	4.4	0.08	<0.02	36	0.2	0.04	6.6	3.42	<0.1	0.15
R11-1097	Soil	13.5	42.9	0.99	283.7	0.143	2	2.50	0.017	0.07	0.1	4.1	0.09	0.09	71	0.3	0.04	9.3	1.81	<0.1	0.26
R11-1099	Soil	12.5	45.1	0.88	229.4	0.121	2	2.46	0.012	0.06	0.1	3.1	0.11	0.10	68	0.4	0.05	11.8	1.16	<0.1	0.20
R11-1101	Soil	8.8	46.6	0.89	191.2	0.074	3	2.36	0.008	0.07	0.1	3.2	0.12	0.08	73	0.4	0.06	9.1	1.22	<0.1	0.08
R11-1103	Soil	9.6	50.3	0.99	191.1	0.048	4	2.53	0.008	0.07	<0.1	3.8	0.12	0.05	58	0.4	0.06	6.8	0.97	<0.1	0.06
R11-1105	Soil	13.1	47.3	1.09	260.7	0.105	3	2.26	0.007	0.07	0.1	5.0	0.10	0.02	47	0.3	0.05	6.4	0.88	<0.1	0.10
R11-1107	Soil	13.4	40.6	0.81	153.1	0.103	3	2.87	0.009	0.06	0.1	3.3	0.10	0.08	84	0.5	0.03	8.6	0.96	<0.1	0.21
R11-1109	Soil	9.7	52.2	0.97	186.8	0.074	4	2.10	0.006	0.07	0.1	3.5	0.09	0.04	70	0.3	0.04	6.1	0.86	<0.1	0.05
R11-1111	Soil	7.6	35.4	0.58	210.1	0.043	2	1.95	0.006	0.06	<0.1	1.6	0.13	0.12	67	0.4	0.04	8.5	1.25	<0.1	0.05
R11-1113	Soil	10.4	23.7	0.21	217.7	0.008	2	1.44	0.008	0.04	<0.1	0.3	0.09	0.21	61	0.3	<0.02	5.9	1.34	<0.1	<0.02
R11-1115	Soil	10.9	51.5	1.06	219.6	0.081	2	2.30	0.005	0.05	<0.1	4.1	0.06	0.02	37	0.3	0.02	5.9	1.53	<0.1	0.14
R11-1117	Soil	14.9	43.0	0.91	159.9	0.143	2	2.95	0.014	0.05	<0.1	3.8	0.09	0.07	60	0.5	<0.02	8.9	1.05	<0.1	0.18
R11-1119	Soil	18.3	34.3	0.46	153.8	0.045	2	2.09	0.009	0.05	<0.1	1.7	0.10	0.15	95	0.4	<0.02	7.4	1.47	<0.1	0.07
R11-1121	Soil	13.7	36.4	0.73	109.0	0.125	2	3.05	0.010	0.04	0.1	2.8	0.07	0.07	59	0.6	0.03	9.3	0.85	<0.1	0.26
R11-1123	Soil	13.3	39.1	0.99	161.5	0.080	2	2.41	0.006	0.06	<0.1	3.2	0.08	0.04	48	0.4	<0.02	6.2	1.26	<0.1	0.05
R11-1125	Soil	15.8	41.3	0.90	148.4	0.077	2	2.19	0.005	0.06	0.1	3.9	0.09	0.02	40	0.4	<0.02	6.5	1.51	<0.1	0.07
R11-1127	Soil	14.4	37.8	0.58	175.7	0.068	2	2.29	0.009	0.06	<0.1	2.1	0.14	0.12	55	0.5	0.04	9.4	2.64	<0.1	0.08
R11-1129	Soil	8.5	24.9	0.42	161.8	0.090	2	1.57	0.015	0.06	0.1	1.5	0.05	0.12	70	0.4	0.02	8.3	1.86	<0.1	0.12
R11-1131	Soil	13.2	33.1	0.77	210.8	0.091	2	2.60	0.015	0.07	0.2	3.1	0.09	0.06	49	0.4	<0.02	8.2	1.57	<0.1	0.21
R11-1133	Soil	13.4	31.4	0.55	98.2	0.119	2	2.63	0.016	0.04	0.2	2.1	0.08	0.11	69	0.6	<0.02	11.3	1.28	<0.1	0.30
R11-1135	Soil	18.1	39.1	0.78	157.1	0.189	2	3.05	0.020	0.05	0.1	3.7	0.08	0.07	79	0.4	<0.02	11.9	2.10	<0.1	0.22
R11-1137	Soil	16.2	33.8	1.13	194.5	0.152	2	2.86	0.014	0.08	0.1	4.4	0.13	0.05	198	0.3	0.10	9.8	4.25	<0.1	0.12
R11-1139	Soil	20.4	41.6	1.00	204.7	0.217	2	2.95	0.021	0.08	0.1	5.1	0.09	0.04	67	0.4	0.02	11.3	3.34	<0.1	0.16
R11-1141	Soil	20.7	46.0	0.94	121.6	0.234	2	3.24	0.023	0.08	0.1	4.8	0.10	0.07	65	0.5	<0.02	13.4	3.19	<0.1	0.22
R11-1143	Soil	15.8	37.3	0.59	149.7	0.106	2	2.55	0.010	0.06	0.1	2.5	0.12	0.15	60	0.5	<0.02	12.5	3.21	<0.1	0.20
R11-1145	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-1147	Soil	13.3	33.2	0.58	125.4	0.077	1	2.49	0.010	0.06	<0.1	2.5	0.16	0.16	91	0.7	<0.02	11.3	3.17	<0.1	0.15
R11-1149	Soil	12.4	36.7	0.42	95.3	0.143	1	2.58	0.013	0.04	<0.1	2.6	0.13	0.12	69	0.5	<0.02	11.7	1.64	<0.1	0.23
R11-1151	Soil	11.7	39.5	1.03	83.1	0.168	3	2.70	0.008	0.06	<0.1	4.3	0.09	0.04	56	0.4	0.03	9.4	1.73	<0.1	0.15

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
R11-1093	Soil	3.24	8.0	1.2	<0.05	5.6	10.38	30.2	0.05	<1	0.9	20.6	<10	<2
R11-1095	Soil	2.18	7.3	1.1	<0.05	13.2	12.94	33.0	0.04	<1	1.2	22.7	<10	<2
R11-1097	Soil	6.92	8.6	1.4	<0.05	19.2	9.66	31.3	0.05	<1	1.3	14.6	<10	<2
R11-1099	Soil	10.69	7.8	2.1	0.05	13.4	7.75	31.7	0.07	<1	1.0	18.3	<10	<2
R11-1101	Soil	4.81	8.3	1.2	<0.05	4.4	5.61	21.5	0.05	<1	0.9	21.6	<10	<2
R11-1103	Soil	2.93	7.4	0.7	<0.05	4.0	6.60	23.3	0.06	<1	0.9	20.9	<10	<2
R11-1105	Soil	1.55	6.4	0.6	<0.05	6.4	8.57	31.7	0.04	<1	0.8	21.4	<10	<2
R11-1107	Soil	8.30	6.3	1.5	0.06	13.0	8.35	33.0	0.05	<1	1.1	18.1	<10	<2
R11-1109	Soil	1.81	6.1	0.6	<0.05	2.6	7.01	24.4	0.04	<1	0.9	21.6	<10	<2
R11-1111	Soil	4.82	6.2	1.4	<0.05	3.2	4.77	17.8	0.06	<1	0.7	10.8	<10	<2
R11-1113	Soil	3.70	7.4	1.4	<0.05	0.8	6.05	19.3	0.03	<1	0.9	3.8	<10	<2
R11-1115	Soil	2.25	5.8	0.5	<0.05	8.8	7.94	26.0	0.04	<1	0.9	19.5	<10	<2
R11-1117	Soil	6.97	6.8	1.4	<0.05	13.8	9.92	36.4	0.05	<1	1.2	12.2	<10	<2
R11-1119	Soil	5.81	6.3	1.1	<0.05	5.1	10.05	35.5	0.05	<1	1.0	9.4	<10	<2
R11-1121	Soil	11.29	4.6	1.6	0.07	20.2	8.89	32.6	0.06	<1	1.3	11.4	<10	<2
R11-1123	Soil	1.88	8.4	0.7	<0.05	3.4	9.65	31.5	0.04	<1	1.0	16.4	<10	<2
R11-1125	Soil	2.27	7.1	0.9	<0.05	5.1	11.41	32.7	0.03	<1	1.2	17.2	<10	<2
R11-1127	Soil	6.21	9.0	1.6	<0.05	7.6	10.61	29.8	0.06	<1	1.2	12.5	<10	<2
R11-1129	Soil	7.78	10.7	1.8	<0.05	8.1	4.84	20.6	0.03	<1	0.8	8.0	<10	<2
R11-1131	Soil	9.23	7.2	1.6	0.06	15.9	9.11	41.0	0.05	<1	1.4	14.3	<10	<2
R11-1133	Soil	14.73	6.0	2.2	0.10	23.6	8.29	32.8	0.06	<1	1.1	10.1	<10	<2
R11-1135	Soil	9.01	8.2	2.1	0.08	21.2	13.21	42.4	0.06	<1	2.1	13.3	<10	<2
R11-1137	Soil	4.05	12.2	1.6	<0.05	10.5	11.82	45.1	0.06	<1	1.9	20.1	<10	<2
R11-1139	Soil	3.70	10.8	2.0	<0.05	17.4	14.89	44.7	0.06	<1	1.9	16.7	<10	<2
R11-1141	Soil	7.22	12.1	2.6	<0.05	22.3	16.03	44.8	0.07	<1	1.7	15.0	<10	<2
R11-1143	Soil	11.41	9.9	2.2	<0.05	15.7	12.59	32.6	0.07	<1	1.4	12.6	<10	<2
R11-1145	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-1147	Soil	8.60	9.9	1.9	<0.05	13.0	10.13	29.8	0.05	<1	0.9	10.5	<10	<2
R11-1149	Soil	10.60	6.6	1.9	<0.05	17.2	7.73	29.4	0.05	<1	1.1	9.6	<10	<2
R11-1151	Soil	4.06	7.3	1.2	<0.05	10.5	8.19	29.5	0.04	<1	0.9	17.7	<10	<2

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	Unit	MDL	1F15 Mo	1F15 Cu	1F15 Pb	1F15 Zn	1F15 Ag	1F15 Ni	1F15 Co	1F15 Mn	1F15 Fe	1F15 As	1F15 U	1F15 Au	1F15 Th	1F15 Sr	1F15 Cd	1F15 Sb	1F15 Bi	1F15 V	1F15 Ca	1F15 P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
R11-1153	Soil			1.63	62.03	22.11	120.7	213	33.4	11.1	691	4.00	5.6	1.0	2.0	0.9	13.0	0.28	0.48	0.18	67	0.16	0.134
R11-1155	Soil			1.09	36.01	15.54	118.8	141	30.7	17.0	1360	4.26	4.2	1.0	0.7	1.1	26.3	0.28	0.51	0.10	77	0.39	0.124
R11-1157	Soil			1.45	30.50	9.38	78.4	66	47.5	15.8	725	4.47	3.8	1.0	1.7	1.2	12.1	0.15	0.32	0.14	69	0.25	0.084
R11-1159	Soil			1.39	21.71	7.71	85.8	32	46.4	14.9	860	4.38	4.2	0.8	0.8	0.8	12.7	0.21	0.33	0.13	66	0.26	0.091
R11-1161	Soil			1.30	37.06	24.63	126.5	620	31.5	12.9	953	3.57	10.9	1.0	2.8	0.4	25.0	0.54	1.04	0.11	80	0.73	0.130
R11-1163	Soil			1.14	42.96	31.02	167.1	278	25.6	9.3	608	3.58	5.7	1.1	1.6	0.5	12.7	0.33	0.58	0.12	62	0.18	0.111
R11-1165	Soil			1.11	41.22	25.97	131.1	299	24.0	10.0	674	3.12	4.8	1.0	1.5	0.3	14.0	0.42	0.49	0.09	57	0.19	0.112
R11-1167	Soil			1.26	38.16	20.53	136.0	111	35.3	16.6	1678	3.94	7.5	1.1	2.3	1.8	24.4	0.53	0.65	0.09	75	0.32	0.134
R11-1169	Soil			1.85	34.69	13.74	129.0	227	45.6	15.8	972	4.67	6.1	1.9	0.8	3.0	16.5	0.28	0.45	0.13	68	0.29	0.103
R11-1171	Soil			1.30	17.39	8.02	99.6	78	30.6	13.8	1099	3.97	2.2	0.6	<0.2	0.8	16.7	0.28	0.21	0.05	62	0.26	0.079
R11-1173	Soil			1.39	18.42	8.50	103.6	52	41.8	15.6	969	4.31	2.8	0.8	<0.2	0.9	15.0	0.48	0.21	0.07	67	0.28	0.084
R11-1175	Soil			1.33	38.91	9.50	104.9	137	53.8	18.9	979	4.49	3.8	0.9	0.9	1.9	17.0	0.45	0.27	0.06	69	0.39	0.090
R11-1177	Soil			1.31	18.41	5.65	73.7	56	43.0	15.8	786	4.11	2.1	0.8	<0.2	1.0	14.7	0.21	0.18	0.07	63	0.31	0.094
R11-1179	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-1181	Soil			12.70	601.2	23.54	94.0	110	12.5	18.9	1077	7.53	63.5	0.7	39.7	0.3	14.0	0.13	0.81	0.51	76	0.33	0.155
R11-1183	Soil			17.41	801.5	34.58	103.4	300	13.3	31.8	1811	9.85	82.4	0.8	65.6	0.9	15.0	0.39	1.10	0.53	73	0.42	0.165
R11-1185	Soil			13.41	541.7	21.83	104.3	206	11.2	22.3	1131	8.28	63.7	0.8	46.6	0.9	10.3	0.11	0.97	0.80	90	0.25	0.152
R11-1187	Soil			10.26	412.8	26.43	135.3	142	15.5	15.7	1088	6.56	55.2	0.8	31.1	0.4	18.6	0.37	0.86	0.56	69	0.54	0.161
R11-1189	Soil			1.25	293.3	24.70	86.5	420	36.1	14.1	983	4.29	10.2	1.7	*	1.6	22.6	0.31	0.56	0.24	57	0.64	0.118
R11-1191	Soil			1.98	34.80	16.66	91.1	121	30.7	12.0	721	4.47	4.9	1.0	*	1.8	14.0	0.16	0.41	0.22	82	0.17	0.116
R11-1193	Soil			2.30	107.4	13.50	108.8	111	40.3	19.2	1261	4.84	15.6	0.8	4.5	2.3	10.6	0.27	0.41	0.17	69	0.27	0.124
R11-1195	Soil			8.86	137.3	10.38	60.1	204	12.4	10.8	1926	3.80	9.4	1.2	4.0	<0.1	16.1	0.25	0.49	0.20	59	0.33	0.213
R11-1197	Soil			0.79	24.96	7.54	96.8	103	17.6	7.6	576	2.82	3.5	0.7	1.4	0.2	14.1	0.16	0.48	0.10	52	0.36	0.148
R11-1199	Soil			0.98	21.07	9.75	50.6	300	13.6	4.0	176	1.76	2.6	0.6	2.7	<0.1	21.7	0.16	0.36	0.16	46	0.43	0.185
R11-1201	Soil			0.62	26.90	9.70	92.7	72	19.3	10.2	1234	3.24	3.6	0.8	5.0	0.6	15.1	0.11	0.73	0.08	60	0.40	0.130
R11-1203	Soil			0.99	19.81	10.42	102.1	64	21.2	10.2	624	3.91	4.0	0.7	2.0	0.4	10.9	0.20	0.63	0.12	70	0.27	0.101
R11-1205	Soil			2.61	48.18	8.30	32.2	378	10.3	16.3	6230	1.80	3.5	0.5	2.5	<0.1	29.5	0.46	0.35	0.11	22	0.69	0.456
R11-1207	Soil			0.51	21.26	11.01	68.8	78	11.5	7.3	465	2.96	4.2	0.8	1.7	0.9	16.1	0.12	1.00	0.17	51	0.53	0.145
R11-1209	Soil			0.63	33.12	10.18	87.4	127	14.6	8.6	720	2.66	3.9	0.7	2.7	0.8	13.4	0.16	0.57	0.11	50	0.30	0.194



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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
R11-1153	Soil	15.6	37.7	0.67	109.2	0.107	2	3.08	0.015	0.07	0.1	3.5	0.14	0.11	75	0.6	<0.02	11.5	3.28	<0.1	0.21
R11-1155	Soil	15.1	31.5	1.10	101.6	0.188	2	3.30	0.010	0.05	<0.1	4.0	0.10	0.07	50	0.4	<0.02	11.1	2.18	<0.1	0.17
R11-1157	Soil	18.4	39.2	0.81	109.5	0.216	2	3.72	0.014	0.04	<0.1	3.5	0.10	0.08	61	0.5	<0.02	12.6	1.32	<0.1	0.30
R11-1159	Soil	14.6	40.5	0.79	109.4	0.197	2	3.34	0.015	0.04	<0.1	3.3	0.08	0.10	58	0.4	<0.02	11.4	1.14	<0.1	0.32
R11-1161	Soil	13.9	36.1	0.74	238.7	0.060	1	2.96	0.012	0.06	<0.1	2.7	0.14	0.14	88	0.6	<0.02	10.4	4.79	<0.1	0.13
R11-1163	Soil	19.8	29.6	0.63	228.7	0.056	2	3.35	0.009	0.09	<0.1	3.2	0.17	0.10	82	0.6	<0.02	10.3	7.64	<0.1	0.09
R11-1165	Soil	15.5	26.9	0.59	250.1	0.044	2	2.77	0.007	0.09	<0.1	2.3	0.16	0.12	100	0.4	<0.02	9.3	6.47	<0.1	0.07
R11-1167	Soil	15.1	32.9	0.99	88.4	0.158	2	2.44	0.009	0.07	0.2	4.1	0.09	0.04	37	0.3	<0.02	9.4	1.88	<0.1	0.08
R11-1169	Soil	28.6	38.9	0.85	179.5	0.237	2	3.27	0.028	0.07	0.1	4.4	0.12	0.05	46	0.4	0.02	12.3	2.06	<0.1	0.28
R11-1171	Soil	12.9	32.2	0.57	117.3	0.223	1	2.46	0.024	0.03	<0.1	2.5	0.05	0.12	47	0.3	<0.02	9.9	1.03	<0.1	0.27
R11-1173	Soil	15.4	36.2	0.75	133.6	0.234	1	2.88	0.020	0.04	<0.1	2.9	0.05	0.11	51	0.4	<0.02	11.5	0.89	<0.1	0.30
R11-1175	Soil	19.9	36.9	1.05	179.3	0.261	1	3.41	0.025	0.04	<0.1	4.1	0.08	0.07	72	0.5	<0.02	10.3	1.09	<0.1	0.28
R11-1177	Soil	15.2	34.4	0.81	135.6	0.235	<1	3.10	0.022	0.03	<0.1	2.8	0.05	0.11	41	0.4	<0.02	11.1	0.83	<0.1	0.31
R11-1179	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-1181	Soil	17.1	14.4	1.08	376.2	0.014	3	2.34	0.005	0.08	<0.1	5.3	0.14	0.10	62	3.9	0.43	6.3	3.79	<0.1	<0.02
R11-1183	Soil	20.7	11.2	1.13	338.4	0.012	2	2.08	0.004	0.11	<0.1	8.8	0.12	0.07	81	6.3	0.38	5.3	4.27	<0.1	0.06
R11-1185	Soil	13.3	11.4	1.37	259.0	0.008	2	2.36	0.003	0.09	<0.1	7.1	0.13	0.09	51	4.6	0.45	5.9	3.84	<0.1	0.04
R11-1187	Soil	17.5	16.7	0.98	251.4	0.019	3	2.34	0.005	0.07	0.1	4.8	0.16	0.11	113	4.8	0.35	6.8	4.29	<0.1	0.04
R11-1189	Soil	38.0	27.6	0.90	158.4	0.150	2	3.08	0.018	0.05	0.1	5.7	0.11	0.18	232	5.1	0.05	10.2	4.30	<0.1	0.63
R11-1191	Soil	14.8	47.1	0.47	122.6	0.217	2	3.14	0.016	0.05	0.1	4.6	0.12	0.09	48	0.4	0.03	13.9	2.65	<0.1	0.33
R11-1193	Soil	18.4	31.4	1.10	130.6	0.213	2	2.76	0.025	0.06	0.1	3.7	0.08	0.07	60	0.7	0.12	10.6	2.35	<0.1	0.34
R11-1195	Soil	15.1	20.3	0.42	269.5	0.019	1	2.19	0.004	0.05	<0.1	1.4	0.14	0.22	103	2.5	0.33	7.6	3.12	<0.1	0.03
R11-1197	Soil	13.2	19.7	0.76	300.5	0.014	2	2.02	0.005	0.12	<0.1	2.1	0.10	0.08	25	0.3	<0.02	5.5	2.37	<0.1	0.02
R11-1199	Soil	17.8	22.4	0.43	413.8	0.008	2	1.98	0.007	0.09	<0.1	0.8	0.13	0.14	62	0.3	<0.02	5.9	2.44	<0.1	<0.02
R11-1201	Soil	23.0	19.4	0.89	401.1	0.021	3	1.99	0.005	0.15	<0.1	4.6	0.09	0.03	33	0.1	<0.02	4.9	2.95	<0.1	0.02
R11-1203	Soil	9.2	22.5	0.79	262.8	0.034	3	1.89	0.006	0.10	<0.1	2.5	0.09	0.06	26	0.2	<0.02	6.6	1.51	<0.1	0.04
R11-1205	Soil	9.1	14.8	0.19	776.5	0.005	2	1.49	0.006	0.06	<0.1	0.6	0.20	0.33	60	0.6	0.04	3.8	2.18	<0.1	0.04
R11-1207	Soil	18.8	11.9	0.78	369.9	0.016	3	1.66	0.006	0.24	0.1	4.4	0.06	0.03	20	0.1	<0.02	3.9	2.44	<0.1	0.02
R11-1209	Soil	18.3	17.6	0.81	621.8	0.007	3	2.80	0.001	0.23	<0.1	5.6	0.14	0.09	41	0.2	0.02	6.3	3.99	<0.1	0.20



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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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CERTIFICATE OF ANALYSIS

SMI11000458.1

Method	Analyte	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
R11-1153	Soil	10.84	11.5	2.1	<0.05	17.2	12.76	37.4	0.06	<1	1.4	15.4	<10	<2
R11-1155	Soil	4.72	7.6	1.5	<0.05	11.7	11.16	37.3	0.05	<1	1.2	17.7	<10	<2
R11-1157	Soil	9.98	5.5	1.9	<0.05	24.6	12.46	45.9	0.06	<1	1.8	10.8	<10	<2
R11-1159	Soil	11.28	5.4	1.9	0.09	23.7	10.05	36.2	0.06	<1	1.4	11.1	<10	<2
R11-1161	Soil	7.86	10.1	1.6	<0.05	9.9	12.33	28.9	0.05	<1	1.3	21.1	<10	<2
R11-1163	Soil	7.97	16.9	1.7	<0.05	8.6	17.50	37.3	0.05	<1	1.6	18.1	<10	<2
R11-1165	Soil	6.83	14.2	1.5	<0.05	5.8	13.98	30.5	0.05	<1	1.4	15.9	<10	<2
R11-1167	Soil	3.54	9.3	1.2	<0.05	8.1	10.16	38.9	0.05	<1	1.0	17.8	<10	<2
R11-1169	Soil	7.86	8.7	2.6	0.06	25.8	19.73	61.6	0.08	<1	2.3	17.5	<10	<2
R11-1171	Soil	9.01	4.6	1.6	0.09	19.8	7.60	29.3	0.05	<1	1.2	6.9	<10	<2
R11-1173	Soil	10.02	4.9	1.8	0.06	23.0	9.78	36.0	0.05	<1	1.3	7.2	<10	<2
R11-1175	Soil	6.90	5.6	1.6	<0.05	23.5	12.61	48.1	0.06	<1	1.7	9.1	<10	<2
R11-1177	Soil	10.70	4.6	1.7	<0.05	25.3	8.97	35.1	0.05	<1	1.3	6.3	<10	<2
R11-1179	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
R11-1181	Soil	1.89	11.6	0.7	<0.05	0.8	21.24	27.4	0.08	3	0.7	17.3	<10	<2
R11-1183	Soil	0.87	8.6	0.4	<0.05	1.6	27.46	28.8	0.10	5	0.9	17.4	<10	<2
R11-1185	Soil	1.04	8.5	0.5	<0.05	1.9	14.37	22.9	0.08	3	0.8	19.9	<10	<2
R11-1187	Soil	3.28	11.2	1.0	<0.05	2.8	23.52	24.7	0.10	7	1.0	22.7	<10	<2
R11-1189	Soil	18.50	8.1	2.4	0.15	42.4	51.65	60.8	0.07	6	1.9	24.3	18	<2
R11-1191	Soil	11.01	10.0	2.7	0.12	26.8	9.54	34.2	0.07	<1	1.2	12.4	<10	<2
R11-1193	Soil	10.59	7.8	2.1	0.08	25.7	11.53	40.0	0.06	<1	1.1	11.2	<10	<2
R11-1195	Soil	4.03	8.5	1.1	<0.05	2.0	14.25	22.6	0.04	3	0.8	10.2	<10	<2
R11-1197	Soil	1.57	13.2	0.7	<0.05	1.0	8.46	25.7	0.04	<1	0.7	15.7	<10	<2
R11-1199	Soil	1.95	7.6	0.8	<0.05	0.8	13.84	26.5	0.04	<1	0.7	9.0	<10	<2
R11-1201	Soil	0.94	12.9	0.7	<0.05	1.2	21.59	40.9	0.05	<1	1.1	17.6	<10	<2
R11-1203	Soil	3.93	9.8	1.0	<0.05	2.7	4.76	22.7	0.05	<1	0.6	19.5	<10	<2
R11-1205	Soil	0.96	6.6	0.6	<0.05	2.1	6.40	31.5	0.04	<1	0.8	3.1	<10	<2
R11-1207	Soil	1.00	11.9	0.6	<0.05	1.4	13.66	37.4	0.05	<1	1.0	12.7	<10	<2
R11-1209	Soil	2.21	15.7	0.5	<0.05	6.5	15.85	40.7	0.05	<1	1.1	20.6	<10	<2



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

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880 - 609 Granville St.
Vancouver BC V7Y 1G5 Canada

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QUALITY CONTROL REPORT

SMI11000458.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
R11-702	Soil	1.64	17.07	11.35	99.5	153	25.6	9.6	726	3.82	4.4	1.0	3.0	0.3	15.4	0.84	0.42	0.22	69	0.18	0.122
REP R11-702	QC	1.56	16.73	11.04	98.1	133	25.4	9.7	720	3.82	4.2	1.0	2.5	0.3	15.3	0.79	0.42	0.20	69	0.19	0.113
R11-720	Soil	1.86	25.96	20.40	138.9	45	27.2	11.1	1162	4.30	5.8	1.1	*	1.3	14.8	0.43	0.47	0.32	56	0.21	0.125
REP R11-720	QC	1.91	25.86	20.81	136.4	60	27.9	11.3	1165	4.32	6.1	1.1	*	1.4	14.9	0.47	0.50	0.34	55	0.22	0.120
R11-753	Soil	1.76	101.9	9.18	71.3	108	33.3	14.4	772	4.19	8.8	0.7	13.0	0.3	19.3	0.18	0.38	0.14	70	0.55	0.121
REP R11-753	QC	1.73	98.22	9.14	68.6	130	30.8	13.6	759	3.99	8.8	0.7	14.0	0.3	19.5	0.18	0.36	0.13	66	0.56	0.121
R11-771	Soil	1.35	32.13	15.21	89.7	64	40.9	13.8	1131	3.95	5.4	1.1	0.9	1.0	21.0	0.21	0.51	0.15	59	0.29	0.126
REP R11-771	QC	1.48	33.18	15.87	91.6	80	41.9	14.3	1153	4.04	5.5	1.2	2.1	1.0	22.2	0.20	0.52	0.15	62	0.30	0.128
R11-790	Soil	0.74	25.39	8.67	80.2	64	39.7	11.0	756	3.44	6.4	0.9	3.0	1.1	19.5	0.11	0.68	0.10	68	0.33	0.112
REP R11-790	QC	0.74	26.13	8.69	79.8	60	39.4	11.0	749	3.41	6.6	0.9	4.3	1.1	19.5	0.11	0.63	0.10	69	0.34	0.112
R11-810	Soil	9.77	373.4	44.36	126.7	304	15.3	31.7	1730	9.74	53.3	0.7	43.7	0.9	14.7	0.43	1.08	0.59	80	0.22	0.225
REP R11-810	QC	10.60	385.4	47.70	136.2	323	15.2	32.9	1791	9.89	57.2	0.7	49.4	0.9	15.5	0.47	1.14	0.62	82	0.22	0.230
R11-860	Soil	1.41	44.85	42.54	99.5	76	34.4	16.7	1353	3.74	7.2	0.7	1.2	0.7	20.5	0.42	0.71	0.13	64	0.29	0.130
REP R11-860	QC	1.43	46.55	44.13	101.6	70	34.6	16.2	1335	3.72	7.1	0.8	1.1	0.8	18.2	0.43	0.67	0.13	62	0.27	0.124
R11-878	Soil	0.99	99.30	78.71	181.9	163	35.8	16.4	2099	3.83	9.3	0.6	2.5	1.5	28.9	0.61	1.23	0.08	71	0.39	0.133
REP R11-878	QC	0.97	99.25	76.20	179.6	152	35.7	15.8	2115	3.86	9.4	0.5	2.4	1.5	29.5	0.66	1.18	0.08	71	0.40	0.132
R11-904A	Soil	1.04	20.20	54.09	126.4	42	37.0	11.5	937	3.58	5.6	0.6	1.6	0.4	19.6	0.83	0.81	0.17	63	0.21	0.101
REP R11-904A	QC	1.06	20.23	54.53	128.2	44	37.1	11.6	902	3.48	5.6	0.6	1.2	0.4	19.9	0.79	0.77	0.16	62	0.20	0.096
R11-928	Soil	1.02	88.90	58.24	257.9	392	33.7	17.4	1875	4.52	5.6	1.3	1.5	2.5	43.7	0.84	1.03	0.18	87	0.51	0.119
REP R11-928	QC	1.01	87.88	56.66	262.3	397	33.9	17.6	1871	4.52	5.6	1.2	1.3	2.5	42.9	0.92	0.99	0.18	86	0.51	0.121
R11-937	Soil	1.63	32.78	30.27	115.1	75	32.5	14.6	1525	4.03	6.0	0.8	3.3	0.4	15.5	0.33	0.55	0.28	82	0.20	0.144
REP R11-937	QC	1.53	30.41	28.68	106.3	85	30.0	13.2	1446	3.89	5.8	0.7	2.1	0.3	14.8	0.31	0.51	0.22	80	0.19	0.138
R11-1031	Soil	1.50	38.70	16.95	140.5	202	45.1	15.8	1187	4.75	6.7	1.4	*	1.9	23.1	0.31	0.57	0.16	101	0.37	0.115
REP R11-1031	QC	1.42	37.51	16.35	129.2	203	45.0	15.5	1135	4.64	6.3	1.4	*	1.9	22.1	0.29	0.54	0.15	98	0.37	0.118
R11-1071	Soil	1.76	20.92	22.73	81.1	76	31.8	15.0	1474	4.18	8.4	0.7	2.6	0.3	15.7	0.26	0.61	0.29	63	0.17	0.123
REP R11-1071	QC	1.85	21.70	23.81	84.1	87	32.1	14.8	1496	4.26	8.8	0.8	3.1	0.3	16.6	0.26	0.60	0.29	65	0.18	0.127
R11-1105	Soil	0.94	38.46	10.86	86.2	108	58.7	15.0	711	3.97	9.6	0.7	3.3	1.8	20.5	0.25	0.71	0.11	69	0.26	0.093
REP R11-1105	QC	0.91	37.21	10.59	85.1	109	57.9	14.4	692	3.94	9.8	0.7	3.9	1.8	20.7	0.24	0.70	0.11	71	0.25	0.090



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

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 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

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QUALITY CONTROL REPORT

SMI11000458.1

Method Analyte Unit MDL		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
Pulp Duplicates																					
R11-702	Soil	16.1	30.4	0.53	141.7	0.105	2	2.29	0.012	0.05	0.1	1.8	0.10	0.13	57	0.1	0.03	13.3	1.56	<0.1	0.20
REP R11-702	QC	15.9	31.4	0.53	140.7	0.103	2	2.27	0.012	0.05	0.1	2.0	0.09	0.13	57	<0.1	0.03	12.9	1.52	<0.1	0.20
R11-720	Soil	25.3	27.3	0.63	149.0	0.148	2	2.59	0.020	0.07	0.2	2.3	0.09	0.14	58	0.2	0.06	15.7	1.72	<0.1	0.36
REP R11-720	QC	25.7	27.1	0.63	147.7	0.151	1	2.58	0.019	0.06	0.3	2.4	0.08	0.14	61	0.3	0.03	15.8	1.72	<0.1	0.35
R11-753	Soil	13.5	26.9	0.84	255.6	0.104	2	2.63	0.019	0.05	<0.1	2.3	0.08	0.12	31	0.8	0.06	9.2	1.96	<0.1	0.13
REP R11-753	QC	13.3	25.8	0.79	260.4	0.097	2	2.55	0.020	0.05	<0.1	2.3	0.07	0.13	41	0.7	0.04	9.1	1.94	<0.1	0.12
R11-771	Soil	19.2	29.6	0.92	210.2	0.112	1	3.03	0.019	0.07	0.2	2.8	0.11	0.10	38	0.2	0.02	12.5	2.61	<0.1	0.21
REP R11-771	QC	19.8	30.8	0.96	221.8	0.121	1	3.24	0.020	0.08	0.2	2.9	0.13	0.11	39	0.2	0.02	12.4	2.74	<0.1	0.20
R11-790	Soil	19.8	35.6	1.06	920.7	0.037	3	2.54	0.006	0.13	<0.1	5.5	0.09	0.05	45	0.2	0.03	6.4	4.59	<0.1	0.14
REP R11-790	QC	19.5	35.0	1.05	907.6	0.037	4	2.56	0.006	0.14	<0.1	5.8	0.09	0.05	56	0.2	0.03	6.3	4.59	<0.1	0.12
R11-810	Soil	11.3	12.7	1.40	243.1	0.021	2	2.33	0.008	0.11	<0.1	6.4	0.14	0.10	71	7.5	0.46	6.5	5.41	<0.1	0.04
REP R11-810	QC	11.7	13.0	1.43	250.8	0.021	3	2.33	0.008	0.11	<0.1	6.7	0.15	0.10	83	7.7	0.37	6.8	5.63	<0.1	0.04
R11-860	Soil	12.6	28.4	0.84	135.8	0.153	2	2.21	0.015	0.06	0.1	2.9	0.11	0.11	53	0.3	0.06	6.9	2.41	<0.1	0.08
REP R11-860	QC	12.3	27.8	0.84	131.0	0.135	2	2.10	0.013	0.05	0.1	2.6	0.10	0.11	63	0.4	0.05	7.1	2.07	<0.1	0.11
R11-878	Soil	10.7	27.6	1.12	255.1	0.121	2	2.03	0.010	0.08	0.3	4.2	0.09	0.03	40	0.2	0.08	5.5	2.53	<0.1	0.07
REP R11-878	QC	10.4	27.4	1.13	249.0	0.119	2	2.04	0.010	0.09	0.3	4.0	0.09	0.03	47	0.1	0.09	5.5	2.48	<0.1	0.05
R11-904A	Soil	11.1	33.7	0.87	164.0	0.055	2	2.08	0.005	0.07	0.1	2.1	0.13	0.06	48	0.2	0.04	7.1	2.86	<0.1	0.03
REP R11-904A	QC	11.1	32.1	0.84	169.5	0.055	3	2.03	0.005	0.07	<0.1	2.0	0.13	0.06	50	0.2	0.04	7.2	2.99	<0.1	0.04
R11-928	Soil	22.4	24.5	1.65	128.0	0.208	1	2.86	0.028	0.09	0.3	4.3	0.11	0.05	111	0.3	0.03	10.9	3.15	<0.1	0.18
REP R11-928	QC	22.1	24.0	1.64	127.5	0.206	2	2.86	0.027	0.08	0.2	4.5	0.10	0.05	109	0.2	0.02	11.1	3.17	<0.1	0.21
R11-937	Soil	9.9	28.1	0.84	231.9	0.084	3	2.09	0.008	0.05	0.1	2.1	0.10	0.07	49	0.2	0.08	9.3	1.58	<0.1	0.08
REP R11-937	QC	9.5	25.7	0.81	226.6	0.081	3	2.04	0.008	0.05	0.1	2.1	0.10	0.10	52	0.2	0.04	9.1	1.56	<0.1	0.07
R11-1031	Soil	21.9	36.7	1.10	130.2	0.225	1	3.05	0.016	0.05	0.1	4.3	0.09	0.07	44	0.2	0.03	12.3	2.75	<0.1	0.21
REP R11-1031	QC	21.6	35.2	1.05	131.5	0.218	2	2.92	0.016	0.05	0.1	4.0	0.09	0.07	50	0.4	0.03	11.7	2.64	<0.1	0.20
R11-1071	Soil	14.0	32.8	0.59	324.4	0.053	2	2.22	0.013	0.05	0.1	2.1	0.12	0.11	57	0.3	0.05	10.8	1.48	<0.1	0.11
REP R11-1071	QC	14.5	32.6	0.58	338.8	0.056	3	2.27	0.013	0.05	0.2	2.2	0.13	0.12	57	0.3	0.05	11.4	1.52	<0.1	0.10
R11-1105	Soil	13.1	47.3	1.09	260.7	0.105	3	2.26	0.007	0.07	0.1	5.0	0.10	0.02	47	0.3	0.05	6.4	0.88	<0.1	0.10
REP R11-1105	QC	12.8	47.8	1.07	248.5	0.110	3	2.31	0.007	0.07	0.1	4.8	0.09	0.02	46	0.3	0.03	6.1	0.92	<0.1	0.10



Acme Analytical Laboratories (Vancouver) Ltd.

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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QUALITY CONTROL REPORT

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Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
Pulp Duplicates														
R11-702	Soil	12.82	6.7	3.0	<0.05	14.6	9.25	36.1	0.05	1	1.3	9.4	<10	<2
REP R11-702	QC	12.65	6.4	2.9	<0.05	14.3	8.97	34.2	0.05	<1	1.5	9.2	<10	<2
R11-720	Soil	22.63	9.9	4.5	0.16	29.4	14.37	59.4	0.07	<1	1.8	12.2	<10	<2
REP R11-720	QC	23.84	9.7	4.8	0.17	30.4	14.90	60.8	0.09	<1	1.9	12.5	<10	<2
R11-753	Soil	8.65	6.9	1.5	0.05	9.4	7.34	28.9	0.06	<1	1.2	9.7	<10	<2
REP R11-753	QC	8.45	6.8	1.5	<0.05	8.7	7.08	28.7	0.06	<1	1.1	9.1	<10	<2
R11-771	Soil	11.19	9.9	2.5	<0.05	17.9	13.51	47.3	0.06	<1	2.0	14.3	<10	<2
REP R11-771	QC	10.94	10.5	2.6	<0.05	16.7	13.94	49.2	0.05	<1	2.1	14.7	<10	<2
R11-790	Soil	2.24	12.6	0.7	<0.05	5.4	13.84	53.0	0.04	<1	0.9	25.1	<10	<2
REP R11-790	QC	2.19	12.7	0.7	<0.05	5.5	14.01	51.4	0.05	<1	1.3	24.2	<10	<2
R11-810	Soil	1.10	8.6	0.6	<0.05	2.0	10.97	22.7	0.06	2	0.6	22.7	<10	3
REP R11-810	QC	1.11	8.9	0.5	<0.05	2.0	11.43	23.7	0.07	1	0.6	23.4	11	<2
R11-860	Soil	4.67	7.8	1.0	<0.05	6.8	8.15	27.5	0.03	<1	0.9	12.5	<10	<2
REP R11-860	QC	5.03	6.8	1.1	<0.05	9.7	8.00	26.4	0.04	<1	1.1	12.2	<10	<2
R11-878	Soil	1.11	8.0	0.5	<0.05	4.3	9.05	23.9	0.02	<1	0.8	19.5	<10	<2
REP R11-878	QC	1.09	7.9	0.5	<0.05	3.8	8.86	24.1	<0.02	<1	0.9	18.5	<10	<2
R11-904A	Soil	2.54	8.3	0.9	<0.05	2.4	5.28	27.3	0.04	<1	0.8	21.3	<10	<2
REP R11-904A	QC	2.56	8.3	0.9	<0.05	2.3	5.32	27.0	0.03	1	0.7	20.9	<10	<2
R11-928	Soil	5.09	11.6	1.7	<0.05	15.5	15.20	47.6	0.05	<1	1.6	27.9	<10	<2
REP R11-928	QC	4.95	11.5	1.7	<0.05	16.0	15.14	48.1	0.05	<1	1.5	25.9	<10	<2
R11-937	Soil	5.39	8.0	1.5	<0.05	5.7	5.60	22.3	0.06	2	0.7	15.0	<10	<2
REP R11-937	QC	4.85	7.7	1.5	<0.05	5.0	5.38	20.9	0.04	<1	0.6	14.9	<10	<2
R11-1031	Soil	6.47	9.3	2.1	0.12	15.0	13.11	52.5	0.05	<1	1.5	17.5	<10	<2
REP R11-1031	QC	6.39	8.6	2.1	0.11	15.0	12.62	50.8	0.05	<1	1.5	17.8	<10	<2
R11-1071	Soil	10.16	7.8	2.2	<0.05	8.0	8.61	35.6	0.06	<1	1.3	14.3	<10	<2
REP R11-1071	QC	10.36	8.7	2.5	0.05	8.4	8.95	37.0	0.06	<1	1.4	14.6	<10	<2
R11-1105	Soil	1.55	6.4	0.6	<0.05	6.4	8.57	31.7	0.04	<1	0.8	21.4	<10	<2
REP R11-1105	QC	1.55	6.9	0.5	<0.05	5.9	8.42	30.9	0.04	<1	0.8	20.9	<10	<2

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Acme Analytical Laboratories (Vancouver) Ltd.

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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QUALITY CONTROL REPORT

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		1F15 Mo ppm 0.01	1F15 Cu ppm 0.01	1F15 Pb ppm 0.01	1F15 Zn ppm 0.1	1F15 Ag ppb 2	1F15 Ni ppm 0.1	1F15 Co ppm 0.1	1F15 Mn ppm 1	1F15 Fe % 0.01	1F15 As ppm 0.1	1F15 U ppm 0.1	1F15 Au ppb 0.2	1F15 Th ppm 0.1	1F15 Sr ppm 0.5	1F15 Cd ppm 0.01	1F15 Sb ppm 0.02	1F15 Bi ppm 0.02	1F15 V ppm 2	1F15 Ca % 0.01	1F15 P % 0.001
R11-1141	Soil	1.55	36.41	23.17	201.9	128	52.1	18.1	1372	5.05	7.9	1.2	1.9	2.7	16.0	0.69	0.51	0.18	74	0.26	0.150
REP R11-1141	QC	1.43	35.10	22.19	191.8	122	48.7	17.3	1319	4.84	7.7	1.1	3.5	2.6	15.2	0.66	0.49	0.17	71	0.24	0.139
R11-1185	Soil	13.41	541.7	21.83	104.3	206	11.2	22.3	1131	8.28	63.7	0.8	46.6	0.9	10.3	0.11	0.97	0.80	90	0.25	0.152
REP R11-1185	QC	13.47	532.8	21.58	104.8	208	11.3	21.9	1088	8.05	63.5	0.7	40.7	0.8	10.2	0.12	0.97	0.79	84	0.24	0.148
Reference Materials																					
STD DS8	Standard	12.37	103.4	114.3	293.5	1581	36.0	7.3	596	2.30	21.6	2.3	104.9	5.7	56.7	2.13	4.65	5.10	37	0.64	0.076
STD DS8	Standard	12.50	109.7	123.4	317.3	1801	37.0	7.3	620	2.46	25.5	2.6	123.8	6.6	65.4	2.40	5.43	6.12	41	0.69	0.082
STD DS8	Standard	13.12	104.3	131.6	327.3	1853	38.6	7.5	613	2.50	25.9	2.8	108.8	6.8	68.7	2.42	5.36	6.71	42	0.72	0.090
STD DS8	Standard	14.27	101.4	130.0	324.8	1884	36.2	7.1	656	2.52	26.6	2.9	122.8	7.4	74.0	2.41	5.56	6.59	44	0.76	0.083
STD DS8	Standard	12.41	102.5	113.6	296.0	1683	36.3	7.3	584	2.38	22.5	2.5	118.2	5.7	57.7	2.07	4.94	5.78	39	0.67	0.075
STD DS8	Standard	11.61	100.9	120.3	312.6	1755	34.3	7.0	575	2.45	23.5	2.5	105.4	5.7	59.3	2.21	5.03	6.13	40	0.65	0.078
STD DS8	Standard	12.79	107.0	135.6	333.6	1867	37.6	7.6	635	2.59	26.4	2.8	121.8	6.7	68.5	2.42	5.72	6.90	42	0.70	0.089
STD DS8	Standard	14.13	109.5	128.2	319.7	1741	38.7	7.5	639	2.53	24.2	2.9	121.8	7.4	70.3	2.32	5.51	6.30	43	0.76	0.079
STD DS8	Standard	13.73	105.1	127.8	313.3	1867	36.7	7.3	600	2.47	25.7	2.8	120.3	7.3	66.5	2.41	5.66	6.96	42	0.72	0.085
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



Acme Analytical Laboratories (Vancouver) Ltd.

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

www.acmelab.com

Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

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QUALITY CONTROL REPORT

SMI11000458.1

		1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
R11-1141	Soil	20.7	46.0	0.94	121.6	0.234	2	3.24	0.023	0.08	0.1	4.8	0.10	0.07	65	0.5	<0.02	13.4	3.19	<0.1	0.22
REP R11-1141	QC	19.7	43.4	0.88	117.2	0.216	2	3.16	0.021	0.07	0.1	4.6	0.09	0.06	63	0.6	0.03	13.0	2.93	<0.1	0.22
R11-1185	Soil	13.3	11.4	1.37	259.0	0.008	2	2.36	0.003	0.09	<0.1	7.1	0.13	0.09	51	4.6	0.45	5.9	3.84	<0.1	0.04
REP R11-1185	QC	13.2	10.7	1.31	259.2	0.009	2	2.18	0.003	0.09	<0.1	7.0	0.13	0.09	61	4.6	0.42	5.8	3.75	<0.1	0.05
Reference Materials																					
STD DS8	Standard	12.7	115.2	0.54	249.8	0.100	2	0.82	0.077	0.37	2.7	1.8	5.06	0.15	169	4.9	4.48	4.2	2.25	<0.1	0.06
STD DS8	Standard	13.8	117.5	0.60	272.1	0.105	3	0.89	0.086	0.42	3.0	2.3	5.42	0.16	208	5.1	5.22	4.7	2.52	<0.1	0.07
STD DS8	Standard	15.4	118.1	0.61	287.6	0.104	2	0.93	0.094	0.43	3.0	2.2	5.75	0.17	195	5.5	5.21	5.1	2.58	<0.1	0.09
STD DS8	Standard	18.3	124.0	0.64	292.7	0.113	3	0.97	0.093	0.43	2.9	2.3	5.80	0.16	214	5.5	5.44	5.2	2.58	<0.1	0.08
STD DS8	Standard	13.6	115.8	0.59	244.0	0.106	3	0.90	0.083	0.40	2.7	2.0	5.21	0.15	196	4.8	4.67	4.5	2.32	<0.1	0.06
STD DS8	Standard	12.8	113.7	0.59	259.2	0.094	2	0.87	0.080	0.39	2.7	1.8	5.36	0.16	180	5.0	4.84	4.5	2.44	<0.1	0.07
STD DS8	Standard	14.9	121.6	0.63	288.7	0.107	3	0.92	0.085	0.42	3.1	2.1	5.96	0.17	213	5.6	5.31	5.0	2.60	0.1	0.07
STD DS8	Standard	18.6	125.9	0.64	289.9	0.125	3	0.99	0.095	0.43	3.1	2.5	5.78	0.16	196	5.5	5.39	5.3	2.64	<0.1	0.10
STD DS8	Standard	16.4	120.8	0.61	294.6	0.106	3	0.95	0.096	0.43	3.2	2.3	5.67	0.16	210	5.1	5.18	4.8	2.60	<0.1	0.08
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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

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 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

Project: ROK_LGM
 Report Date: October 27, 2011

Page: 2 of 2 Part 3

QUALITY CONTROL REPORT

SMI11000458.1

		1F15 Nb ppm 0.02	1F15 Rb ppm 0.1	1F15 Sn ppm 0.1	1F15 Ta ppm 0.05	1F15 Zr ppm 0.1	1F15 Y ppm 0.01	1F15 Ce ppm 0.1	1F15 In ppm 0.02	1F15 Re ppb 1	1F15 Be ppm 0.1	1F15 Li ppm 0.1	1F15 Pd ppb 10	1F15 Pt ppb 2
R11-1141	Soil	7.22	12.1	2.6	<0.05	22.3	16.03	44.8	0.07	<1	1.7	15.0	<10	<2
REP R11-1141	QC	6.83	11.5	2.5	<0.05	22.7	15.59	42.9	0.06	<1	1.7	14.6	<10	<2
R11-1185	Soil	1.04	8.5	0.5	<0.05	1.9	14.37	22.9	0.08	3	0.8	19.9	<10	<2
REP R11-1185	QC	1.03	8.2	0.5	<0.05	1.9	14.20	22.8	0.09	5	0.8	20.0	<10	<2
Reference Materials														
STD DS8	Standard	1.74	33.6	6.0	<0.05	1.6	5.64	23.5	1.97	55	4.5	22.5	115	322
STD DS8	Standard	1.19	39.4	6.9	<0.05	1.6	5.71	25.6	2.25	65	4.7	28.1	116	361
STD DS8	Standard	1.29	41.0	6.7	<0.05	2.0	6.01	28.8	2.25	64	5.5	32.4	123	377
STD DS8	Standard	1.42	40.2	6.9	<0.05	2.1	6.82	34.3	2.35	57	4.9	29.1	120	365
STD DS8	Standard	1.23	35.8	5.9	<0.05	1.4	5.63	25.9	2.05	55	4.9	25.3	105	320
STD DS8	Standard	1.11	36.6	6.3	<0.05	1.7	5.15	23.6	2.17	49	4.9	28.6	114	331
STD DS8	Standard	1.34	40.2	7.0	<0.05	1.7	5.84	27.6	2.24	60	5.1	32.2	124	367
STD DS8	Standard	1.53	39.5	6.8	<0.05	2.2	7.29	33.3	2.26	57	5.5	27.7	121	352
STD DS8	Standard	1.27	38.6	6.7	<0.05	2.0	6.34	30.7	2.31	54	4.8	27.5	115	374
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



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Client: **Lions Gate Metals Inc.**
880 - 609 Granville St.
Vancouver BC V7Y 1G5 Canada

Submitted By: Andrew Gourlay
Receiving Lab: Canada-Smithers
Received: September 16, 2011
Report Date: October 13, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI11000459.1

CLIENT JOB INFORMATION

Project: ROK_LGM
Shipment ID:
P.O. Number
Number of Samples: 8

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT Store After 90 days Invoice for Storage

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

Invoice To: Lions Gate Metals Inc.
880 - 609 Granville St.
Vancouver BC V7Y 1G5
Canada

CC: Lorie Farrell
Mathias W.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	8	Crush split and pulverize 250g drill core to 200 mesh			SMI
G601	8	Fire Assay fusion Au by ICP-ES	30	Completed	VAN
1EX	8	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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 Phone (604) 253-3158 Fax (604) 253-1716

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Client: **Lions Gate Metals Inc.**
 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

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CERTIFICATE OF ANALYSIS

SMI11000459.1

Method	WGHT	G6	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	gm/t	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	
ROK 56A	Rock	0.59	<0.005	0.7	9.3	39.4	239	0.4	3.3	20.5	3192	5.71	47	1.8	<0.1	4.0	238	<0.1	6.8	0.1	177
ROK 56B	Rock	0.47	0.018	1.8	15.0	169.7	119	4.2	2.6	11.9	2106	7.57	286	1.9	<0.1	4.7	524	0.2	32.0	0.2	184
ROK 57	Rock	1.24	<0.005	2.4	10.7	32.2	109	0.4	2.6	12.3	1811	4.84	19	2.3	<0.1	4.7	215	0.6	10.2	0.3	141
ROK 58	Rock	0.71	<0.005	1.7	20.6	206.0	215	2.6	2.2	8.8	2211	5.18	41	2.0	<0.1	4.5	302	2.1	13.3	0.3	134
ROK 59	Rock	1.29	<0.005	2.6	16.5	10.4	42	0.4	3.1	5.0	664	4.12	10	4.3	<0.1	8.0	83	0.2	4.0	0.3	109
ROK 60	Rock	0.67	<0.005	5.4	13.7	11.2	36	0.5	1.5	1.8	495	3.96	10	3.0	<0.1	6.4	115	<0.1	4.6	0.3	91
ROK 61	Rock	1.29	<0.005	1.5	14.5	22.1	40	0.3	3.7	8.2	548	3.84	19	3.5	<0.1	7.9	139	0.5	4.7	0.3	108
ROK 62	Rock	2.03	<0.005	5.2	21.7	52.9	67	0.7	7.6	12.6	1590	6.53	32	4.3	<0.1	8.7	195	0.9	2.7	0.9	105



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

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 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

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Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

SMI11000459.1

Method	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	
Unit	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	
ROK 56A	Rock	3.01	0.154	13.9	9	2.17	605	0.571	8.07	1.675	3.32	0.8	86.9	30	1.2	17.8	7.8	0.4	<1	17	32.9
ROK 56B	Rock	6.27	0.141	27.4	6	1.21	390	0.421	8.55	1.138	0.86	0.6	69.4	50	1.0	20.9	6.3	0.3	1	14	19.6
ROK 57	Rock	2.98	0.110	17.5	9	0.78	352	0.398	7.20	0.072	3.72	0.7	72.2	36	1.2	18.0	6.5	0.4	<1	11	19.1
ROK 58	Rock	4.08	0.096	17.4	5	1.10	1257	0.432	7.81	0.110	4.35	0.7	74.6	36	1.4	16.0	7.7	0.5	1	11	18.2
ROK 59	Rock	0.22	0.026	14.0	18	0.93	118	0.389	6.50	0.174	4.00	1.1	169.9	31	2.5	16.6	17.9	1.1	1	11	14.6
ROK 60	Rock	0.36	0.011	11.0	10	0.79	741	0.371	6.49	0.512	3.51	0.7	123.5	21	1.5	15.3	9.5	0.5	<1	12	13.0
ROK 61	Rock	0.65	0.032	21.7	10	0.68	104	0.371	6.73	0.667	4.16	1.1	154.2	47	2.2	26.1	15.3	0.9	1	12	10.0
ROK 62	Rock	3.24	0.046	20.0	10	0.81	38	0.370	6.45	1.620	1.98	0.9	150.3	40	2.3	22.2	11.8	0.7	2	11	20.7



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

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CERTIFICATE OF ANALYSIS

SMI11000459.1

	Method	1EX	1EX	1EX
	Analyte	S	Rb	Hf
	Unit	%	ppm	ppm
	MDL	0.1	0.1	0.1
ROK 56A	Rock	0.9	63.2	2.3
ROK 56B	Rock	1.9	28.9	2.2
ROK 57	Rock	1.5	96.9	2.0
ROK 58	Rock	0.4	81.4	2.3
ROK 59	Rock	2.4	123.6	5.3
ROK 60	Rock	0.8	130.6	3.3
ROK 61	Rock	2.7	157.4	4.4
ROK 62	Rock	6.8	85.8	4.0



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

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QUALITY CONTROL REPORT

SMI11000459.1

Method	WGHT	G6	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
Unit	kg	gm/t	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1
Reference Materials																				
STD OREAS24P	Standard		1.6	51.2	3.1	114	<0.1	145.0	46.1	1090	7.49	2	0.7	<0.1	3.0	386	<0.1	0.1	<0.1	150
STD OREAS45C	Standard		2.4	648.7	27.6	90	0.4	305.0	104.9	1200	19.52	12	2.5	<0.1	11.4	37	0.2	0.9	0.2	253
STD OXH82	Standard	1.210																		
STD OXH82	Standard	1.285																		
STD OXK79	Standard	3.748																		
STD OXK79	Standard	3.659																		
STD OREAS24P Expected			1.5	52	2.9	119	0.06	141	44	1100	7.53	1.2	0.75		2.85	403	0.15	0.09		158
STD OREAS45C Expected			2.26	620	24	83	0.28	333	104	1160	18.33	10.1	2.4	0.045	10.2	36.4	0.15	0.79	0.21	270
STD OXH82 Expected		1.278																		
STD OXK79 Expected		3.532																		
BLK	Blank	<0.005																		
BLK	Blank	<0.005																		
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1
BLK	Blank	<0.005																		
BLK	Blank	<0.005																		
Prep Wash																				
G1	Prep Blank	<0.005	0.2	1.9	20.5	52	<0.1	3.4	5.0	756	2.36	<1	2.9	<0.1	8.2	702	<0.1	<0.1	0.1	46
G1	Prep Blank	<0.005	0.3	2.2	21.9	54	<0.1	3.9	5.4	764	2.47	1	3.0	<0.1	8.9	702	<0.1	<0.1	0.1	48



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

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 880 - 609 Granville St.
 Vancouver BC V7Y 1G5 Canada

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QUALITY CONTROL REPORT

SMI11000459.1

Method	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	
Unit	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	
Reference Materials																					
STD OREAS24P Standard	5.57	0.140	19.3	194	4.16	287	1.065	7.71	2.561	0.66	0.5	135.6	37	1.7	21.3	19.7	1.1	<1	20	8.5	
STD OREAS45C Standard	0.53	0.057	28.1	957	0.25	302	1.279	7.58	0.103	0.34	1.2	173.0	52	3.3	13.4	24.3	1.6	<1	64	17.6	
STD OXH82 Standard																					
STD OXH82 Standard																					
STD OXK79 Standard																					
STD OXK79 Standard																					
STD OREAS24P Expected	5.83	0.136	17.4	196	4.13	285	1.1	7.66	2.34	0.7	0.5	141	37.6	1.6	21.3	21	1.04		20	8.7	
STD OREAS45C Expected	0.482	0.051	26.2	962	0.25	270	1.1313	7.59	0.097	0.36	1.06	169.7	54	2.9	12.9	23.05	1.43		59.03	15.69	
STD OXH82 Expected																					
STD OXK79 Expected																					
BLK Blank																					
BLK Blank																					
BLK Blank	<0.01	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	
BLK Blank																					
BLK Blank																					
Prep Wash																					
G1 Prep Blank	2.32	0.084	26.2	9	0.61	978	0.233	7.08	2.856	3.11	0.4	14.5	52	1.6	14.2	24.5	1.5	2	5	36.9	
G1 Prep Blank	2.34	0.089	27.8	11	0.66	1061	0.245	7.27	2.915	3.37	0.2	14.4	54	1.5	14.6	26.4	1.6	2	5	37.0	



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

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880 - 609 Granville St.

Vancouver BC V7Y 1G5 Canada

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Page: 1 of 1 Part 3

QUALITY CONTROL REPORT

SMI11000459.1

Method	1EX	1EX	1EX
Analyte	S	Rb	Hf
Unit	%	ppm	ppm
MDL	0.1	0.1	0.1
Reference Materials			
STD OREAS24P	Standard	<0.1	22.0 3.5
STD OREAS45C	Standard	<0.1	25.7 4.8
STD OXH82	Standard		
STD OXH82	Standard		
STD OXK79	Standard		
STD OXK79	Standard		
STD OREAS24P Expected		22.4	3.6
STD OREAS45C Expected	0.021	24	4.27
STD OXH82 Expected			
STD OXK79 Expected			
BLK	Blank		
BLK	Blank		
BLK	Blank	<0.1	<0.1 <0.1
BLK	Blank		
BLK	Blank		
Prep Wash			
G1	Prep Blank	<0.1	118.4 0.8
G1	Prep Blank	<0.1	123.3 0.8

Appendix 8: Maps

Figure 3. 2011 Soil Sample Locations

Figure 4. 2011 Soil Sample Values Gold (ppb)

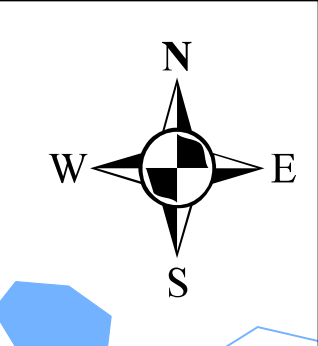
Figure 5. 2011 Soil Samples Values Copper (ppm)

Figure 6. 2011 MMI Sample Locations

Figure 7. 2011 MMI Sample Values Gold (ppb)

Figure 8. 2011 MMI Sample Values Copper (ppb)

Figure 9. 2011 Rock Descriptions and Sample Locations



572235

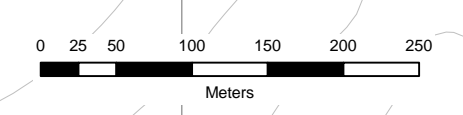
572238

518532

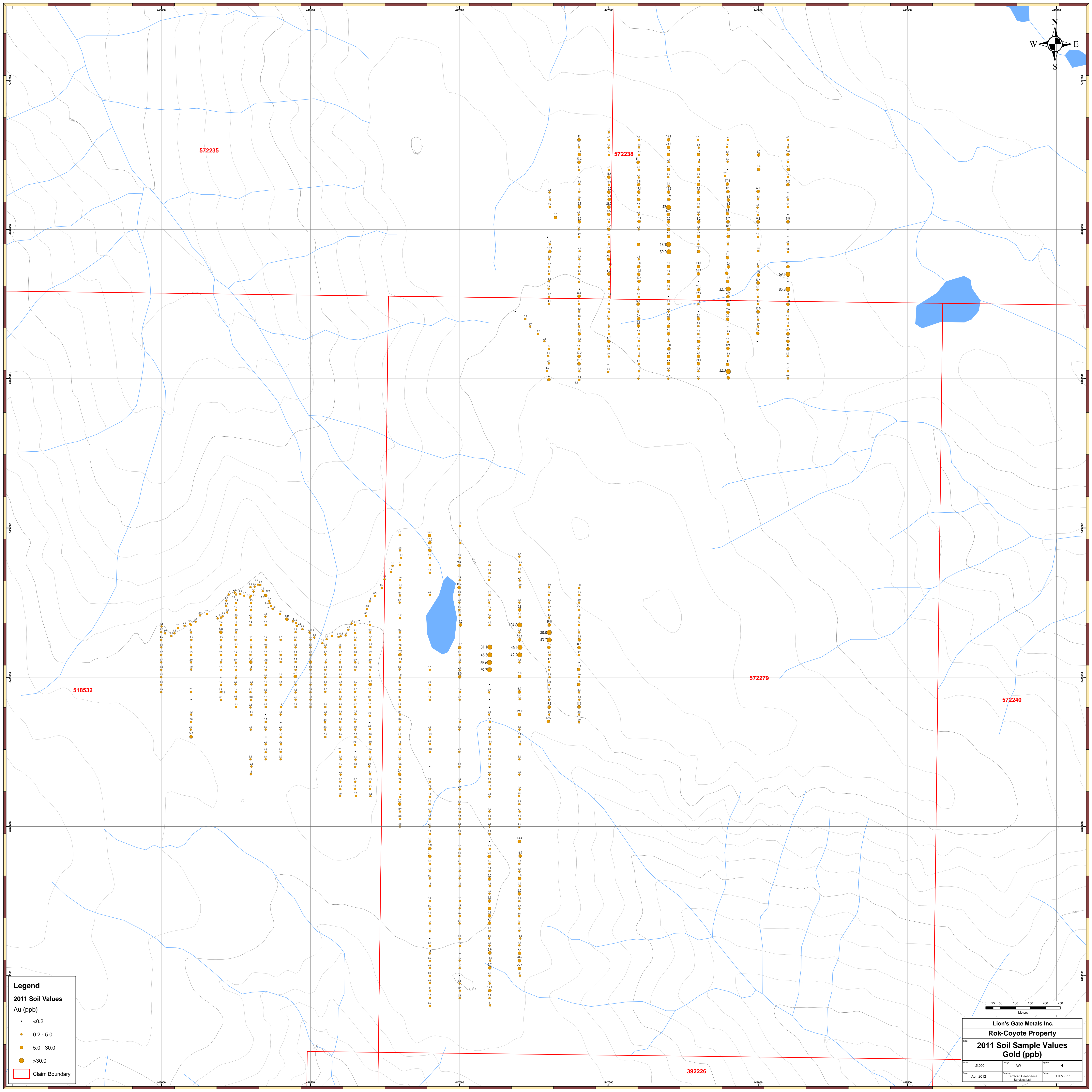
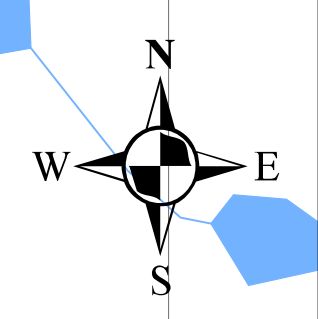
572279

572240

392226



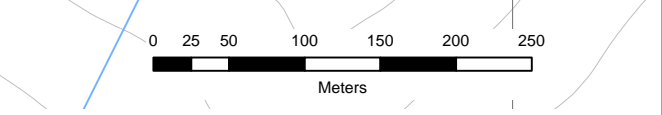
Lion's Gate Metals Inc.			
Rok-Coyote Property			
2011 Soil Sample Locations			
Scale: 1:5,000	Project: AW	Page: 3	
Date: Apr. 2012	Prepared: Terraced Geoscience Services Ltd.	Drawn: UTM / Z 9	



Legend
2011 Soil Values
Au (ppb)

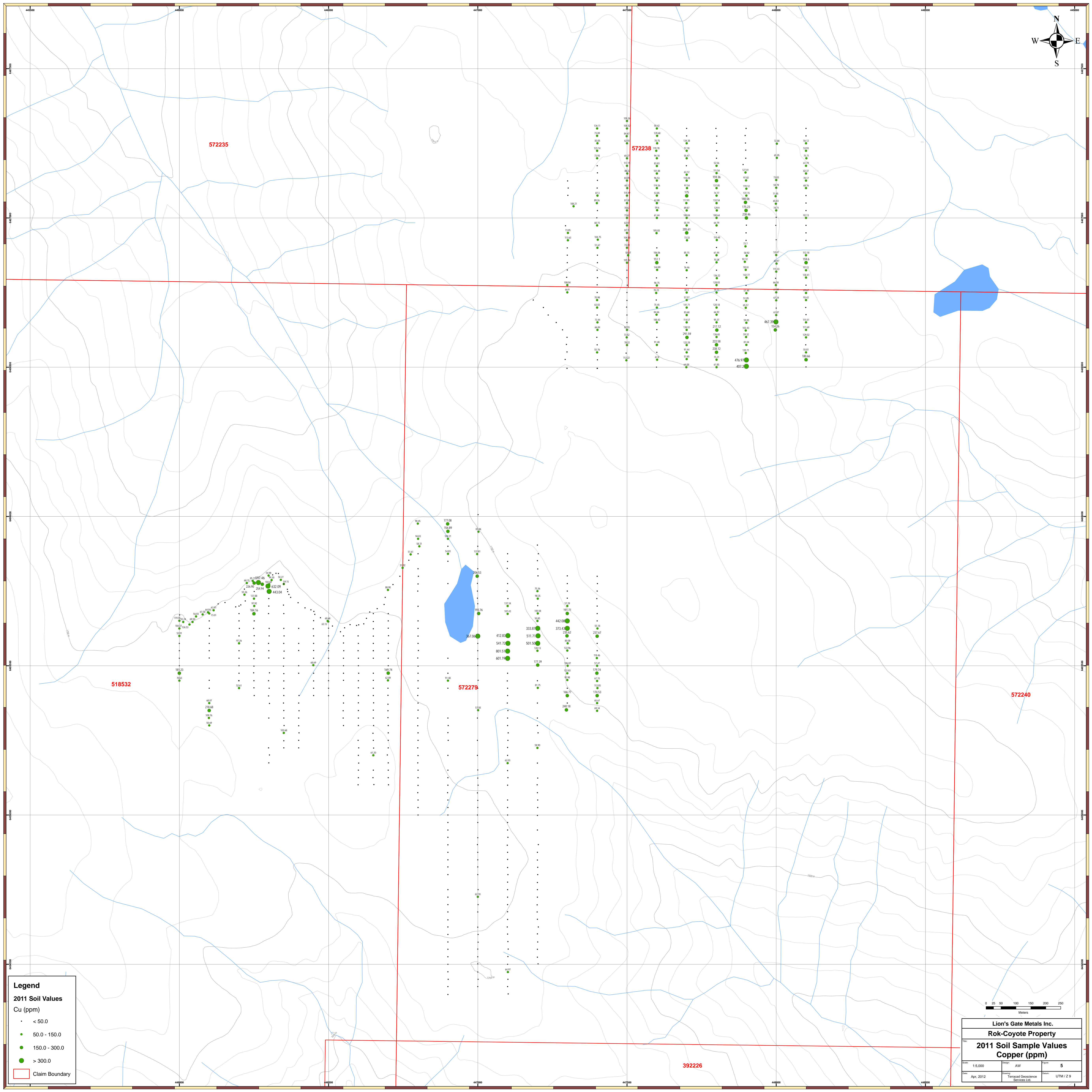
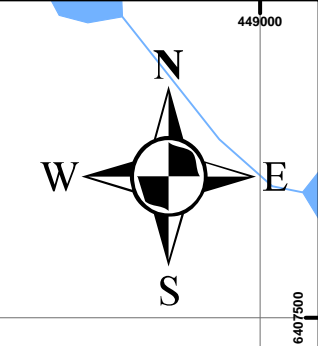
- <0.2
- 0.2 - 5.0
- 5.0 - 30.0
- >30.0

□ Claim Boundary



Lion's Gate Metals Inc.			
Rok-Coyote Property			
2011 Soil Sample Values			
Gold (ppb)			
Scale: 1:5,000	Drawn: AW	Page: 4	
Date: Apr, 2012	Checked: Temiscad Geoscience Services Ltd	Drawn: UTM / Z 9	

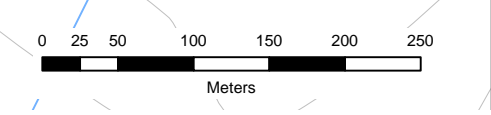
392226



Legend
2011 Soil Values
Cu (ppm)

- < 50.0
- 50.0 - 150.0
- 150.0 - 300.0
- > 300.0

Claim Boundary



Lion's Gate Metals Inc.
Rok-Coyote Property
2011 Soil Sample Values
Copper (ppm)

Scale	1:5,000	Drawn by	AW	Page	5
Date	Apr, 2012	Checked by	Temagoc Geoscience Services Ltd.	Drawn	UTM / Z 9



572238

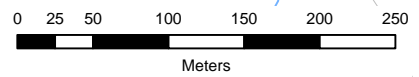
- R11-K310●
- R11-K312●
- R11-K314●
- R11-K316●
- R11-K318●
- R11-K320●
- R11-K322●
- R11-K324●
- R11-K326●
- R11-K328●
- R11-K332●
- R11-K334●
- R11-K340●
- R11-K342●
- R11-L308●
- R11-L306●
- R11-L304●
- R11-L302●
- R11-L300●
- R11-L298●
- R11-L296●
- R11-L294●
- R11-L292●
- R11-L290●
- R11-L286●
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- R11-L282●
- R11-L280●
- R11-L278●
- R11-L274●

R11-L266●

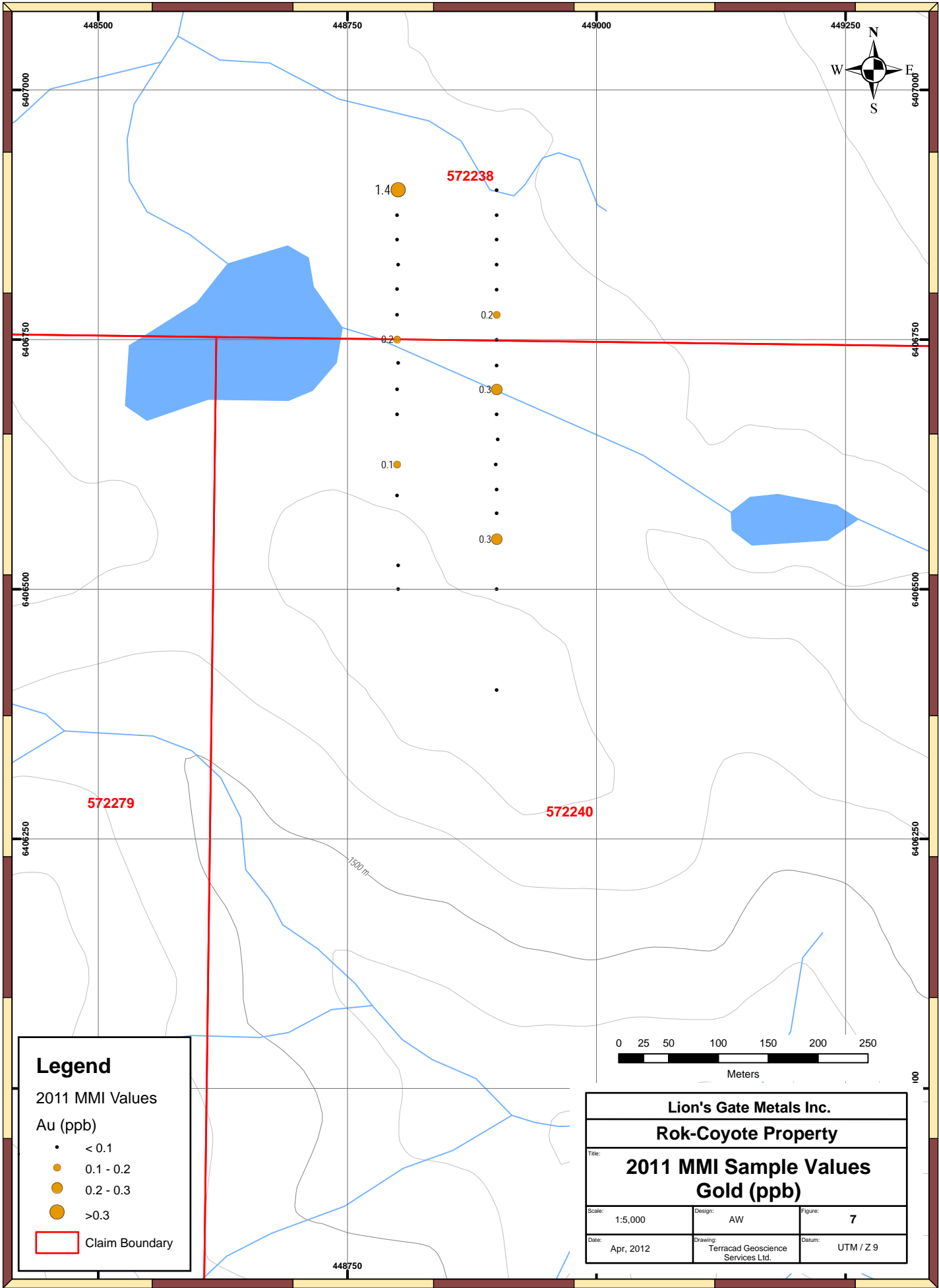
572279

572240

1500 m



Lion's Gate Metals Inc.		
Rok-Coyote Property		
Title:		
2011 MMI Sample Locations		
Scale:	Design:	Figure:
1:5,000	AW	6
Date:	Drawing:	Datum:
Apr, 2012	Terracad Geoscience Services Ltd.	UTM / Z 9

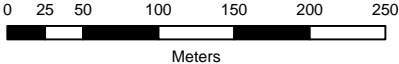


Legend

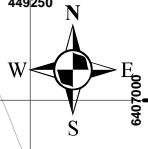
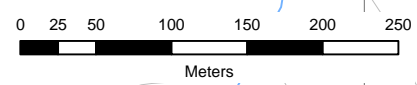
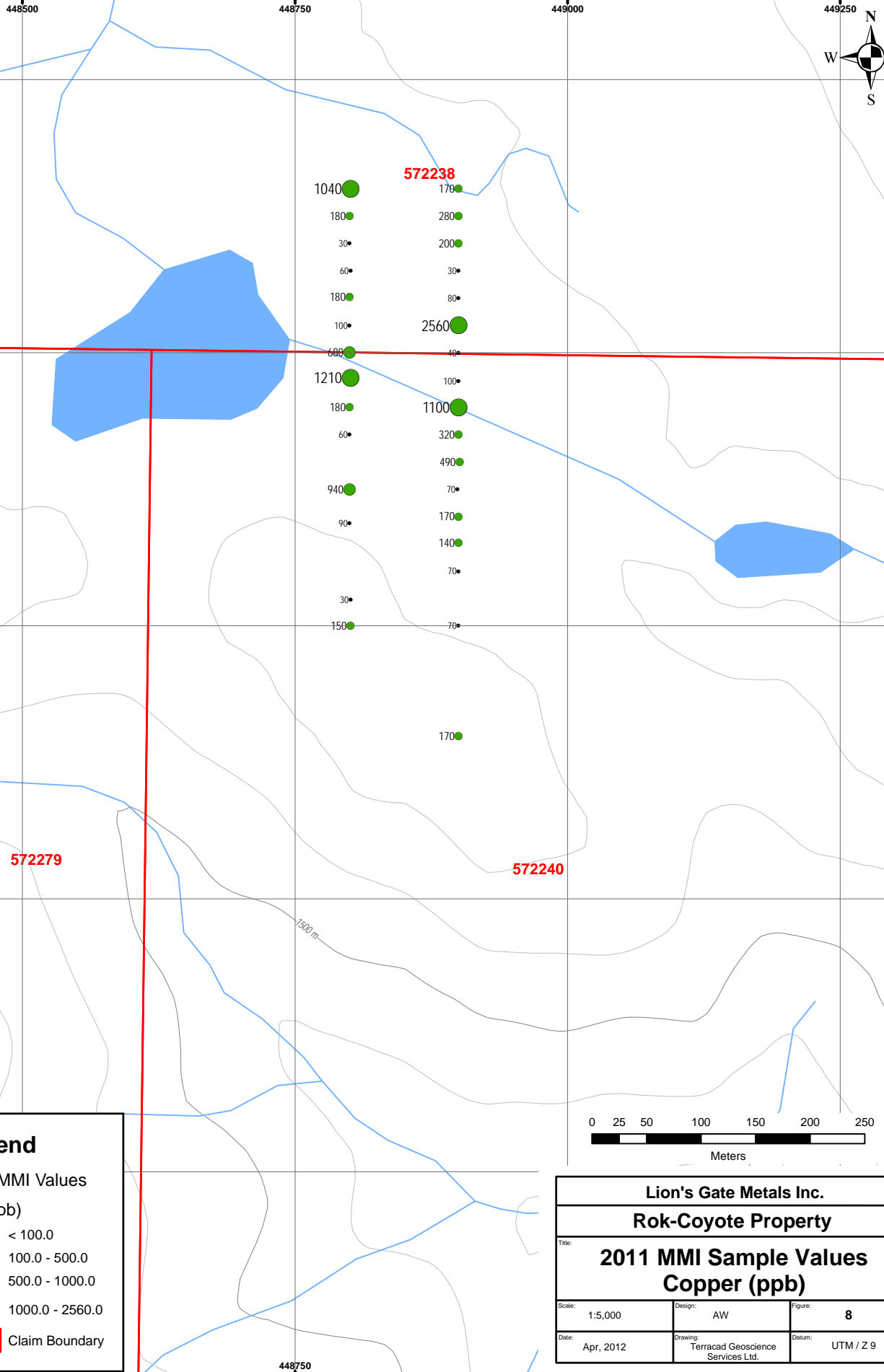
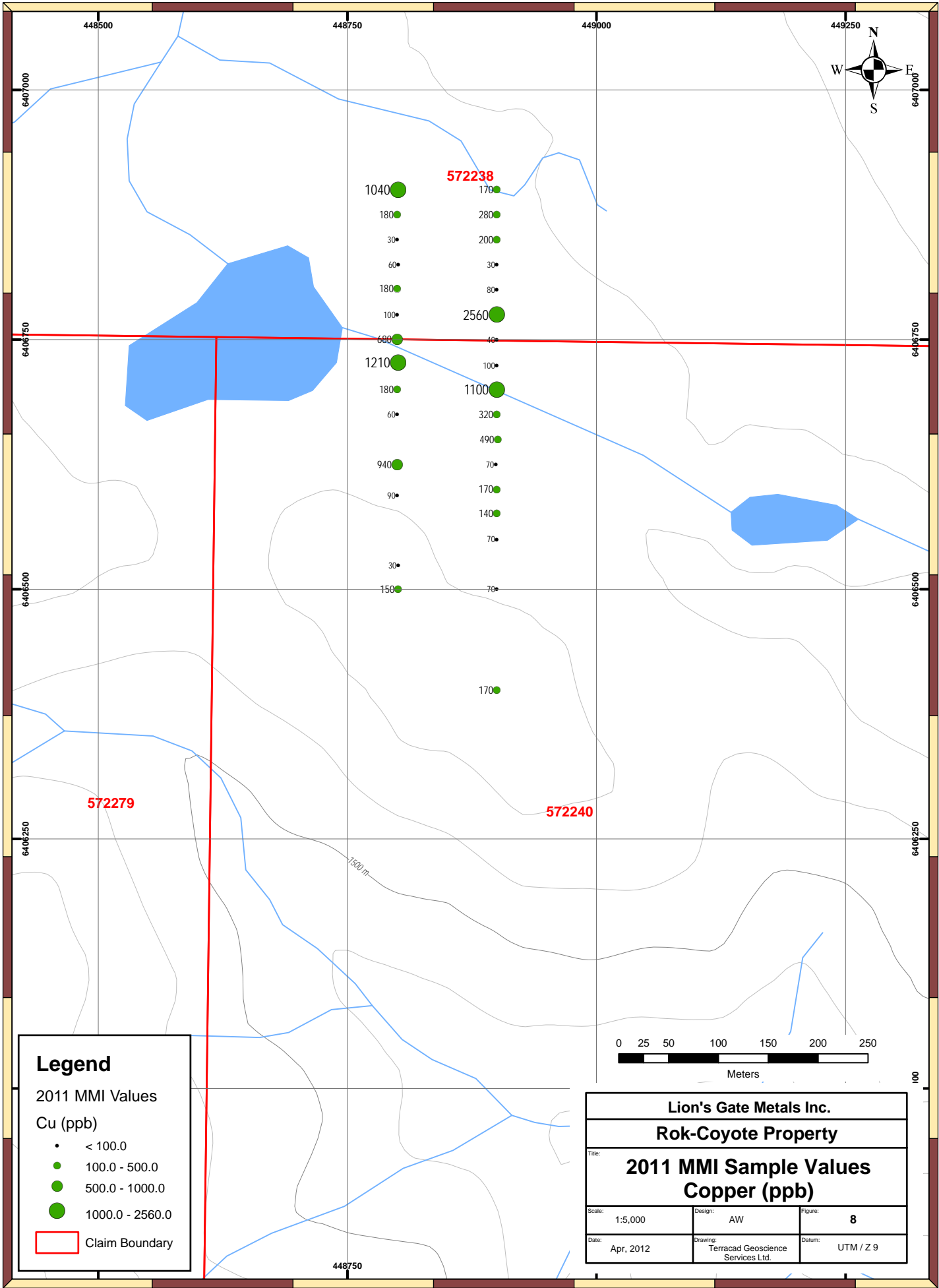
2011 MMI Values
Au (ppb)

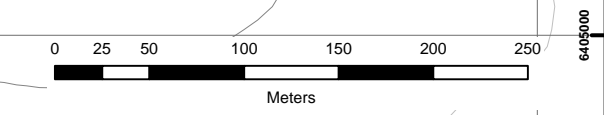
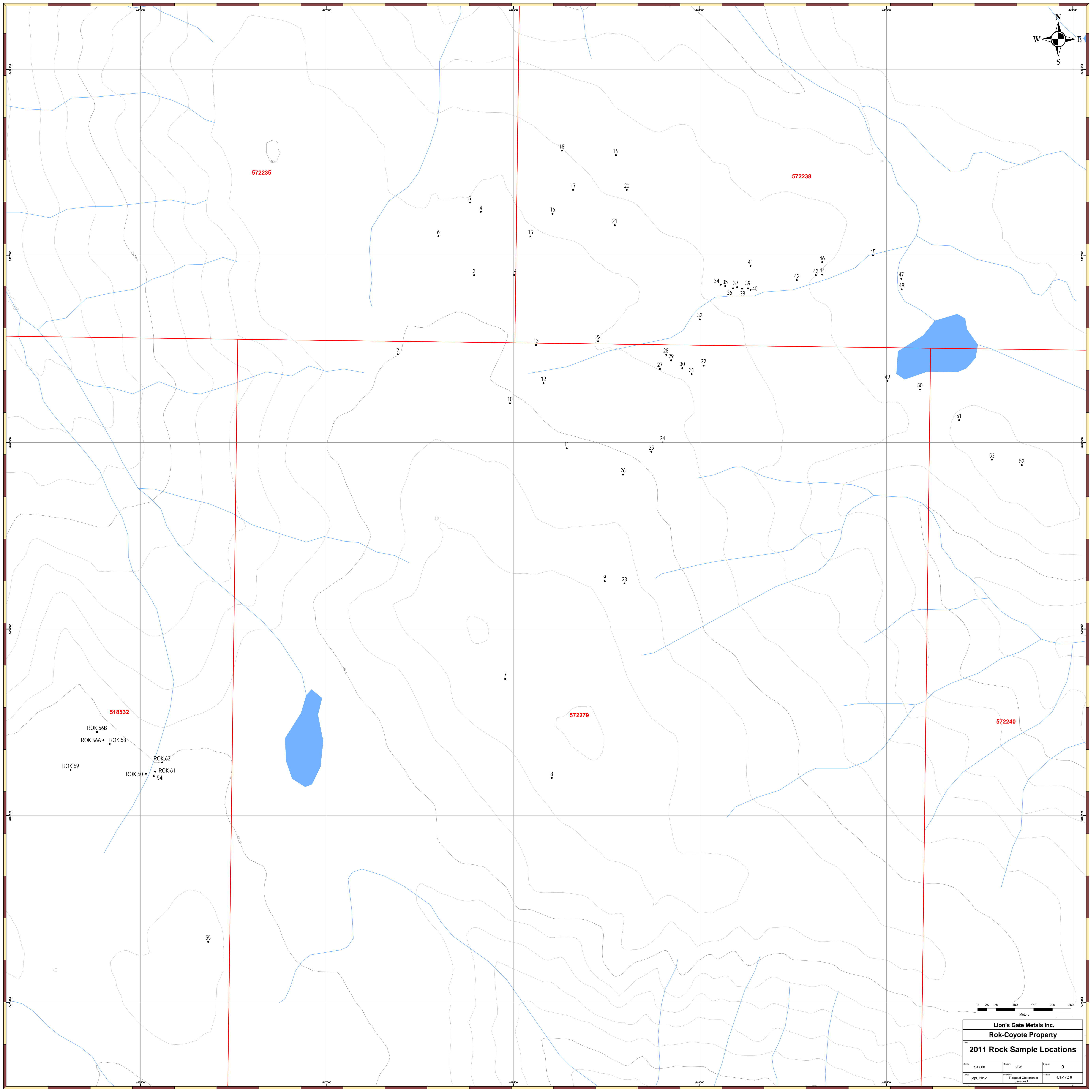
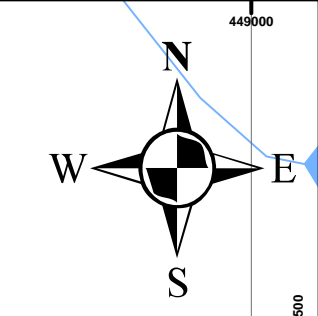
- <math>< 0.1</math>
- 0.1 - 0.2
- 0.2 - 0.3
- >0.3

□ Claim Boundary



Lion's Gate Metals Inc.		
Rok-Coyote Property		
Title: 2011 MMI Sample Values Gold (ppb)		
Scale: 1:5,000	Design: AW	Figure: 7
Date: Apr, 2012	Drawing: Terracad Geoscience Services Ltd.	Datum: UTM / Z 9





Lion's Gate Metals Inc.			
Rok-Coyote Property			
2011 Rock Sample Locations			
Scale: 1:4,000	Sheet: AW	Page: 9	
Date: Apr. 2012	Drawn: Terraced Geoscience Services Ltd.	Datum: UTM / Z 9	