

ARCTURUS VENTURES INC.

TARGET EVALUATION

**ASSESSMENT REPORT ON THE
DIAMOND DRILLING PROGRAM 2011**

ON

RB 1 – 12	YB93186 – YB93197
RB 23 – 38	YB93208 – YB93223
RB 45 – 52	YB93230 – YB93237
RB 53 – 106	YE36902 – YE36955

Claims

**Grass Lakes Area
Finlayson Lake District**

**NTS 105 G/7
61° 17' N and 130° 45' W
In the**

**Watson Lake Mining District
Yukon**

For Arcturus Ventures Inc.

**Prepared by
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Box 10559
Whitehorse, Yukon Y1A 7A1**

December 30, 2011

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1.0 SUMMARY AND CONCLUSIONS

The RB claim group is located in the Finlayson Lake Region on NTS Map Sheet 105 G/7 of the Watson Lake Mining District, Yukon. The property is 200 kilometers northwest of Watson Lake, Yukon. Access to the property is by Helicopter from the Robert Campbell Highway 50 kilometers north of the property. Figure 1 Location Map.

The RB claim group is composed of 90 Quartz claims with an area of 1 822.5 hectares.

The RB claims are located in the Finlayson Lake VMS (Volcanogenic Massive Sulphide) district of east central Yukon. The district hosts significant mineral resources in multiple deposits. The deposits in the district occur in volcanic rocks of Devono-Mississippian and Carboniferous ages. These deposits have been classified as Kuroko- and Besshi-types. The deposits are generally stratabound within units of felsic volcanic rocks (Kuroko-type) or mafic volcanic rocks (Besshi-type). The stratigraphy on the RB claims correlates with the regional geology of the Besshi-type deposit at Fyre Lake.

The RB claim group has undergone property exploration including; airborne EM and magnetic surveys, reconnaissance silt and soil geochemical sampling, prospecting and reconnaissance geological mapping. These preliminary surveys have identified a prospective horizon within the volcanic stratigraphy that correlates with the Fyre Lake deposit host volcanic rocks.

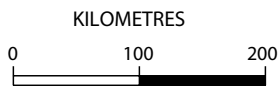
Two mineralized showings have been located and sampled. Channel samples from the JD showing assayed 0.184 g/t gold and 672 ppm copper across a true width of 0.65 metres. The upper 0.35 metres assayed 0.248 g/t gold and 1 335 ppm copper. A malachite stained grab sample from the DM showing assayed 0.163 g/t gold and 9 970 ppm copper.

Three diamond drill holes were completed in 2011 for a total of 542.6 meters. The drilling was carried out by Kluane Drilling Ltd. of Whitehorse and completed between June 16 and June 30, 2011. The drill holes intersected foliaform disseminated to semi-massive pyrite that assayed anomalous gold and copper values in the upper section of the meta-volcanic Fire Lake Unit. Drill hole RB11-01 intersected the JD zone at a vertical depth of 10.0 meters that yielded 0.60 meters grading 0.314 ppm gold, 2800 ppm copper, 78.1 ppm cobalt and 182 ppm zinc in a disseminated oxide iron and sulphide zone. The hole also intersected a semi-massive sulphide band at 67.7 meters grading 0.25 ppm gold, 2835 ppm copper, 46.6 ppm cobalt and 2488 ppm zinc over a 1.2 meter interval. Drill hole RB11-02 intersected weak disseminated sulphide mineralization that yielded weakly anomalous base metal values. Drill hole RB11-04 tested the DM showing. The drill hole intersected 6.0 meters of foliaform disseminated sulphides that averaged 0.02 ppm gold, 759 ppm copper, 45 ppm cobalt and 67 ppm zinc. Drill hole RB11-02 was drilled to test the meta-volcanic horizon that hosts the DM and JD showings between the two targets. The drill hole intersected disseminated sulphides but the intervals were not analyzed.

The diamond drilling program was successful in locating sulphide mineralization anomalous in copper, gold and cobalt in bedrock over a significant distance although the drill holes are too widely spaced to determine the continuity of the mineralization. Additional core sampling, assay analyses and diamond drilling is recommended to test the prospective horizon on the Property.



RB PROPERTY



ARCTURUS VENTURES INC.	
RB PROPERTY YUKON TERRITORY	
LOCATION MAP	
DATE: February, 2011	FIGURE: 1

2.0 INTRODUCTION

Exploration on the Property prior to 2011 identified a stratigraphic horizon within the volcanic rocks that hosted disseminated to semi-massive sulphides that contained copper and gold mineralization. The horizon also contained anomalous zinc, lead and cobalt values. The horizon was variably mineralized over a thickness of an estimated 90 meters. The horizon was traced by geological mapping and geochemical sampling along a length of five kilometers. A potential contemporaneous growth fault was indicated by a dramatic thickening of the overlying carbonaceous argillite unit.

A program of three vertical diamond drill holes was planned to test the volcanic unit along an east-west section line with one drill above each of the JD and DM showings that are located three kilometers apart. A third hole was planned to test the volcanic unit between the two showings.

3.0 LOCATION AND ACCESS

The RB claims are located four kilometers southeast of Grass Lakes and 200 kilometers northwest of Watson Lake, Yukon. Access to the property is by helicopter from Ross River and staging areas on the Kudz Ze Kayah access road from Finlayson Lake. Helicopter was supplied by Kluane Airways from the base at the Inconnu Lodge at McEvoy Lake for the 2011 diamond drilling program.

The property covers a prominent northerly trending ridge with adjacent valleys. The terrain is alpine featuring rocky cirques and steep slopes divided by steep sided creek valleys.

4.0 PROPERTY

The property is comprised of 90 quartz claims as shown in Figure 2 and listed in Table I.

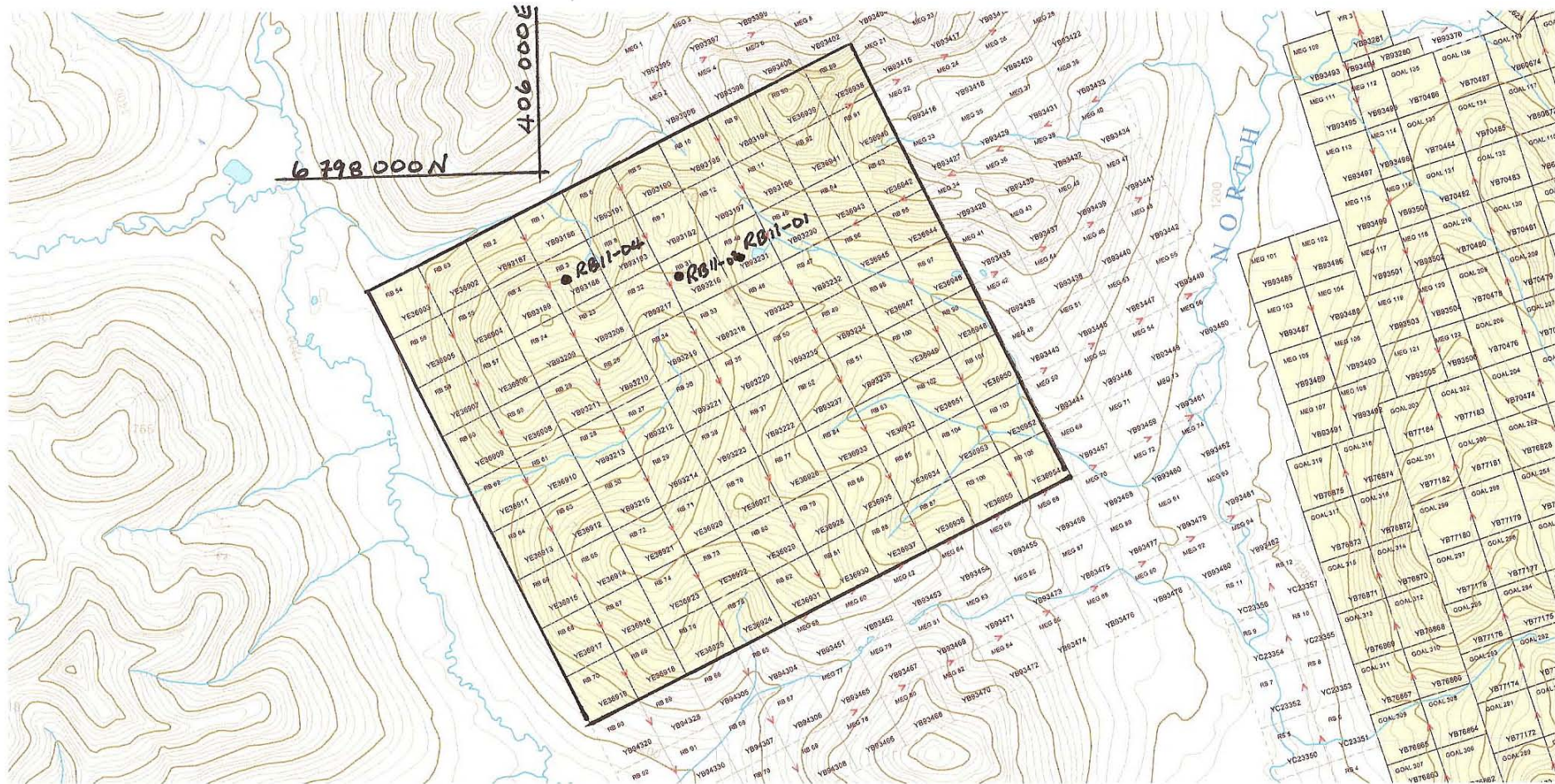
Table I RB Claims

Name	Registration Number	Expiry Date
RB 1 – 12	YB93186 – YB93197	August 30, 2020
RB 23 – 38	YB93208 – YB93223	August 30, 2020
RB 45 – 52	YB93230 – YB93237	August 30, 2020
RB 53 – 106	YE36902 – YE 36955	June 26, 2017

The claims are owned 100% by Arcturus Ventures Inc.

UTM NAD 83

ARCTURUS VENTURES INC.



1 Km
Scale

Figure 2
Claim Location Map
RB Claims

December 20, 2011

105G 07

WATSON LAKE M.D.

5.0 HISTORY

The RB claims area has been intermittently explored since 1966 by a number of different companies. The exploration consisted of reconnaissance geochemical and geophysical surveys that have never been followed up with diamond drilling. The phases of exploration coincided with discoveries of base metal deposits beginning with Faro in 1966 and Kudz Ze Kayah in 1994. A summary report of these exploration programs is outlined in Minfile occurrence 105 G 48.

Arcturus Ventures Inc. acquired the current claims by staking on May 30, 2001. Arcturus Ventures Inc. carried out reconnaissance mapping and geochemical sampling in 2002 Assessment Report # 094398 and 2003 and 2004 and the work is reported in Assessment Report # 094503. Widely spaced reconnaissance soil sample baselines, reconnaissance soil sample lines, silt sediment sampling, prospecting and geological mapping was carried out. The focus of the programs was to explore for VMS type base metal deposits and assess the potential for emerald occurrences. In 2010 Arcturus Ventures Inc. conducted geologic mapping, prospecting and stream sediment and soil sampling on the RB property. Twenty-one rock samples were collected from outcrops or float on the property. 159 soil samples were collected from systematic grid lines in the vicinity of the known mineralized showings. The lines were positioned to trace the projected trend of the mineralization. Eight silt sediment samples were collected from the creek drainage in the south western corner of the claim group.

Arcturus Ventures Inc. added the RB 53 – 106 claims in June 2011.

The exploration programs identified the potential for the RB claims to host a besshi-type VMS deposit based on geology and setting similar to the Fyre Lake deposit, two VMS style mineral occurrences on the property and limited geochemical sampling. The two strata-bound mineralized base-metal showings are identified as the JD and DM showings.

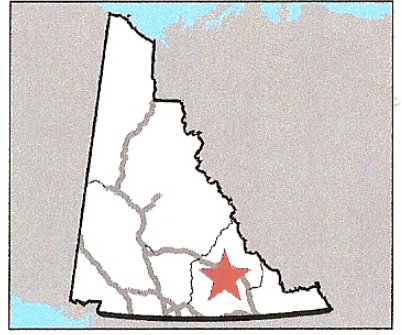
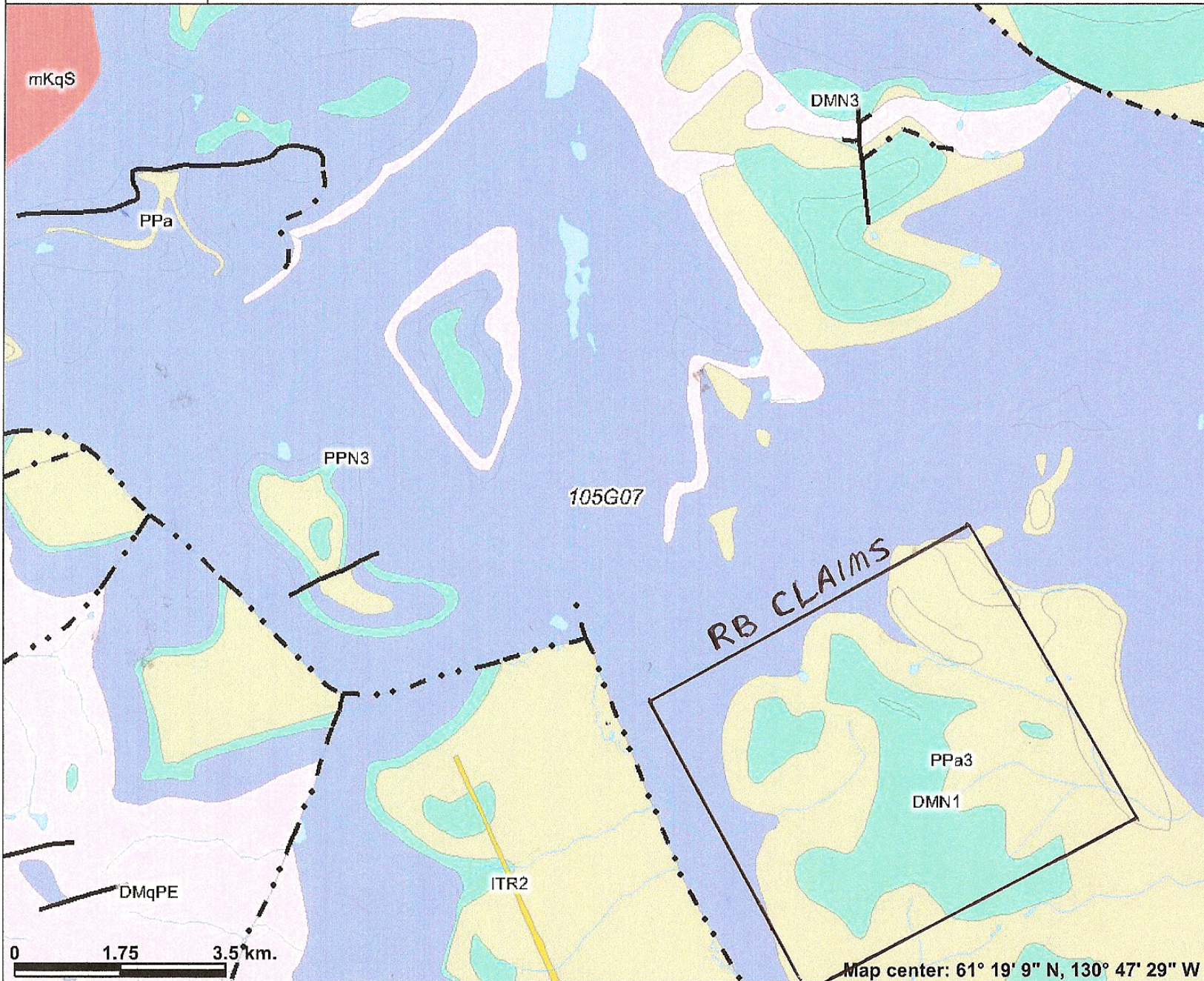
6.0 GEOLOGICAL SETTING

6.1 Regional Geology

The RB Property is in the Yukon-Tanana Terrane (YTT) in southeastern Yukon. The YTT in the RB area is composed of a package of rocks termed the Layered Metamorphic Sequence (LMS). The LMS is a penetratively deformed volcano-sedimentary assemblage previously referred to as the Nasina Quartzite and Klondike Schist. The LMS has been intruded by contemporaneous meta-gabbro sills and a group of Palaeozoic plutonic and meta-plutonic rocks. Cretaceous to Tertiary aged volcanic, sub-volcanic and plutonic rocks intruded the package of rocks. Figure 3.

Two (2) phases of deformation with regional metamorphism are recognized in the YTT. The regional metamorphism is in the green schist to lower amphibolite facies. The sub-horizontal foliation is sub-parallel to the compositional layering. The foliation in the RB area strikes west to northwest and dips gently to the north and northwest.

Figure 3 Regional Geology



Legend

FAULTS (ZOUK)

- defined
- approximate
- assumed
- extrapolated
- defined
- extrapolated
- defined
- approximate
- assumed
- extrapolated
- defined
- approximate
- assumed
- extrapolated
- defined
- approximate
- assumed
- extrapolated



Scale: 1:100,000

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

SEE ACCOMPANYING GEOLOGICAL LEGEND

LEGEND REGIONAL GEOLOGY TO ACCOMPANY FIGURE 3.

LOWER TERTIARY, MOSTLY(?) EOCENE



ITR: ROSS

mixed bimodal volcanics (basalt (1), rhyolite (2)) and terrestrial clastics (3), dominantly along or near Tintina Fault; farther removed, scattered occurrences of rhyolitic lava and dikes (4) are also included

2. rhyolite flows, tuffs, ash-flow tuffs and breccias, locally laminated; small stocks and necks of white weathering, flow-banded, quartz-sanidine porphyry to granite porphyry, locally obsidian bearing; local shale, sandstone and conglomerate

MID-CRETACEOUS

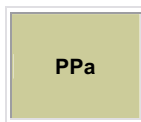


mKS: SELWYN SUITE

plutonic suite of intermediate (g) to more felsic composition (q) and rarely syenitic (y); equivalent felsic dykes (f); complete compositional gradation so that these designations are somewhat arbitrary

- q. equigranular to porphyritic (K-feldspar) biotite +/- hornblende +/- muscovite granite, quartz monzonite and granodiorite; porphyritic biotite hornblende granite with large smoky grey quartz phenocrysts and locally K-feldspar phenocrysts (**Selwyn Suite**)

PROTEROZOIC AND PALEOZOIC

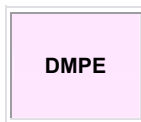


PPa: AMPHIBOLITE

metamorphosed mafic rocks including amphibolite (1) and ultramafic rocks (2) of unknown association; i.e.) may belong in part or entirely to Nisling, Nasina, and Slide Mountain assemblages and (3), mafic-ultramafic intrusions within Nasina assemblage

3. calcareous actinolite-plagioclase-chlorite-biotite schist, plagioclase-actinolite-chlorite schist, and lesser carbonaceous phyllite and quartzite; metamorphosed ultramafic rocks including dunite and pyroxenite, locally serpentinized

LATE DEVONIAN TO MISSISSIPPIAN



DMPE: PELLY GNEISS SUITE - NORTHEAST

variably deformed granitic rocks of predominantly felsic (q) to intermediate composition (g) northeast of Tintina Fault (**Simpson Range Suite**)

- q. resistant, medium grey weathering, porphyritic (pink K-feldspar) biotite quartz monzonite; generally fresh to weakly saussuritized, locally shattered and recemented

DEVONIAN, MISSISSIPPIAN AND(?) OLDER



DMN: NASINA

graphitic quartzite and muscovite quartz-rich schist (1), (3)-(5), and(?) (6) with interspersed marble (2) and probable correlative successions (7) - (9)

1. dark grey to black, fine grained graphitic and non-graphitic quartzite, grey micaceous quartzite and quartz muscovite (+/-chlorite; +/- feldspar augen) schist, locally garnetiferous; minor graphitic stretched metaconglomerate and metagrit (**Nasina assem.**)
2. marble (**Nasina assem.**)
3. quartzite, micaceous quartzite, quartz muscovite (+/-chlorite; +/- feldspar augen) schist, and minor metaconglomerate and metagrit as in (1), but may locally include significant Nisling Assemblage
4. quartzite, micaceous quartzite, quartz muscovite (+/-chlorite; +/- feldspar augen) schist, and minor metaconglomerate and metagrit as in (1), but may locally include significant Klondike Schist Assemblage
5. black-weathering, massive, dark grey to black strongly graphitic quartzite with lesser grey micaceous quartzite and quartz mica schist; commonly shows alternating light and dark grey colour lamination (**Nasina quartzite**)

6.2 Property Geology

There are four (4) rock units mapped on the RB property. Figure 4. The rock units are meta-sedimentary or meta-volcanic rocks. The units correlate with regional units mapped by Murphy and Piercey (1999).

The oldest unit is 1qsu called the upper quartzite meta-clastic unit of Murphy. The unit is composed of quartz schist and micaceous quartzite with lesser quartz-pebble conglomerate and chlorite-biotite schist and grey carbonaceous quartzite.

Conformably overlying the quartzite unit are the 2m meta-volcanic rocks. The unit is composed of massive bedded calcareous plagioclase-chlorite-biotite-actinolite schist interlayered with weakly layered plagioclase-chlorite-biotite-actinolite schist and minor carbonaceous phyllite and quartzite. The lower contact is a thrust fault with the quartzite unit. The 2m unit hosts the mineralized magnetite-sulphide mineralized horizon.

Unit 3f is composed of light grey, tan to white thin platy quartz-muscovite schist with local small scale augen of quartz and feldspar. The unit occurs near the contact of the underlying meta-volcanic unit locally within the overlying carbonaceous unit. The unit indicates felsic volcanism at the end of the mafic volcanic activity and transition to the sedimentary deposition.

The youngest rocks on the property are unit 3cp composed of medium to dark grey carbonaceous muscovite-quartz schist or phyllite, quartzite and rare light grey marble occurrences. The unit is an erosional remnant although the unit appears to be dramatically thicker in the southwest area of the property. This may be indicative of the postulated contemporaneous growth fault through the property.

7.0 MINERALIZATION

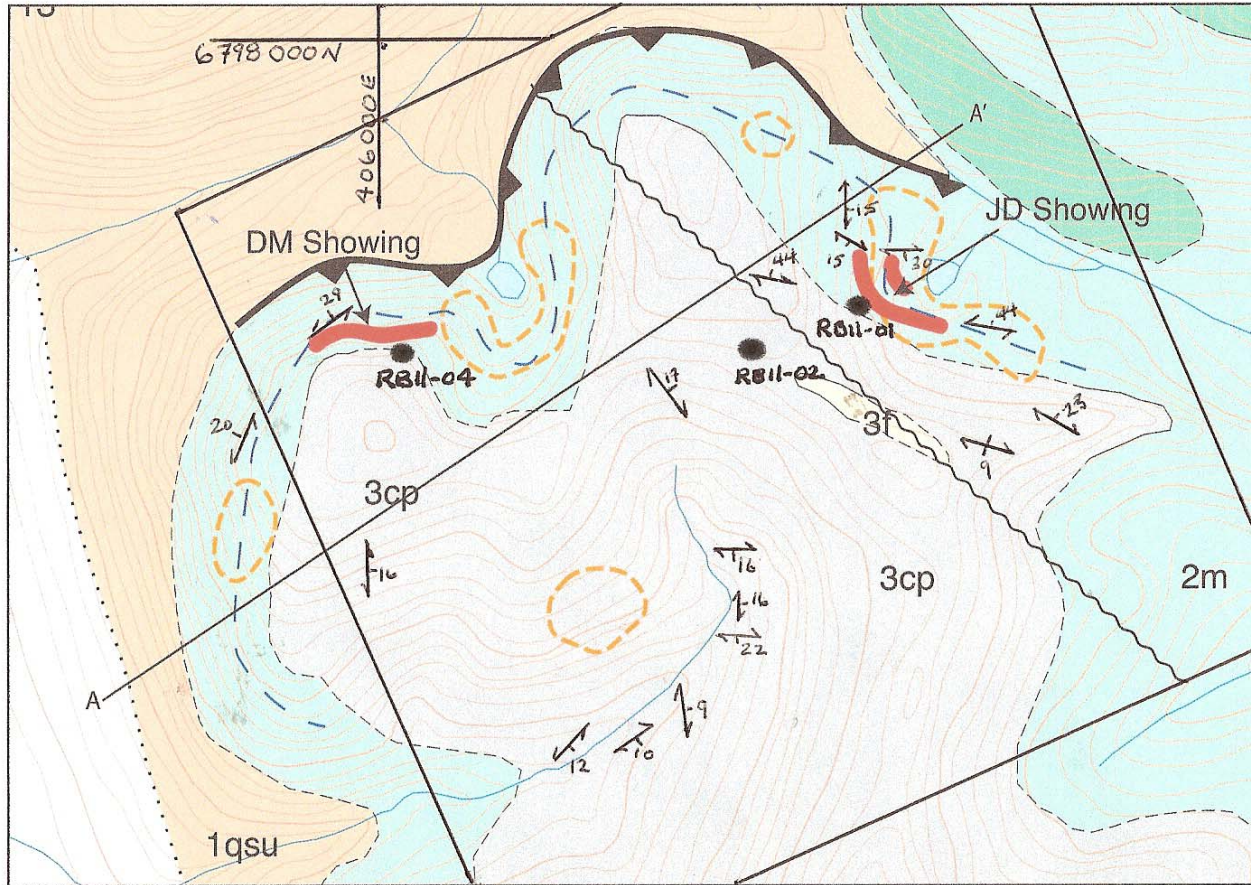
Two gold-base metal showings have been located on the RB property. The location of the showings is exhibited on Figure 4.

The JD Showing is located near UTM co-ordinates 407836 E and 6796924 N (Nad 83). Channel samples from 2010 across the mineralization yielded values of 0.184 g/t gold and 672 ppm copper over 65 centimeters. The upper half of the interval yielded 0.248 g/t gold and 1 335 ppm copper. The lower half of the interval assayed 0.068 g/t gold and 365 ppm copper.

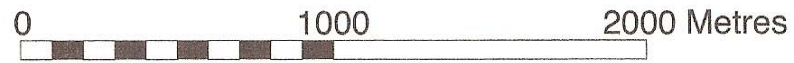
The mineralization consists of coarse grained euhedral black magnetite crystals up to six (6) millimeters that occur along bands of strongly foliated chlorite schist. Pyrite and rare chalcopyrite grains are disseminated along thin horizons within the foliated schist. The showing occurs in a low outcrop two (2) meters tall and five (5) meters long. Low outcrops and coarse talus blocks of mineralized schist can be traced over a total strike length of 30 meters.

The DM Showing is located near UTM co-ordinates 406300 E and 6796910 N (Nad 83) on the western side of the property approximately three kilometers from the JD occurrence. Sampling of narrow horizons (10 – 30 centimeters) within a sequence of strongly foliated chlorite schist yielded assay values of up to 0.163 g/t gold and 9970 ppm copper. Mineralization consists of disseminated pyrite and chalcopyrite with malachite weathering on surface. The showing consists of abundant narrow horizons spread over a large exposure of chlorite schist on a steep west facing slope 150 meters wide and exposed over a 40 meter true thickness.

RB Claims - Sulphide Showings and Copper Anomalies



- 3f** Light grey, tan to white platy quartz-muscovite schist, locally with mm-scale quartz and feldspar augen
- 3cp** Medium to dark grey carbonaceous muscovite-quartz schist or phyllite, quartzite, uncommon light grey marble.
- 2m** Massive calcareous actinolite-plagioclase-chlorite-biotite schist, subtly layered plagioclase-actinolite-chlorite schist, and lesser carbonaceous phyllite and quartzite
- 1qsu** Upper quartzose metaclastic unit: biotite-muscovite quartz schist and micaceous quartzite, lesser quartz-pebble conglomerate and chlorite-biotite schist, uncommon grey carbonaceous quartzite. Narrowly transitional upward to Unit 2m



True North
1°32'
Grid North
32°36'
Magnetic North

- Sulphide Showing
- Copper Geochem Anomaly (> 100 ppm)
- Suggested Horizon Boundary
- Potential Growth Fault
- Thrust Fault
- DRILL HOLE COLLAR (-90°)
RB11-04

FIGURE 4.
RB CLAIMS
PROPERTY GEOLOGY

After Murphy, '97

8.0 DIAMOND DRILLING

The first diamond drill holes on the Property were carried out between June 16 and June 30, 2011. The diamond drilling was carried out on contract by Kluane Drilling Ltd. of Whitehorse, Yukon. Three vertical drill holes were completed along an east-west section between the JD and DM mineralized showings. The total drilling completed was 542.6 meters in the three holes.

The location of the drill holes is displayed on the Geology Map Figure 4 and a schematic cross section of the Property. The geology intersected in the drill holes confirmed the original interpretation as presented on the figure. Drill logs with descriptive notes are included in Appendix 4. The drill core was logged by Mr. T. Liverton PhD. The assay results are also included in Appendix 4.

Table: List of Diamond Drill Holes 2011

Hole Id.	UTM North	UTM East	Azimuth	Dip Angle	Depth (meters)
RB11-01	6797100	407600	090°	- 90°	210.3
RB11-02	6797000	407100	090°	- 90°	214.9
RB11-03	6796850	406700	090°	- 90°	Not Drilled
RB11-04	6796850	406150	090°	- 90°	117.4

The JD horizon was intersected in drill hole RB11-01 at a vertical depth of 10.0 meters that yielded 0.60 meters grading 0.314 ppm gold, 2800 ppm copper, 78.1 ppm cobalt and 182 ppm zinc in a disseminated oxide iron and sulphide zone. A narrow band of semi-massive sulphides was also intersected at 67.7 meters grading 0.25 ppm gold, 25 ppm copper, 46.6 ppm cobalt and 2488 ppm zinc over a 1.2 meter interval (true width).

Drill hole RB11-02 intersected the overlying carbonaceous siltstone unit before encountering the favorable mafic meta-volcanic unit. Disseminated pyrite intervals were noted within the mafic meta-volcanic unit. Two samples at 61 meters yielded anomalous low values in gold, copper, zinc and cobalt.

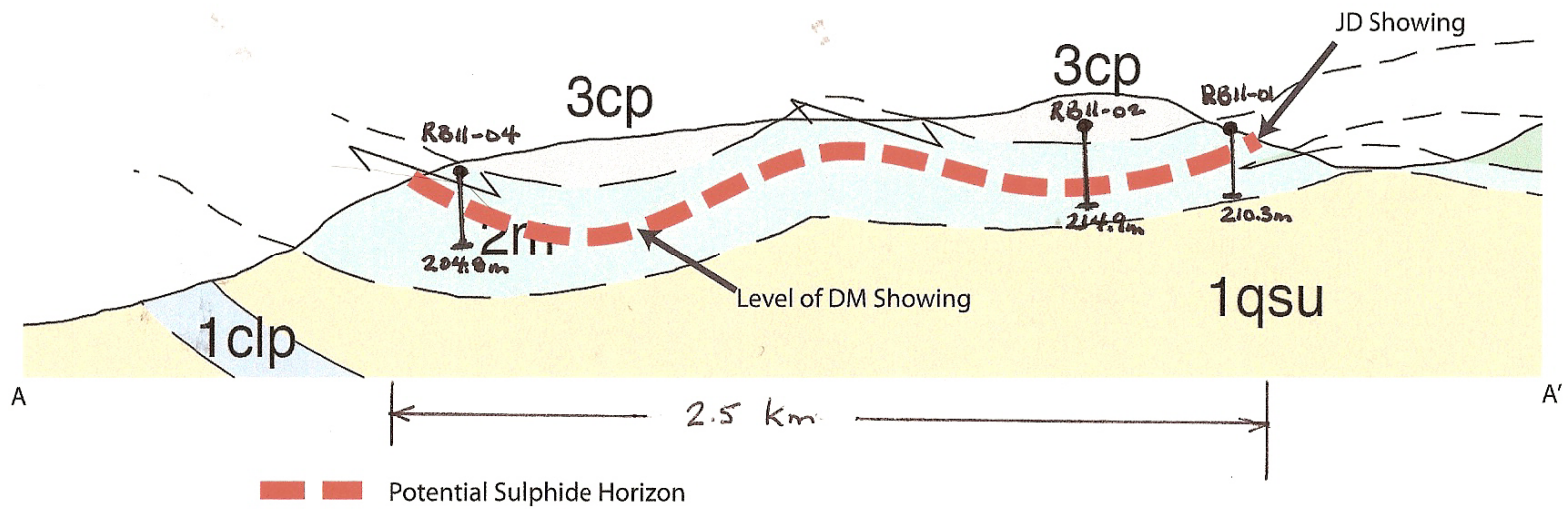
Drill hole RB11-04 tested the DM showing. The drill hole intersected 6.0 meters of foliaform disseminated sulphides with minor malachite at a depth of 19.2 meters that averaged 0.02 ppm gold, 759 ppm copper, 45 ppm cobalt and 67 ppm zinc. Additional similar style sulphide mineralization has been observed by the Author in the drill core but has not analyzed.

All of the drill holes indicate the presence of manganese that is indicative of the VMS mineralized horizon.

9.0 SAMPLING METHODS AND APPROACH

The drill core was logged and sampled at the drill sites and the core is stored at each individual drill site. Sample intervals were based on the presence of sulphide mineralization and stratigraphic breaks a total of 15 samples were collected from the three drill holes. Samples were obtained by splitting core intervals with a hand operated wheel splitter with one half returned to the core box and the other half placed in a labeled poly sample bag. Sample intervals were nominally 0.3 meters or 1.2 meters in length.

RB Claims - Cross Section with Suphide Horizon



LOOKING NORTHWEST

After Murphy, '97

ARCTURUS VENTURES INC.
STRATIGRAPHIC CROSS SECTION
A-A'

FIGURE 5

December 20, 2011

10.0 SAMPLE PREPARATION, ANALYSIS AND SECURITY

Multi-element analyses for rock samples were carried out at AGAT Laboratories Mississauga, Ontario. Each sample was dried, fine crushed to better than 70% passing -2mm and then a 250 gram split was pulverized to better than 85% passing 75 micron. The fine fraction was then analyzed for gold using fire assay followed by inductively coupled plasma-atomic (ICP) emission spectroscopy analysis. Mercury and 41 other elements were analyzed by using an aqua regia digestion and inductively coupled plasma-atomic emission spectroscopy analysis ICP-OES and Hg-CVAA. AGAT Laboratories is an independent commercial assay company.

Employees of Arcturus Ventures Inc. delivered the samples directly to the preparation laboratory of AGAT Laboratories located in Whitehorse.

11.0 INTERPRETATION AND CONCLUSIONS

Geological mapping and diamond drilling indicates that the sulphide/magnetite-sulphide occurrences on the RB property are volcanogenic and stratabound. The property is underlain by the same stratigraphic units that host the Fyre Lake VMS Besshi-type deposit. The increased thickening of the upper carbonaceous unit is further support for the previously postulated contemporaneous growth fault trending through the property (Foreman, 2004). The magnetite (oxide) iron formation deposits form distal to VMS mineralization often overlying the deposits. A band of semi-massive sulphide weakly anomalous in metals has been intersected at a stratigraphic horizon 49 meters below the magnetite bearing JD showing horizon. This zone is highly prospective property wide.

Diamond drill results indicate that the prospective horizon is anomalous in precious and base metals. There are not enough sample results to conduct comprehensive statistical or to determine metal ratios to determine the relative location of potentially economic concentrations of metals.

Soil and rock geochemistry indicates a broad copper anomaly north and south of the JD showing and east of the DM showings covering the prospective stratigraphy to host a VMS type deposit. Figures 4 and 5 show the relative locations of the diamond drill holes and highlight the shallow dipping nature of the stratigraphy with coincident copper geochemical anomalies and the prospective horizon for hosting a Besshi-type VMS deposit..

12.0 RECOMMENDATIONS

Extensive sampling of the sulphide mineralization intersected in the drill holes is recommended. The objective of further multi-element assaying is to define potential litho-geochemical signatures that can be used to vector areas of stronger potential along the horizon. A large number of samples are required to compile a useable database. It is possible to be able to collect up to 250 additional samples (systematic 1.5 meter sample intervals is recommended) from all drill holes especially the weakly mineralized intervals.

It is also recommended to check the drill holes especially RB11-01 to see if they are accessible by down-hole pulse EM survey instruments. These EM surveys carried out with a number of different arrays can determine the relative location of large conductive bodies off hole.

Diamond drilling is recommended to test the stratigraphy along the prospective horizon, specifically targeting the area beyond the showings indicated by the litho-geochemical and EM surveys. Drill holes should be steeply inclined, oriented east-west and designed to probe the stratigraphy of the meta-volcanic unit (2m).

A quality control program is also recommended including use of commercial standard samples for copper and gold.

Such a program is estimated to cost \$250 - \$300 per meter including geological, geotechnical, assay and support costs. A minimum of 2 000 meters of drilling is estimated to cost \$500,000 to \$600,000.

13.0 REFERENCES

Davidson, G.S., 1997. Assessment Report on the Bas 1 – 64 claims (YB83822 – YB83885) and Ket 1 – 48 claims (YB83886 – YB83933).

Foreman, I.J., 1998. The Fyre Lake Project 1997: Geology and Mineralization of the Kona massive sulphide deposit. In: Yukon Exploration and Geology 1997, Exploration and Geological Services Division, Yukon Indian and Northern Affairs Canada, p. 105 – 113.

Foreman, I.J., 2004. Assessment Report on Geological and Geochemical Surveys of the RB 1 – 94 Claims (YB93186 – YB93243 and YB94198 – YB94333).

Mitchell, M.A., 2002. Assessment Report on the RB 1 – 58 Claims (YB93186 – YB93243)

Murphy, D.C. and Piercey, S.J., 1999. Open File 1999 – 4, Geological Map of parts of Finlayson Lake (105 G/7,8 and parts of 1,2 and 9) and Frances Lake (parts of 105H/5 and 12) map areas, southeastern Yukon (1:100,000 scale).

Murphy, D.C. and Piercey, S.J., 2000. Syn-mineralization faults and their re-activation, Finlayson Lake massive sulphide district, Yukon-Tanana Terrane, southeastern Yukon. In: Yukon Exploration and Geology 1999, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p.55-66.

Stroshein, R.W., 2011. Assessment Report on the 2010 Geological and Geochemical Program on RB 1 – 12 (YB93186 – YB93197) RB 23 – 38 (YB93208 – YB93223) RB 45 – 52 (YB93230 – YB93237) Claims.

Yukon Minfile. Map Sheet 105 G. Yukon Geology Program, Whitehorse, Yukon.

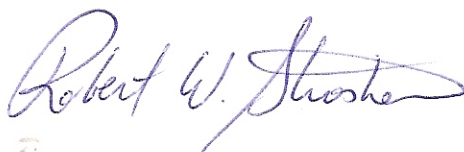
APPENDIX 1

STATEMENT OF QUALIFICATIONS

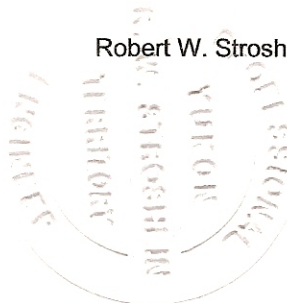
I, Robert W. Stroshein, P.Eng. do hereby certify that:

- 1) I am currently self-employed, with an office at
106 – #3 Glacier Lane
P.O. Box 10559 Station Main
Whitehorse, Yukon, Canada
Y1A 7A1
- 2) I graduated with a BSc. Degree in Geological Engineering from the University of Saskatchewan at Saskatoon, SK in 1973.
- 3) I am a member of the Association of Professional Engineers of Yukon Territory (Registered Professional Engineer, No. 1165).
- 4) I have worked as an Exploration Geologist for a total of thirty-eight years since graduation from university primarily in Yukon.
- 5) I have examined the mineralization and host lithologies in the Finlayson Lake VMS district and have been an active participant in exploration programs in the region since 1974. I have conducted geochemical and geophysical surveys, geological mapping and diamond drilling on a number of properties in the region including the Fire Lake Property.
- 6) I conducted geological mapping and sampling on the RB property from June 20 – 25, 2010 and located the drill holes and examined the drill core in June 2011. I am responsible for preparation of this report titled TARGET EVALUATION ASSESSMENT REPORT ON THE 2011 DIAMOND DRILLING ON RB 1 – 12 (YB93186 – YB93197) RB 23 – 38 (YB93208 – YB93223) RB 45 – 52 (YB93230 – YB93237) RB 53 – 106 (YE36902 – YE36955) dated December 30, 2011.

Dated at Whitehorse, Yukon this 30th day of December, 2011



Robert W. Stroshein, P.Eng.



APPENDIX 2

STATEMENT OF COSTS FOR DIAMOND DRILLING

JUNE 16 – 30, 2011

<u>Drill Hole</u>	<u>Claim</u>	<u>Depth</u>	<u>Cost</u>
RB11-01	RB 46 (YB93231)	210.3	\$ 30 779.48
RB11-02	RB 31 (YB93216)	214.9	\$ 29 734.22
RB11-04	RB 3 (YB93188)	<u>117.4</u>	<u>\$ 16 247.70</u>
	Total	542.6	\$ 76 761.40

Kluane Drilling Ltd. Invoice No. 8444 Dated July 7, 2011



Kluane Drilling Ltd.

14 MacDonald Rd., Whitehorse, Yukon Y1A 4L2

Tel: (867) 633-4800 Fax: (867) 633-3641

kluanedrilling@northwestel.net

CLIENT:

Arcturus Ventures Inc

141 – 757 Hastings Street

Vancouver , BC. V6C 1A1

CONTRACT NO.:

AC2011-2

PROJECT NAME:

Finlayson Lake

RIGS

1

INVOICE NUMBER:

8444

INVOICE DATE:

7-Jul-11

INVOICE PERIOD

FROM:

16-Jun-2011

TO:

30-Jun-2011

METERS DRILLED:

780.29

AVG. METERS PER SHIFT:

TOTAL INVOICE: \$79,612.57

SUMMARY OF CHARGEABLES:	KD-1	TOTAL
HW	28.96	28.96
HTW	0.00	0.00
NW	0.00	0.00
NTW	780.29	780.29
DRILLING AND CASING CHARGEABLES	92,339.16	92,339.16
HOURLY CHARGEABLES	21,320.00	21,320.00
CONSUMABLES, EQUIPMENT AND SUPPLIES	2,206.51	2,206.51
OTHER CHARGEABLES	0.00	0.00
TOTAL CHARGEABLES	115,865.67	115,865.67

PUMP MAN, NON DRILLING FOREMAN, EQUIPMENT

HOURLY CHARGABLES		0.00
EQUIPMENT CHARGES		1,679.87
MOBE / DEMOB CHARGES		5,895.00
TOTAL PUMP MAN, NON DRILLING FOREMAN, EQUIPMENT		7,574.87

ADDITIONAL CHARGES:

DESCRIPTION	UNITS	
		0.00
TOTAL ADDITIONAL CHARGES		0.00

SUBTOTAL 123,440.54

GST	BN 10286 1168 RT 001	6,172.03
TOTAL INVOICE		129,612.57
LESS CREDIT FOR ADVANCE		50,000.00

PAYMENT DUE 79,612.57

PLEASE MAKE PAYMENT TO:

KLUANE DRILLING LTD.

BANK: CANADIAN IMPERIAL BANK OF COMMERCE

ADDRESS: 110 MAIN STREET, WHITEHORSE, YT, Y1A 2A8

TRANSIT NO.: 80

ACCOUNT NO.: 5107717

THANK YOU FOR YOUR BUSINESS!



Kluane Drilling Ltd.

14 MacDonald Rd., Whitehorse, Yukon Y1A 4L2

Tel: (867) 633-4800 Fax: (867) 633-3641

kluanedrilling@nothwestel.net

CLIENT:
CONT #
RIG #

Arcturus Ventures Inc
AC2011-2
KD-1

HOLE # RB-11-01
FROM: 16-Jun-2011
TO: 21-Jun-2011
METERS DRILLED 210.31

COST OF HOLE \$30,779.48

CASING AND DRILLING CHARGEABLES

SIZE	METERS	DEPTH FROM	TO	METERS DRILLED	RATE P/M	TOTAL (CAD)
HW	3.05	0	30	3.05	90.00	274.32
NTW	210.31	0	300	210.31	115.00	24,185.88
TOTAL CASING AND DRILLING CHARGEABLES						24,460.20

HOURLY CHARGEABLES

DESCRIPTION	TOTAL SHOTS	TOTAL HOURS	RATE P/H	TOTAL (IN CAD)
MOVING OVER 0.0 HR/MOVE		48.00	100.00	4,800.00
STAND-BY		4.00	100.00	400.00
HOLE CONDITIONING		3.00	180.00	540.00
ANCHORING		1.00	180.00	180.00
TOTAL HOURLY CHARGEABLES				5,920.00

CONSUMABLES, EQUIPMENT AND OTHER SUPLIES

DESCRIPTION	QTY.	TOTAL (IN CAD)
EXTREME NUMBER ONE 15KG	1	178.00
LINSEED SOAP (23KG) PLUS 15%	2	169.20
		52.08
TOTAL CONSUMABLES, EQUIPMENT AND OTHER SUPLIES		399.28

OTHER CHARGEABLES

DESCRIPTION	TIME BASIS	UNITS ITEMS	RATE PER UNIT / ITEM	TOTAL (IN CAD)
TOTAL OTHER CHARGEABLES				0.00

SUMMARY OF CHARGEABLES

CASING AND DRILLING CHARGEABLES	24,460.20
HOURLY CHARGEABLES	5,920.00
CONSUMABLES, EQUIPMENT AND OTHER SUPLIES	399.28
OTHER CHARGEABLES	0.00
TOTAL BEFORE TAXES	30,779.48



Kluane Drilling Ltd.

14 MacDonald Rd., Whitehorse, Yukon Y1A 4L2

Tel: (867) 633-4800 Fax: (867) 633-3641

kluanedrilling@nothwestel.net

CLIENT:
CONT #
RIG #

Arcturus Ventures Inc
AC2011-2
KD-1

HOLE #

RB-11-02

FROM:

21-Jun-2011

TO:

24-Jun-2011

METERS DRILLED

214.88

COST OF HOLE

\$29,734.22

CASING AND DRILLING CHARGEABLES

SIZE	METERS	DEPTH FROM	TO	METERS DRILLED	RATE P/M	TOTAL (CAD)
HW	9.14	0	30	9.14	90.00	822.96
NTW	214.88	0	300	214.88	115.00	24,711.66
TOTAL CASING AND DRILLING CHARGEABLES						25,534.62

HOURLY CHARGEABLES

DESCRIPTION	TOTAL SHOTS	TOTAL HOURS	RATE P/H	TOTAL (IN CAD)
MOVING OVER 0.0 HR/MOVE		7.00	100.00	700.00
STAND-BY		12.00	100.00	1,200.00
HOLE CONDITIONING		5.00	180.00	900.00
ANOCHORING		2.00	180.00	360.00
TOTAL HOURLY CHARGEABLES				3,160.00

CONSUMABLES, EQUIPMENT AND OTHER SUPLIES

DESCRIPTION	QTY.	TOTAL (IN CAD)
K-ION	1	174.00
ANCHOR RODS	8	440.00
DR-133 POLYMER	2	290.00
PLUS 15%		135.60
TOTAL CONSUMABLES, EQUIPMENT AND OTHER SUPLIES		1,039.60

OTHER CHARGEABLES

DESCRIPTION	TIME BASIS	UNITS ITEMS	RATE PER UNIT / ITEM	TOTAL (IN CAD)
TOTAL OTHER CHARGEABLES				0.00

SUMMARY OF CHARGEABLES

CASING AND DRILLING CHARGEABLES	25,534.62
HOURLY CHARGEABLES	3,160.00
CONSUMABLES, EQUIPMENT AND OTHER SUPLIES	1,039.60
OTHER CHARGEABLES	0.00
TOTAL BEFORE TAXES	29,734.22



Kluane Drilling Ltd.

14 MacDonald Rd., Whitehorse, Yukon Y1A 4L2

Tel: (867) 633-4800 Fax: (867) 633-3641

kluanedrilling@nothwestel.net

CLIENT:
CONT #
RIG #

Arcturus Ventures Inc
AC2011-2
KD-1

HOLE #

RB-11-04

FROM:

24-Jun-2011

TO:

26-Jun-2011

METERS DRILLED

117.35

COST OF HOLE

\$16,247.70

CASING AND DRILLING CHARGEABLES

SIZE	METERS	DEPTH FROM	TO	METERS DRILLED	RATE P/M	TOTAL (CAD)
HW	6.10	0	30	6.10	90.00	548.64
NTW	117.35	0	300	117.35	115.00	13,495.02
TOTAL CASING AND DRILLING CHARGEABLES						14,043.66

HOURLY CHARGEABLES

DESCRIPTION	TOTAL SHOTS	TOTAL HOURS	RATE P/H	TOTAL (IN CAD)
MOVING OVER 0.0 HR/MOVE		10.00	100.00	1,000.00
WATER SUPPLY		1.00	100.00	100.00
STAND-BY		3.00	100.00	300.00
HOLE CONDITIONING		2.00	180.00	360.00
ANCHORING		1.00	180.00	180.00
TOTAL HOURLY CHARGEABLES				1,940.00

CONSUMABLES, EQUIPMENT AND OTHER SUPPLIES

DESCRIPTION	QTY.	TOTAL (IN CAD)
DR-133 POLYMER	1	145.00
LINSEED SOAP (23KG)	1	84.60
		0.00
PLUS 15%		34.44
TOTAL CONSUMABLES, EQUIPMENT AND OTHER SUPPLIES		264.04

OTHER CHARGEABLES

DESCRIPTION	TIME BASIS	UNITS ITEMS	RATE PER UNIT / ITEM	TOTAL (IN CAD)
TOTAL OTHER CHARGEABLES				0.00

SUMMARY OF CHARGEABLES

CASING AND DRILLING CHARGEABLES	14,043.66
HOURLY CHARGEABLES	1,940.00
CONSUMABLES, EQUIPMENT AND OTHER SUPPLIES	264.04
OTHER CHARGEABLES	0.00
TOTAL BEFORE TAXES	16,247.70

APPENDIX 3

**ASSAY CERTIFICATE
AGAT LABORATORIES
RB DIAMOND DRILLING**

CLIENT NAME: ARCTURUS VENTURES
P.O. Box 696, 141-757 WEST HASTINGS ST
VANCOUVER, BC V6C1A1

ATTENTION TO: BRANDON MACDONALD

PROJECT NO:

AGAT WORK ORDER: 11Y532965

SOLID ANALYSIS REVIEWED BY: Ron Cardinall, Certified Assayer - Director - Technical Services (Mining)

DATE REPORTED: Oct 17, 2011

PAGES (INCLUDING COVER): 7

Should you require any information regarding this analysis please contact your client services representative at (905) 501 9998, or at 1-800-856-6261

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 11Y532965

PROJECT NO:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARCTURUS VENTURES

ATTENTION TO: BRANDON MACDONALD

Aqua Regia Digest - ICP-OES finish with Hg-CVAA (201090)

DATE SAMPLED: Sep 27, 2011

DATE RECEIVED: Sep 27, 2011

DATE REPORTED: Oct 17, 2011

SAMPLE TYPE: Rock

Analyte:	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	
Sample Description	RDL:	0.2	0.01	1	5	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	
010416		0.2	4.28	2	<5	77	<0.5	<1	1.58	<0.5	<1	61.2	126	1020	7.50
010417		<0.2	4.62	4	<5	116	<0.5	<1	1.40	<0.5	1	60.2	112	610	7.92
010418		<0.2	4.36	3	<5	247	<0.5	<1	0.81	<0.5	1	33.5	189	692	6.73
010419		<0.2	4.39	2	<5	114	<0.5	<1	1.16	<0.5	1	29.1	143	845	6.37
010421		<0.2	3.94	3	<5	22	<0.5	<1	1.54	<0.5	1	41.4	132	628	6.25
010422		0.3	1.07	12	<5	399	<0.5	<1	1.68	<0.5	80	5.0	216	50.5	1.36
010423		0.3	0.17	1	<5	62	<0.5	<1	0.02	<0.5	20	1.7	261	37.2	0.76
Analyte:	Ga	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	
Unit:	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	
Sample Description	RDL:	5	1	0.01	1	0.01	1	0.5	0.01	0.5	10	0.5	10	0.005	
010416		9	<1	0.06	<1	14	3.99	1860	1.3	0.03	40.3	92	1.9	<10	2.76
010417		10	<1	0.05	<1	17	4.60	1860	2.0	0.04	34.7	157	1.7	<10	2.62
010418		9	<1	0.12	<1	16	4.20	1500	1.7	0.06	32.5	189	1.1	<10	1.62
010419		10	<1	0.11	<1	15	3.89	1930	1.8	0.03	35.0	106	1.3	<10	0.705
010421		9	<1	0.02	<1	14	4.03	1720	1.6	0.06	39.5	126	1.7	<10	1.79
010422		<5	<1	0.61	42	17	0.24	440	5.6	0.12	6.0	232	40.9	25	0.225
010423		<5	<1	0.17	13	1	0.02	38	5.0	<0.01	4.3	59	86.4	<10	0.044
Analyte:	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	
Sample Description	RDL:	1	0.5	10	5	0.5	10	5	0.01	5	5	0.5	1	1	
010416		<1	12.2	<10	<5	30.1	<10	<10	<5	0.13	<5	<5	152	<1	4
010417		<1	18.8	<10	<5	24.4	<10	<10	<5	0.04	<5	<5	185	<1	5
010418		<1	16.8	<10	<5	12.5	<10	<10	<5	0.03	<5	<5	177	<1	4
010419		<1	16.0	<10	<5	17.9	<10	<10	<5	0.03	<5	<5	161	<1	5
010421		<1	17.9	<10	<5	26.5	<10	<10	<5	0.13	<5	<5	182	<1	5
010422		<1	2.3	<10	<5	34.6	<10	<10	20	0.03	<5	<5	14.5	<1	16
010423		<1	<0.5	<10	<5	5.5	<10	<10	7	<0.01	<5	<5	2.1	<1	4

Certified By:

Ron Cardinal



Certificate of Analysis

AGAT WORK ORDER: 11Y532965

PROJECT NO:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARCTURUS VENTURES

ATTENTION TO: BRANDON MACDONALD

Aqua Regia Digest - ICP-OES finish with Hg-CVAA (201090)

DATE SAMPLED: Sep 27, 2011

DATE RECEIVED: Sep 27, 2011

DATE REPORTED: Oct 17, 2011

SAMPLE TYPE: Rock

Analyte:	Zn	Zr	Hg-CVAA
Unit:	ppm	ppm	ppm
Sample Description RDL:	0.5	5	0.001
010416	69.7	<5	0.017
010417	48.9	<5	0.011
010418	38.0	<5	0.009
010419	59.3	<5	0.007
010421	121	<5	0.003
010422	47.6	22	0.009
010423	54.6	<5	0.001

Comments: RDL - Reported Detection Limit

Certified By:

Ron Cardinal



Certificate of Analysis

AGAT WORK ORDER: 11Y532965

PROJECT NO:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARCTURUS VENTURES

ATTENTION TO: BRANDON MACDONALD

Fire Assay - Trace Au, ICP-OES finish (202052)

DATE SAMPLED: Sep 27, 2011

DATE RECEIVED: Sep 27, 2011

DATE REPORTED: Oct 17, 2011

SAMPLE TYPE: Rock

Sample Description	Analyte:	Sample	Au
	Unit:	Login Weight	ppm
RDL:		kg	0.001
010416		2.32	0.031
010417		3.07	0.028
010418		2.51	0.020
010419		1.65	0.016
010421		2.67	0.024
010422		2.02	0.025
010423		1.87	0.001

Comments: RDL - Reported Detection Limit

Certified By:

Ron Cardinal

Quality Assurance

CLIENT NAME: ARCTURUS VENTURES

AGAT WORK ORDER: 11Y532965

PROJECT NO:

ATTENTION TO: BRANDON MACDONALD

Solid Analysis										
RPT Date: Oct 17, 2011		REPLICATE				Method Blank	REFERENCE MATERIAL			
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD		Result Value	Expect Value	Recovery	Acceptable Limits
									Lower	Upper
Fire Assay - Trace Au, ICP-OES finish (202052)										
Au	1	2741653	0.0309	0.0304	1.6%	< 0.001			80%	120%
Aqua Regia Digest - ICP-OES finish with Hg-CVAA (201090)										
Ag	1	2741653	0.2	0.2	0.0%	< 0.2			80%	120%
Al	1	2741653	4.28	4.29	0.2%	< 0.01			80%	120%
As	1	2741653	2	2	0.0%	< 1			80%	120%
B	1	2741653	< 5	< 5	0.0%	< 5			80%	120%
Ba	1	2741653	77	80	3.8%	< 1			80%	120%
Be	1	2741653	< 0.5	< 0.5	0.0%	< 0.5			80%	120%
Bi	1	2741653	< 1	< 1	0.0%	< 1			80%	120%
Ca	1	2741653	1.58	1.56	1.3%	< 0.01			80%	120%
Cd	1	2741653	< 0.5	< 0.5	0.0%	< 0.5			80%	120%
Ce	1	2741653	< 1	< 1	0.0%	< 1			80%	120%
Co	1	2741653	61.2	60.8	0.7%	< 0.5			80%	120%
Cr	1	2741653	126	128	1.6%	< 0.5			80%	120%
Cu	1	2741653	1020	1020	0.0%	< 0.5	3830	3800	100%	80%
Fe	1	2741653	7.50	7.41	1.2%	< 0.01			80%	120%
Ga	1	2741653	9	9	0.0%	< 5			80%	120%
In	1	2741653	< 1	< 1	0.0%	< 1			80%	120%
K	1	2741653	0.06	0.06	0.0%	< 0.01			80%	120%
La	1	2741653	< 1	< 1	0.0%	< 1			80%	120%
Li	1	2741653	14	14	0.0%	< 1			80%	120%
Mg	1	2741653	3.99	3.92	1.8%	< 0.01			80%	120%
Mn	1	2741653	1860	1870	0.5%	< 1			80%	120%
Mo	1	2741653	1.3	1.3	0.0%	1.9	362	380	95%	80%
Na	1	2741653	0.03	0.03	0.0%	< 0.01			80%	120%
Ni	1	2741653	40.3	39.6	1.8%	< 0.5			80%	120%
P	1	2741653	92	94	2.2%	< 10			80%	120%
Pb	1	2741653	1.9	1.8	5.4%	1.0			80%	120%
Rb	1	2741653	< 10	< 10	0.0%	< 10	12	13	89%	80%
S	1	2741653	2.76	2.85	3.2%	< 0.005			80%	120%
Sb	1	2741653	< 1	< 1	0.0%	< 1			80%	120%
Sc	1	2741653	12.2	12.0	1.7%	< 0.5			80%	120%
Se	1	2741653	< 10	< 10	0.0%	< 10			80%	120%
Sn	1	2741653	< 5	< 5	0.0%	< 5			80%	120%
Sr	1	2741653	30.1	30.2	0.3%	< 0.5	308	290	106%	80%
Ta	1	2741653	< 10	< 10	0.0%	< 10			80%	120%
Te	1	2741653	< 10	< 10	0.0%	< 10			80%	120%
Th	1	2741653	< 5	< 5	0.0%	< 5			80%	120%
Ti	1	2741653	0.127	0.124	2.4%	< 0.01			80%	120%
Tl	1	2741653	< 5	< 5	0.0%	< 5			80%	120%
U	1	2741653	< 5	< 5	0.0%	< 5			80%	120%
V	1	2741653	152	153	0.7%	< 0.5			80%	120%
W	1	2741653	< 1	< 1	0.0%	< 1			80%	120%

Quality Assurance

CLIENT NAME: ARCTURUS VENTURES

AGAT WORK ORDER: 11Y532965

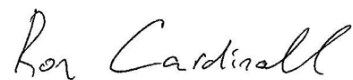
PROJECT NO:

ATTENTION TO: BRANDON MACDONALD

Solid Analysis (Continued)

RPT Date: Oct 17, 2011		REPLICATE				Method Blank	REFERENCE MATERIAL			
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD		Result Value	Expect Value	Recovery	Acceptable Limits
						Lower				Upper
Y	1	2741653	4	4	0.0%	< 1			80%	120%
Zn	1	2741653	69.7	71.0	1.8%	< 0.5			80%	120%
Zr	1	2741653	< 5	< 5	0.0%	< 5			80%	120%
Hg-CVAA	1	2741653	0.017	0.014	19.4%	<0.001			80%	120%

Certified By:



Method Summary

CLIENT NAME: ARCTURUS VENTURES

AGAT WORK ORDER: 11Y532965

PROJECT NO:

ATTENTION TO: BRANDON MACDONALD

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Ag	MIN-200-12020		ICP/OES
Al	MIN-200-12020		ICP/OES
As	MIN-200-12020		ICP/OES
B	MIN-200-12020		ICP/OES
Ba	MIN-200-12020		ICP/OES
Be	MIN-200-12020		ICP/OES
Bi	MIN-200-12020		ICP/OES
Ca	MIN-200-12020		ICP/OES
Cd	MIN-200-12020		ICP/OES
Ce	MIN-200-12020		ICP/OES
Co	MIN-200-12020		ICP/OES
Cr	MIN-200-12020		ICP/OES
Cu	MIN-200-12020		ICP/OES
Fe	MIN-200-12020		ICP/OES
Ga	MIN-200-12020		ICP/OES
In	MIN-200-12020		ICP/OES
K	MIN-200-12020		ICP/OES
La	MIN-200-12020		ICP/OES
Li	MIN-200-12020		ICP/OES
Mg	MIN-200-12020		ICP/OES
Mn	MIN-200-12020		ICP/OES
Mo	MIN-200-12020		ICP/OES
Na	MIN-200-12020		ICP/OES
Ni	MIN-200-12020		ICP/OES
P	MIN-200-12020		ICP/OES
Pb	MIN-200-12020		ICP/OES
Rb	MIN-200-12020		ICP/OES
S	MIN-200-12020		ICP/OES
Sb	MIN-200-12020		ICP/OES
Sc	MIN-200-12020		ICP/OES
Se	MIN-200-12020		ICP/OES
Sn	MIN-200-12020		ICP/OES
Sr	MIN-200-12020		ICP/OES
Ta	MIN-200-12020		ICP/OES
Te	MIN-200-12020		ICP/OES
Th	MIN-200-12020		ICP/OES
Ti	MIN-200-12020		ICP/OES
Tl	MIN-200-12020		ICP/OES
U	MIN-200-12020		ICP/OES
V	MIN-200-12020		ICP/OES
W	MIN-200-12020		ICP/OES
Y	MIN-200-12020		ICP/OES
Zn	MIN-200-12020		ICP/OES
Zr	MIN-200-12020		ICP/OES
Hg-CVAA	MIN-200-12022		CVAAS
Sample Login Weight	MIN-12009		BALANCE
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES

		Analyte:	Sample												
		Unit:	Login	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co
Sample ID	Sample Description	RDL:	Weight	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
			0.01	0.001	0.2	0.01	1	5	1	0.5	1	0.01	0.5	1	0.5
2517789	RB11-01 032.5-34.5		1.95	0.314	0.3	4.97	6	13	230	<0.5	4	0.05	<0.5	24	78.1
2517790	RB11-01 034.5-35.5		0.95	0.062	<0.2	5.38	16	13	116	<0.5	3	0.04	<0.5	26	49.1
2518101	RB11-01 036.8 - 37.4		1.19	0.068	<0.2	2.33	3	10	253	<0.5	6	0.1	<0.5	14	24.2
2518102	RB11-01 196.5 - 198.15		2.79	0.021	<0.2	1.34	4	<5	15	<0.5	<1	0.5	<0.5	7	35.9
2517791	RB11-01 219-220		0.96	0.089	<0.2	2.91	10	8	26	<0.5	<1	1.06	5.5	18	41.4
2517792	RB11-01 220-221		1.19	0.086	0.3	3.72	7	<5	56	<0.5	<1	0.87	0.9	12	16.3
2517793	RB11-01 221-222		0.9	0.433	3.2	3.24	11	11	16	<0.5	<1	0.2	1.1	25	37.9
2517794	RB11-01 222-223		1.11	0.413	2.2	3.94	21	10	10	<0.5	<1	0.16	10.8	23	90.8
2518103	RB11-01 320-321		1.98	0.036	<0.2	2.13	5	6	92	<0.5	4	0.69	<0.5	7	47.2
2518104	RB11-01 538.2-540		3.53	0.022	<0.2	2.25	29	5	83	<0.5	3	0.59	<0.5	6	31.3
2517795	RB11-02 199.5-200.25		0.88	0.021	<0.2	4.28	5	10	1650	<0.5	<1	2.11	<0.5	14	32
2517796	RB11-02 200.25-201		0.87	0.005	<0.2	4.73	4	6	2830	<0.5	<1	2.72	<0.5	12	31.7
2517797	RB11-04 159.5-160.25		0.75	0.027	<0.2	4.47	5	6	527	<0.5	1	0.53	<0.5	11	29.5
2517798	RB11-04 160.25-161		0.86	0.033	<0.2	4.33	5	<5	441	<0.5	2	0.54	<0.5	10	24.6

Cr	Cu	Fe	Ga	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S
ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%
0.5	0.5	0.01	5	1	0.01	1	1	0.01	1	0.5	0.01	0.5	10	0.5	10	0.005
340	2800	14.6	<5	<1	0.13	<1	17	3.27	2200	4.2	<0.01	70.1	172	7	<10	1.55
341	723	14.5	<5	<1	0.07	<1	18	3.62	2970	<0.5	<0.01	86.6	135	3.6	<10	2.18
81.5	647	8.5	<5	<1	0.16	<1	8	1.63	1530	2.4	<0.01	23.7	209	4.2	<10	1.21
54.9	255	3.91	<5	<1	0.02	<1	6	1.46	220	1.7	0.1	21.5	191	1.5	<10	3.32
225	660	10.1	<5	<1	0.31	<1	11	2.93	1410	2.8	0.03	78.3	87	7.8	17	8.39
290	1150	7.53	<5	<1	0.18	<1	16	4.23	1690	2	0.02	77	65	7.4	11	4.55
204	5840	16.8	<5	<1	0.4	<1	13	3.51	1070	8	0.02	83	46	5.7	15	17
259	3690	14.5	<5	<1	0.24	<1	18	4.91	1380	12.2	0.01	87.3	56	9.7	10	13.7
85	770	4.89	<5	<1	0.06	<1	8	2.05	1770	1.4	0.05	22.1	210	4	<10	3.02
131	368	3.76	<5	<1	0.16	<1	8	2.34	626	1.2	0.06	39.9	103	2.4	10	0.638
86.4	250	6.84	5	<1	1.56	<1	39	4.3	1900	2	0.03	53.6	145	10	159	0.378
152	62.9	6.21	9	<1	1.42	<1	43	4.54	2490	1	0.04	67.9	62	9.4	140	0.093
58.9	1370	7.7	9	<1	0.76	<1	15	4.41	2030	2.5	0.04	25.1	234	7.8	60	1.08
44.8	1730	7.62	9	<1	0.57	<1	15	4.48	2130	0.8	0.03	27.2	287	7.3	45	0.946

Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr	Hg-CVAA
ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
1	0.5	10	5	0.5	10	10	5	0.01	5	5	0.5	1	1	0.5	5	0.01
<1	18	<10	<5	12	<10	<10	<5	0.05	<5	<5	208	<1	3	182	<5	0.01
<1	21.1	<10	<5	11.5	<10	<10	<5	0.06	<5	<5	199	<1	3	257	<5	<0.01
2	4.4	<10	<5	9.4	<10	<10	5	0.01	<5	<5	110	<1	1	321	<5	0.01
<1	2.6	13	<5	11.7	<10	<10	<5	0.06	<5	<5	77.3	<1	2	36.2	<5	<0.01
<1	7.6	<10	<5	31.6	<10	<10	<5	0.1	<5	<5	121	<1	2	2480	<5	0.36
<1	8.9	<10	<5	74.6	<10	<10	<5	0.11	<5	<5	127	<1	4	1890	<5	0.28
<1	10.7	<10	<5	16	<10	<10	<5	0.08	<5	<5	106	<1	6	1160	<5	0.17
<1	13.5	<10	<5	13.2	<10	<10	<5	0.05	<5	<5	120	<1	5	4420	<5	0.82
3	3.2	<10	<5	15.3	<10	<10	<5	0.06	<5	<5	83	<1	1	131	<5	0.01
3	5.9	14	<5	18	<10	<10	<5	0.05	<5	<5	82.4	<1	1	39.7	<5	<0.01
<1	20.6	<10	<5	92.1	<10	<10	<5	0.2	7	<5	219	<1	10	303	<5	0.04
<1	18.4	<10	<5	86.5	<10	<10	<5	0.2	8	<5	193	<1	5	145	<5	0.01
2	9.4	<10	<5	28	<10	<10	<5	0.22	<5	<5	217	<1	4	167	<5	0.01
3	8.2	<10	<5	29.7	<10	<10	<5	0.24	<5	<5	203	<1	5	193	<5	0.02

APPENDIX 4

DIAMOND DRILL LOGS AND ASSAY SHEETS

DRILL HOLES

RB11-01

RB11-02

RB11-04

FROM		TO		LITHOLOGY DDH RB 11-01	STRUCTURE		FROM	TO	INTERVAL	NUMBER
Feet		Meters			At	α				
		0.00	2.74	Very broken core: green-grey chloritic schist. Pieces 8cm. max. Very little visible pyrite (<1%).						
		2.74	2.89	Quartz vein: contacts roughly concordant						
		2.89	3.66	Green-grey chloritic schist (metavolcanic). No obvious pyrite. Contains ovoid carbonate (?) masses to 10mm long. Max. core length 10cm.						
		3.66	6.19	Chloritic schist as above. Carbonate masses are in layers up to 6cm thick. Quartz veins to 4cm thick at 3.78, 4.27, 4.60, 5.30. From 4.75 to 5.24m an irregular vein up to 3mm thick of (?) carbonate in limonite or haematite runs subparallel to the core.	6	75				
		6.19	7.62	Chloritic schist as above. More broken core. 4 & 5cm quartz veins at 6.25 & 6.40m, <1cm veins in rest of interval.						
		7.62	10.33	As above. 2cm quartz vein at 30 deg. To core at 7.92m. Irregular <5mm veins throughout.			9.91	10.52	0.61	2517789
		10.33	11.37	Darker grey schist, magnetic. Foliation more obvious. Contains magnetite porphyroblasts up to 3mm grainsize, some in layers in (?) haematite. Visible pyrite is in concordant layers in crystals to 3mm (2-3% volume).	9.45	74	10.52	10.82	0.30	2517790
	45.0	11.37	13.72	Finely banded green-grey schist. No magnetite detected, generally <1% pyrite						
45.0	60.6	13.72	18.47	More massive chlorite schist. Contains 5cm pale green (?) epidote; pyrite <0.5%. 3cm qtz at 14.78m						
60.6	64.5	18.47	19.66	Slightly more massive, 0.5mm grainsize with probably epidote. Chevron fold at 18.29m						
				Finely foliated chlorite schist: deep green-grey; some epidote, especially at 31.09 to 32.61m. At 26.46m 6cm qtz, at 26.58m = 3cm qtz approx. // to core; 31.15 = 2cm; 31.21 = 4cm; 31.27 = 5cm; 31.46 = 8cm; 33.16 = 10cm pygmatic 'pod'; 34.35 = 2cm; 44.35 = 5cm then 2cm; 48.16 = 1cm.			66.75	67.06	0.30	2518101
64.5	174.8	19.66	53.28				67.06	67.36	0.30	2518102
174.8	176.1	53.28	53.68	Pale green epidote-rich schist. Shows 5mm porphyroblasts of (?) biotite. Quite foliated.			67.36	67.67	0.30	2518103
				Deep green chlorite ± epidote schist. 20cm wavelength chevron fold at 54.1m (photo). Haematite on fractures from 56.85 to 57.30m. At 56.11 is a 2cm quartz vein.			67.67	67.97	0.30	2518104
176.1	208.0	53.68	63.40							
208.0	209.7	63.40	63.92	Pale green epidote-rich schist. Foliation defined by a 1cm colour variation. Shows a few 'blebs' of (?) biotite to 5mm long.						
				Well-banded medium to deep green-grey schist. Some irregular qtz veins are from 66.14 to 55.45m 91-2cm thick, also 66.75m (3cm), 66.84 (3cm). Fractured (but solid core) from 70.16 - 70.32m. Zone contains epidote & qtz.						
209.7	220.7	63.92	67.27							
220.7	223.2	67.27	68.03	Schist with finely banded pyrite in 0.5 - 1mm layers. Up to 25% pyrite.						
				Deep green-grey well foliated schist. Quartz veins at 70.01 (2cm), 70.41 (1cm), 70.44 - 70.50, 70.87 (2cm), 71.08 (3cm), 71.32 (2cm), 72.24 (2cm, then 4cm at 72.30), 72.33 (6cm), 73.30 (2cm), 73.46 (2cm), small 1x4cm masses to 75.04. At 75.04 a 5cm vein is at 10° to foliation. From 81.69 to 81.81m there are more irregular qtz masses. From 82.08 to 82.30m there is a massive qtz vein. Very minor veins persist to 84.43m (1cm thck 'pods', 5cm long). Several 1cm qtz veins are found from 85.34 - 86.26. From 74.40-74.45m the core is faulted (but solid core): see sketch.	76.2	75				
223.2	400.0	68.03	121.92		81.99	60				
				At 87.33m one 5cm qtz mass thins to 1cm over the width of the core. Qtz also at 91.74 (3cm), 94.49 (1cm), 95.71 (3cm), 15 <1cm veins from 95.71 to 97.23m, 18 veins from 97.23 - 100.58 (all < 1cm except for two 3cm masses at 97.08 & 97.44m. 100.58 - 103.63m there are 9 veins 1-6cm thick; 103.63 - 112.78 17 veins and masses to cm. From 87.8 to 90.2, 91.44 to 94.49, around 97.23, 98.76 and 112.78m there are layers of buff to light green (?) epidote.						
				Schist (meta-volcanic) continues. Comparatively coarse-grained (≤1mm). Some 1-5mm layers show phenocrysts or porphyroblasts which are pale green and sometimes with a dark green rim (chlorite?) - probably epidote-carbonate. Very little quartz from 121.92 to 158.5m. At 129.54 (6cm), 131.67 (3cm), 137.53 (4cm), 139.9 (4cm), 141.79 (2cm), 142.65 (1cm). 151.55 (6cm 'pod'), 158.25 (4cm), 159.41 (12cm vein), 171.3 (10cm 'pod'), 181.05 (4cm vein), 183.43 (3cm), 184.25 (4cm 'pod'), 188.4 (3cm vein at 45° to core axis). No magnetite was detected from 76 to 122m.	128.93	78				
				The meta-volcanic continues. It is fairly coarse-grained (≤1mm). Some 5mm thick layers show phenocrysts or porphyroblasts which are pale green, sometimes with a dark rim (? chlorite)- probably epidote-carbonate. Quartz veins: 129.54: 6cm, 131.67: 3cm, 137.53: 4cm, 139.90: 5cm with pink core, 141.06: 2cm, 141.79: 2cm, 142.65: 1cm, 151.55: 6cm 'pod', 158.25: 4cm, 159.41: 12cm vein, 171.30: 10cm 'pod', 181.05: 6cm, 181.30: 6cm, 183.43: 3cm, 184.25: 4cm 'pod', 188.40: 3cm at 45°.	143.26	80				
400.0	680.0	121.92	207.26		181.20	63				
				Folding: (see sketches) 139.45-139.75 is an antiform/synform pair with somewhat curved hinge zones, 141.98 shows a single fold with a tight hinge zone (chevron) and 142.13 a pair of chevrons. At 172.36m there is an intrafolial chevron pair.	182.27	72				
				Quartz veins are seen at: 188.67: 2cm, 192.15: 4cm, 194.16 to 194.40: 8cm qtz with a margin of buff coloured banded (?) epidote ± carbonate, 199.03: 1cm at 25°, 200.25: 2cm, 201.05: 1cm, 201.11: 3cm, 204.37: 4cm 'pod', 205.89: 2cm, 206.37: 1cm, 207.54: 2 of 2cm,	192.12	84				
					204.37	64				

ARCTURUS VENTURES INC.
RB CLAIMS
DIAMOND DRILLING 2011
SELECTED ASSAY SHEET

DDH RB11-01

				Sample Login Weight	Au	Ag	Co	Cu	Fe	Ni	Pb	Zn
				kg	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
Sample ID	From (m)	To (m)	Width (m)	0.01	0.001	0.2	0.5	0.5	0.01	0.5	0.5	0.5
2517789	9.9	10.5	0.6	1.95	0.314	0.3	78.1	2800	14.6	70.1	7	182
2517790	10.5	10.8	0.3	0.95	0.062	<0.2	49.1	723	14.5	86.6	3.6	257
2518101	11.2	11.4	0.2	1.19	0.068	<0.2	24.2	647	8.5	23.7	4.2	321
2518102	59.9	60.4	0.5	2.79	0.021	<0.2	35.9	255	3.91	21.5	1.5	36.2
2517791	66.8	67.1	0.3	0.96	0.089	<0.2	41.4	660	10.1	78.3	7.8	2480
2517792	67.1	67.4	0.3	1.19	0.086	0.3	16.3	1150	7.53	77	7.4	1890
2517793	67.4	67.7	0.3	0.9	0.433	3.2	37.9	5840	16.8	83	5.7	1160
2517794	67.7	68.0	0.3	1.11	0.413	2.2	90.8	3690	14.5	87.3	9.7	4420
			1.2		1.021	5.7	186.4	11340				9950
			Width	Averages	0.255	1.9	46.6	2835				2488
2518103	97.5	97.8	0.3	1.98	0.036	<0.2	47.2	770	4.89	22.1	4	131
2518104	164.0	164.6	0.5	3.53	0.022	<0.2	31.3	368	3.76	39.9	2.4	39.7

FROM		TO		LITHOLOGY DDH RB 11-02	STRUCTURE		SAMPLING		
Feet		Metres			At	α	FROM	TO	INTERVAL
0.0	18.0	0.00	5.49		Broken core \leq 2cm pieces. Very well-foliated (but not compositionally banded) black siltstone (carbonaceous). The foliation is marked by 0.2x1mm long white mineral grains.	6.10	68		
22	25	6.71	7.62	Core loss 5.49-6.71. Clay and graphite from 6.71-7.62m.					
25	27	7.62	8.23	Broken core carbonaceous siltstone or slate.					
27	32	8.23	9.75	Broken core continues. Up to 12cm lengths of graphitic siltstone.					
32	41	9.75	12.50	More solid core. Black carbonaceous siltstone. Some foliation (colour banding) visible from 11.89-12.19m. Small-scale folds (2cm wavelength) at 12.19.					
41	42	12.50	12.80	Pug' zone: clay with 4mm rock fragments.					
42	79.5	12.80	24.23	Black graphitic siltstone (14.94-15.39 = 'pug' zone), 15.39-15.48 = quartz 15.48-17.98 black siltstone, 18.23-18.35 = major quartz vein, 20.12-20.57 is brecciated.	23.16	81			
79.5	85	24.23	25.91	Somewhat broken, graphitic siltstone.					
85	85.2	25.91	25.97	Somewhat broken, graphitic siltstone.					
85.2	96	25.97	29.26	Harder, deep grey slightly graphitic siltstone. Shows disharmonic folding.					
96	98	29.26	29.87	Black very graphitic siltstone.					
98	106.6	29.87	32.49	Dark grey siltstone: well-banded in 0.5-2mm layers. Shows 5-10mm quartz \pm calcite veins conformable with foliation every 2-5cm.					
106.6	107	32.49	32.61	Graphitic siltstone					
107	107.3	32.61	32.71	Quartz vein					
107.3	115	32.71	35.05	Graphitic siltstone	34.75	55			
115	122	35.05	37.19	Dark grey siltstone with many 5-10mm quartz \pm calcite lenses.					
122	127	37.19	38.71	Black graphitic siltstone with frequent quartz veins to 5cm thick.					
127	134.7	38.71	41.06	Dark grey siltstone (note: contains a trace of 0.3mm grainsize pyrite). At 40.23: 4cm quartz	35.97	72			
134.7	135.3	41.06	41.24	Major quartz vein (fault).					
135.3	137	41.24	41.76	Dark grey siltstone, the first 10cm being disharmonically folded. 41.24 = sharp contact	41.24	67			
137	143.9	41.76	43.86	Pale green-grey well foliated (1-5mm) ? tuff. Shows 1-4mm calcite-rich layers and also lenses 5x10mm of the carbonate.					
143.9	152	43.86	46.33	Interbedded green 'tuff' and dark grey well-foliated siltstone. Quartz form frequent lenses in both lithologies. Siltstone layers 3-15cm thick.					
152	161.5	46.33	49.23	Well-foliated medium grey siltstone. Has a few graphitic layers.	46.94	80			
161.5	196.5	49.23	59.89	Light green metavolcanic. Well-foliated in 1-2mm layers for first 2m then fairly massive.					
196.5	199	59.89	60.66	Distinctly banded green metavolcanic. Has 1mm black layers (biotite) that contain a little haematite, fine-grained green-grey layers (predominantly chlorite) and pinching and swelling white to pale green layers 2-5mm thick (epidote-calcite).					
199	217	60.66	66.14	Banded biotite-calcite bearing metavolcanic as before (no haematite).			60.81	61.04	0.23
217	236	66.14	71.93	Finely banded chloritic metavolcanic with occasional 1cm quartz veins and 2cm 'pods'. About 15% of the rock is \leq 1mm calcite layers.	68.58	86	61.04	61.26	0.23
236	240.8	71.93	73.40	Fault zone. 'Pug' of volcanics with broken rock (\leq 8cm)					
240.8	261.2	73.40	79.61	Fairly well-foliated volcanic. Has occasional (every cm or so) 0.5mm calcite layers. Quartz/calcite vein 76.20-76.32m					
261.2	262.3	79.61	79.95	Finely banded chlorite-biotite volcanic as at 61m.					
262.3	265	79.95	80.77	Fine grained faintly banded volcanic.					
265	268.5	80.77	81.84	Biotite-epidote-calcite bearing volcanic. Chevron fold at 80.71m (photo). At 81.23m a more open fold is seen.					
268.5	273.5	81.84	83.36	Massive, fine-grained volcanic. Probably has considerable epidote content from 82.84-82.97m. Open fold at 81.99m is similar to that at 81.23m.					
273.5	290	83.36	88.39	Banded biotite-chlorite metavolcanic with epidote layers. Folding from 84.12-84.37m (photo).					

290	296.9	88.39	90.50	Fairly massive green metavolcanic.					
296.9	297.9	90.50	90.80	Fracture zone. The core is brecciated but solid. Fracture planes are at $\alpha = 30^\circ$. One 2cm quartz 'pod' is within the zone.					
297.9	326.9	90.80	99.64	Light green metavolcanic. Compositional banding in 1-2mm layers. A little calcite is in 0.5mm layers.	98.45	65			
326.9	327.6	99.64	99.85	Broken core: as above with haematite-coated fractures.					
327.6	354.9	99.85	108.17	Light green metavolcanic as above. Shows a considerable amount of epidote in the last 0.7m.					
354.9	422.5	108.17	128.78	Much more distinctly banded light green metavolcanic. Quartz at 109.88 (3cm), 110.19 (6cm), 111.31 (5cm 'pod'), 112.47 (7cm 'pod'), 113.87 (3cm), 114.45 (8cm 'pod'), 116.10 (10cm). No further quartz in this interval.	117.04	58			
422.5	425.4	128.78	129.66	The fine-grained metavolcanic is mixed with irregular masses of biotite-bearing foliated metavolcanic: may represent a disaggregated flow (photo).					
425.4	436.2	129.66	132.95	Fine grained metavolcanic as before. Two 2cm quartz veins are at 132.59m.					
436.2	444	132.95	135.33	Epidote-rich section and breccia. Clasts of the fine-grained metavolcanic are up to 5cm long (are subrounded) and in a matrix of epidote. Grades to more angular clasts and a region with obvious fractures at 90° to foliation.					
444	444.5	135.33	135.48	Finely banded metavolcanic. Quartz (3-8cm) at 135.39m.					
444.5	445.8	135.48	135.88	Fault zone. Quartz with calcite and clasts of metavolcanic. Lowest 3cm is massive black chlorite. Contact with underlying metavolcs. is $\approx \perp$ to foliation.					
445.8	450	135.88	137.16	Finely banded green metavolcanics. Layering \ll 1mm.	136.8	63			
450	460	137.16	140.21	Very fine-grained metavolcanic. Foliation occasionally discernable.					
460	465.5	140.21	141.88	Finely banded green metavolcanic.					
465.5	470.5	141.88	143.41	Massive, fine-grained metavolcanic.					
470.5	483	143.41	147.22	Finely banded green metavolcanic. Some fractures are seen from 147.37 to 147.58m.					
483	507.8	147.22	154.78	More massive metavolcanic. Has some irregular calcite-haematite filled fractures // axis from 147.49-147.83. Quartz at: 154.23 (2 & 4cm),					
507.8	510	154.78	155.45	Prominently foliated biotite-bearing interval. One 2mm thick layer contains > 50% pyrite.					
510	516.9	155.45	157.55	More massive metavolcanic.					
516.9	517.6	157.55	157.76	Prominently foliated biotite-bearing interval.					
517.6	542	157.76	165.20	More massive metavolcanic. Quartz at 158.5 (fracturing for 14cm with 2cm quartz), 160.08 (3cm), 160.36 (3cm 'pod'), 163.37 (4cm 'pod' with fractures), 164.96-165.11 (five 1cm lenses with 1cm long pyrite masses in the quartz), 165.35 (2cm).					
527	542	160.63	165.20	Finely laminated metavolcanic	161.85	70			
542	545.4	165.20	166.24	More massive metavolcanic.					
545.4	545.8	166.24	166.36	Cemented breccia zone. Has epidote clasts to 6cm long with a trace of pyrite.					
545.8	546.2	166.36	166.48	More massive metavolcanic.					
546.2	547.2	166.48	166.79	Cemented breccia zone.					
547.2	608	166.79	185.32	Finely laminated metavolcanic. At 174.89 a little pyrite (1% over 15mm) is seen and also at 177.12m (one foliation plane). Quartz at 182.79 (3cm), 182.85 (1cm), 180.44 (3cm), 180.53 (3cm), 181.05-181.36 (quartz with 2-4cm calcite masses), 181.57 (4cm), 182.73 (8cm), 182.79 (3cm), 182.85 (1cm), 182.91 (4cm) & 183.03 (3cm).	178.92	68			
608	608.6	185.32	185.50	Biotite-rich section. Contains $\approx 0.5\%$ pyrite in 1-2mm crystals.	186.84	68			
608.6	631	185.50	192.33	Finely laminated metavolcanic. Quartz at: 191.41-191.57 (3cm, 1cm, 3cm).					
631	632.2	192.33	192.69	Biotite-rich section. (No pyrite).					
632.2	656.3	192.69	200.04	Finely laminated metavolcanic. Quartz at: 193.70 (8cm), 195.74 (8cm 'pod'), 195.96-196.2 (1cm, 1, 2, 2, 1, 1, 1)					
656.3	656.5	200.04	200.10	Slightly pyritic section in foliated metavolcanic.					
656.5	705	200.10	214.88	Finely laminated metavolcanic. Quartz at: 202.3 (3cm), 202.33 (1cm), 203.15 (5cm), 204.28 (4cm), 204.37 (3cm, then 2cm 'pod'), 209.85 (1cm at 70° to foliation), 211.23 (5cm with calcite). At 213.36m an 8mm curved calcite vein is at $\alpha = 10-25^\circ$.	210.31 214.58	80 82			
				705' (214.88m) = EOH					

ARCTURUS VENTURES INC.
 RB CLAIMS
 DIAMOND DRILLING 2011
 SELECTED ASSAY SHEET

DDH RB11-02

					Sample Login Weight	Au	Ag	Co	Cr	Cu	Fe	Mn	Ni	Pb	Zn
					kg	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Drill Hole ID	From (m)	To (m)	Sample ID	Sample Description	0.01	0.001	0.2	0.5	0.5	0.5	0.01	1	0.5	0.5	0.5
RB11-02	60.8	61.0	2517795	mafic meta-volcanic	0.88	0.02	<0.2	32.0	86.4	250.0	6.8	1900	53.6	10.0	303.0
	61.0	61.3	2517796		0.87	0.01	<0.2	31.7	152.0	62.9	6.2	2490	67.9	9.4	145.0

FROM	TO	FROM	TO	LITHOLOGY	STRUCTURE	FROM	TO	INTERVAL
Feet		Meters		DDH RB 11-04	At	α		
0.0	12.0	0.00	3.66	Very broken core: deep olive green chlorite-rich metavolcanic				
12	14	3.66	4.27	Deep olive green metavolcanic plus 0.15m of quartz				
14	25	4.27	7.62	More solid core: lengths to 15cm				
25	28.7	7.62	8.75	Deep green well-foliated metavolcanics. Fine grained (< 0.5mm).	27	65		
28.7	29.8	8.75	9.08	Brecciated zone. Clasts of \geq 10mm with limonite cement.				
29.8	37.5	9.08	11.43	Deep green well-foliated metavolcanics. Core somewhat broken.				
37.5	44.5	11.43	13.56	Solid core, mostly > 20cm lengths. Volcanics more massive and show pale green epidote in 4cm sections associated with quartz that cements 2-4cm clasts.				
44.5	45	13.56	13.72	Foliated (2-5mm alternating felsic and chloritic layers). Contains biotite.				
45	99.5	13.72	30.33	Foliated metavolcanic. 4cm quartz at 14.33m, 3cm at 22.25, 3 veins of 8mm at 23.77, 1cm at 24.51, 2cm at 24.57 & 2cm at 24.72m. Traces of pyrite noted at 20.97 (over 10mm), 21.88 (5mm layer with 50% pyrite), 22.43 (10mm band of pyrite + calcite).	18.59 27.74 28.96	75 55 76		
99.5	100.5	30.33	30.63	Epidote augen 2x5cm. 9cm quartz at 30.48m. 2cm 'pods' at 30.42 & 30.60.				
100.5	120	30.63	36.58	Foliated metavolcanic. Quartz at 31.64, 2cm, at 33.47 = 2cm, epidote with 2cm quartz in 'pods' 33.53-33.71. At 34.23, 4cm 'Pod', at 34.44. At 32.16m the foliation is 'wavy', $\alpha = 27^\circ$, but is 80° just 30cm either side.	33.53 34.44 36.58	25 60 68		
120	120.2	36.58	36.64	Limonite coate fracture zone (no mineralization)				
120.2	153.8	36.64	46.88	Foliated metavolcanic. From 42.37-42.82m box folds appear (photo). At 40.23m some 0.5mm pyrite crystals are evident. Quartz at 43.25 (1cm), 43.46 (2cm 'pod'), 45.38 (2 & 3cm, 2cm apart), 46.42 (3cm), 46.79 (2cm, then 4cm with 2cm horse between). Some pyrite (<< 1%) occurs from 45.72-46.02m.	41.76	63		
153.8	154.4	46.88	47.06	Fracture zone: chlorite, some quartz, \approx 1% pyrite and limonite pseudomorphs after pyrite .				
154.4	156.1	47.06	47.58	Green chloritic metavolcanics as before. Quartz at 46.33 (1cm), 46.45 (3cm), 46.76 (5cm) 47.21 (5cm).				
156.1	157.7	47.58	48.07	Broken core. \geq 2cm pieces. Deep green chloritic metavolcanic with 5mm quartz veins that contain \approx 30% chalcopyrite , malachite and limonite pseudomorphs after pyrite .				
157.7	159.2	48.07	48.52	Green foliated chloritic metavolcanics as before.				
159.2	161	48.52	49.07	Metavolcanics with 20% 1x5mm biotite crystals.			48.61	48.84
161	161.4	49.07	49.19	No biotite.			48.84	49.07
161.4	161.7	49.19	49.29	Broken core: volcanics with 2mm cubic pseudomorphs .				
161.7	166.7	49.29	50.81	Foliated metavolcanics. Quartz veins at: 48.16 (2cm), 48.31 (3cm 'pod'), 50.20 (3cm, 2cm horse then 2cm), 50.35 (3cm), 50.41 (2cm), 50.44 (2cm).				
166.7	167.1	50.81	50.93	Major quartz vein followed by 6cm of 'pug' (fault zone).				
167.1	245	50.93	74.68	Green foliated metavolcanics as before. Quartz at: 51.45 (2cm), 51.51 (2cm), 51.57 (2cm), 51.94 (1cm), 52.18 (2cm), 52.36 (2cm), 54.25 (4cm), 56.81 (4cm), irregular masses between 58.98 and 59.22, the first 12mm having a few 3mm pyrite crystals but \leq 0.5% for the zone. Pyrite at 52.12 (4mm vein), 53.13 (4mm in quartz), 53.49 (crystals to 6mm in a 6cm zone), A little disseminated pyrite from 64.31-64.62m to max. 2% over a 6cm width.	71.32 78.03	85 78		
245	245.4	74.68	74.80	Slight brecciation from 67.67-67.97m. No obvious mineralization. Quartz at: 67.79. Pyrite at 71.69 (6cm, 70% crystals \leq 3mm).				
245.4	252	74.80	76.81	Broken core: twelve 4cm pieces: chloritic metavolcanics with a trace of chalcopyrite and pyrite .				
252	252.2	76.81	76.87	Green foliated metavolcanics as before. Quartz at: 74.52 (4cm) and 76.66 (2cm), 76.96 (3cm with 2 pyrite crystals).				
252.2	259	76.87	78.94	Brecciated zone at 45° to core axis. At 70.82m the rock is fractured (but solid core) for 6cm. One 20mm mass of pyrite is at fracture intersection.				
259	259.9	78.94	79.22	Green foliated metavolcanics as before. Slight brecciation from 77.91-77.97m.				
259.9	276.3	79.22	84.22	Quartz showing fractures at 13° & 15° . A little haematite is along the fractures.				
276.3	277.4	84.22	84.55	Green foliated metavolcanics as before. Quartz at: 80.01 (2cm), 80.13 (3cm with epidote), 80.71 (4cm), 81.11-81.29 (7 small veins \leq 1cm), 82.17 (1cm with calcite).				
277.4	298	84.55	90.83	Deep green brecciated metavolcanic. Shears at 0-15°. No mineralization.	86.87 90.83	80 65		
298	385	90.83	117.35	Green finely laminated metavolcanic. Quartz at: 86.17 (4 veins over 9cm), 90.50 (3cm), 90.56 (2cm), 90.62 (3cm 'pod'). 91.14 to 91.23 has considerable epidote.				
			117.35	Green foliated metavolcanics as before.				
			117.35	End of Hole				

ARCTURUS VENTURES INC.
 RB CLAIMS
 DIAMOND DRILLING 2011
 SELECTED ASSAY SHEET

DDH RB11-04

Drill Hole ID	From Metres	To Metres	Width Metres	Sample ID	Description	Sample Login Weight	Au	Ag	Co	Cr	Cu	Fe	Mn	Ni	Pb	Zn
						kg	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
						0.01	0.001	0.2	0.5	0.5	0.5	0.01	1	0.5	0.5	0.5
RB11-04	19.2	20.4	1.2	M 010421	Meta-volc w/fooliaform pyrite 2-3 % trace malachite	2.67	0.024	<0.2	41.4	132.0	628.0	6.25	1720	39.5	1.7	121
	20.4	21.6	1.2	M 010416	Meta-volc w/fooliaform pyrite 2-3 %	2.32	0.031	0.2	61.2	126.0	1020.0	7.50	1860	40.3	1.9	70
	21.6	22.9	1.2	M 010417	Meta-volc w/fooliaform pyrite 2-3 %	3.07	0.028	<0.2	60.2	112.0	610.0	7.92	1860	34.7	1.7	49
	22.9	24.1	1.2	M 010418	Meta-volc w/fooliaform pyrite 2-3 %	2.51	0.020	<0.2	33.5	189.0	692.0	6.73	1500	32.5	1.1	38
	24.1	25.3	1.2	M 010419	Meta-volc w/fooliaform pyrite 2-3 % trace malachite	1.65	0.016	<0.2	29.1	143.0	845.0	6.37	1930	35.0	1.3	59
							0.119	0.2	225.4		3795.0	34.77	8870		7.7	337
					Average Grade 19.2 - 25.3 m for 6.0 m		0.024	0.0	45.1		759.0	7.0	1774		1.5	67
	48.6	48.8	0.2	2517797		0.75	0.027	<0.2	29.5	58.9	1370	7.70	2030	25.1	7.8	167
	48.8	49.1	0.3	2517798		0.86	0.033	<0.2	24.6	44.8	1730	7.62	2130	27.2	7.3	193