

AR 2012-077

**DRILL PROGRAM
WHIRLEY BROOK Lic# 09724
COLCHESTER COUNTY, N.S.
SUGARLOAF RESOURCES INC.
NTS: 11E11B**

by
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SUMMARY

A total of **388m** of NQ wireline drilling was completed in **2 holes** just east of Whirley Brook, Colchester Co., N.S. (L09724) in November 2011 by R and J Drilling Ltd , under contract by Celtic Tiger Minerals Exploration Inc, a private Lower Sackville, N.S. based exploration . This was done following the discovery of a new gold occurrence at Warwick Mountain in the Cobequid Highlands by T. MacHattie of the NSDNR (MacHattie, 2012) as a result of his regional mapping and sampling program exploring the rare earth potential of Late Devonian to Early Carboniferous bimodal magmatism in this area.

The holes were spotted to test a roadside exposure of similarly silicified and pyritiferous mafic volcanics to that found at the newly reported Warwick Mountain occurrence (some 700m to the NW).

DDH SL-11-01 was drilled toward 188° Az at -45 under the roadside exposure for 197m. This hole encountered similar alteration in 7 narrow (.3-.5m) silicified , gray clay and pyritiferous zones within the top ~100m thick , 80° north dipping mafic flows. These zones ran .008 to .020 ppm Au, .27 to .95 ppm Ag and 215-701 ppm As over the 1m sampling intervals. (A 6m zone from 40-46m ran .0055 ppm Au, .321 ppm Ag and 363.3 ppm As)

Of more interest was a 44m zone (core interval thickness) from 101 to 145m that showed pervasive silica, clay and fine pyrite alteration throughout the entire interval. It occurred in an intercalated rhyolitic flows and tuff unit that extended from 101 to 154m. It returned fairly consistent low grade gold and elevated arsenic throughout. The 44m averaged .009 ppm Au, .189 ppm Ag and 222.6 ppm As. (the upper 20 m of this interval was more enriched in Ag: .417 ppm).

Forty meters of unmineralized mafic flows and tuffs extended to the end of the hole.

DDH SL-11-02 was drilled at the same collar position and towards 188° Az at an inclination of -60° to further test these alteration zones. Unfortunately, the felsic unit narrowed down to only 20.5 m and appeared to be more sheared and was less silica altered then that of the zone cut in SL-11-01. It did contain disseminated very fine grained pyrite and 9m of the felsic unit from 141-150m returned .272 ppm Ag, 199 ppm As, 138 ppm Y, 600 Pb, 4.07 ppm Cd and showed only some slight enrichment in Au and Mo in the 140-142 m area. (2m ran .010 ppm Au and 286 ppm As).

Only three small .16-.30 m altered zones occurred within the upper mafic unit of this hole , returning .013 to .020 ppm Au, up to .30 ppm Ag and up to 524 ppm As over the 1m sampling intervals. A zone of 9m of more clay altered mafic tuff and thin scoraceous basalts was heavily enriched in arsenic from 128 to 137m (2142 ppm As) but the precious metal content was low.

A .75 to 1.5m thick fault zone was identified at the tops of the felsic units in both holes . The reason for the rapid thinning of the felsic unit between these two holes is at present not determined. . If the two felsic units are not the same stratigraphically and that the wider unit seen in SL-11-01 might occur deeper than where SL-11-02 was halted. An argument against this is that there is a coarse well bedded mafic tuff (possible even waterlain) zone of ~ 4-5m thick occurring about the same depth below the bottom contact of both felsic units. (ie at 167.34 – 173.40 in SL-11-01 and 158.33-162m in SL-11-02). Rhyolitic flow units are well known to pinch and thin rapidly.

A N/S linear does exist near the holes and the magnetic signature of the volcanics on either side of this linear is somewhat different, which suggests some faulting is the reason or it maybe a combination of stratigraphic thinning and some fault adjustment.?

The significant width of the auriferous alteration zone in DDH SL-11-01 and the presence of several new showings being found in the area shows this area to be worthy of more intensive exploration. Consideration must be given to do various geological / prospecting , geophysical, and geochemical surveys to isolate possible greater concentration of sulphides and silica alteration.

INTRODUCTION

The Whirley Brook Licence 09724 (53claims) was staked 11 May 2011 by Lindsay Allen for a private Nova Scotia based exploration company, Sugarloaf Resources Ltd. who were conducting exploration for rare earths in the Cobequids at that time. Under an agreement Celtic Tiger Minerals Ltd. ,a private Lower Sackville, N.S. based company , funded a small drill program of 388m of NQ drilling in two holes after a new gold occurrence at Warwick Mountain in the Cobequid Highlands was reported by T. MacHattie of the NSDNR (MacHattie, 2012) some 700m to the NW. This showing was found as a result of his regional mapping and sampling program exploring the rare earth potential of Late Devonian to Early Carboniferous bimodal magmatism in the general area. (MacHattie, 2010)

A woods road into Lake Whirleywaugh had been prospected in a reconnaissance manner and a similarly silicified and pyritiferous mafic volcanic showing to that found at the newly reported Warwick Mountain occurrence was uncovered. As the company happened to be drilling nearby, it was decided to drill test this alteration zone.

The drilling was carried out by R&J Drilling of Middle Musquodoboit from November 07, 2011 to November 14, 2011. This report details the results of this program.

LOCATION, ACCESS and TOPOGRAPHY

The centre of the property is located approximately 20km S of Tatamagouche , N.S. and 4 km S of the village of West New Annan, Colchester County, Nova Scotia. (Figure 1)

Access to the claims is via paved highway southward from Tatamagouche, through West New Annan and Warwick Mountain . Access is superb with a gravel woods road running just east of Whirley Brook to Whirleywaugh Lake .

The topography spans the north side of the Cobequid Mountains rising to a maximum of 280m in the southern portion of the claims. The claims are incised by 4 large brooks which are tributaries of the French River that runs W to E just north of the Licence. The property is in fact within the French River Water Supply Area. Special permission must be obtained to do ground disturbance exploration within the license boundaries.

The vegetation consists mostly mixed woods with patches of extensive clear cut and some dense thickets of softwoods in the river valleys.

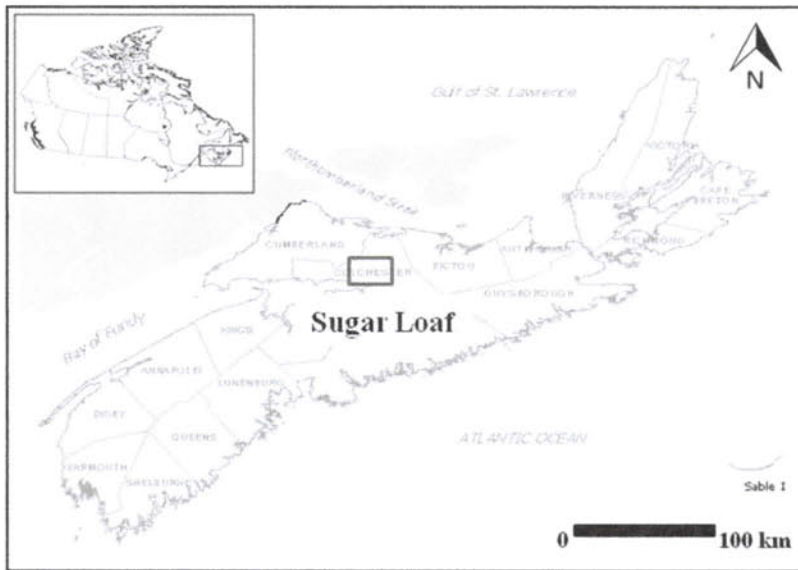


Figure 1: Property Location Map

LIST OF CLAIMS

LICENSE #	CLAIMS	TRACT	REFERENCE MAP	ANNIVERSARY
L09724	LMNO	78	11E11B	May 11
	PQ	79	11E11B	
	ABGH JK PQ	90	11E11B	
	CDEF GHJK LMNO PQ	91	11E11B	
	EJKL MNOP Q	92	11E11B	
	MNOP	93	11E11B	
	CD	100	11E11B	
	ABCD	101	11E11B	
	ABCD	102	11E11B	
	AB	103	11E11B	

Table 1: Licence Tabulation

PROPERTY DESCRIPTION

The Whirley Brook property discussed in this report consists of 53 contiguous claims staked under a single license # 09724. They are all within Reference Map NTS 11E11B. The claim locations are shown in Figure 2.

PREVIOUS WORK

Tripple Uranium Resources Inc. staked a large claim block over the area in 2006 based upon multi-metallic mineralization potential discovered by Gulf Minerals Ltd. in the late 1970's and early 1980's.

Tripple Uranium Resources Inc completed 4470.1 line-kms of airborne magnetic and radiometric surveys over the region in 2007. The potential for Rare Earth Element (REE) mineralization in the area has been the recent exploration focus. Tripple conducted reconnaissance prospecting in the area of the claim block.

Magnum Resources have conducted a multiyear evaluation of rare earth mineralization to the west of the claim block since 2006.

Work by Trevor Mac Hattie, of the Nova Scotia Mines Branch, has been working in the area over the last few years and has highlighted the REE mineralization and outlined the potential for epithermal gold mineralization. (MacHattie, 2010)

Hudgins and all conducted reconnaissance prospecting and stream sampling for gold in the 1980s with mediocre results.

Regional scale mapping has been conducted by the Nova Scotia Mines Branch, Howard Donohoe 1982, and Piper 2005.

PRESENT WORK

A total of **388m** of NQ wireline drilling was completed in **2 holes** just east of Whirley Brook, Colchester Co., N.S. (L09724) in November 2011 by R and J Drilling Ltd of Middle Musquodoboit, N.S., under contract by Celtic Tiger Minerals Exploration Inc, a private Lower Sackville, N.S. based exploration company. This was done following the discovery of a new gold occurrence at Warwick Mountain in the Cobequid Highlands by T. MacHattie and similarly altered mafic volcanics within the licence area.

As drill holes were near a public road, the casings were removed after care was taken to cement all holes down to bedrock.

The core was logged by the author and a field assistant, in a field office site in the village of Wentworth. Two other field assistants cut and sampled the core at an office site in Dartmouth under the supervision of the author. The holes were sawn in half on site and one meter sampling intervals were taken over any zone with sulphides or containing interesting alteration.

Blank control sample powders were added at every 50 sample taken.

Once core was sampled the core was placed on pallets and taken for temporary storage in an office warehouse in Dartmouth.

The samples were bagged immediately after sampling and the bags were sealed using locking plastic fasteners.

This procedure usually involved several days of sampling of the 2 holes and the immediate boxing up of the samples. The boxes were numbered and completely wrapped with packing tape and taken directly to the Armour shipping office in Kentville by the author. The samples were then shipped to ALS Chemex Laboratory in Val d'Or, Quebec.

The personnel and days worked are presented on attached Form 10's

DISTRICT AND PROPERTY GEOLOGY

The geology of the Whirley Brook property in the Cobequid Hills area consists of metamorphosed sediments, granites, and volcanic deposits which range in age from Precambrian to Devonian that are surrounded by easily eroded low-lying Carboniferous sediments to the north.

Glacial overburden is thick on the Property and there is limited outcrop. However, the majority of the property is overlain by Middle Devonian to Early Carboniferous Fountain Lake Group emplaced with granite and diorite-gabbro plutons of the Hart Lake-Bayers Lake Granite pluton ("HLBL granite"). The Fountain Lake Group includes the Byers Brook formation overlain by the Diamond Brook formation. This group consists mostly of rhyolite and basaltic volcanic rocks with minor tuffaceous and clastic rocks.

The Late Carboniferous Cumberland Group is found to the north of the property. The group represents deposition in fluvial, alluvial plain, lacustrine, estuarine, and shoreline environments with restricted marine influence, such as a marine gulf setting.

The Property lies between the Rockland Brook Fault and unconformably overlying Late Carboniferous sedimentary rocks of the Cumberland Basin. The Hart Lake – Bayers Lake granite, to the south west, is dominated by medium- to coarse-grained, hornblende-biotite-magnetite-bearing alkali-feldspar granite (Pe-Piper, 1996). Pegmatitic and granophyric textures are ubiquitous features, which attest to the overall shallow magma emplacement.

Porphyritic diabase dikes and diorite pods intrude both the granite and the overlying volcanic rocks.

McHattie (2010) demonstrates the 5km x 1km contact zone between the Byers Brook Formation and the Hart Lake-Byers Lake granite in the Debert Lake area is host to anomalous polymetallic (Sn, W, Mo, Zn, Pb, Ag, Bi, F, Th, Zr, Hf, and REE) mineralization as well as pervasive potassic and sodic alteration. This has been further augmented by ongoing work by Capella Resources and Magnum Resources.

The Cobequid-Chebaducto Fault Zone has been identified as a perspective environment for IOCG deposits, modelled on the well-known multi-mineral Olympic Dam deposit in Australia, characterized by wide-spread hematite, copper and gold mineralization, and low grade uranium and silver mineralization.

Recent reconnaissance and rock sampling work by The NSDNR under the supervision of Trevor MacHattie along streams and woods roads on the property has noted that the primary lithologies are 75-80° N dipping mafic flows and minor tuffs in the northern half of the claims, while felsic rhyolitic flows, tuffs and possible shallow felsic intrusive are found in the southern half of the claims. Scintillometer surveys by Trevor and some by Celtic Tiger Minerals staff indicates elevated radiation (170 to 400cps) in these felsic rocks.

Two areas of sulphide rich mafic rocks were noted. One gravel quarry in tract 91 claim F had heavy well crystallized pyrite in up to .5m sheared mafic tuff zones while another zone near the drill site had up to .5m thick siliceous and pyritiferous alteration zones within mafic flows. This showing was channel sampled by Trevor MacHattie while the drilling was underway and will be reported on when results of a similar altered zone at Warwick Mountain is released and the ground is released for staking. (It was under closure at the time of drilling).

DRILL PROGRAM AND RESULTS

The two holes SL-11-01 and SL-11-02 were drilled at the same collar location and towards the same 188° Az direction to cut a roadside alteration zone within mafic volcanics at depth. SL-11-01 was drilled at an inclination of -45° while the second hole was steepened to -60°. (Figure 3)

Detailed logs are provided in Appendix A and a section of the two holes in Figure #3. Analytical results are shown in Appendix D and results of 5 of the elements of interest are also plotted on the logs.

Although indication of bedding from a volcanic sequence is difficult at the best of times to determine from limited drill data, enough evidence seems to indicate a northward dip of ~ 80°. The flow banding in the rhyolites indicate a somewhat shallower dip ~70°. – however flow banding in such viscous volcanic is considered not as reliable as measurements of dips from bedded tuffs.

The top of both holes had ~ 90 m true thickness of predominately fresh mafic flows. These flows consisted of massive and amygdaloidal flows. They ranged from .3 to 5.0m massive lower porphyritic flow units with .2 to 3.0m thick amygdaloidal upper flows, topped in some cases with narrow scoraceous zones and/or mafic tuffs. The amygdules were variably filled with dark chlorite, quartz,, chalcedony, and calcite. In a few local areas the mafic flows did show some subvertical stretching of the amygdules. The mafic rocks were variably hematized either as a pervasive brownish colour throughout the flows or as discrete hematitic stockwork veinlets. Older thin quartz veining was common with some minor sulphides. These were cut by younger moderately dipping calcite, hematite and kaolinite veinlets.

Narrow .3 to .5 sulphide zones containing light gray, very fine grained chert-like silica with disseminated pyrite plus or minus arsenopyrite occurred throughout the mafic volcanics. They were similar to the alteration zone seen outcropping. Seven zones sampled in SL-11-01 and 3 zones in SL-11-02 all returned low grade gold, silver and arsenic. These zones often occurred within the scoracious or tuffaceous tops of the massive flows.

Felsic volcanic were cut from 101 to 154m (53m core interval thickness) in SL-11-01 and from 139.74 to 150.24 (20.5m) in SL 11-02. These volcanic consisted of intercalated flow banded rhyolitic rocks and rhyolitic lapilli tuff. The upper portion of both felsic units was pervasively altered with fine light gray silica, clay (smectite?) and very fine pyrite and rarer arsenopyrite. The zone in DDH SL-11-02 appeared to be somewhat less silicified? One zone between 101-111 in SL -11-01 had a subhorizontal secondary clay alteration (kaolinite?) foliation cutting across the predominate silica/ sulphide alteration. This style of alteration consisted of irregular patchy zones, which roughly seemed to be trending vertically ? or subparallel to the bedding direction??

A .75 to 1.5m thick fault zone was identified at the tops of the felsic units in both holes . The reason for the rapid thinning of the felsic unit between these two holes is at present not determined. . If the two felsic units are not the same stratigraphically and that the wider unit seen in SL-11-01 might occur deeper than where SL-11-02 was halted. An argument against this is that there is a coarse well bedded mafic tuff (possible even waterlain) zone of ~ 4-5m thick occurring about the same depth below the bottom contact of both felsic units. (ie at 167.34 – 173.40 in SL-11-01 and 158.33-162m in SL-11-02). Rhyolitic flow units are well known to pinch and thin rapidly.

A N/S linear does exist near the holes and the magnetic signature of the volcanics on either side of this linear is somewhat different, which suggests some faulting is the reason or it maybe a combination of stratigraphic thinning and some fault adjustment.?

Results:

The **DDH SL-11-01** hole encountered similar alteration to that exposed in the roadside outcrop in 7 narrow (.3-.5m) silicified , gray clay and pyritiferous zones within the top ~100m thick , 80° north dipping mafic flows. These zones ran .008 to .020 ppm Au, .27 to .95 ppm Ag and 215-701 ppm As over the 1m sampling intervals. (A 6m zone from 40-46m ran .0055 ppm Au, .321 ppm Ag and 363.3 ppm As)

Of more interest was a 44m zone (core interval thickness) from 101 to 145m that showed pervasive silica, clay and fine pyrite alteration throughout the entire interval . It occurred in the top portion of an a felsic volcanic unit that extended from 101 to 154m . It returned fairly consistent low grade gold and elevated arsenic throughout. The 44m averaged .009 ppm Au, .189 ppm Ag and 222.6 ppm As. (the upper 20 m of this interval was more enriched in Ag : .417 ppm).

DDH SL-11-02 was drilled at an inclination of -60° to further test these alteration zones at a deeper level .Unfortunately, the felsic unit narrowed down to only 20.5 m and appeared to be more sheared and was less silica altered then that of the zone cut in SL-11-01. It did contain disseminated very fine grained pyrite and 9m of the felsic unit from 141-150m returned .272 ppm Ag, 199 ppm As, 138 ppm Y, 600 Pb, 4.07 ppm Cd and showed only some slight enrichment in Au and Mo in the 140-142 m area. (2m ran .010 ppm Au and 286 ppm As).

Only three small .16-.30 m altered zones occurred within the upper mafic unit of this hole , returning .013 to .020 ppm Au, up to .30 ppm Ag and up to 524 ppm As over the 1m sampling intervals. A zone of 9m of more clay altered mafic tuff and thin scoraceous basalts was heavily enriched in arsenic from 128 to 137m (2142 ppm As) but the precious metal content was low.

A overall look at the metal content of the mafic versus the felsic rocks indicates a true bimodal distribution. (See Appendix D). Little intermediate volcanic material is present in these two holes. Moreover it was noted that where more serpentized felsic rocks were encountered , Y was particularly elevated. Also several areas were returned with some enrichment in Zn, Pb, Mo, V and As. This indicates "pulses" of hydrothermal fluids of differing composition. A narrow zone between 101 and 111m in SL -11-01 had a sub horizontal secondary clay alteration foliation cross cutting the silica / sulphide mineralization, indicating these volcanic have undergone multiple mineralizing and alteration events.

LITHOGEOCHEMICAL SAMPLING

The core was logged , cut and sampled in a field office site in the village of Wentworth. The holes were sawn in half on site and one meter sampling intervals were taken over any zone with sulphides or interesting alteration . Once core was sampled the core was placed on pallets and stored in a locked building. The samples were bagged immediately after sampling and the bags were sealed using locking plastic fasteners. This procedure usually involved several days of sampling of the 2 holes and the immediate boxing up of the samples. The boxes were numbered and completely wrapped with packing tape and taken directly to the Armour shipping office in Kentville. The samples were shipped to ALS Chemex Laboratory in Val d'Or, Quebec.

There the samples were crushed to 70% < 2 mm and then a split was pulverized to 85% of sample being <75 microns The samples were reduced using a riffle splitter to 1000 g of sample. They were then pulverized to 85 % < 75 microns.. This preparation was done at the Val d'Or facility and the sample was then sent to Vancouver for analysis. Here a 250 g split was assayed using their "4 acid digestion method". A suite of 60 elements (Analysis code ME-MS61) was tested using induced coupled plasma method. Copper over 1% was run using their ore grade 4 acid package Cu AA62 with AAS finish. A cut of 50 grams of the sample was analyzed by fire assay with AA finish on the dissolved bead. (See Appendix B) Check samples were added at every 50m intervals.

The sample locations are incorporated in the drill logs. (See Appendix C)

The results of 5 metals of interest are also plotted beside the sample number in the logs. (Appendix A)

Complete analytical results of all the elements tested are presented in Appendix D

CONCLUSIONS

Two holes spotted to test a roadside exposure of silicified and pyritiferous mafic volcanics. This alteration was similar to that found at the newly reported Warwick Mountain gold occurrence (some 700m to the NW).

DDH SL-11-01 was drilled toward 188° Az at -45 under the roadside exposure for 197m. This hole encountered similar alteration in 7 narrow (.3-.5m) silicified, gray clay and pyritiferous weakly auriferous (.008 to .020 ppm Au) zones within the top ~100m thick, 80° north dipping mafic flows. These zones ran .008 to .020 ppm Au and 215-701 ppm As over the 1m sampling intervals. (A 6m zone from 40-46m ran .0055 ppm Au, .321ppm Ag and 363.3 ppm As)

A 44m zone (core interval thickness) from 101 to 145m showed pervasive silica, clay and fine pyrite alteration throughout the entire interval. It occurred in a intercalated rhyolitic flows and tuff unit that extended from 101 to 154m. It returned fairly consistent low grade gold and elevated arsenic throughout. The 44m averaged .009 ppm Au, .189 ppm Ag and 222.6 ppm As. (the upper 20 m of this interval was more enriched in Ag : .417 ppm).

Forty meters of unmineralized mafic flows and tuffs extended to the end of the hole.

DDH SL-11-02 was drilled at the same collar position and towards 188° Az at an inclination of -60° to further test these alteration zones. Unfortunately, the felsic unit narrowed down to only 10m and appeared to be more sheared and was less silica altered than that of the zone cut in SL-11-01. It did contain disseminated very fine grained pyrite and 9m of the felsic unit from 141-150m returned .272 ppm Ag, 199 ppm As, 138 ppm Y 600 Pb 4.07 ppm Cd and showed only some slight enrichment in Au and Mo in the 140-142 m area. (2m ran .010 ppm Au and 286 ppm As).

Only three small .16-.30 m altered zones occurred within the upper mafic unit of this hole, returning .013 to .020 ppm Au and up to 524 ppm As over the 1m sampling intervals.

A zone of 9m of more clay altered mafic tuff and thin scoraceous basalts was heavily enriched in arsenic from 128 to 137m (2142 ppm As) but the precious metal content was low.

An overall look at the metal content of the mafic versus the felsic rocks indicates a true bimodal distribution. Little intermediate volcanic material is present in these two holes. Moreover, it was noted that where more serpentized felsic rocks were encountered, Y was particularly elevated. Also several areas of enrichment in Zn, Pb, Mo, V and As indicates "pulses" of hydrothermal fluids of differing composition. A narrow zone between 101 and 111m in SL -11-01 had a sub horizontal secondary clay alteration foliation cross cutting the silica / sulphide mineralization, indicating these volcanic have undergone multiple mineralizing and alteration events.

A .75 to 1.5m thick fault zone was identified at the tops of the felsic units in both holes. The reason for the rapid thinning of the felsic unit between these two holes is at present not determined. A N/S linear exists near the holes and the magnetic signature of the volcanics on either side of this linear is somewhat different, which suggests some faulting is the reason. However rhyolitic flow units can pinch rapidly and it maybe a combination of stratigraphic thinning and some fault adjustment.

The significant width of the auriferous alteration zone in DDH SL-11-01 and the presence of several new showings being found in the area shows this area to be worthy of more intensive exploration.

Consideration must be given to do various geological / prospecting , geophysical, and geochemical surveys to isolate possible greater concentration of sulphides and silica alteration.

RECOMMENDATIONS

A Lidar Survey has been completed over the region containing these claims. This survey shows remarkable detail concerning flow ridging, cross faulting , etc. This data should be firstly interpreted with known geologic control, then ground checked in conjunction with geological mapping. This work might be underway at NSDNR, if so we should monitor this work carefully. This geological mapping should be accompanied by careful scintillometr work and lithological sampling of any interesting sulphide and silica/clay rich alteration zones.

Recent work by Lindsay Allen has indicated visible gold flakes being found in adjacent streams. This should be followed up to cut off points along stream beds to in an effort to find the bedrock source.

As various companies are planning IP surveys on their properties this summer, and if mob costs can be shared, a few lines of IP should be run over the drilled section to see its geophysical response. ie if resistivity effects can outline silicified and potentially mineralized zones from normal often silica rich rhyolitic volcanics, then it could be a more effective tool in finding more intensely altered and mineralized areas. Excellent chargeability anomalies should easily locate more sulphide rich areas.

Radiometric airborne anomalies should be prospected intensely. These could outline potassic altered areas and zones of high thorium which has been correlated with elevated rare earths.

Regarding rare earths : High Ce and Y values were returned in some areas sampled. These could easily be retested for rare earths as pulps are still at lab. If successful this could add economic value to the precious metal targets sought.

A broad tree bark geochemical survey could zero in on prospective areas in heavily treed areas on the property.

Also some thin section work and XRF mineral identification work should be done to check the character of the mineralization and alteration types seen , to act as a guide to vectoring in on areas of more interest.

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AUTHOR'S CERTIFICATE

1) I, Lyndon R. Jensen reside at: 48 Perrier Drive

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2) I have a Bachelor of Science degree in Geology from Dalhousie University and have been a practicing exploration geologist for the past 33 years; most of the work has been with major mining companies and here in the Atlantic Provinces.

3) I am president of a consulting company called Bluenose Gold Exploration Ltd. which has been in operation since 1994.

4) This report is based on direct involvement and supervision of mineral exploration activities while under contract by Celtic Tiger Minerals Exploration Inc. The author was responsible during that period of logging and sampling of core.

5) I am a registered member in good standing of the Association of Professional Geoscientist of Nova Scotia, registration number 097.

6) I am responsible for the preparation of this assessment report.

Dated this 9th day of May, 2012



Lyndon R. Jensen

President,

Bluenose Gold Exploration Ltd.

Appendix A: Summary Drill Logs

ABBREVIATIONS

fg fine grained	calc calcite or calcareous
mg medium grained	py pyrite
cg coarse grained	cp chalcopyrite
vcg very coarse grained	bn bornite
gy gray	az azurite
rd red	mar marcasite
d gy dark gray	moly molybdenite
v vein	ser sericite
vl veinlet (few mm)	hem hematite
hl v "hairline" veinlet (< 1mm)	mag magnetite
alt alteration	mont montmorillinite
diss disseminated	ka kaolinite
ca core angle (angle of feature makes with long axis of core)	gr greissen
wd weathered	porp porphyritic
dir direction	di diorite
fol foliation	gab gabbro
ss sandstone	gr granite
f gr ss fine grained sandstone	ap aplite
sl slate	peg pegmatite
cg conglomerate	myl mylonite
qtz quartz	K feld potassic feldspar
qtzte quartzite	and andesite

rhy rhyolite

gar garnet

tl tourmaline

chl chlorite

epi epidote

serp serpenitine

dol dolomite or dolomitized

pheno phenocrysts

abund abundant

fract fracture

hfl hornfels

bi biotite

musc muscovite

hbl hornblende

pyr pyroxene

ba barite

f fault

fz fault zone

DIAMOND DRILL LOG					SL-11-1					
OWNER	SUGARLOAF RESOURCES INC		LOCATION	UTM Zone 20	DEPTH	197m	START	11/8/2011		
PROPERTY	Sugar Loaf		EASTING	471200	AZ.	188	FINISH	11/10/2011		
LOCATION	Colchester County		NORTHING	5050827	DIP	45	DRILLED BY	J & R Drilling Ltd		
HOLE IDENTITY	SL-11-1		ELEVATION	195m	CORE SIZE	NQ	LOGGED BY	Lyndon Jenson		
			LICENCE	9724			LOG DATE	11/10/2011		
			NTS SHEET	11E/11B						
			Samples and assay results; all element values in ppm unless otherwise specified							
From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
0	4.8	overburden								
4.8	5.17	brown massive basalt. Brownish grey. Abund magnetite. Cut by qtz and calc veining ca 35°. A lot of dissem fine py on margins. Qtz calc and py is over a zone of 1 cm. py is dissem 50%. Hairline qtz veins with py at EOI ca 15° cut by fract ca 20° IOD and 45°. dk chl vltcs ca 50°	1	4.8	5.8	1	0.013	28.3	0.95	170
5.17	5.51	same. Autobrecciated zone related to qtz sulphide vein ca 15° massive sulphide patches with py cut by chl vltcs ca 60° hairline. Core is broken up								
5.51	5.8	same. Last 10 cm 0.25 cm qtz and calc veins with sulphides on margins. 2 spacks of chalcopyrite on margins. Qtz and calc veining is ca 50°, 65° IOD								
5.8	6	same	2	5.8	6.8	1	<0.005	28.1	0.3	172
6	6.36	same. Massive basalt. Few patches of 2 cm with black chl filled vespicles. Few patches of qtz calc and rimmed by py.								
6.36	6.85	core grounds. Veinlets of grey chert qtz 2 - 3 mm thick. Kaolinite associated with it fine py associated as well								
6.85	7	same. 1.5 cm calc and fine py on margins ca 5° cutting similar veins with py on margins	3	6.8	7.8	1	0.014	31.9	0.63	135
7	7.36	massive basalt stockwork of grey silica ca 80°, 85° on margins of silica zones partially brecciated chl some kaolinite. On margins of veins is dissem massive py dissem massive py. Dissem in wall rock of basalt. Magnetite								
7.36	7.8	vessicular basalt calc filling vespicles magnetite throughout. Some 45° fract with hem, dissem py in host rock trcae amount								

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
7.8	7.94	brown massive basalt. Hem. No magnetite. Sharp lower contact ca 85°. May be diabase dyke. Cut by calc and py vlt.	4	7.8	8.8	1	<0.005	16.6	0.23	139
7.94	8	highly vossicular basalt. Vossicles are 2 - 3 mm. rock is hematized. Vossicles are filled with calc. rock has 25 - 30% <u>dissem py well mineralized</u>								
8	8.1	core grounds.								
8.1	8.38	vossicular basalt dark grey to black. No magnetite. Vossicles are 1 - 2 mm. trace py. Rock is fairly chloritized with chl and hem.								
8.38	8.8	basalt has tuffaceous frags. Possible pumice frags. 2 cm by 1 cm. brown silicified patches 2 cm. no sulphides. Some mag.								
8.8	9	porph basalt phenocrysts up to 3 mm. top part of unit has irreg calc veining ca 45°. Autobrecciated zone of 2 - 3 cm trace py. At EO1 1 cm breccia zone ca 80° calc and fine py	5	8.8	9.8	1	<0.005	13.1	0.11	157
9	9.7	massive basalt. Brownish grey. Heavy magnetite. One vlt 0.25 cm of calc ca 5° brecciation on margin. No sulphides								
9.7	9.9	massive basalt. Some phenocrysts of feld								
9.9	10.7	vossicular basalt calc in vossicles. Qtz veining ca 45° irreg. plagioclase feldspar crystals up to 1.5 cm. irreg patches of hem. Trace py asociated with it. Last 2 cm has py 15% ca 45°								
10.7	10.8	core grounds fine py chl clay alt								
10.8	11	porph basalt. Patches of py 1 cm by 0.5 cm. massive py. Grey silica alt								
11	11.84	vossicular basalt. Vossicles 2 - 5 mm. calc filled. Larger ones have qtz and possibly feld. Magnetite. Foliation aligned ca 45° some have broken rims of hem. Trace py.								
11.84	12.44	same. Massive basalt. Patches of serecite or odd clay mineral. Brownish grey. 1 - 2 vlt of qtz calc 2 - 3 mm ca 45°. Anothre one is 1 cm ca 20° IOD								
12.44	13	vossicular basalt. Few patches up to 2 cm by 3 cm of qtz and calc								
13	13.3	vossicular basalt vossicles are chl filled	6	13	14	1	<0.005	12.8	0.11	202

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
13.3	13.42	patch of qtz 2 cm thick by 4 cm. has circular textures. Light grey qtz coliform texture on margins of qtz patch								
13.42	14	vesicular basalt								
14	14.7	basalt patches of alt qtz and calc grey silica alt. patches of py 0.5 by 1 cm magnetite through interval. Stockwork. Most of veining is qtz	7	14	15	1	<0.005	14.6	0.15	201
14.7	14.8	massive basalt core grounds clay alt								
14.8	15.67	odd highly vossicular textured mafic volcanic. Looks like pumice. 0.5 mm vossicles. Frothy pumice layer. Top 20 cm is clay alt. fine py 10 - 15% yellowish grey clay alt. bottom part is calc filled with fine py scattered and hem.	8	15	16	1	<0.005	41.9	0.26	209
15.67	16.29	massive basalt brownish grey. Weakly magnetic								
16.29	16.7	massive basalts patches 2 cm irreg of qtz, calc 2 generations of qtz greyer and whiter ca 45° trcae py on margins								
16.7	17	same. 2 cm grey qtz with fine py ca 70° brecciated frags calc scattered through it. Stockwork of calc veining at bottom of interval ca 70°								
17	17.89	porph basalts. Phenocrysts 3 mm with rare calc veining 2 mm fract with chl ca 80°								
17.89	19.1	massive basalt patches of calc with silica on margins. Dk chl associated with it								
19.1	19.49	same. Autobrecciation. Hem filling fragments. Some py. Small vugs of calc. patches 10% py 2 cm by 3 cm 10 - 15% fine py. At EOI 1 cm shear zone with calc and hem along it ca 50°	9	19	20	1	<0.005	32.5	0.31	271
19.49	20	same. 3 cm qtz and calc vein ca 15° cut by flesh coloured calc ca 85° 2 mm veins, orange calc/caly alt?								
20	20.15	shear zone highly brecciated shear zone ca 25° hem calc qtz possible kaolinite								
20.15	23	porph basalt v f gr. Patches of chl vossicles over 2 cm. one area at 22.31 m to 22.4 m stockwork breccia zone qtz 1 cm thick ca 45°, 85° cut by calc veining ca 45° IOD. No sulphides								
23	23.2	same. Hairline irreg fract of dark chl. Ca 80°, 65°								
23.2	27.71	porph basalt calc veining stockwork 2 mm dark chl along fract								

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
27.71	28	originally scoraceous basalt. Greenish grey chl alt. fine py. Top and bottom has massive sulphide patches over 2 cm. vugs of calc and qtz with chl in middle	10	27.4	28.4	1	<0.005	32.7	0.21	183
28	28.27	similar rock. Hematized clay alt								
28.27	28.53	massive basalt. Irreg veins and patches of massive py. Calc and kaolinite? Bottom 20 cm has brownish hematite and chlorite. Possible sericite	11	28.4	29.4	1	<0.005	42.8	0.18	162
28.53	28.73	same. Py is coarse in patches around vesicles? 15% py through whole unit								
28.73	29	foliated mafic tuff. Zones of hem, 2 - 3% fine py								
29	30	mafic tuff medium to bluish grey at base. Frags flattened pumice. 2 - 1.5 cm 1% dissem py hem along narrow zones. Bottom third is bluish grey clay alt very soft sericite? Glass shards	12	29.4	30.4	1	<0.005	45.1	0.14	143
30	30.69	same. Highly foliated ca 50°								
30.69	31.2	same.								
31.2	31.35	autobrecciation of calc and qtz with py. Autobrecciation ca 45° hem in it. Clay alt. trace py								
31.35	33.45	massive brownish grey basalt chloritic vlts calc vlts ca 10° 2 mm								
33.45	33.78	vessicular basalt. Vesicles are 2 mm								
33.78	34	massive basalt clay alt brownish chl alt very soft. Patches of 1 cm by 1 cm with calc vug filling								
34	34.34	vessicular basalt. Dark chl filled vesicles. Some calc patches of clay alt. brownish soft clay rimmed with bluish clay								
34.34	34.79	massive basalt chl alt								
34.79	35	vessicular basalt. Small vesicles with calc and dark chl filled vesicles. Brownish grey clay alt								
35	37.47	v f gr vessicular basalt clay alt glass shards								
37.47	38.41	mafic tuff clay alt chl zones of 1 cm of hem, ca 65° at bottom of interval qtz vein. Shear zone 1 cm								
38.41	38.92	vessicular mixture of felsic tuff. 1 cm calc filled vugs. Cut by qtz and calc larger vugs with py on margins. Top part hem alt.								
38.92	39.71	massive basalt stockwork of clac autobrecciation patches of light grey silica. Trace py								

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
39.71	39.93	vessicular basalt 1.5 cm filled with qtz 2 generations of qtz grey and white								
39.93	41	highly altered scoria basalt. Unusual brownish grey alt. 40.69 m to 40.95 m 3 patches of py massive 1 cm zones	13	40	41	1	0.011	48.4	0.4	159
41	41.16	holes are filled with chl 25-30% dissem py two colours (greyer)	14	41	42	1	<0.005	18.5	0.18	232
41.16	41.2	vessicular basalt. Fine dissem clay alt. cut by stockwork of calc and qtz vlt 2 mm with py								
41.2	41.55	same. Qtz carbonate vlt and sulphide ca 5° 2 mm								
41.55	42.2	red massive basalt. Hem. Cut by qtz veins with py ca 30° stockwork smaller vlt of calc dk chl associated								
42.2	42.52	same. Five autobrecciated patches of py 0.5 cm grey clay alt	15	42	43	1	0.008	45.2	0.42	285
42.52	43	zone of scoria. Heavily clay altered med grey with dissem py. Patches of up to 30% dissem sulphides								
43	43.9	vessicular basalt. Stockwork of calc and qtz silica alt fine py	16	43	44	1	<0.005	38.1	0.19	218
43.9	44.38	light grey clay altered zone. Patches of qtz and calc. dissem py 10 - 20% odd bluish grey clay alt. highly altered zone.								
44.38	44.91	vessicular basalt cut by irreg vlt of qtz and calc. ca 20°, 45° patches of hem. Not as much py. Irreg silica alt.	17	44	45	1	0.006	30.9	0.27	184
44.91	45.4	same. Patches of qtz and calc	18	45	46	1	0.018	31	0.47	163
45.4	45.51	same 5% py								
45.51	46	heavily clay alt py rich zone. Clay alt scoria. Ca of mineralization is 30° top half has 30% dissem py. Grey clay alt								
46	46.65	autobrecciated massive basalt 30% patches of calc and qtz 1 - 2 % dissem py	19	46	47	1	<0.005	26.1	0.23	235
46.65	47	massive basalt hem in matrix big silica patch near bottom 3 cm thick rounded								
47	47.2	big qtz and calc v 2 cm thick cuts core at 45° faulted. Flesh coloured calc along fault displaced and moved it								
47.2	48.48	massive basalt scattered vesicles								
48.48	48.67	vessicular baalt irreg patches of massive py. 0.5 cm irreg ca 80°	20	48	49	1	<0.005	35.2	0.25	230

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
48.67	49.1	vesicular basalt. Calc with rims of py. Autobrecciated silica alt patches. Some vesicles are up to 1 cm.								
49.1	49.25	1 cm shear zone with calc ca 50°								
49.25	49.79	vessicular basalt. At 49.54 m 3.5 cm calc and qtz veining cuts at ca 80°								
49.79	50.69	calc rich basalt pumice alt. scoria area. Patches of hem especially near top. Vesicles are stretched out.								
50.69	51.32	autobrecciated vesicular basalt. Patches of silica and calc	21	50.5	51.5	1	<0.005	18.3	0.11	156
51.32	51.6	sheared massive basalt ca 45°								
51.6	52	shear zone. Core grounds vesicular basalt hairline vlts of calc or clay ca 50°. Vesicles have chl and calc qtz								
52	52.25	same. Hairline vlts								
52.25	52.66	masive basalt. Qtz and calc veining. Autobrecciated. No sulphides								
52.66	53.4	same. Vesicular basalt. 1 patch of 2 cm qtz with coliform texture, within qtz is some calc. trends ca 20°								
53.4	53.72	massive basalt v f gr vesicles 1 - 2 mm. at base sugary texture qtz vein ca 35°. in middle 2 cm autobrecciated zone hem stained ca 30° patches of calc possible fine py								
53.72	54.2	massive basalt. Colour banding ca 70° hem banding calc vlts 2 mm ca 2° cut older qtz veining ca 65° fract every 20 - 25 cm running ca 70° good slickensides chl vesicles filled with qtz calc and chl								
54.2	55.59	porph basalt fine gr. Sharp lower contact highly vesicular. Contact is ca 20° py vlts. Irreg contact ca 42° IOD as bedding								
55.59	55.71	vesicles are bigger at top. 1 mm and at bottom 0.5 mm. top has dissem py 0.5%	22	55.5	56.5	1	<0.005	33	0.3	249
55.71	56	amyg basalt. Mottled texture due to clay alt. blebs of py 1 cm by 0.5 cm irreg								
56	56.31	same. More chl in vesicles. Some are stretched. Clay alt. trace py								
56.31	57	scoraceous basalt highly alt. top part 10 - 15% dissem py. Buff grey clay alt silica alt. bottom two thirds has hem staining and irreg patches of calc some 1 cm sized, dissem py through whole unit. Contact is sharp ca 50°	23	56.5	57.5	1	0.02	34.5	0.59	185

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
57	58.29	vessicular basalt. Large 1 cm vesicles in middle calc vein chl on margins ca 25°								
58.29	58.9	mafic tuff some hem staining dissem py last 2 cm has 2 cm by 3 cm patch of 50% py. Glass shards. Very angular phenocrysts of feldspar 1 - 2 mm	24	58.2	59.2	1	<0.005	25.5	0.15	210
58.9	59.6	scoraceous basalt. In middle big patches of irreg calc up to 3 cm by 4 cm patches of sulphide 1 - 2 mm size. < 1% qtz in with calc filled patches. Clay alt and hem hem staining bottom 10 cm								
59.6	59.87	same. Heavy py 50% coarse py in qtz vein ca 70° 0.5 cm	26	59.2	60.2	1	<0.005	31.7	0.14	227
59.87	62	basalt vesicles qtz and calc filled top part has patches of calc 2.5 by 3 cm minor autobrecciation with grey silica and trace py ca 45°								
62	64.1	massive basalt some scattered vesicles up to 0.5 cm. veins in middle ca 45° veins of qtz and calc not much sulphide								
64.1	64.54	vessicular basalt 1 - 2 mm vesicles bottom has brownish grey clay alt	27	64.1	65.1	1	<0.005	24.6	0.02	194
64.54	64.86	autobrecciated basalt tuffaceous? Grey silica alt. patches of calcite hem brown patches. Trace py								
64.86	65.1	highly coloured tan coloured silicified zone with patches of pumice. Replaced with silica and clay very fine sulphides 20% some silica patches have dk chl								
65.1	65.66	autobrecciated massive basalt hematized irreg patches of calc. brownish clay alt. fract ca 55° good slickensides	28	65.1	66.1	1	<0.005	20.1	0.01	210
65.66	65.85	same. Mottled light and dark brown. Clay alt. patches of 2 cm by 1 cm of pumice with calc filled vesicles								
65.85	67	massive basalt. Few patches of magnetite filled centers. One 2 by 0.25 cm feld phenocryst. 1 cm qtz and calc vein ca 45° fract ca 40° good slickensides								
67	68.53	massive basalt v f gr								
68.53	68.85	same. A lot of hem staining pervasive	29	68.48	69.48	1	<0.005	55.7	0.27	492
68.85	75.55	massive basalt v f gr hem staining along fract autobrecciation with hairline chlorite. At 71.9 m 1 cm shear zone with qtz and hem ca 70°								
75.55	76	same. Fract subparallel to core contains py, possible arsenopyrite calc vein 0.5 cm with py parallel to it. Core is highly broken up	30	75	76	1	<0.005	23.2	0.1	166

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
76	76.9	same								
76.9	80.48	massive basalt. Minor fract hem staining ca 20° qtz and calc vlts								
80.48	83.1	tuff. Top 30 cm dark grey red hematized pumice fragments 1 by 0.5 cm well foliated ca 65° glass shards light grey f gr tuff. Frags in matrix of hem	31	82	83	1	<0.005	26	0.1	168
83.1	83.26	scoraceous basalt darker red. 1 - 2% dissem py patches of light grey silica alt	32	83	84	1	<0.005	42.6	0.21	171
83.26	84.1	tuff highly alt light grey clay alt dissem py 20% flattened pumice frags. Patches of dk chl near base								
84.1	85	vessicular basalt. Vessicles size chl filled 1 - 2 mm 10% calc and qtz filled vesicles up to 0.5 cm fine py in vesicles especially in chl filled ones. At 84.41 m patch of qtz 15% dissem py. Patch of silica 3 cm by 3 cm. near bottom chl vesicles are stretched out parallel to foliation. pale bluish grey chalcedony	33	84	85	1	<0.005	32.1	0.11	253
85	85.8	same								
85.8	86.8	vessicular basalt banded agate filled vesicles 10%								
86.8	87.1	porph basalt. Phenocrysts up to 3 mm cut by qtz veins 0.5 cm ca 25° beautiful rims of py along margins								
87.1	89.1	massive porph basalt fract every 20 cm ca 40°, 60° kaolinite along fract trace py								
89.1	89.29	same	34	89	90	1	<0.005	31.9	0.17	438
89.29	90	same. Stockwork of qtz calc fine hairline py vlts differet style of mineralization								
90	90.5	qtz and calc vlts 1.5 cm fine py on margins. Fract ca 15° sulphide along them few hairline chl vlts cutting core at 45° with py along margins								
90.5	90.86	same								
90.86	91.4	scoraceous basalt buff to grey silica alt bottom half is hematized. Fine py. 10% dissem py	35	91	92	1	<0.005	34.6	0.07	183
91.4	91.77	amyg basalt. Top has stretched out chlorite vesicles. Rims of py reddish grey colour								
91.77	92	amyg basalt stockwork of py around amygdules. Rimmed with py								
92	92.17	amyg basalt calc well rounded vesicles 0.5 cm rimmed with chl calc in middle	36	92	93	1	<0.005	46.4	0.04	228
92.17	92.22	3 cm qtz vein breccia filling qtz and calc fine py ca 70°								

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
92.22	92.74	same								
92.74	92.8	calc qtz filled breccia zone py on margins breccia zone is 3 - 4								
92.8	93.17	amylg basalt								
93.17	93.49	same. Dissem py 10 - 15% pumice frags	37	93	94	1	<0.005	41.5	0.12	225
93.49	93.69	same								
93.69	93.92	same. 2 zones of dissem py 5% abund chloritic filled vesicles								
93.92	94.42	vessicular basalt. Vesicles up to 1 cm stylolites calc filled	38	94	95	1	<0.005	40.4	0.16	301
94.42	95	core grounds. Scoraceous basalt clay alt fine py 10 - 15%								
95	95.33	same. 2 zones of 3 cm each of brecciated qtz vein 20% dissem py ca 65°	39	95	96	1	<0.005	41.9	0.2	331
95.33	95.8	amylg basalt 1 - 2 patches of massive py. 2 cm by 0.5 cm								
95.8	96.17	massive basalt. Some dissem py along fract. At EOI patch of 2 cm by 3 cm of py 15% py and qtz vein 0.5 cm ca 25°								
96.17	97.36	massive basalt 2 cm heavy py zone 30% at 97.26 m ca 60°								
97.36	97.44	3.5 cm qtz vein with abund py on margins ca 35°	40	97	98	1	<0.005	39.9	0.15	331
97.44	99.3	massive basalt may have fine chl								
99.3	99.36	qtz vein 1 cm								
99.36	99.91	massive basalt								
99.91	100.3	same								
100.3	100.43	same sericite alt kaolinite. Few vlts of qtz with py along selvages ca 45° 0.5 em each								
100.43	101	massive dark grey basalt. Very fine specks of clay alt. fracta ca 48° last 10 cm core grounds fault gouge. Clay alt								
101	101.17	silicified alt zone. Alt basalt light grey silica alt clay alt dissem sulphide 20% fine arsenopyrite? Sulphides are very fine silvery colour. Has tested positive for gold using XRF. Bottom part is sheared ca 80° tuffaceous	41	101	102	1	<0.005	53.5	0.62	367
101.17	101.78	highly sheared felsic volcanic. Dk chl. qtz veins 1.5 cm within shear. Ca 40° soft clay fine py in shear <1%								

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
101.78	101.82	fault gouge. Clay alt fine py in fault gouge. Soft kaolinite. One speck of molybdenite								
101.82	102	shear zone								
102	102.65	core loss								
102.65	102.88	highly broken up core. Silicified felsic volcanic. Flesh coloured rhyolite massive. Silica sulphide alt very fine sulphide <0.5% colour banding ca 55°								
102.88	104	same. Flesh coloured silicified volcanic rhyolite. Kaolinite along fract ca 15° silica alt. very fine sulphides. Specks of needle like arsenopyrite. Spherulitic textures. Last 10 cm has small patches of calcite and kaolinite fract ca 25° molybdenite on fract. trace galena at 103.9 m 0.25 cm sulphide rich veining or shear ca 65° mixture of py and arseno. positive for high silver. ca of shear is 70°	42	103	104	1	0.011	12.3	0.8	422
104	104.3	same. Dissem sulphides (py, possible arseno, trace chalcopryrite) silicified patches of kaolinite. Vlt ca 45° 2 mm. at bottom fract ca 85° clay and fine py along it	43	104	105	1	0.011	8.7	0.69	147
104.3	104.51	sheared rhyolite tuff. 2 - 3% dissem sulphides. Clay alt. shearing ca 70°. Chl. Interval is soft								
104.51	105.2	same. Might be rhyolitic tuff? Heavy silica alt. some silica vlt ca 45°. Coliform texture. Calc in middle. Very fine sulphides. 0.5% small vugs 2 mm of kaolinite								
105.2	105.52	rhyolitic tuff? Highly silicified stockwork of vfgr white qtz stockwork ca 15° patches of kaolinite. Fine sulphides. Bottom of interval 0.5 cm shear zone ca 70° 2% fine py	44	105	106	1	0.011	7.5	0.59	109
105.52	106.16	originally flow banded rhyolite? Possible colour banding. Foliation ca 65° feldspar crystals average 1 - 2 mm. somewhat rounded. Fine sulphides 0.5% patchy flesh coloured silica and kaolinite ca 50° IOD of foliation trace moly								
106.16	106.66	same. Not as well banded. Patches of agate 1.5 cm by 3 cm. chevron folding of agate. At EOI irreg patches of blue grey chert and white chert. Patches 2 - 3 cm	45	106	107	1	0.01	7.5	0.68	111

106.66	107	flow banded rhyolite ca 65°. 5 cm silicified zone at EOI ca 60° crossing bedding. 2 types of silica. Light grey silica 0.5 cm cherty with fine bluish grey sulphide may be molybdenite. White chert is second silica. Some kaolinite within white chert irreg fractures ca 15° with kaolinite along it								
107	107.48	flow banded rhyolite. Patches of 1 cm of silica alt with some kaolinite and fine sulphides spherulites 1 - 2 mm	46	107	108	1	0.009	5.3	0.36	151
107.48	108.1	same. Irreg patches of stockwork silica alt. patches 1 - 2 mm irreg. vlt 1% sulphides. Definite arsenopyrite very fine. Trace cp								
108.1	108.9	same. Stockwork silica alt 1% fine sulphides. Small kaolinite vlt ca 60°	47	108	109	1	0.024	7	0.91	256
108.9	109.31	spherulitic rhyolite siliceous. Spherulite 1 - 2 mm. grey silica alt. stockwork of qtz and kaolinite. Hairline vlt ca 15° irreg								
109.31	109.5	flow banded rhyolite. Ca 45° fine sulphides throughout, siliceous. Bottom 10 cm autobrecciated and white cherty qtz in matrix ca 5° few specks of molybdenite	48	109	110	1	0.016	6.7	0.86	278
109.5	110	spherulitic rhyolite. Patches of 10 cm of grey and white silica autobrecciated ca 90° py throughout								
110	110.9	spherulitic rhyolite. Highly silicified. Smaller patches of grey and flesh coloured carbonate	49	110	111	1	0.006	5.6	0.27	195
110.9	111.26	silicified rhyolitic tuff. Fine sulphides more concentrated in 0.25 cm patches. Fine sulphides along foliation ca 50°								
111.26	111.71	spherulitic rhyolite up to 3 mm size odd alt pattern ca 50° opposite foliation	51	111	112	1	0.02	5.9	0.53	96
111.71	112.31	rhyolite tuff. Highly siliceous. Specks of azurite or molybdenite								
112.31	113	spherulitic rhyolite irreg grey silica alt molybdenite in with grey silica alt. some minor kaolinite vugs 2 mm size. Fine sulphides throughout	52	112	113	1	0.009	5.1	0.3	35
113	113.69	rhyolitic tuff. Some 2 cm frags. Highly silicified. Silica alt throughout. Fine sulphides along fract. Arsenopyrite?	53	113	114	1	0.008	4.7	0.27	28
113.69	114	same. Last 15 cm autobrecciated completely filled with light grey silica. Some kaolinite vugs. Steel grey sulphide in kaolinite vug (argentite)								
114	115.51	spherulitic flow banded rhyolite. Qtz and silica alt. patches ca 50° opposite foliation. Fine sulphides	54	114	115	1	<0.005	4.1	0.19	38

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
115.51	116	same. Patches of 15 cm of grey fine grain silica alt. <u>autobrecciated fine sulphides throughout</u>	55	115	116	1	0.007	4.4	0.15	80
116	117	same. Large 15 cm patches of med gy silica alt.	56	116	117	1	0.01	5.4	0.22	195
117	117.63	autobrecciated rhyolite. V f gr silca matrix fine sulphides in it. Autobrecciated zone ca 60° opposite foliation. Arsenopyrite. <u>Some moly?</u>	57	117	118	1	<0.005	4.3	0.16	268
117.63	117.86	flow banded rhyolite highly silicified ca 50°? Foliation								
117.86	118.65	spherulitic rhyolite. Has 30% patches of silica alt/ grey and white silica and some kaolinite. Stockwork patches. Weaker <u>dissem sulphides</u>	58	118	119	1	<0.005	5.2	<0.01	393
118.65	118.85	same								
118.85	119	clay alt zone brownish grey 10% very fine sulphides. Unknown <u>clay mineral vlt's of kaolinite ca 75° 2 - 3 mm</u>								
119	119.17	same. Soft. Clay alt. bottom 5 cm has mottled clay patches 2 - 3 mm								
119.17	119.61	spherulitic rhyolite heavy silicified zone. 2 cm brownish grey clay alt fine py ca 45° cutting across unit. Clay alt within it. Should be thin sectioned. Trace hem	59	119	120	1	0.02	5.8	0.28	301
119.61	120.1	spherulitic rhyolite. Some sulphides dk gy. Arsenopyrite rich. <u>Patches of dk chl and py 3 - 2 mm</u>								
120.1	121.26	spherulitic rhyolite patches of irreg qtz and kaolinite. Patches of vf sulphides py and arsenopyrite	60	120	121	1	0.021	5.7	0.29	313
121.26	121.54	same. Grey silica alt stockwork. Large patches of kaolinite. <u>Patches 1 cm by 2 cm</u>	61	121	122	1	0.011	4.7	0.1	251
121.54	124.76	spherulitic rhyolite. Silicified patches of kaolinite 2% silica alt fine sulphides	62	122	123	1	0.013	5.5	0.06	171
			63	123	124	1	0.014	5.7	0.08	89
			64	124	125	1	0.011	7.6	0.03	165
124.76	124.9	autobrecciated area. Mostly grey silica alt. minor sulphides.								
124.9	126.1	spherulitic rhyolite. Fine sulphides. Silicified. Small vugs of kaolinite 2 mm - 5 mm. kaolinite and py vlt's ca 5° hairline	65	125	126	1	0.008	8.9	<0.01	106
126.1	128.2	same. Weak mineralization. Same style. At EOI 1 cm arseno veining hairline irreg ca 45° calc along fract ca 5° open vugs with fine needles of barite?	66	126	127	1	0.009	6.6	<0.01	211
			67	127	128	1	0.014	5.3	0.08	134
128.2	129.59	same. Fine sulphides. Not as much kaolinite alt. fairly silicified.	68	128	129	1	0.013	5.5	0.01	155

129.59	129.67	orange stained shear zone. Some moly along it ca 80° silica veining 1 cm	69	129	130	1	0.011	4.9	0.02	64
129.67	129.9	flow banded rhyolite. Small fold. Amplitude 10 cm. fine py. Spherulitic								
129.9	130.36	spherulitic rhyolite. 4 mm - 1 cm spherulites. Foliation ca 50° fine silica. Some bluish trace sulphides	70	130	131	1	0.012	5.9	0.05	54
130.36	130.53	shearing autobrecciated. Rhyolitic tuff. Frags are stretched out. Shearing is ca 40°								
130.53	133	silicified felsic volcanic. May be flow or tuff. Bottom 10 cm has 2 cm by 2 cm frags fine py in tuff. Cut by secondary silica and clay alt. patches of 0.5 cm of grey sulphide arsenopyrite. Fgr well mineralized	71	131	132	1	0.011	7.1	<0.01	160
			72	132	133	1	0.009	5.1	<0.01	62
133	135.5	same. Heavily silica rich zone. Fine py. Hardly any kaolinite. Cut by fract 10 - 15° ca with fine py along it and kaolinite. Dk chl.	73	133	134	1	0.011	5.5	0.02	234
			74	134	135	1	0.017	5.8	<0.01	256
135.5	137.1	rhyolitic tuff? Heavy silica alt stockwork. 1% fine sulphides. Autobrecciated at EOI shearing ca 50° soft clay and chl	76	135	136	1	0.014	6.9	0.04	33
			77	136	137	1	<0.005	6.6	<0.01	101
137.1	137.23	silica alt zone. Med gy patches of brownish grey clay in middle. Ca 80° not much sulphide	78	137	138	1	0.02	6.4	<0.01	408
137.23	137.71	well foliated flow banded rhyolite? Spherulitic. Foliation ca 40° thin section required fine sulphide								
137.71	137.84	autobrecciated zone. Very siliceous patches of tan coloured chl. Zone of yellow grey clay fault breccia expanding clays?								
137.84	138	spherulitic rhyolite med grey colour sulphides not as strong								
138	138.19	same. Orange limonitic stained. Cut by fine sulphides. Somewhat sheared ca 85° patch of qtz and kaolinite 2 cm	79	138	139	1	0.009	6.2	<0.01	383
138.19	138.35	flow banded rhyolite. Fine py. Flow banding ca 60° colour banding with fine py								
138.35	138.51	spherulitic flow banded rhyolite. Foliation ca 78° siliceous trace py								
138.51	139	spherulitic rhyolite. Spherulites up to 1 cm size. Abund sulphides. Patches of clay alt yellow grey								
139	139.3	flow banded rhyolite ca 30° cut by silica vein in turn brecciated ca 30° has fine sulphides. Some kaolinite heavy sulphide along margins arsenopyrite	80	139	140	1	0.011	5.8	<0.01	427
139.3	139.43	clay alt fault zone								

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
139.43	139.52	same								
139.52	139.64	same yellow grey clay alt around shear zone ca 35° fine py within it								
139.64	140	alternating silca and clay alt. fine py								
140	140.52	same. Zone of intense silica alt. fine py. Bottom 2 cm dk grey	81	140	141	1	0.005	5.7	<0.01	311
140.52	141.35	same. Irreg chl hairline vlts ca 70° fine sulphides	82	141	142	1	<0.005	4.9	<0.01	281
141.35	141.42	soft fault gouge. Expanding clays sandy ca 80° kaolin major fault zone								
141.42	142.19	flow banded rhyolite black and buff coloured lam. Chl. Foliation ca 70° alternating chl and silica								
142.19	142.28	fault zone top 5 cm has silica dk grey siliceous vein. Bottom	83	142	143	1	<0.005	4.4	<0.01	190
142.28	145	flow banded sphereolitic rhyolite alternating veins of chl. Foliation ca 70° fine disseminated sulphides. Silvery py	84	143	144	1	0.014	4.8	<0.01	162
			85	144	145	1	0.007	6	<0.01	166
145	145.72	highly silicified rhyolitic tuff. Frags are 1.5 cm. fine silica cementing frags with fine py. Few frags serpentized.								
			86	145	146	1	<0.005	4.4	<0.01	216
145.72	145.84	flow banded rhyolite. 90% altered to yellow green serpentine. Green clay could be mylonite zone?								
145.84	149.32	c gr felsic tuff. Patches of pumice frags 1 cm by 2 cm. large rhyolite fragments 4 cm by 4 cm intensely silicified. Fine py	87	146	147	1	<0.005	4.2	<0.01	172
			88	147	148	1	<0.005	4.9	<0.01	178
			89	148	149	1	0.005	4.2	<0.01	142
149.32	149.59	yellow orange coloured flow banded rhyolite frag	90	149	150	1	<0.005	3.1	<0.01	188
149.59	150.2	c gr highly silicified felsic tuff. Very poorly sorted frags. Larger clasts are 4 cm square. Explosive tuff. Greenish grey								
150.2	151	vcgr felsic tuff autobrecciated. Some patches of silica and yellowish grey clay minor py	91	150	151	1	<0.005	2.8	<0.01	182
151	151.52	rhyolite silicified. Trace fine py. Stockwork of qtz and chl								
151.52	151.64	autobrecciated zone cemented by qtz brownish colour. Minor clay alt								
151.64	151.8	highly silicified zone. 1 cm chl along shearing ca 60°								
151.8	152	spherulitic rhyolite trace sulphide brownish py orange staining								
152	152.33	felsic tuff								
152.33	152.41	silica veining vfgr yellowish green ca 50°								

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
152.41	152.47	area of soft chl								
152.47	152.61	sphereulitic rhyolite. Trace py								
152.61	152.7	dk gy silicified rhyolite. Kaolinite. Bottom 2 cm sheared ca 75°								
152.7	153	c gr tuff with patches of 2 cm by 4 cm clay alt tuff dissem py								
153	153.38	c gr tuff 1 - 2 cm of sheared chloritized tuff. Shearing ca 80°. Unit is tectonized								
153.38	153.95	massive rhyolite. In middle 3 - 4 cm qtz vein irreg contact ca 85° cut by calc vlt ca 50° <0.25 cm brownish orange colour. Qtz vein has coliform texture								
153.95	154	silicified porph basaltic tuff								
154	154.3	dk gy mafic tuff. Foliation ca 60° chl. Hardly any sulphides								
154.3	154.8	mafic tuff. Hem staining. Some frags are up to 1.5 cm average 2 mm. some calc filled frags in matrix. Patches of hem								
154.8	155.1	top of mafic flow collapsed pumice frags. Stretched out vesicles <1 mm. hem stained								
155.1	155.73	amyg basalt. Small vesicles scoria. Near top of interval 1.5 cm of qtz and calc. some light grey chalcedony in small veins 1 cm size								
155.73	156.33	same. 20% vesicles calc filled								
156.33	156.63	massive brownish basalt hem stained								
156.63	157.2	vesicular basalt 5% vesicles half are chloritized 1 - 2 vlt of silica alt over 0.5 cm. vesicles have net like texture of caloc and chl								
157.2	158.05	massive basalt brownish colour well hematized								
158.05	158.65	highly sheared mafic tuff. Very well hematized. Qtz and calc vlt. Qtz veins are also sheared and displaced. Shear direction is ca 30°								
158.65	158.84	same								
158.84	159.23	fault zone. Fault gouge soft gy clay chl clac frags caught up								
159.23	159.51	basalt sheared up qtz and carbonate zone. Original veins ca 20° displaced by small faults ca 70° IOD								
159.51	160	massive basalt red hematized. One 2 by 3 cm patch of silica. Some calc								

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
160	160.73	massive red basalt v f gr								
160.73	160.88	mafic tuff magnetite. Odd patches of silica and calc sheared ca 50°								
160.88	162.46	brick red mafic tuff. Pumice fragments v f gr stockwork of qtz and calc vlt hematized foliation ca 50°								
162.46	162.88	top of amyg baslt. Dk gy to black. Chl and clay alt. top 5 cm								
162.88	163.05	same								
163.05	163.46	interbedded tuffs and vossicular basalt. Magnetite and qtz and some calc patches 1 - 2 cm by 4 cm chl alt								
163.46	163.72	same. More hematized								
163.72	163.84	zone of heavy chl alt. core grounds. Small vossicles scoraceous								
163.84	164	massive basalt								
164	164.3	vossicular basalt hematized light gy clay alt. vossicles are quite large up to 1.5 cm								
164.3	164.67	scoraceous basalt. Bottom 10 cm is exceptionally chloritized with expanding clay								
164.67	165.05	massive basalt reddish grey								
165.05	165.42	amyg scoraceous basalt calc filled vossicles hematized. Bottom part of unit is expanding clay								
165.42	166.9	massive basalt. Stockwork 2 mm size qtz and calc. vlt ca 40°, 50° IOD								
166.9	167.3	mafic tuff brick red. Kaolinized frags. Different sericite clay alt 5%								
167.3	167.34	expanding clay								
167.34	169.36	brick red f gr silt sized tuff massive. Few coarse sand sized tuffs in it. All hematized								
169.36	169.6	same. Waterlain tuff fragments are rounded coarse sand to conglomeratic tuff. Some frags are up to 0.25 cm sized								
169.6	170.14	very poorly sorted f gr mud sized tuff coarse sand sized frags brick red								
170.14	170.74	graded tuff unit bottom 20 cm is conglomeratic tuff calcite filled fragments								
170.74	171.65	brick red mud sized tuff poorly sorted								
171.65	171.7	2 cm zone of fault gouge exceptionally hematized clay alt might be ancient soil horizon								

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
171.7	173	poorly sorted brick red tuff								
173	173.4	graded tuff. Bottom two thirds coarse grain. Conglomeratic up to 2 cm. zone is light greenish grey. Upper parts are brick red								
173.4	173.9	porph brick red tuff muddy								
173.9	174.5	brick red massive muddy tuff or basaltic flow. Top 10 cm is mottled tuffaceous								
174.5	175.32	vessicular basalt scoraceous basalt. Vessicles 50% bottom 10 cm shear zone over 5 cm ca 60° within basalt clay alt and chl top 30 cm is clay altered med gy clay due to weathering?								
175.32	176	amyg basalt top part 0.5 mm bottom part 1 cm filled with calc and qtz								
176	176.7	massive basalt. Patches of vesicles								
176.7	176.9	vessicular basalt 50% vesicles top of flow								
176.9	177.2	vessicular basalt. Vessicles are elongated 15%								
177.2	178	massive basalt. Brownish grey, few patches of vesicles few irreg vltz of qtz 2 mm ca 85°								
178	178.3	vessicular basalt scoraceous patches of silica and calc alt. bottom part sheared ca 65° over 5 cm								
178.3	178.5	massive basalt								
178.5	178.52	tuffaceous basalt shearing clay alt very soft expanding clay ca 65°								
178.52	178.86	vessicular basalt								
178.86	179.66	massive basalt stockwork of white qtz and clay ca 55° middle has expanding clays around fract ca 30° hem through it								
179.66	179.96	hematized brick red weathered basalt clay alt								
179.96	180.9	massive basalt 30% 1 mm clay alt kaolinized								
180.9	181.1	brick red soft massive basalt clay alt expanding type								
181.1	182	amyg basalt top 20 cm scoraceous clay alt								
182	182.39	massive basalt clay alt								
182.39	182.9	vessicular basalt big patches of qtz and calc alt. up to 3 cm thick								
182.9	183.9	massive basalt. Small calc frags phenocrysts of feld 50% trace py	94	183	184	1	<0.005	43.2	0.08	106
183.9	184.1	vessicular basalt red colour massive								

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
184.1	185	massive basalt red qtz vlt								
185	185.3	vessicular basalt scoraceous								
185.3	187	massive brick red basalt. Bottom has patches of silica alt. grey silica 0.5 cm whole unit is hematized								
187	187.32	amyg basalt 50-60% bottom part contact 90° large patches of vesicles up to 2 cm - 3 cm. whole unit is silicified								
187.32	187.42	brick red tuff mud								
187.42	187.71	brick red tuff mafic								
187.71	188.1	patches of red weathered basalt patches of calc 30% irreg patches average 7 - 8 mm								
188.1	197	mafic tuff hematized clay alt expanding type. Patches of calc and kaolinite. Good foliation. Patches of calc 25%								
		EOH 197.0m								

DIAMOND DRILL LOG.					SL-11-2					
OWNER	SUGARLOAF RESOURCES INC	LOCATION	UTM Zone 20	DEPTH	191m	START	11/10/2011			
PROPERTY	Sugar Loaf	EASTING	471200	AZ.	188	FINISH	11/12/2011			
LOCATION	Colchester County	NORTHING	5050827	DIP	60	DRILLED BY	J & R Drilling Ltd			
HOLE IDENTITY	SL-11-2	ELEVATION	195m	CORE SIZE	NQ	LOGGED BY	Lyndon Jenson			
		LICENCE	9724			LOG DATE	11/12/2011			
		NTS SHEET	11E/11B							
		Samples and assay results; all element values in ppm unless otherwise specified								
From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
0	3.52	overburden								
3.52	7.85	massive basalt brownish grey. Some rare amyg up to 1.5 cm filled with qtz, calc and chl rims. Some small ones are chl filled. Some have agate cut by few calc veins 2 mm ca 30°. Trace sulphides. Possible chalcopyrite. Not very fractured. The fract that do occur are ca 40°								
7.85	8.2	amyg basalt. Few patches of 5cm containing disseminated py. Fairly c gr. Up to 1% py -has few specks of arsenopyrite	95	7.9	8.9	1	0.016	25.1	0.3	183
8.2	8.36	same. Few irreg vlts of dk silica ca 45° with dissem py along margin. Py is massive over 5 mm. trace arseno. Patches of 8 cm of heavy amyg. Patches have upwards of 30% dissem py								
8.36	8.69	same. A lot of hem vfgr hematized silica brownish colour. Fract of hematized silica. Trace sericite								
8.69	8.74	same. Fault zone ca 70° white qtz and calc. slickensides and core grounds								
8.74	8.94	same								
8.94	11	amyg basalt. Highly fract. Fract are 10 cm irreg ca 50° rare patches of qtz and sericite. Magnetite. Ca 30°								
11	11.68	same. Small dk chl amyg. Some fract with sericite alt								
11.68	12.1	amyg baalt. Amygdules are 2 - 4 mm. orange limonite stained patches around amyg. Possible siderite								
12.1	12.36	same. Fault 2 cm fault gouge ca 55° 0.5 cm qtz and calc vein slightly folded ca 75°. No sulphides								
12.36	13	amyg basalt	96	12.5	13.5	1	<0.005	20.5	0.11	154

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
13	13.09	fault gouge silica alt.								
13.09	13.25	large qtz vein 3 cm thick with calc. ca 60° frags of basalt on margins 0.5 cm up to 30% fine sulphides. Few patches of dk chl.								
13.25	14.16	massive porph basalt. Has 1% dk chl in 2 mm vugs								
14.16	14.45	amyg basalt. 2 cm breccia zone ca 45° filled with qtz and calc								
14.45	14.61	mafic tuff coarse sand sized. Some sericite alt								
14.61	14.75	same. Last 5 cm has bluish grey mottling silica alt 1% coarse py								
14.75	15.76	massive basalt. Has large patches of silica alt with calc and heavy py. Py is 30% in patches up to 3 cm. irreg trace arseno	97	14.7	15.7	1	0.02	26.5	0.23	168
15.76	16.06	amyg basalt								
16.06	16.26	same. Scoraceous 50% amyg silica and calc filled								
16.26	16.5	same								
16.5	17	v f gr porph basalt. 1% chl filled amyg stretched ca 45° at 17 m 1 cm qtz and calc vein ca 45°. No sulphides								
17	17.63	same								
17.63	17.95	same. 1 cm calc vein irreg ca 25°								
17.95	23.79	massive porph basalt/ fairly highly fract up 5 to 20 cm. fract ca 45° few chl and calc and hem vlt								
23.79	24.1	same. Small zone of hairline vlt of calc ca 20°								
24.1	27.5	same								
27.5	29	massive porph basalt								
29	30.1	amyg basalt. Firly soft clay alt chl. 4 patches of 1 - 2 cm of calc and qtz. Small amount of py in upper and lower one. Lower one has qtz and calc veining with py 0.5 cm ca 25° arseno? Bottom part is autobrecciated								
30.1	30.27	sheared basalt clay alt fairly soft foliation stretched out feld phenocryst ca 45°								
30.27	31	mafic tuff? Clay alt hematized. Angular phenocrysts of feld stretched out ca 55° could also be a sheared amyg basalt. Feldspar phenocrysts 1 - 2 mm								
31	31.23	massive basalt with a few amygdules up to .5c - chl and clay filled bluish grey. One vlt of py ca 60	98	31	32	1	0.013	26.2	0.24	186
31.23	31.49	sheared massive basalt has fine chl amyg stretched								

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
31.49	31.59	amyg basalt with larger chl filled amyg								
31.59	31.73	buff coloured basalt with heavy clay alt and dissem py up to 15%. 1% dissem arseno. Bottom has coarse sulphides over 2 cm zone mostly py almost massive								
31.73	31.86	massive basalt								
31.86	32.43	amyg basalt	99	32	33	1	<0.005	33.3	0.17	177
32.43	32.72	scoraceous basalt. Has patches of hematized f gr silica. Patches of py adjacent to brown silica 1%								
32.72	32.86	same. Patches of sericite within brown silica								
32.86	33.49	green gy highly clay alt amyg basalt expanding clay								
33.49	33.92	amyg basalt								
33.92	34.61	shear zone heavily veined. Shearing ca 15° and 20°. Small 3 mm calc and qtz veins. Mostly qtz. Minor amounts of py along shearing	101	34.4	35.4	1	0.018	468	0.68	292
34.61	34.8	amyg basalt. 30% amyg. Calc and chl filled some silica filling. Matrix is highly hematized. 1 cm qtz and calc vein ca 35° with 0.5 cm selvage of fine py almost massive highly sheared								
34.8	35.36	massive basalt cut by qtz vein 0.5 cm very irreg ca 10° massive sulphides on margin 1 cm on either side all py								
35.36	36.38	brownish grey massive basalt 1% amyg chl qtz calc filled. Very odd colour banding. 1 mm ca 40°-50° slight folds in colour banding. Get polished section. Bands of hem and sericite?	102	36	37	1	0.005	76	0.46	197
36.38	36.65	massive basalt sericite alt stockwork of small hairline vls of qtz and calc.								
36.65	38	scoraceous basalt. Amyg are <0.5 mm filled with chl. Whole unit is buff yellowish brown 80-90% clay alt. not kaolinite. Top 5 cm has grey silica with fine py trace arseno. Middle of unit has shearing over 5 cm ca 70° fine sulphides paralleling it 1-2% sulphides ultra fine over whole interval	103	37	38	1	<0.005	72.2	0.6	156
38	38.1	bluish gray massive basalt, fine sulphides. Clat alt.	104	38	39	1	<0.005	38.5	0.2	233
38.1	38.29	massive basalt. Hem staining								
38.29	38.39	bluish grey massive mfc tuff with fine py. Clay alt sericite								
38.39	38.59	same. Hem and bottom 2 cm limonite staining. Fine sulphides								

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
38.59	38.94	massive basalt hem staining								
38.94	39	fault breccia filled with calc. 2 cm ca 45° calc and silica in brecciated zone. Trace sulphide kaolinite in it								
39	39.57	massive basalt. Lower half has odd colour banding. 1 mm thick alt hem and sericite?								
39.57	40	same. Colour banding brownish grey cut by chl and calc vlt 1 - 2 mm trace py ca 45°								
40	40.9	same								
40.9	41	amyg basalt 10% chl. Vessicles replaced with chl 1% coarse py. Py has small vlt of clac ca 75° with py along margins, py vlt 2 mm thick coarse py small fault ca 60° good slickensides	105	40.4	41.4	1	<0.005	63.4	0.33	279
41	41.27	scoraceous basalt. Big patches of clay alt and fine py patches are 3 cm thick. Scoraceous basalt is heavily clay alt with blue grey clay 80%								
41.27	41.43	amyg basalt sheared over 1 cm with qtz and calc. sulphides on margins ca 65°. Shear zone								
41.43	41.79	scoraceous basalt								
41.79	42	amyg basalt. Amyg are 0.5 cm size								
42	42.17	scoraceous basalt								
42.17	42.29	same								
42.29	42.43	same. Silica and hematized silica								
42.43	42.66	amyg basalt larger vesicles								
42.66	42.85	massive basalt								
42.85	43.28	scoraceous basalt irreg patches of hem								
43.28	43.45	amyg basalt larger amygdules								
43.45	43.68	scoraceous basalt								
43.68	43.84	vessicular basalt larger vesicles								
43.84	44.1	same								
44.1	45	scoraceous basalt hem alt								
45	45.36	amyg basalt. Big patches of white qtz 3 cm - 4 cm. irreg. cut core at 45°. Magnetite on margins								
45.36	45.68	amyg basalt hem altered 1 cm shear zone qtz and calc along shearing ca 62°								
45.68	46.15	same								
46.15	46.28	massive basalt with chl filled amyg								

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
46.28	46.48	scoraceous basalt. Large patches of calc. some grey silica on margins								
46.48	46.58	massive basalt. Bottom 10 cm has odd colour banding. Hematized								
46.58	46.61	qtz and calc vein. Two types of qtz white and grey. Flesh coloured calc vein ca 90° broken up and injected several times. Shearing ca 30°. Calc and fine py								
46.61	47	massive basalt								
47	47.5	same. Highly broken up evry 5 cm ca 85°, 65° chl along fract hematized.								
47.5	48	massive basalt. Last 30 cm has colour banding ca 60° hem and clay alt								
48	48.34	massive basalt								
48.34	50	amyg basalt. Small fault 49.57 m over 1 cm ca 85° calc along it. Amyg are somewhat stretched out along a direction of 65° dk chl and qtz filled vessicles								
50	50.47	massive basalt								
50.47	50.84	amyg basalt								
50.84	51.85	mafic tuff frag of scoraceous basalt up to 2 cm squared. Patches of sericite and hem. Patchy alt of red and greenish grey	106	51	52	1	<0.005	32.1	0.14	211
51.85	52	mafic tuff								
52	52.22	scoraceous basalt 50% small amyg								
52.22	53.1	massive basalt. Few amyg								
53.1	53.9	massive basalt. Some small zones of vessicles irreg vlts of qtz and chl and calc cutting in middle of interval ca 45°								
53.9	54.37	amyg basalt very siliceous small patches of bluish grey silica cut by calc not much sulphides	107	54	55	1	<0.005	34.4	0.15	162
54.37	54.61	mafic tuff. Patches of chloritized frags								
54.61	55.25	same. Whole area is tectonized. Patches of grey silica parallel to foliation 2 cm wide irreg very little sulphides. Cut by stockwork of qtz and calc at right angles								
55.25	56	massive basalt rare qtz filled amyg vlts of calc and qtz 2 mm ca 85°								
56	56.62	massive basalt v f gr								

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
56.62	56.67	zone of dk gy silica and chl alt patch								
56.67	56.82	basalt								
56.82	57.33	same. Patches of clay alt. some small silica patches. Clay is med gy								
57.33	57.5	same. More silicified. Not much clay. Patches of light gy silica alt. little to no sulphides								
57.5	58	same. Clay alt	108	57.7	58.7	1	<0.005	28.3	0.15	179
58	58.6	same. Silicified blue gy qtz. Trace py in middle patches of whiter qtz 2 cm. hem staining from 58.4 - 58.6 m								
58.6	59.35	massive basalt								
59.35	59.54	same. Hairline vlts of calc ca 20° vlts spaced 2 - 3 mm apart								
59.54	60.45	same. Stockwork of qtz and calc hairline. Small faulting ca 55°								
60.45	62	massive basalt								
62	62.3	scoraceous basalt buff clay and silica alt trace fine py	109	62	63	1	<0.005	40.7	0.28	182
62.3	62.47	clay altered bluish grey								
62.47	62.59	scoraceous basalt buff coloured clay alt hem dissem py								
62.59	62.85	same. Zone of 10 cm of very buff clay alt with patches of massive sulphide. 0.5 cm by 2 cm								
62.85	64.15	amyg basalt at bottom 1 cm by 2.5 cm acicular intergrowths of white qtz and med gy								
64.15	65	same. Some amyg up to 5 cm squared. Stylolites filled with various stages of qtz								
65	66	amyg basalt vespicles 1 - 2 % up to 1 cm. agate filled bluish chalcedony. Basalt has hem								
66	67.45	massive porph basalt								
	68	same. Very hematized reddish brown								
68	68.19	same								
68.19	68.4	same. Autobrecciation ca 45° hem and calc and qtz								
68.4	69	massive basalt								
69	70.27	amyg basalt								
70.27	70.64	scoraceous basalt. Amyg are only 1 mm								
70.64	71	same. Massive hem and silica								
71	71.63	amyg basalt. Large amyg up to 0.5 cm								
71.63	72	amyg basalt. Amyg are smaller 1-2 mm. patchy								

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
56.62	56.67	zone of dk gy silica and chl alt patch								
56.67	56.82	basalt								
56.82	57.33	same. Patches of clay alt. some small silica patches. Clay is med gy								
57.33	57.5	same. More silicified. Not much clay. Patches of light gy silica alt. little to no sulphides								
57.5	58	same. Clay alt	108	57.7	58.7	1	<0.005	28.3	0.15	179
58	58.6	same. Silicified blue gy qtz. Trace py in middle patches of whiter qtz 2 cm. hem staining from 58.4 - 58.6 m								
58.6	59.35	massive basalt								
59.35	59.54	same. Hairline vlts of calc ca 20° vlts spaced 2 - 3 mm apart								
59.54	60.45	same. Stockwork of qtz and calc hairline. Small faulting ca 55°								
60.45	62	massive basalt								
62	62.3	scoraceous basalt buff clay and silica alt trace fine py	109	62	63	1	<0.005	40.7	0.28	182
62.3	62.47	clay altered bluish grey								
62.47	62.59	scoraceous basalt buff coloured clay alt hem dissem py								
62.59	62.85	same. Zone of 10 cm of very buff clay alt with patches of massive sulphide. 0.5 cm by 2 cm								
62.85	64.15	amyg basalt at bottom 1 cm by 2.5 cm acicular intergrowths of white qtz and med gy								
64.15	65	same. Some amyg up to 5 cm squared. Stylolites filled with various stages of qtz								
65	66	amyg basalt vassicles 1 - 2 % up to 1 cm. agate filled bluish chalcedony. Basalt has hem								
66	67.45	massive porph basalt								
	68	same. Very hematized reddish brown								
68	68.19	same								
68.19	68.4	same. Autobrecciation ca 45° hem and calc and qtz								
68.4	69	massive basalt								
69	70.27	amyg basalt								
70.27	70.64	scoraceous basalt. Amyg are only 1 mm								
70.64	71	same. Massive hem and silica								
71	71.63	amyg basalt. Large amyg up to 0.5 cm								
71.63	72	amyg basalt. Amyg are smaller 1-2 mm. patchy								

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
72	72.3	amyg basalt. Chl filled amyg								
72.3	73.5	massive basalt								
73.5	74	amyg basalt with patches of silica alt and sericite vlt of silica up to 0.5 cm in middle ca 65° with dissem py along it hem staining in bottom	110	73.81	74.81	1	0.009	31.7	0.28	177
74	74.01	shear zone ca 85° chl and calc								
74.01	74.23	shearing ca 85° hem qtz bluish gy silica alt along margins specks of py up to 1% over shear zone								
74.23	74.55	silicified amyg basalt brownish gy. Some silica patches up to 2 cm with 1% dissem py along margins 2 cm								
74.55	74.64	fault gouge								
74.64	74.85	mafic tuff very silicified. 1% dissem py on margin. Upper contact 0.5 cm massive sulphide py								
74.85	75.1	core grounds mostly massive basalt. Some clay alt bluish sericite alt. shearing ca 45° small 0.5 cm of clay along shearing								
75.1	76.25	amyg basalt. Stockwork of calc and silica hairline ca 65°. cut by vlt ca 50° bottom half of interval is hematized								
76.25	77.21	red amyg basalt larger 1 cm patches of calc and qtz agate white								
77.21	77.72	same. 77.26 - 77.24 m patch of med gy silica. No sulphides								
77.72	78.2	same. Five zones of large calc patches up to 2 cm by 5 cm. colloidal margin texture. Few patches of magnetite								
78.2	79.52	same								
79.52	81.43	massive basalt. Patches of pervasive hem staining irreg. broad mottled appearance few dk chl vlt hairline. Few 2 mm agate vlt ca 30°. Two small fract 10 cm apart slickensides 0.25 cm ca 75° some kaolinite qtz hem vein slightly folded								
81.43	84	same								
84	85	same. Colour banding hem massive fine gr basalt. Red and med greenish grey colour banding ca 60° few fract ca 25° with calc along it hairline and hem selvages								
85	85.4	foliated basalt chl layering								

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
85.4	85.52	massive basalt red and gy banding 0.5 cm qtz and carbonate vein along shear zone ca 75° chl along shear zone silvery sulphide specularite								
85.52	87.1	massive basalt								
87.1	87.13	shear zone. Thin calc and qtz vlts ca 75° shearing								
87.13	87.2	red hematized. 2 vessicles of agate up to 1 cm								
87.2	89	same. Hem colour banding ca 50°								
89	89.9	same								
89.9	90	autobrecciated area trend of fault 58° calcite in matrix of auto brecciated area								
90	90.5	same. Core broken up small chl along fract ca 45°								
90.5	95	massive basalt. Mixtutre of gy and red								
95	95.23	massive basalt dk gy								
95.23	95.74	mafic tuff highly sheared hem and clay throughout shearing ca 60°								
95.74	95.79	same autobrecciated								
95.79	98.2	brick red mafic tuff? V f gr pervasively hematized. Lower third has patches of hem brown and dk brown patches fairly soft. Unit may be weathered basalt. Irreg patches of chl 2 mm.								
98.2	98.44	basalt patchy hem alt weathered basalt horizon								
98.44	99.17	amyg basalt. Top half is red								
99.17	99.94	massive basalt								
99.94	100.2	amyg basalt								
100.2	100.9	porph basalt with few vessicles hematized 0.5 cm vlts of calcite ca 50° along shear zones								
100.9	105	massive basalt. Fairly broken up. Fract ca 45°, 80° IOD. Small phenocrysts of feld 1 - 2 mm by 5 mm								
105	105.43	shear zone with qtz and calc ca 10° - 15° veins have qtz and carbonate along shearing 1 - 2 cm thick. No sulphides. Hem staining along margins	111	105.36	106.36	1	<0.005	21	0.11	182
105.43	105.81	same vein continues. Patches of qtz and calc mixed								
105.81	106.1	basalt								
106.1	106.3	big vein of 20 cm thick mostly qtz and calc ca 70°. Frags of wall rock within it. No sulphides. Hem scattered								

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
106.3	111.45	massive basalt. Porphyritic at EOI 0.25 cm qtz and calc vein ca 80° hem staining along fract and chl fract are ca 35°, 85° basalt is not particularly broken up								
111.45	112.25	same								
112.25	112.46	same. Shearing hem staining								
112.46	113.1	massive basalt								
113.1	113.2	same. Small amyg clay alt								
113.2	114	massive basalt. 1% amyg calc filled mixture of qtz and calc amyg 0.5 cm - 1 cm size. Two are 3 cm size								
114	114.45	amyg basalt 15% amyg gy qtz calc filled amyg								
114.45	116	massive basalt. Fine colour banding of hem microlamination ca 60°								
116	122.3	massive basalt scattered amyg 0.5 - 1 cm. some have agale white qtz reddish hematized somewhat								
122.3	122.61	v f gr tuff massive								
122.61	122.76	dk gy amyg basalt. Coarse scattered py and clay alt filling amyg. Scratches easily. Vessicles are 2 - 3 cm size	112	122.6	123.6	1	<0.005	39.5	0.22	136
122.76	122.95	same lighter gy green. Chl filled amyg. Small amt of dissem py								
122.95	123	alt zone of silica and kaolinite over 2 cm ca 40° pale bluish gy sulphide on margin 1%								
123	123.9	med gy mafic tuff. Some 1 cm fgr tuff beds. Very poorly sorted coarse granule sand tuff frags. F gr tuff layers silt sized. Bedding foliation ca 45° bottom 20 cm is f gr tuff fairly silicified patches up to 2 cm of chl and silica. Patches are 2 cm by 3 cm size. no sulphides								
123.9	124	tuff med gy f gr								
124	124.2	mafic? Tuff med gy frags are fine ash to 0.5 cm. few rare ones up to 2 cm chloritized foliation ca 40°								
124.2	124.31	f gr tuff								
124.31	124.43	shear zone ca 35° IOD very soft clay alt mostly chl. May be kaolinite								
124.43	125	tuff unit v f gr beds 15 cm mixed with coarser beds. Rere specks of sulphides								

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
125	125.15	tuff frags of chloritized tuff. Light yellow green clay alt. may be kaolinite> very greasy. Could also be serpentine	113	125	126	1	<0.005	10.9	<0.01	159
125.15	126	v c gr tuff frag clay alt. volcanic frag 5 - 6 cm scoraceous basalt frags tuff somewhat lam ca 50°								
126	127.2	c gr tuff agglomerate almost fairly silicified bluish gy trace ultra fine sulphides								
127.2	127.47	laminated tuff f gr ca 42° foliation. Few pumice frags up to 3 cm randomly scattered	114	127	128	1	<0.005	16.1	0.07	118
127.47	127.79	v f gr tuff. Patches of pumice frags irreg								
127.79	127.91	light gy silica alt ca 45° subparallel to bedding								
127.91	128.9	highly alt tuff. Patches of silica alt. large frags of pumice 2 - 3 cm very light grey. Fine py 1% up to 128.43 m. to 128.69 m 2 -	115	128	129	1	<0.005	38.5	0.23	167
128.9	129.5	tuff. Buff to light gy clay alt. frags of scoraceous basalt perhaps pumice. 1% dissem py	116	129	130	1	<0.005	35.9	0.1	136
129.5	130.46	massive unusual unit. Perhaps f gr tuff. Chl filled <0.5 cm amyg darker gy clay no sulphides	117	130	131	1	<0.005	38.5	0.16	151
130.46	130.52	patch of silica alt ca 50° agate v f gr chalcedony cut by faults ca 50° IOD								
130.52	131	highly clay alt light gy tuff pumice frags up to 5 cm. chl alt in amyg								
131	131.14	same	118	131	132	1	<0.005	40.6	0.21	161
131.14	131.17	shearing clay alt ca 45°								
131.17	131.6	same								
131.6	132.4	same. Large patches of altered scoraceous basalt? Amyg are < 1 mm and stretched out. Silvery trace ultra fine py	119	132	133	1	<0.005	48.9	0.17	136
132.4	132.62	same kaolinite alt								
132.62	132.72	2-3cm thick quartz vein ca 35. Consists of med grey pyrite rich patches and asicular arsenopyrite growing in from host rock into the vein.								
132.72	133	massive kaolinized tuff v f gr. Large patches of pumice 1 cm by 2 cm								
133	133.2	soft clay alt								
133.2	134	silica alt tuff. More indurated bluish grey kaolinite py filling	120	133	134	1	<0.005	48	0.14	205
134	135.2	mixture of tuff and highly alt scoraceous basalt exceptionally clay alt. filled with chl amyg and py. 1% through interval	121	134	135	1	<0.005	48.2	0.11	126

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
135.2	135.5	same. Bottom 20 cm has larger amyg qtz and chl	122	135	136	1	<0.005	46.8	0.13	97
135.5	136.2	light gy scoraceous basalt clay alt amyg are 1 - 2 mm	123	136	137	1	<0.005	52.5	0.12	102
136.2	136.3	same. Patches of coarser sulphides some with unknown asicular brownish mineral argentite? Small patches 1 cm by 2 cm								
136.3	136.73	clay alt scoraceous basalt. Kaolinized white clay no sulphides	124	137	138	1	<0.005	20.9	0.1	98
136.73	137.3	same. Light gy. Small patches of 3 cm of silica alt. rest is kaolinized scoraceous basalt? Bluish gy clay alt								
137.3	138	normal tuff not as much clay alt. bottom part has larger frags 2 - 3 cm brownish tuff very poorly sorted dissem py 1 %. Bedding has laminations ca 30° fract ca 25°								
138	139	same tuff unit. Coarse granule tuff 15% 1 cm sized frags	126	138	139	1	<0.005	27.8	0.27	134
139	139.17	fault gouge. Light gy expanding clay ca of shearing 30°	127	139	140	1	<0.005	21.1	0.25	97
139.17	139.44	mylonite zone. Shearing ca 25° brownish orange qtz. Trace py								
139.44	139.74	qtz veining along shear zone silica patches 10 cm cut by faults ca 40° clay and fine py patches of 2 cm thick 5% dissem py caught up in fault zone								
139.74	140	very light grey felsic tuff? Very soft clay alt autobrecciated 1% fine arseno								
140	140.25	soft clay alt tuff. Fine sulphides	128	140	141	1	0.01	13.9	0.31	375
140.25	140.53	rhyolite porph? Sheared kaolinite clay alt. fine sulphides 1%								
140.53	140.8	same. Patches of silica alt autobrecciation 2 cm								
140.8	140.84	same. Shearing clay alt ca 45°								
140.84	141.25	orange-buff porph rhyolite. Irreg qtz and calc vein and patches ca 85°	129	141	142	1	0.01	9.5	0.33	597
141.25	141.33	same. Kaolinized expanding clay								
141.33	141.83	flow banded rhyolite? Odd banding ca 90° subtle akt ca 45° silica alt irreg vlts of agate 1 - 2 mm folded very little sulphides								
141.83	141.95	v c gr tuff large serpentized tuff frags. 4 - 5 cm thick replaced with 100% serpentine type clay								
142	142.65	same. Large frags of tuff. Highly serpentized. Some chl and qtz patches. Very bottom part has shearing ca 85° ultra fine sulphides	130	142	143	1	<0.005	7.7	0.05	506

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
142.65	145.5	spherulitic rhyolite orange-buff patches every 10 cm of qtz generally ca 65° cut by calc vltz ca 45° IOD. Fine sulphides throughout whole interval	131	143	144	1	<0.005	6.7	0.03	390
			132	144	145	1	<0.005	7.5	0.15	484
			133	145	146	1	<0.005	8.7	0.07	609
145.5	145.65	shear zone clay alt chl same rock type. Trace moly								
145.65	145.7	serpentinized same								
145.7	146	rhyolite kaolinite								
146	147	porph rhyolite. Small patches of kaolinite 1 - 2 mm size. Ultra fine sulphides	134	146	147	1	0.009	20.3	0.69	347
147	147.4	same. Autobrecciated small faults ca 15° few patches 0.5 cm of kaolinite	135	147	148	1	<0.005	514	0.53	192
147.4	148.4	flow banded porph rhyolite. Top 10 cm has tuffaceous laminations	136	148	149	1	<0.005	204	0.35	107
148.4	149	porph rhyolite stockwork of hairline qtz and calc stockwork 45°, 45° IOD sheared up. Fine sulphides throughout								
149	149.5	same. Clay alt expanding clay autobrecciated	137	149	150	1	<0.005	25.6	0.25	94
149.5	149.9	highly sheared clay alt soft kaolinite rhyolite								
149.9	150.08	fault gouge. 4 - 5 cm very soft kaolinite clay								
150.08	150.24	brick red highly silicified zone. Rhyolite. Stockwork of hairline silica vltz trace sulphides								
150.24	150.4	spherulitic basalt fault zones 2 cm of fault gouge. Ca 45° some fault gouge ca 70° IOD								
150.4	150.47	fault gouge soft clay dark grey clay fault ca 50°								
150.47	150.54	amyg basalt hematized								
150.54	150.58	fault gouge soft clay								
150.58	150.87	amyg basalt soft clay alt hem								
150.87	150.96	fault gouge dk gy clay								
150.96	151.3	scoraceous basalt. Sheared. Soft clay hematized expanding clays								
151.3	151.77	sheared amyg basalt clay alt expanding type. Shearing ca 50°. Silica nodules irreg soil development brownish buff colour 1.5 cm								
151.77	151.92	hematized								
151.92	152	massive basalt. Amyg are filled with blue grey clay looks like kaolinite. Rock is very soft								
152	152.05	same								

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
152.05	152.59	amyg basalt. Scoraceous patches of 10 cm of calc alt 80%. Some silica as well								
152.59	152.79	amyg basalt hematized								
152.79	152.94	same								
152.94	153.23	scoraceous basalt. Amyg 1 mm								
153.23	153.42	amyg basalt. Patches of silica and calc. trace py patches 1 cm size								
153.42	154.44	amyg basalt hematized red colour amyg are agate and calc filled. At EOI 2 cm calc vein along a shear zone. Irreg hem along and within it								
154.44	155.1	amyg basalt. Amyg are 1 - 2 mm matrix of basalt has sericite alt specks of feld. Hematized								
155.1	157	same. Amyg are 15% some agate white qtz sericite clay alt sand sized. Trace fine sulphides?								
157	157.88	amyg basalt. Bands of hem staining 1 cm size	138	157	158	1	<0.005	40.2	0.17	129
157.88	157.95	shearing ca 45° qtz and calc stockwork								
157.95	158.2	brick red mafic tuff hematized	139	158	159	1	<0.005	19.3	0.45	116
158.2	158.33	highly sheared ca 30°								
158.33	158.73	tuff mud sized few frags 1 cm								
158.73	160.1	tuff brownish greenish gy frags of coarse sand size 30% is 1 cm frags graded units over 25 cm. may be waterlain. Foliation ca 50°	140	159	160	1	<0.005	18.7	0.31	150
160.1	160.95	massive well sorted mafic? Tuff hematized. Near bottom 1 - 2 cm zone of coarse sand tuff foliation ca 55° near bottom pale green colour	141	160	161	1	<0.005	15.6	0.24	116
160.95	161.19	reverse graded tuff unit. Coarse granule size at bottom at top med to coarse sand tuff. Very red hematized. Bedding ca 44°								
161.19	161.34	coarse tuff muddy silt sized tuff								
161.34	161.46	brick red								
161.46	161.53	coarse sand tuff								
161.53	161.81	well lam mud and sandy tuff								
161.81	162	tuff								
162	162.54	amyg basalt red coloured top 10 cm has patches of greenish grey clay alt. nodular amyg average 2 - 3 mm up to 1 cm								

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
162.54	163.74	amyg basalt bottom 20 cm irreg stockwork of qtz and calc. trace sulphide possible arseno. 2 mm very irreg								
163.74	163.79	shear zone 1 cm calc v shearing ca 80°								
163.79	164	red amyg basalt hematized								
164	165	amyg basalt. Amyg are stretched out 0.25 cm by 2 cm qtz and carbonate								
165	168.33	amyg basalt. Amyg are very fine <0.5 mm. zone may be tuffaceous. Patches of clay alt irreg								
168.33	169	amyg basalt								
169	169.33	same. Very large amyg at bottom 3 cm by 4 cm. qtz and carbonate. Basalt is hematized								
169.33	171.54	massive basalt hematized								
171.54	171.64	shearing calc and hem ca 50°								
171.64	171.96	brick red tuff								
171.96	172.57	brick red tuff fine grain ash patches of light grey and bluish grey alt near bottom half								
172.57	172.6	same								
172.6	172.73	amyg basalt								
172.73	173	muddy tuff blue clay alt patches of hem and silica clay is med gy								
173	174	weathered top of mafic flow clay alt. light grey clay to 173.32 m. buff coloured brownish clay to 173.72 m and dark bluish grey to 174 m. top part has shearing ca 50° bottom part has irreg vlts of silica slightly folded	142	173	174	1	<0.005	94.7	0.33	115
174	175	weathered massive basalt. Has 4 patches of hem stained								
175	175.24	patches of silica alt 1 cm irreg all through basalt								
175.24	175.35	amyg basalt								
175.35	175.41	hem stained amyg basalt with silica alt hem stained								
175.41	175.63	med gy amyg basalt clay alt								
175.63	176.55	amyg basalt small amyg agate and calc								
176.55	178	massive basalt chl filled amyg and agate amyg								
178	179	amyg basalt mostly agate filled 10% amyg								
179	179.15	same								
179.15	179.2	large vein orange silica filling vug is 1 cm by 2 cm								

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
179.2	179.52	massive basalt 2 vltz of qtz with hem on margins 0.5 cm irreg ca 75°, 75° IOD coliform texture								
179.52	180.3	massive basalt								
180.3	180.45	massive basalt with 5 vltz of silica ca 80° vltz of 0.5 cm blue grey sugary textured qtz and calc mixed								
180.45	180.79	massive basalt. 0.5 cm agate veins or stretched out vugs								
180.79	181	very silicified masive basalt								
181	182	same								
182	183.2	massive basalt. 1 cm qtz vein ca 80° mixture of light grey and whiter qtz								
183.2	183.73	massive basalt vltz shearing qtz and calc ca 75°								
183.73	183.75	soft clay shearing ca 50° good slickensides								
183.75	184	hem stained massive basalt								
184	184.24	clay alt massive basalt shearing ca 45°								
184.24	185	hem stained mafic tuff silica patches 1 cm chalcedony brick red								
185	185.2	same. Bottom part has more kaolinite								
185.2	185.4	greenish grey clay alt								
185.4	185.48	same, tuff red colour								
185.48	186	massive tuff very red. Fract with calc dogtooth spar crystals								
186	186.55	coarse brick red tuff frags of pumice 1 cm by 2 cm hematized. Patches of blue grey tuff frags at 186.1 m 1 cm shear zone replaced with calc brecciated ca 55°								
186.55	186.9	brick red muddy tuff massive well sorted								
186.9	187.28	c gr tuff up to 2 cm frags hem stained								
187.28	187.68	tuffaceous frags 2 - 3 cm completely replaced with serpentine type clay. Matrix is silicified								
187.68	188	coarse tuff patches of fine gr clay alt irreg silica and hem patches 2 cm thick								
188	188.54	silicified tuff mostly 1 - 2 cm beds of coarser grained tuff sand sized foliation ca 40°								
188.54	188.68	tuff unit. Pumice frags some frags are 1 cm by 2 cm. fract in roct ca 45°, 45° IOD. Good slickensides								
188.68	189	well lam f gr tuff brownish colour couplets of graded tuff 2 cm top is in direction is towards collar								

From	To	Description	Sample	From	To	Length	Au	Cu	Ag	Zn
189	189.35	same massive brick red f gr tuff								
189.35	189.79	v c gr tuff up to 2 cm by 3 cm frag clay alt								
189.79	191.12	massive well lam tuff brick red. Sandy mud 20% frags 0.5 cm flattened and stretched out								
		EOH 191.1m								

Appendix B: Assay Techniques



minerals



Sample Preparation Package

PREP-31

Standard Sample Preparation: Dry, Crush, Split and Pulverize

Sample preparation is the most critical step in the entire laboratory operation. The purpose of preparation is to produce a homogeneous analytical sub-sample that is fully representative of the material submitted to the laboratory.

The sample is logged in the tracking system, weighed, dried and finely crushed to better than 70 % passing a 2 mm (Tyler 9 mesh, US Std. No.10) screen. A split of up to 250 g is taken and pulverized to better than 85 % passing a 75 micron (Tyler 200 mesh, US Std. No. 200) screen. This method is appropriate for rock chip or drill samples.

Method Code	Description
LOG-22	Sample is logged in tracking system and a bar code label is attached.
DRY-21	Drying of excessively wet samples in drying ovens. This is the default drying procedure for most rock chip and drill samples.
CRU-31	Fine crushing of rock chip and drill samples to better than 70 % of the sample passing 2 mm.
SPL-21	Split sample using riffle splitter.
PUL-31	A sample split of up to 250 g is pulverized to better than 85 % of the sample passing 75 microns.

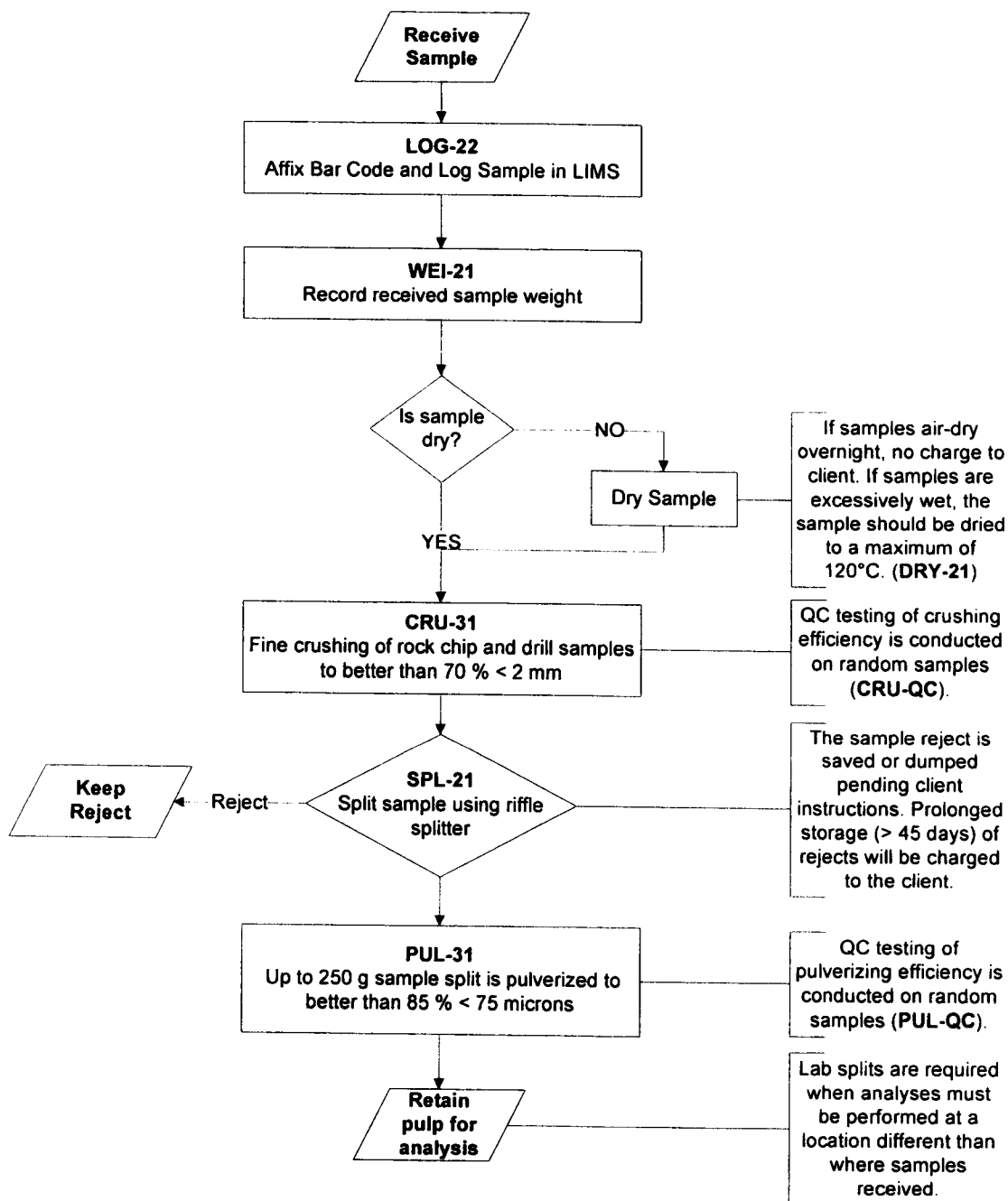


Minerals



Sample Preparation Package

Flow Chart - Sample Preparation Package - PREP-31 Standard Sample Preparation: Dry, Crush, Split and Pulverize



Revision 02.01
Feb 22, 2010

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Geochemical Procedure

ME-MS61

Ultra-Trace Level Method Using ICP-MS and ICP-AES

Sample Decomposition:

HF-HNO₃-HClO₄ acid digestion, HCl leach (GEO-4A01)

Analytical Method:

Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP - AES)
Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)

A prepared sample (0.25 g) is digested with perchloric, nitric, hydrofluoric and hydrochloric acids. The residue is topped up with dilute hydrochloric acid and analyzed by inductively coupled plasma-atomic emission spectrometry. Following this analysis, the results are reviewed for high concentrations of bismuth, mercury, molybdenum, silver and tungsten and diluted accordingly. Samples meeting this criterion are then analyzed by inductively coupled plasma-mass spectrometry. Results are corrected for spectral interelement interferences.

NOTE: Four acid digestions are able to dissolve most minerals; however, although the term "near-total" is used, depending on the sample matrix, not all elements are quantitatively extracted.

Element	Symbol	Units	Lower Limit	Upper Limit
Silver	Ag	ppm	0.01	100
Aluminum	Al	%	0.01	50
Arsenic	As	ppm	0.2	10 000
Barium	Ba	ppm	10	10 000
Beryllium	Be	ppm	0.05	1 000
Bismuth	Bi	ppm	0.01	10 000
Calcium	Ca	%	0.01	50
Cadmium	Cd	ppm	0.02	1 000
Cerium	Ce	ppm	0.01	500



Geochemical Procedure

Element	Symbol	Units	Lower Limit	Upper Limit
Cobalt	Co	ppm	0.1	10 000
Chromium	Cr	ppm	1	10 000
Cesium	Cs	ppm	0.05	500
Copper	Cu	ppm	0.2	10 000
Iron	Fe	%	0.01	50
Gallium	Ga	ppm	0.05	10 000
Germanium	Ge	ppm	0.05	500
Hafnium	Hf	ppm	0.1	500
Indium	In	ppm	0.005	500
Potassium	K	%	0.01	10
Lanthanum	La	ppm	0.5	10 000
Lithium	Li	ppm	0.2	10 000
Magnesium	Mg	%	0.01	50
Manganese	Mn	ppm	5	100 000
Molybdenum	Mo	ppm	0.05	10 000
Sodium	Na	%	0.01	10
Niobium	Nb	ppm	0.1	500
Nickel	Ni	ppm	0.2	10 000
Phosphorous	P	ppm	10	10 000
Lead	Pb	ppm	0.5	10 000
Rubidium	Rb	ppm	0.1	10 000
Rhenium	Re	ppm	0.002	50
Sulphur	S	%	0.01	10
Antimony	Sb	ppm	0.05	10 000
Scandium	Sc	ppm	0.1	10 000
Selenium	Se	ppm	1	1 000
Tin	Sn	ppm	0.2	500

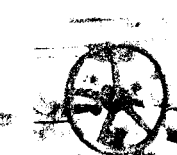


Geochemical Procedure

Element	Symbol	Units	Lower Limit	Upper Limit
Strontium	Sr	ppm	0.2	10 000
Tantalum	Ta	ppm	0.05	100
Tellurium	Te	ppm	0.05	500
Thorium	Th	ppm	0.2	10 000
Titanium	Ti	%	0.005	10
Thallium	Tl	ppm	0.02	10 000
Uranium	U	ppm	0.1	10 000
Vanadium	V	ppm	1	10 000
Tungsten	W	ppm	0.1	10 000
Yttrium	Y	ppm	0.1	500
Zinc	Zn	ppm	2	10 000
Zirconium	Zr	ppm	0.5	500



minerals



Geochemical Procedure

ME-AA45**Atomic Absorption Spectroscopy - Aqua Regia Digestion****Sample Decomposition:**

HNO₃ – HCl Aqua Regia Digestion (GEO-AR01)

Analytical Method:

Atomic absorption spectrometry (AAS)

A prepared sample (0.50 g) is digested with aqua regia for 45 minutes in a graphite heating block. After cooling, the resulting solution is diluted to 12.5 mL with demineralized water, mixed and analysed by atomic absorption spectrometry.

Note: Although some base metals may dissolve quantitatively in the majority of geological matrices, data reported from an aqua regia digestion should be considered as representing only the leachable portion of a particular analyte. The recovery percentage of many analytes from more resistive minerals can be very low, but the acid leachable portion can be an excellent exploration too.

Element	Symbol	Units	Lower Limit	Upper Limit	Default Overlimit Method
Silver	Ag	ppm	0.2	100	Ag-AA46
Arsenic	As	ppm	5	10000	As-AA46
Cobalt	Co	ppm	1	10000	Co-AA62
Copper	Cu	ppm	1	10000	Cu-AA46
Molybdenum	Mo	ppm	1	10000	Mo-AA46
Nickel	Ni	ppm	1	10000	Ni-AA62
Lead	Pb	ppm	1	10000	Pb-AA46
Zinc	Zn	ppm	1	10000	Zn-AA46

Appendix C: Location of Drill Core Samples

Samples from SL-11-1

Spl No.	From	To
1	4.8	5.8
2	5.8	6.8
3	6.8	7.8
4	7.8	8.8
5	8.8	9.8
6	13	14
7	14	15
8	15	16
9	19	20
10	27.4	28.4
11	28.4	29.4
12	29.4	30.4
13	40	41
14	41	42
15	42	43
16	43	44
17	44	45
18	45	46
19	46	47
20	48	49
21	50.5	51.5
22	55.5	56.5
23	56.5	57.5
24	58.2	59.2
25	blank	
26	59.2	60.2
27	64.1	65.1
28	65.1	66.1
29	68.48	69.48
30	75	76
31	82	83
32	83	84
33	84	85
34	89	90
35	91	92
36	92	93
37	93	94
38	94	95
39	95	96
40	97	98
41	101	102
42	103	104
43	104	105
44	105	106
45	106	107

46	107	108
47	108	109
48	109	110
49	110	111
50 blank		
51	111	112
52	112	113
53	113	114
54	114	115
55	115	116
56	116	117
57	117	118
58	118	119
59	119	120
60	120	121
61	121	122
62	122	123
63	123	124
64	124	125
65	125	126
66	126	127
67	127	128
68	128	129
69	129	130
70	130	131
71	131	132
72	132	133
73	133	134
74	134	135
75 blank		
76	135	136
77	136	137
78	137	138
79	138	139
80	139	140
81	140	141
82	141	142
83	142	143
84	143	144
85	144	145
86	145	146
87	146	147
88	147	148
89	148	149
90	149	150
91	150	151
92	151	152

93 152 153
94 183 184

Samples from SL-11-2

Spl No.	From	To
95	7.9	8.9
96	12.5	13.5
97	14.7	15.7
98	31	32
99	32	33
100	blank	
101	34.4	35.4
102	36	37
103	37	38
104	38	39
105	40.4	41.4
106	51	52
107	54	55
108	57.7	58.7
109	62	63
110	73.81	74.81
111	105.36	106.36
112	122.6	123.6
113	125	126
114	127	128
115	128	129
116	129	130
117	130	131
118	131	132
119	132	133
120	133	134
121	134	135
122	135	136
123	136	137
124	137	138
125	blank	
126	138	139
127	139	140
128	140	141
129	141	142
130	142	143
131	143	144
132	144	145
133	145	146
134	146	147
135	147	148
136	148	149
137	149	150
138	157	158
139	158	159

140	159	160
141	160	161
142	173	174

Appendix D: Assay Reports



ALS Canada Ltd.
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: WITCH S GLEN GOLD INC.
SUITE 820 - BEDFORD
BEDFORD NS B4A 1E6

Page: 1
Finalized Date: 13- JAN- 2012
Account: WITGOL

CERTIFICATE VO11245323

Project: SUGARLOAF
P.O. No.:
This report is for 94 Drill Core samples submitted to our lab in Val d'Or, QC, Canada on 22- NOV- 2011.

The following have access to data associated with this certificate:

DARRIN CAMPBELL

LYNDON JENSEN

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME- MS61	48 element four acid ICP- MS
Au- AA24	Au 50g FA AA finish AAS

To: WITCH S GLEN GOLD INC.
ATTN: LYNDON JENSEN
048 PERRY DRIVE
NEW MINAS NS B4N 4C3

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

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 13- JAN- 2012
Account: WITGOL

Project: SUGARLOAF

CERTIFICATE OF ANALYSIS VO11245323

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA24 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
		0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
SL- 01		1.82	0.013	0.95	6.87	518	360	2.40	0.01	4.93	0.29	68.8	33.4	21	8.09	28.3
SL- 02		1.83	<0.005	0.30	6.56	120.0	360	2.09	0.01	4.82	0.09	66.9	34.3	20	6.77	28.1
SL- 03		2.11	0.014	0.63	6.41	245	480	2.00	0.03	6.87	0.16	63.3	34.1	17	9.04	31.9
SL- 04		2.06	<0.005	0.23	6.61	88.8	370	2.16	0.02	6.18	0.09	83.7	24.8	11	28.2	16.8
SL- 05		2.19	<0.005	0.11	7.40	22.4	360	1.70	0.02	6.27	0.08	97.5	27.3	3	11.10	13.1
SL- 06		2.00	<0.005	0.11	7.55	39.2	480	1.67	0.01	5.43	0.13	98.2	27.4	6	62.8	12.8
SL- 07		1.79	<0.005	0.15	6.49	100.5	380	1.93	0.01	4.68	0.17	80.5	24.6	7	50.1	14.6
SL- 08		2.04	<0.005	0.26	5.91	554	450	1.39	0.02	4.07	0.21	67.2	23.6	7	36.4	41.9
SL- 09		1.75	<0.005	0.31	7.02	48.0	580	1.32	0.01	4.40	0.05	73.7	30.4	21	22.1	32.5
SL- 10		1.89	<0.005	0.21	7.28	474	220	2.39	0.03	1.77	0.15	75.0	38.0	33	43.1	32.7
SL- 11		2.02	<0.005	0.18	7.87	179.5	230	2.47	0.01	2.24	0.06	66.8	36.6	59	59.8	42.8
SL- 12		2.10	<0.005	0.14	6.93	48.1	180	2.30	0.01	2.08	0.04	51.9	34.0	50	71.2	45.1
SL- 13		2.11	0.011	0.40	7.10	611	480	1.98	0.01	2.15	0.16	55.9	42.3	45	25.7	48.4
SL- 14		1.97	<0.005	0.18	7.49	33.8	490	2.17	0.01	6.62	0.23	60.4	37.4	45	6.29	18.5
SL- 15		1.92	0.008	0.42	7.45	397	380	2.34	0.01	4.26	0.63	61.3	45.7	47	11.40	45.2
SL- 16		2.05	<0.005	0.19	7.22	203	300	2.87	0.01	4.17	0.19	60.1	38.9	47	17.80	38.1
SL- 17		2.18	0.006	0.27	5.89	343	300	2.19	0.02	7.17	0.28	58.8	30.3	17	17.15	30.9
SL- 18		2.12	0.018	0.47	5.86	592	350	2.29	0.01	3.55	0.25	61.0	32.4	7	28.9	31.0
SL- 19		2.38	<0.005	0.23	6.27	184.0	440	2.03	0.01	7.69	0.23	70.4	28.7	5	14.70	26.1
SL- 20		2.18	<0.005	0.25	6.11	205	430	1.78	0.01	5.59	0.13	65.2	28.9	6	20.0	35.2
SL- 21		2.11	<0.005	0.11	5.67	42	540	2.04	0.01	10.25	0.12	63.8	21.7	4	31.5	18.3
SL- 22		2.12	<0.005	0.30	7.59	513	470	3.11	0.04	2.44	0.64	83.4	41.7	4	19.75	33.0
SL- 23		2.20	0.020	0.59	6.10	701	390	3.31	0.07	5.95	1.38	79.2	33.5	3	19.40	34.5
SL- 24		2.11	<0.005	0.15	7.38	353	540	3.96	0.09	2.11	0.19	92.3	40.4	3	33.4	25.5
SL- 26		2.02	<0.005	0.11	6.72	142.0	420	4.99	0.14	9.18	1.07	92.5	26.0	3	26.3	19.3
SL- 27		2.10	<0.005	0.14	6.08	969	450	2.94	0.07	5.32	0.18	63.8	36.6	4	14.45	31.7
SL- 28		2.02	<0.005	0.02	6.57	70.4	450	2.84	0.09	6.98	0.09	71.1	35.1	4	8.88	24.6
SL- 29		2.16	<0.005	0.01	6.95	21.5	630	1.85	0.11	5.69	0.09	73.7	41.2	4	3.20	20.1
SL- 30		1.88	<0.005	0.27	6.54	74.6	740	1.48	0.10	5.52	0.27	70.6	42.1	4	2.85	55.7
SL- 31		2.10	<0.005	0.10	6.27	28.9	230	6.07	0.22	3.50	0.32	79.7	20.8	43	55.8	23.2
SL- 31- D		<0.02	<0.005	0.10	6.23	29.1	220	5.53	0.22	3.72	0.33	84.5	22.4	44	59.1	26.0
SL- 32		2.10	<0.005	0.21	7.45	157.0	400	4.35	0.18	2.44	2.55	96.3	41.8	40	64.6	42.6
SL- 33		2.21	<0.005	0.11	7.48	115.0	370	2.55	0.10	2.37	0.50	92.5	39.3	28	26.7	32.1
SL- 34		1.82	<0.005	0.17	6.87	159.5	490	5.51	0.10	4.38	0.29	110.5	35.0	30	19.85	31.9
SL- 35		2.14	<0.005	0.07	5.99	43.7	480	2.05	0.10	4.54	0.11	49.9	33.0	38	20.2	34.8
SL- 36		2.12	<0.005	0.04	6.91	30.0	380	1.81	0.08	7.88	0.08	47.5	40.9	48	10.30	46.4
SL- 37		2.09	<0.005	0.12	6.46	42.8	330	2.05	0.11	5.85	0.16	42.6	40.7	46	22.9	41.5
SL- 38		1.80	<0.005	0.16	7.68	41.2	360	10.55	0.11	3.65	0.10	127.0	40.8	59	39.0	40.4
SL- 39		2.12	<0.005	0.20	6.98	105.5	200	5.33	0.08	3.30	0.14	70.4	42.7	50	20.4	41.9
SL- 40		2.43	<0.005	0.15	7.77	80.3	270	4.73	0.11	3.78	0.23	70.2	44.9	58	8.86	39.9

***** See Appendix Page for comments regarding this certificate *****



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Page: 2 - B
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 13- JAN- 2012
Account: WITGOL

Project: SUGARLOAF

CERTIFICATE OF ANALYSIS VO11245323

Sample Description	Method Analyte Units LOR	ME- MS61 Fe %	ME- MS61 Ga ppm	ME- MS61 Ge ppm	ME- MS61 Hf ppm	ME- MS61 In ppm	ME- MS61 K %	ME- MS61 La ppm	ME- MS61 Li ppm	ME- MS61 Mg %	ME- MS61 Mn ppm	ME- MS61 Mo ppm	ME- MS61 Na %	ME- MS61 Nb ppm	ME- MS61 Ni ppm	ME- MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
SL- 01		11.05	29.0	0.31	6.9	0.139	0.82	29.8	63.4	2.67	2090	0.94	1.81	26.1	21.6	3570
SL- 02		10.80	29.7	0.35	6.7	0.164	0.49	28.8	57.1	2.88	2280	1.11	1.87	25.6	23.0	3480
SL- 03		10.20	29.1	0.31	6.5	0.134	1.24	26.9	69.0	2.55	2050	0.82	1.37	23.8	25.3	3300
SL- 04		9.34	27.8	0.35	7.3	0.127	2.37	37.5	90.7	2.50	1970	0.67	0.63	26.8	13.1	4000
SL- 05		11.35	27.8	0.38	8.2	0.149	0.57	43.7	43.4	2.33	2000	1.48	2.21	31.2	8.5	4840
SL- 06		10.65	29.4	0.39	8.5	0.143	2.64	43.4	82.2	2.58	2000	0.77	0.91	30.2	10.4	4680
SL- 07		9.26	27.0	0.33	7.2	0.120	2.21	35.9	103.0	2.26	1610	0.65	0.81	26.8	9.7	4220
SL- 08		8.21	28.4	0.32	6.2	0.107	2.36	26.6	127.0	2.12	1240	0.46	0.52	22.4	10.1	3600
SL- 09		9.93	26.3	0.35	6.7	0.118	1.31	33.1	98.8	2.58	1600	0.87	1.72	23.7	22.4	3550
SL- 10		11.35	36.1	0.40	7.4	0.135	2.36	32.0	95.0	1.84	1310	0.38	0.42	24.7	30.3	3780
SL- 11		12.05	46.1	0.40	6.8	0.139	2.92	28.8	69.0	1.97	1560	0.34	0.28	23.5	43.4	3160
SL- 12		10.45	40.4	0.38	6.1	0.120	2.69	23.1	71.7	1.66	1320	0.26	0.21	21.1	39.7	2720
SL- 13		11.20	29.8	0.38	6.3	0.135	3.25	23.7	118.0	2.71	1340	0.85	0.36	21.0	39.7	2850
SL- 14		11.15	29.7	0.34	6.4	0.132	0.62	26.7	74.8	2.74	2810	1.45	2.26	22.4	38.1	2880
SL- 15		11.75	35.3	0.40	6.6	0.129	1.26	27.0	124.5	3.10	2220	2.28	1.64	22.4	43.3	2930
SL- 16		11.15	30.8	0.36	6.2	0.130	1.58	26.8	141.0	3.24	1820	0.91	1.13	20.6	41.9	2820
SL- 17		9.35	28.9	0.31	6.0	0.113	1.78	23.8	126.5	2.82	2020	0.61	0.33	21.5	23.1	2700
SL- 18		9.83	27.6	0.34	6.9	0.121	1.98	24.6	131.0	2.67	1340	0.33	0.12	24.4	16.9	2910
SL- 19		9.78	27.6	0.34	7.1	0.126	1.22	30.2	98.6	2.35	2320	0.72	1.20	25.9	16.0	3210
SL- 20		9.52	26.2	0.33	6.8	0.118	1.92	27.9	107.0	2.22	1740	0.73	0.67	24.3	16.5	3080
SL- 21		8.55	23.0	0.30	6.5	0.113	2.00	27.9	46.8	1.39	1920	0.57	0.78	23.9	14.0	2860
SL- 22		11.70	41.5	0.20	9.9	0.140	2.88	36.3	154.0	2.52	1700	0.47	0.83	30.5	23.8	4150
SL- 23		9.63	27.5	0.17	6.2	0.110	2.75	33.1	113.0	1.67	1740	0.72	0.63	26.9	15.1	3570
SL- 24		11.10	32.2	0.21	10.0	0.133	3.55	40.2	119.0	2.63	1480	0.47	0.30	32.2	15.5	4380
SL- 26		9.37	27.9	0.19	8.3	0.136	2.78	42.6	66.7	1.42	2510	1.19	0.96	28.4	11.3	4020
SL- 27		9.66	27.3	0.16	7.4	0.114	2.44	26.9	151.0	3.06	2020	0.28	0.55	23.3	16.6	3280
SL- 28		10.65	24.3	0.16	6.1	0.101	1.16	29.7	62.4	2.34	2100	0.52	2.09	24.7	18.2	3510
SL- 29		11.35	25.7	0.18	8.3	0.109	0.89	31.3	61.2	3.12	2260	1.72	2.23	26.8	19.7	3670
SL- 30		11.00	23.1	0.18	8.0	0.108	1.16	28.8	66.4	2.87	2130	1.55	2.36	23.8	19.9	3480
SL- 31		6.00	23.7	0.15	9.0	0.100	2.39	35.5	63.2	1.73	1560	0.23	0.35	35.4	27.5	1170
SL- 31- D		6.17	24.4	0.21	9.0	0.102	2.38	35.8	87.2	1.76	1620	0.26	0.33	35.9	29.8	1190
SL- 32		10.20	27.2	0.21	9.7	0.126	3.36	39.3	81.9	1.82	982	3.75	0.11	29.9	33.8	3130
SL- 33		10.05	25.5	0.18	10.9	0.110	1.68	38.9	149.0	2.69	1730	1.20	1.28	31.2	24.4	3550
SL- 34		10.05	24.0	0.23	7.4	0.102	0.75	48.7	100.0	3.20	2050	1.29	1.99	24.2	24.2	2790
SL- 35		9.07	18.20	0.15	5.7	0.078	2.03	20.3	162.5	3.16	1680	0.60	0.74	16.6	33.5	2240
SL- 36		9.75	22.7	0.14	5.1	0.077	1.28	19.7	157.5	3.54	2770	0.51	1.28	15.9	48.7	2150
SL- 37		9.55	21.8	0.11	5.4	0.092	1.99	17.1	184.0	3.97	2210	0.61	0.63	15.2	44.7	2060
SL- 38		10.55	26.1	0.25	5.9	0.111	1.75	58.3	138.5	3.11	2970	0.88	1.08	17.6	49.3	2460
SL- 39		10.70	23.8	0.18	6.1	0.100	0.87	29.6	197.0	4.26	2770	0.68	1.22	16.4	39.9	2310
SL- 40		11.40	27.5	0.18	6.2	0.109	0.53	30.5	101.0	3.35	3490	1.10	1.90	17.9	47.2	2480

***** See Appendix Page for comments regarding this certificate *****



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Finalized Date: 13- JAN- 2012
Account: WITGOL

Project: SUGARLOAF

CERTIFICATE OF ANALYSIS VO11245323

Sample Description	Method Analyte Units LOR	ME- MS61 Pb ppm 0.5	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.2	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02	ME- MS61 U ppm 0.1
SL- 01		18.6	57.1	0.002	3.74	36.7	31.0	5	2.3	306	1.67	<0.05	1.9	2.21	1.97	0.5
SL- 02		9.9	28.9	0.002	0.80	25.2	31.3	5	2.6	323	1.64	<0.05	1.9	2.11	1.00	0.4
SL- 03		11.1	89.1	0.002	1.94	28.7	28.5	5	2.2	276	1.54	<0.05	1.9	1.995	2.36	0.8
SL- 04		7.5	205	0.002	0.53	24.7	28.2	5	2.5	160.0	1.73	<0.05	3.8	1.845	1.08	0.9
SL- 05		8.6	40.1	0.002	0.01	33.0	32.9	5	2.7	388	2.00	<0.05	3.5	2.17	0.55	0.7
SL- 06		56.2	294	0.002	<0.01	39.1	32.4	5	2.6	202	1.99	<0.05	3.5	2.10	1.52	0.7
SL- 07		123.5	229	0.002	0.87	37.0	28.8	4	2.2	139.0	1.71	<0.05	3.0	1.870	2.01	0.7
SL- 08		241	177.5	0.002	2.93	36.2	24.7	4	1.9	100.0	1.44	<0.05	2.8	1.690	2.16	0.5
SL- 09		137.0	87.6	<0.002	0.46	23.5	29.2	4	2.1	288	1.54	<0.05	2.5	1.780	0.96	0.7
SL- 10		106.0	242	0.002	3.25	37.7	32.2	5	2.3	85.0	1.84	<0.05	3.1	1.975	1.80	0.8
SL- 11		22.3	313	0.002	2.39	28.5	35.2	5	2.2	94.9	1.52	<0.05	1.8	2.31	2.33	0.6
SL- 12		23.0	283	0.002	0.49	21.6	32.0	5	1.9	94.7	1.35	<0.05	1.7	2.02	2.51	0.5
SL- 13		142.0	237	0.002	3.86	22.0	32.4	5	2.1	84.0	1.37	<0.05	1.6	2.07	4.85	0.4
SL- 14		80.2	65.7	0.002	0.53	17.80	32.9	5	2.1	387	1.44	<0.05	1.7	2.15	5.66	0.5
SL- 15		340	106.0	0.003	3.47	25.5	34.0	5	2.1	229	1.50	<0.05	1.8	2.17	10.55	0.5
SL- 16		93.9	106.0	0.002	1.56	14.75	31.8	5	1.9	170.5	1.36	<0.05	1.6	2.01	2.97	0.6
SL- 17		26.7	117.0	0.002	1.82	14.60	25.2	4	1.9	113.0	1.34	<0.05	2.3	1.770	1.68	0.7
SL- 18		174.0	185.0	0.002	4.82	19.15	28.8	5	2.1	80.5	1.56	<0.05	2.5	1.805	1.96	1.0
SL- 19		114.5	115.0	<0.002	1.27	18.90	28.3	5	2.2	263	1.82	<0.05	2.3	1.900	3.51	0.6
SL- 20		224	147.5	0.002	1.80	16.80	26.7	4	2.1	162.5	1.55	<0.05	2.2	1.800	2.74	0.6
SL- 21		33.2	187.0	<0.002	0.02	8.97	24.8	4	2.0	190.0	1.49	<0.05	2.0	1.765	2.37	0.4
SL- 22		199.5	178.0	0.002	2.35	16.10	39.4	3	2.7	112.0	1.81	<0.05	3.2	2.24	1.43	1.0
SL- 23		1375	173.5	0.003	3.18	16.25	30.8	4	2.3	134.0	1.51	<0.05	2.8	1.875	1.93	0.8
SL- 24		92.6	227	<0.002	0.94	25.9	36.6	3	2.5	100.5	1.94	<0.05	3.6	2.06	1.65	1.1
SL- 26		86.9	179.0	<0.002	1.31	12.45	32.0	3	2.5	189.0	1.51	<0.05	3.5	1.810	3.14	1.0
SL- 27		138.0	151.5	<0.002	2.07	13.90	33.5	3	2.1	128.0	1.43	<0.05	2.4	1.970	1.50	0.7
SL- 28		16.8	73.3	<0.002	0.01	14.35	36.2	2	2.0	341	1.55	<0.05	2.3	2.23	1.10	0.5
SL- 29		42.8	58.3	<0.002	0.03	6.41	38.7	2	2.2	346	1.81	<0.05	2.3	2.35	1.76	0.7
SL- 30		115.0	124.5	0.002	0.59	11.65	35.4	2	2.2	319	1.51	<0.05	2.3	2.23	8.12	0.6
SL- 31		60.4	268	0.003	0.35	13.05	17.6	3	5.9	76.6	2.38	<0.05	10.5	0.984	1.66	3.1
SL- 31- D		66.1	279	<0.002	0.37	14.05	18.8	3	5.8	79.4	2.26	0.06	10.3	1.045	1.71	3.1
SL- 32		280	334	0.007	7.31	18.25	35.0	4	2.8	75.3	1.68	<0.05	4.2	2.05	3.17	1.3
SL- 33		147.0	163.5	<0.002	1.85	20.0	32.7	2	2.4	186.0	1.82	<0.05	4.2	2.13	4.09	0.8
SL- 34		216	77.1	0.003	1.71	20.7	29.2	2	2.2	217	1.38	<0.05	2.8	1.800	5.26	0.5
SL- 35		51.0	141.5	0.002	3.42	11.95	25.7	2	1.5	116.0	1.03	<0.05	1.9	1.625	1.17	0.6
SL- 36		51.3	78.3	<0.002	1.31	9.73	31.8	2	1.5	203	0.95	<0.05	1.0	1.880	0.91	0.3
SL- 37		115.0	148.5	<0.002	2.87	11.95	30.7	2	1.5	114.0	0.96	<0.05	1.1	1.800	2.20	0.4
SL- 38		153.5	182.0	<0.002	1.00	11.90	35.6	3	1.7	163.0	1.09	<0.05	1.3	2.15	1.48	0.3
SL- 39		212	82.5	<0.002	1.41	26.3	30.9	3	1.8	158.0	1.02	<0.05	1.5	1.965	0.88	0.5
SL- 40		211	37.2	<0.002	0.69	19.35	34.6	2	1.9	271	1.12	<0.05	1.8	2.03	0.93	0.5

***** See Appendix Page for comments regarding this certificate *****



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 Finalized Date: 13- JAN- 2012
 Account: WITGOL

Project: SUGARLOAF

CERTIFICATE OF ANALYSIS VO11245323

Sample Description	Method Analyte Units LOR	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
SL- 01		380	5.9	46.0	170	277
SL- 02		372	3.7	45.9	172	268
SL- 03		329	6.5	42.6	135	254
SL- 04		231	7.4	46.4	139	284
SL- 05		330	3.0	56.1	157	329
SL- 06		311	13.7	56.0	202	327
SL- 07		293	12.6	48.5	201	290
SL- 08		258	15.2	40.8	209	245
SL- 09		430	13.5	44.5	271	260
SL- 10		428	22.3	46.1	183	280
SL- 11		526	24.5	44.3	162	259
SL- 12		457	26.2	39.9	143	229
SL- 13		440	28.9	37.4	159	234
SL- 14		460	3.9	42.2	232	240
SL- 15		482	18.4	41.3	285	243
SL- 16		472	14.2	41.0	218	230
SL- 17		335	18.0	38.9	184	232
SL- 18		339	23.7	42.2	163	265
SL- 19		315	12.4	46.3	235	279
SL- 20		299	12.3	43.2	230	267
SL- 21		223	3.7	42.5	156	250
SL- 22		501	21.9	63.0	249	390
SL- 23		337	14.7	54.8	165	333
SL- 24		275	36.8	66.9	210	399
SL- 26		251	9.2	60.4	166	367
SL- 27		221	46.2	49.2	227	302
SL- 28		293	4.4	56.9	194	314
SL- 29		411	1.4	56.4	210	343
SL- 30		383	1.3	51.0	492	323
SL- 31		171	2.6	63.0	166	266
SL- 31- D		176	2.7	62.3	168	271
SL- 32		307	13.1	56.9	171	381
SL- 33		334	5.9	55.8	253	435
SL- 34		311	1.4	75.6	438	332
SL- 35		285	3.5	36.2	183	231
SL- 36		376	1.3	40.7	228	207
SL- 37		368	1.2	33.5	225	206
SL- 38		407	3.2	83.4	301	241
SL- 39		400	6.0	56.0	331	242
SL- 40		413	3.9	63.5	331	249

***** See Appendix Page for comments regarding this certificate *****



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Finalized Date: 13- JAN- 2012
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Project: SUGARLOAF

CERTIFICATE OF ANALYSIS VO11245323

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA24 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
		0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
SL- 41		2.31	<0.005	0.62	7.05	599	250	11.35	0.24	0.89	7.62	149.0	16.2	19	37.1	53.5
SL- 42		1.80	0.011	0.80	6.95	417	460	9.49	0.19	1.16	11.95	207	1.0	3	27.1	12.3
SL- 43		1.87	0.011	0.89	5.18	179.0	510	6.71	0.25	1.32	3.39	125.5	0.6	5	14.30	8.7
SL- 44		1.99	0.011	0.59	4.79	125.0	330	4.81	0.16	0.49	2.03	98.1	0.3	5	10.10	7.5
SL- 44- D		<0.02	0.010	0.68	4.95	123.5	330	4.44	0.17	0.59	1.99	98.0	0.3	10	10.90	7.5
SL- 45		1.95	0.009	0.36	4.30	128.0	180	6.25	0.13	0.62	2.54	89.0	0.2	9	11.25	5.3
SL- 46		1.95	0.024	0.91	5.21	197.5	190	6.60	0.28	0.50	5.67	113.0	0.3	9	10.55	7.0
SL- 47		2.37	0.016	0.86	4.84	167.0	200	5.10	0.25	0.93	6.47	102.0	0.3	7	14.80	6.7
SL- 48		2.10	0.006	0.27	4.36	161.0	170	8.25	0.16	0.51	3.72	105.0	0.2	8	8.82	5.6
SL- 49		1.99	0.009	0.18	4.80	146.5	130	5.95	0.22	0.79	3.74	89.2	0.2	7	10.00	4.8
SL- 51		2.07	0.020	0.53	5.15	275	160	7.54	0.21	0.99	1.37	96.6	0.2	9	15.10	5.9
SL- 52		2.16	0.009	0.30	4.75	183.5	130	7.04	0.16	0.31	0.23	89.3	0.2	11	8.87	5.1
SL- 53		1.69	0.008	0.27	4.17	188.0	110	9.15	0.16	0.16	0.11	84.3	0.2	9	5.94	4.7
SL- 54		2.01	<0.005	0.19	4.47	127.0	90	7.91	0.13	0.37	0.19	70.3	0.2	13	10.00	4.1
SL- 55		2.07	0.007	0.15	4.33	183.5	90	9.45	0.12	0.27	0.87	85.2	0.2	17	7.72	4.4
SL- 56		1.95	0.010	0.22	4.88	254	110	8.96	0.15	0.42	3.02	101.5	0.2	11	12.35	5.4
SL- 57		1.65	<0.005	0.16	4.84	180.5	170	9.25	0.17	0.88	3.95	120.5	0.2	12	15.70	4.3
SL- 58		2.38	<0.005	<0.01	6.35	209	170	9.83	0.27	0.26	4.04	159.5	0.2	3	23.9	5.2
SL- 59		2.01	0.020	0.28	4.74	385	170	5.94	0.20	0.59	4.59	149.0	0.3	11	12.35	5.8
SL- 60		2.03	0.021	0.29	4.93	391	190	5.83	0.21	0.56	4.68	152.5	0.3	28	12.15	5.7
SL- 61		2.11	0.011	0.10	4.35	221	130	5.71	0.09	1.51	2.97	78.6	0.3	10	9.28	4.7
SL- 62		1.88	0.013	0.06	4.69	257	150	5.50	0.10	0.48	2.40	155.0	0.3	6	6.79	5.5
SL- 63		2.09	0.014	0.08	4.62	296	130	6.02	0.08	1.15	0.99	123.5	0.3	9	6.32	5.7
SL- 64		2.12	0.011	0.03	4.44	237	110	5.53	0.06	1.07	2.33	94.7	0.2	12	6.31	7.8
SL- 65		1.80	0.008	<0.01	4.73	164.0	140	5.50	0.07	0.17	2.00	137.5	0.3	13	6.31	8.9
SL- 66		1.91	0.009	<0.01	4.89	180.5	130	4.92	0.09	0.13	3.55	103.5	0.3	12	6.76	6.6
SL- 67		1.99	0.014	0.08	5.08	210	120	6.44	0.14	0.14	1.99	131.0	0.2	7	7.52	5.3
SL- 67- D		<0.02	0.013	0.01	5.07	207	120	6.30	0.13	0.13	2.21	126.0	0.2	5	7.65	5.5
SL- 68		2.09	0.011	0.02	4.91	188.5	130	6.86	0.12	0.53	1.02	155.5	0.3	7	7.25	4.9
SL- 69		2.09	0.012	0.05	5.05	250	170	7.06	0.20	0.34	1.04	160.0	0.2	9	7.23	5.9
SL- 70		1.92	0.011	<0.01	5.07	238	130	8.26	0.15	0.24	2.45	158.5	0.3	10	7.33	7.1
SL- 71		1.85	0.009	<0.01	4.73	161.5	150	4.37	0.07	0.10	1.24	105.5	0.2	8	6.25	5.1
SL- 72		2.01	0.011	0.02	4.88	204	150	5.35	0.07	0.28	3.76	131.0	0.3	11	6.22	5.5
SL- 73		2.01	0.017	<0.01	4.26	304	120	4.45	0.05	0.17	4.07	111.0	0.3	12	5.85	5.8
SL- 74		2.11	0.009	<0.01	4.19	288	100	4.81	0.03	0.14	3.29	96.3	0.2	13	6.12	9.2
SL- 76		2.01	0.014	0.04	4.36	306	180	4.12	0.08	0.08	1.02	96.6	0.3	8	5.41	6.9
SL- 77		1.88	<0.005	<0.01	4.99	146.0	180	8.05	0.22	0.85	2.16	133.0	0.3	4	9.73	6.6
SL- 78		1.99	0.020	<0.01	6.00	427	100	7.94	0.19	0.19	7.25	157.5	0.3	5	13.85	6.4
SL- 79		2.22	0.009	<0.01	6.46	361	100	6.80	0.24	0.45	7.04	177.0	0.3	3	11.85	6.2
SL- 80		1.99	0.011	<0.01	6.20	197.5	210	7.91	0.25	0.28	6.96	146.5	0.3	3	19.80	5.8

***** See Appendix Page for comments regarding this certificate *****



ALS Canada Ltd.
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To: WITCH S GLEN GOLD INC.
SUITE 820 - BEDFORD
BEDFORD NS B4A 1E6

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Finalized Date: 13- JAN- 2012
Account: WITGOL

Project: SUGARLOAF

CERTIFICATE OF ANALYSIS VO11245323

Sample Description	Method Analyte Units LOR	ME- MS61 Fe %	ME- MS61 Ga ppm	ME- MS61 Ge ppm	ME- MS61 Hf ppm	ME- MS61 In ppm	ME- MS61 K %	ME- MS61 La ppm	ME- MS61 Li ppm	ME- MS61 Mg %	ME- MS61 Mn ppm	ME- MS61 Mo ppm	ME- MS61 Na %	ME- MS61 Nb ppm	ME- MS61 Ni ppm	ME- MS61 P ppm
SL- 41		5.12	51.2	0.23	17.8	0.176	4.30	66.0	56.7	0.70	190	5.23	0.13	85.3	19.8	670
SL- 42		2.20	46.0	0.31	22.2	0.187	5.35	91.3	49.9	0.24	90	20.2	0.40	110.0	1.3	70
SL- 43		1.17	23.5	0.22	16.0	0.197	4.29	53.9	70.3	0.09	68	20.2	0.61	76.7	0.8	30
SL- 44		1.02	16.05	0.19	15.1	0.167	5.22	39.0	84.4	0.03	62	12.15	0.32	78.0	0.6	20
SL- 44- D		0.98	17.05	0.19	14.7	0.135	5.13	38.3	66.8	0.03	59	12.45	0.34	78.9	0.7	20
SL- 45		0.99	14.40	0.22	13.9	0.108	4.51	42.7	51.9	0.02	63	5.05	0.23	68.2	0.6	20
SL- 46		1.25	17.05	0.20	17.5	0.126	5.98	59.3	51.2	0.02	59	10.85	0.27	85.8	0.6	20
SL- 47		1.11	17.45	0.21	15.3	0.147	4.85	40.5	66.9	0.02	57	11.30	0.27	76.4	0.6	20
SL- 48		1.02	16.10	0.26	13.5	0.170	4.87	59.2	65.2	0.02	78	4.45	0.25	78.4	0.7	10
SL- 49		1.06	21.2	0.23	14.9	0.126	5.25	38.8	53.9	0.04	81	2.38	0.20	77.5	0.5	10
SL- 51		1.35	23.7	0.22	16.6	0.093	5.54	43.1	56.2	0.03	89	8.02	0.28	87.9	0.6	10
SL- 52		1.29	20.5	0.16	14.8	0.065	5.27	36.9	50.1	0.02	89	3.61	0.25	79.1	0.5	10
SL- 53		1.13	16.15	0.21	13.5	0.057	4.79	45.5	47.1	0.02	81	1.19	0.26	74.6	0.6	10
SL- 54		0.95	22.8	0.24	14.2	0.058	4.59	41.3	49.6	0.02	75	0.48	0.34	69.2	0.5	10
SL- 55		0.97	19.35	0.22	12.8	0.069	4.78	42.9	45.2	0.01	65	0.57	0.31	73.7	0.7	<10
SL- 56		1.20	25.3	0.23	15.1	0.110	4.89	45.4	55.1	0.08	83	1.10	0.29	86.7	0.5	10
SL- 57		1.13	29.5	0.22	14.9	0.114	3.88	43.7	52.9	0.17	118	1.48	0.30	78.6	0.6	20
SL- 58		1.33	47.3	0.29	20.2	0.177	5.23	62.3	45.0	0.36	189	1.39	0.18	118.5	0.4	10
SL- 59		1.39	18.80	0.31	14.9	0.130	4.94	63.4	61.5	0.04	66	3.50	0.26	88.8	0.8	10
SL- 60		1.42	20.2	0.30	15.9	0.144	5.24	66.6	59.7	0.04	72	3.67	0.27	93.0	0.8	10
SL- 61		1.00	16.20	0.23	13.2	0.114	5.09	31.4	45.2	0.02	126	1.07	0.27	78.3	0.8	10
SL- 62		1.08	17.05	0.27	14.3	0.129	5.64	48.6	40.1	0.02	87	0.75	0.24	83.4	0.6	10
SL- 63		1.06	15.30	0.27	13.4	0.097	5.49	46.5	37.6	0.02	116	0.43	0.27	80.2	1.2	10
SL- 64		1.00	15.85	0.23	12.9	0.109	5.36	34.8	34.2	0.02	117	0.39	0.20	77.1	0.6	10
SL- 65		1.04	17.60	0.26	14.4	0.109	5.52	48.5	34.4	0.03	106	0.30	0.29	86.3	0.7	10
SL- 66		1.01	17.30	0.26	14.0	0.122	5.77	46.2	36.0	0.03	107	0.39	0.20	83.2	0.6	10
SL- 67		1.10	19.65	0.28	15.9	0.131	5.34	48.4	32.8	0.04	109	0.41	0.26	94.7	0.5	10
SL- 67- D		1.10	20.1	0.27	16.1	0.132	5.83	47.0	36.0	0.04	115	0.41	0.26	93.8	0.5	10
SL- 68		1.03	19.00	0.30	15.1	0.112	5.79	62.6	33.2	0.04	123	0.33	0.22	89.8	0.9	10
SL- 69		1.13	17.55	0.30	15.4	0.127	6.06	59.9	33.4	0.03	106	0.68	0.30	92.5	0.5	10
SL- 70		1.13	21.1	0.30	15.7	0.177	5.95	59.1	28.8	0.03	101	0.44	0.26	96.2	0.7	10
SL- 71		0.98	15.40	0.24	14.4	0.093	5.68	39.8	26.5	0.03	98	0.29	0.25	84.6	0.5	10
SL- 72		1.03	14.20	0.28	14.1	0.145	5.78	56.4	28.7	0.02	100	0.38	0.25	83.7	0.7	10
SL- 73		0.95	11.50	0.27	13.1	0.178	5.13	46.2	25.5	0.01	58	0.36	0.22	75.2	0.6	<10
SL- 74		0.96	12.40	0.24	12.3	0.117	4.97	41.4	31.1	0.02	84	0.33	0.22	72.8	0.6	10
SL- 76		1.17	11.20	0.25	13.6	0.083	5.34	40.9	25.5	0.02	81	0.28	0.29	81.5	0.5	10
SL- 77		1.08	22.7	0.29	15.2	0.185	4.98	57.6	42.5	0.12	165	0.33	0.28	90.6	0.5	10
SL- 78		1.56	36.4	0.32	18.3	0.163	5.26	67.6	34.6	0.15	99	6.60	0.26	108.0	0.5	10
SL- 79		1.70	39.2	0.36	21.1	0.212	5.53	76.3	31.7	0.13	136	1.09	0.19	124.0	0.6	10
SL- 80		1.34	41.0	0.31	18.7	0.192	5.71	62.8	51.5	0.19	174	1.87	0.21	113.0	0.4	10

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Finalized Date: 13- JAN- 2012
Account: WITGOL

Project: SUGARLOAF

CERTIFICATE OF ANALYSIS VO11245323

Sample Description	Method Analyte Units LOR	ME- MS61 Pb ppm 0.5	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.2	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02	ME- MS61 U ppm 0.1
SL- 41		2690	346	0.003	4.74	41.1	9.1	5	15.8	45.0	5.73	<0.05	23.2	0.802	3.93	5.7
SL- 42		936	328	0.002	2.09	53.8	0.6	8	26.0	78.3	7.45	<0.05	32.5	0.086	4.19	7.2
SL- 43		988	245	0.003	1.02	33.2	0.4	5	20.0	71.0	5.39	0.05	19.9	0.059	3.30	4.3
SL- 44		631	267	0.002	0.70	25.7	0.3	4	13.5	61.1	5.14	<0.05	22.0	0.053	2.84	5.0
SL- 44- D		720	254	0.003	0.70	25.2	0.3	4	13.8	63.4	4.91	<0.05	20.8	0.051	2.65	4.6
SL- 45		332	253	0.002	0.68	27.8	0.2	4	12.1	50.8	4.61	<0.05	18.7	0.045	2.11	4.5
SL- 46		197.0	223	0.003	0.98	37.2	0.2	5	13.9	55.2	5.91	0.05	23.4	0.055	3.24	6.2
SL- 47		156.0	299	0.002	0.90	36.3	0.2	5	13.1	57.2	5.13	<0.05	19.5	0.049	2.69	3.9
SL- 48		309	272	<0.002	0.60	35.1	0.2	4	15.2	55.4	4.79	<0.05	18.3	0.046	2.22	4.9
SL- 49		247	320	0.002	0.62	29.0	0.2	3	12.6	53.0	5.08	<0.05	19.5	0.050	2.07	3.7
SL- 51		643	354	0.004	0.88	38.8	0.3	5	14.7	61.2	5.57	<0.05	20.9	0.054	2.83	4.9
SL- 52		781	332	0.004	0.71	35.0	0.2	5	15.6	52.6	4.98	<0.05	19.4	0.049	2.20	5.1
SL- 53		764	334	0.004	0.69	37.3	0.2	4	11.4	48.1	4.50	<0.05	18.1	0.045	1.97	5.6
SL- 54		587	333	0.005	0.48	31.6	0.2	3	8.9	60.2	4.75	<0.05	15.1	0.045	1.74	5.4
SL- 55		435	338	0.002	0.62	30.1	0.2	4	10.0	57.4	4.57	<0.05	15.5	0.045	1.97	4.7
SL- 56		465	347	0.002	0.83	37.8	0.2	5	14.5	60.9	5.43	<0.05	19.2	0.052	1.95	5.9
SL- 57		142.5	294	0.003	0.59	27.8	0.2	5	13.2	60.5	5.02	<0.05	25.2	0.050	1.93	5.2
SL- 58		136.5	408	0.003	0.58	21.1	0.4	6	19.4	66.7	7.74	0.05	35.9	0.067	2.35	7.8
SL- 59		174.0	351	0.003	1.24	42.7	0.3	5	14.7	58.1	5.65	<0.05	24.4	0.052	2.26	5.8
SL- 60		161.5	333	0.003	1.24	42.7	0.4	5	15.5	61.4	6.01	0.05	25.9	0.054	2.39	6.0
SL- 61		101.0	362	0.002	0.81	30.3	0.3	4	12.3	57.1	5.04	<0.05	17.0	0.044	1.91	3.5
SL- 62		332	400	0.003	0.80	29.2	0.3	5	15.2	53.4	5.37	0.05	27.3	0.048	2.11	5.3
SL- 63		461	369	0.003	0.83	26.4	0.3	5	14.3	52.3	5.16	0.05	18.4	0.046	2.07	3.9
SL- 64		201	378	0.003	0.67	27.1	0.3	4	12.1	48.5	4.98	<0.05	19.3	0.045	1.97	3.7
SL- 65		335	400	0.002	0.63	25.5	0.3	5	16.3	53.1	5.42	0.05	24.6	0.049	2.15	5.6
SL- 66		193.0	419	0.003	0.56	25.5	0.3	5	14.6	47.8	5.39	0.05	22.0	0.047	2.22	5.2
SL- 67		430	363	0.002	0.70	24.8	0.4	5	16.9	51.9	6.01	<0.05	24.2	0.054	2.27	6.0
SL- 67- D		364	319	0.002	0.66	24.5	0.4	5	16.4	52.8	6.00	0.05	24.2	0.053	2.26	6.1
SL- 68		621	314	0.003	0.72	24.7	0.3	6	17.4	51.3	5.79	0.05	23.8	0.050	2.17	5.8
SL- 69		743	433	0.002	0.82	25.8	0.4	6	15.7	59.5	5.92	0.05	25.0	0.053	2.43	6.1
SL- 70		547	450	0.003	0.73	24.9	0.4	5	14.8	60.2	6.03	0.05	27.0	0.054	2.79	6.2
SL- 71		592	410	0.002	0.57	26.3	0.3	5	13.4	52.1	5.39	0.05	24.2	0.049	2.15	5.8
SL- 72		275	401	0.002	0.74	27.5	0.3	5	12.8	54.3	5.54	<0.05	23.7	0.049	2.16	5.5
SL- 73		93.5	375	0.002	0.77	28.3	0.3	5	10.5	50.8	4.85	<0.05	21.8	0.044	1.80	4.7
SL- 74		206	367	0.002	0.67	27.8	0.3	4	8.8	46.5	4.66	<0.05	21.2	0.044	1.70	4.7
SL- 76		678	350	0.002	0.88	26.8	0.3	5	10.7	56.6	5.20	0.05	22.9	0.047	2.15	5.6
SL- 77		740	323	0.002	0.58	21.9	0.3	5	16.9	61.0	5.82	0.05	24.8	0.052	2.27	5.6
SL- 78		174.0	382	0.003	1.22	27.4	0.4	6	18.5	61.6	6.89	0.05	30.4	0.062	2.89	6.5
SL- 79		231	394	0.003	1.24	27.2	0.4	7	23.1	77.1	8.01	0.07	35.2	0.073	2.90	7.6
SL- 80		338	470	0.002	0.66	25.0	0.4	6	21.3	62.7	7.06	0.07	30.6	0.065	3.79	5.9

***** See Appendix Page for comments regarding this certificate *****



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Project: SUGARLOAF

CERTIFICATE OF ANALYSIS VO11245323

Sample Description	Method Analyte Units LOR	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
SL- 41		106	11.7	153.5	367	420
SL- 42		77	1.9	188.0	422	498
SL- 43		30	1.4	124.5	147	348
SL- 44		17	1.2	103.0	109	340
SL- 44- D		17	1.1	104.0	111	333
SL- 45		20	1.2	108.5	151	301
SL- 46		20	1.8	126.5	256	371
SL- 47		13	1.2	100.0	278	340
SL- 48		20	1.0	116.5	195	318
SL- 49		28	1.5	90.9	193	338
SL- 51		30	1.4	115.5	96	378
SL- 52		32	1.3	108.0	35	342
SL- 53		33	1.1	119.5	28	310
SL- 54		27	0.9	91.4	38	308
SL- 55		23	1.0	102.5	80	307
SL- 56		39	1.2	125.0	195	360
SL- 57		23	1.1	117.0	268	342
SL- 58		5	2.3	143.5	393	481
SL- 59		19	1.5	121.5	301	344
SL- 60		21	1.5	128.5	313	363
SL- 61		12	1.2	94.7	251	311
SL- 62		14	1.4	127.5	171	335
SL- 63		10	1.2	107.5	89	319
SL- 64		11	1.2	93.3	185	310
SL- 65		11	1.3	112.5	106	339
SL- 66		10	1.2	101.5	211	328
SL- 67		13	1.2	112.0	134	370
SL- 67- D		12	1.2	112.0	155	368
SL- 68		11	1.1	124.0	64	348
SL- 69		10	1.4	126.0	54	384
SL- 70		11	1.8	111.0	180	362
SL- 71		8	1.2	108.0	82	338
SL- 72		8	1.2	114.5	234	334
SL- 73		4	1.1	104.5	256	309
SL- 74		5	1.3	97.1	181	299
SL- 76		6	1.3	107.5	33	328
SL- 77		13	1.4	130.5	101	359
SL- 78		18	2.4	156.5	408	427
SL- 79		20	2.3	176.5	383	499
SL- 80		3	2.4	150.5	427	442

***** See Appendix Page for comments regarding this certificate *****



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Project: SUGARLOAF

CERTIFICATE OF ANALYSIS VO11245323

Sample Description	Method Analyte Units LOR	WEI- 21	Au- AA24	ME- MS61	ME- MS61	ME- MS61	WEI- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
SL- 81		1.99	0.005	<0.01	4.85	211	1100	6.02	0.15	0.28	4.28	127.0	0.2	5	10.10	5.7
SL- 82		1.95	<0.005	<0.01	5.89	99.9	800	10.00	0.26	0.64	2.89	128.0	0.3	3	34.7	4.9
SL- 83		2.23	<0.005	<0.01	6.36	132.5	500	9.75	0.27	0.17	1.15	139.5	0.1	2	31.6	4.4
SL- 84		1.87	0.014	<0.01	5.30	213	1100	5.82	0.18	0.22	1.15	124.0	0.2	2	16.45	4.8
SL- 85		2.37	0.007	<0.01	4.97	132.0	1200	6.76	0.24	0.21	1.07	116.5	0.2	2	17.90	6.0
SL- 86		2.04	<0.005	<0.01	6.57	48.4	500	11.75	0.35	0.14	2.09	139.5	0.4	<1	35.5	4.4
SL- 87		2.19	<0.005	<0.01	5.47	46.9	600	11.35	0.33	0.14	0.59	145.5	0.2	3	13.60	4.2
SL- 88		2.34	<0.005	<0.01	5.69	28.6	700	13.30	0.37	0.16	0.58	137.5	0.2	3	19.75	4.9
SL- 89		2.09	0.005	<0.01	4.83	23.6	500	12.35	0.32	0.14	0.30	95.2	0.2	4	14.35	4.2
SL- 90		2.05	<0.005	<0.01	5.84	27.4	600	11.65	0.41	0.19	0.52	152.0	0.3	2	17.45	3.1
SL- 91		2.32	<0.005	<0.01	6.32	48.5	1100	12.25	0.32	0.31	0.54	134.5	0.3	3	21.9	2.8
SL- 92		2.14	<0.005	<0.01	5.50	60.9	700	11.20	0.20	0.40	0.70	106.0	0.2	3	24.4	3.0
SL- 93		2.21	0.006	<0.01	6.34	87.4	1700	12.70	0.20	0.98	0.86	124.0	0.2	3	34.6	4.1
SL- 94		2.41	<0.005	0.08	6.50	15.2	900	1.11	0.01	9.74	0.10	41.6	29.8	51	16.50	43.2

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 Finalized Date: 13- JAN- 2012
 Account: WITGOL

Project: SUGARLOAF

CERTIFICATE OF ANALYSIS VO11245323

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ca ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	NI ppm
SL- 81		1.04	23.7	0.29	14.8	0.142	5.04	53.2	63.8	0.05	98	3.54	0.30	90.5	0.6
SL- 82		1.26	36.6	0.28	17.9	0.180	3.63	54.4	82.0	0.13	199	0.50	0.13	110.0	0.3
SL- 83		1.40	41.1	0.31	19.9	0.175	4.04	60.7	79.8	0.09	170	1.15	0.09	115.5	0.3
SL- 84		1.15	24.0	0.28	16.5	0.182	4.95	53.3	63.4	0.04	90	2.75	0.17	95.1	0.3
SL- 85		1.12	23.9	0.27	15.4	0.125	3.96	49.2	79.5	0.04	113	3.97	0.19	93.5	0.4
SL- 86		1.45	52.2	0.32	20.6	0.192	3.37	60.7	73.8	0.08	196	1.02	0.08	121.0	0.3
SL- 87		1.37	37.8	0.24	16.6	0.155	2.60	64.1	111.0	0.06	154	1.45	0.86	92.5	1.2
SL- 88		1.35	41.0	0.26	17.5	0.162	2.91	60.6	134.0	0.07	175	1.70	0.40	98.0	0.6
SL- 89		1.13	31.4	0.19	13.9	0.145	1.82	41.5	119.5	0.04	165	0.84	0.91	80.2	0.5
SL- 90		1.38	40.3	0.26	18.6	0.169	2.38	65.9	120.5	0.06	175	0.86	0.85	99.1	0.4
SL- 91		1.46	38.9	0.27	19.0	0.169	2.63	57.5	131.5	0.09	187	1.32	0.83	102.5	0.6
SL- 92		1.23	33.1	0.24	16.7	0.147	2.01	43.9	130.5	0.11	153	3.76	0.70	90.3	0.4
SL- 93		1.42	34.8	0.26	18.0	0.171	2.76	50.7	122.5	0.35	231	12.25	0.47	97.4	0.3
SL- 94		8.12	16.20	0.23	4.4	0.081	0.46	18.8	43.8	1.69	1760	0.87	1.22	14.9	45.3
															1440

***** See Appendix Page for comments regarding this certificate *****



ALS Canada Ltd.
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Project: SUGARLOAF

CERTIFICATE OF ANALYSIS VO11245323

Sample Description	Method Analyte Units LOR	ME- MS61 Pb ppm 0.5	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.2	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02	ME- MS61 U ppm 0.1
SL- 81		94.4	366	0.002	0.80	29.5	0.3	5	15.9	58.4	5.59	0.05	23.5	0.050	2.75	4.9
SL- 82		72.7	385	0.002	0.33	19.15	0.4	6	17.8	55.4	6.77	0.05	28.0	0.061	2.32	6.3
SL- 83		52.3	394	0.002	0.35	15.35	0.4	6	21.2	53.6	7.51	0.06	31.3	0.067	2.59	6.3
SL- 84		36.3	370	0.002	0.59	16.15	0.4	6	16.8	59.3	6.13	0.06	24.8	0.055	2.87	5.9
SL- 85		34.2	316	0.002	0.47	15.35	0.4	6	14.3	55.3	5.78	0.05	24.8	0.053	2.11	5.7
SL- 86		46.7	384	0.003	0.15	9.90	0.5	7	21.2	45.1	7.62	0.06	32.1	0.071	1.85	7.7
SL- 87		41.5	281	0.002	0.24	9.28	0.4	6	16.7	66.2	6.58	<0.05	26.7	0.060	1.37	5.7
SL- 88		38.8	306	0.002	0.18	9.17	0.4	5	18.5	54.8	6.80	0.05	28.2	0.061	1.66	5.9
SL- 89		30.7	215	0.002	0.11	9.68	0.3	4	14.6	65.1	5.32	<0.05	22.6	0.051	1.18	4.3
SL- 90		38.4	263	0.002	0.13	8.48	0.4	5	17.9	74.8	7.35	0.05	29.9	0.063	1.54	7.3
SL- 91		39.7	254	0.003	0.20	9.27	0.4	6	19.4	79.6	7.41	0.05	29.6	0.067	1.63	7.4
SL- 92		35.7	204	0.002	0.20	10.10	0.4	5	15.8	81.6	6.49	0.05	28.0	0.058	1.48	5.8
SL- 93		47.9	262	0.002	0.34	11.55	0.4	5	19.8	88.8	7.16	0.05	29.4	0.064	2.03	9.3
SL- 94		6.7	40.8	<0.002	<0.01	4.80	24.9	3	1.8	279	1.02	<0.05	2.0	1.295	0.74	0.8

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CERTIFICATE OF ANALYSIS VO11245323

Sample Description	Method Analyte Units LOR	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
SL- 81		1	1.5	124.5	311	352
SL- 82		<1	1.8	141.0	281	416
SL- 83		<1	2.3	158.5	190	458
SL- 84		<1	1.8	128.0	182	382
SL- 85		<1	1.8	127.0	188	370
SL- 86		1	2.7	170.5	218	481
SL- 87		2	2.6	150.0	172	414
SL- 88		2	1.9	147.5	178	431
SL- 89		1	1.4	113.0	142	352
SL- 90		1	1.8	148.0	188	443
SL- 91		4	2.0	148.5	182	467
SL- 92		2	1.4	123.0	161	397
SL- 93		1	1.4	142.0	180	453
SL- 94		251	2.5	32.0	108	169.5

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Project: SUGARLOAF

CERTIFICATE OF ANALYSIS VO11245323

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. REE's may not be totally soluble in this method.



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Finalized Date: 26- DEC- 2011
This copy reported on
29- DEC- 2011
Account: WITGOL

CERTIFICATE VO11247069

Project: SUGARLOAF
P.O. No.:
This report is for 49 Drill Core samples submitted to our lab in Val d'Or, QC, Canada
on 24- NOV- 2011.

The following have access to data associated with this certificate:
LYNDON JENSEN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME- MS61	48 element four acid ICP- MS
Au- AA24	Au 50g FA AA finish AAS

To: WITCH S GLEN GOLD INC.
ATTN: LYNDON JENSEN
048 PERRY DRIVE
NEW MINAS NS B4N 4C3

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

***** See Appendix Page for comments regarding this certificate *****

Signature: *Nacera Amara*
Nacera Amara, Laboratory Manager, Val d'Or



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Project: SUGARLOAF

CERTIFICATE OF ANALYSIS VO11247069

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA24 Au ppm 0.005	ME- MS61 Ag ppm 0.01	ME- MS61 Al % 0.01	ME- MS61 As ppm 0.2	ME- MS61 Ba ppm 10	ME- MS61 Be ppm 0.05	ME- MS61 Bi ppm 0.01	ME- MS61 Ca % 0.01	ME- MS61 Cd ppm 0.02	ME- MS61 Ce ppm 0.01	ME- MS61 Co ppm 0.1	ME- MS61 Cr ppm 1	ME- MS61 Cs ppm 0.05	ME- MS61 Cu ppm 0.2
SL- 95		2.24	0.018	0.30	6.56	267	380	2.57	0.06	3.83	0.10	79.8	33.8	14	30.0	25.1
SL- 96		2.04	<0.005	0.11	6.09	108.5	540	1.71	0.02	4.40	0.07	71.3	27.5	8	17.65	20.5
SL- 97		2.32	0.020	0.23	7.15	524	410	1.87	0.02	2.81	0.11	82.2	31.9	7	27.9	26.5
SL- 98		2.14	0.013	0.24	7.62	141.5	350	4.57	0.01	2.59	0.08	103.5	43.8	4	38.8	26.2
SL- 99		2.05	<0.005	0.17	6.58	26.1	230	3.91	0.03	5.53	0.09	70.5	33.6	24	31.6	33.3
SL- 100		0.07	4.96	9.06	7.54	10.2	350	0.96	0.14	3.44	1.67	33.1	28.2	83	3.13	105.5
SL- 101		2.40	0.018	0.68	6.89	216	220	3.38	0.02	6.32	0.26	56.9	44.1	43	23.5	468
SL- 102		2.06	0.005	0.46	6.82	1020	290	2.73	0.01	2.93	0.14	55.7	45.5	46	31.3	76.0
SL- 103		2.24	<0.005	0.60	6.96	2080	270	2.99	0.32	1.23	0.83	51.9	49.2	50	56.8	72.2
SL- 104		2.01	<0.005	0.20	7.78	169.5	340	6.47	0.03	1.85	0.11	75.7	40.1	58	56.2	38.5
SL- 105		2.18	<0.005	0.33	7.79	189.0	420	3.37	0.01	4.16	0.11	64.7	47.7	51	19.90	63.4
SL- 106		2.08	<0.005	0.14	6.92	100.5	330	2.71	0.01	3.49	0.06	73.3	36.0	6	51.9	32.1
SL- 107		2.21	<0.005	0.15	6.73	42.8	370	3.07	0.01	3.00	0.05	72.2	34.2	5	52.3	34.4
SL- 108		2.12	<0.005	0.15	6.32	103.5	300	3.27	0.04	3.97	0.07	69.7	34.5	5	39.5	28.3
SL- 109		2.29	<0.005	0.28	7.50	570	360	2.93	0.01	2.86	0.07	91.9	41.0	4	45.9	40.7
SL- 110		2.28	0.009	0.28	5.88	379	350	2.27	0.02	3.00	0.08	69.8	31.6	5	26.3	31.7
SL- 111		1.96	<0.005	0.11	4.14	88	140	1.22	0.02	11.10	0.34	43.1	21.3	16	10.65	21.0
SL- 112		2.04	<0.005	0.22	7.07	73.1	180	5.33	0.07	1.52	0.07	82.7	27.2	41	47.6	39.5
SL- 113		2.28	<0.005	<0.01	6.67	65.1	150	9.33	0.29	1.08	0.33	120.5	7.3	17	38.9	10.9
SL- 114		2.06	<0.005	0.07	6.76	134.0	140	10.80	0.29	0.95	0.40	85.5	22.3	42	53.5	16.1
SL- 115		2.01	<0.005	0.23	6.80	1605	230	9.48	1.56	0.95	1.01	70.0	40.4	59	54.8	38.5
SL- 116		2.26	<0.005	0.10	9.02	5890	60	7.05	0.13	1.27	0.27	65.7	37.9	55	29.0	35.9
SL- 117		2.12	<0.005	0.16	7.99	1780	90	5.60	0.30	1.41	0.65	43.9	39.1	57	33.1	38.5
SL- 118		2.26	<0.005	0.21	8.98	1710	100	6.17	0.31	1.47	0.64	62.9	40.0	60	39.5	40.6
SL- 119		2.14	<0.005	0.17	8.35	1840	90	5.35	0.40	1.73	0.50	63.7	38.8	54	28.8	48.9
SL- 120		2.32	<0.005	0.14	8.08	2410	120	4.84	6.80	1.24	2.46	43.3	43.7	69	47.9	48.0
SL- 121		2.13	<0.005	0.11	8.51	3080	90	4.87	0.16	1.29	0.66	52.1	42.9	71	46.8	48.2
SL- 122		2.18	<0.005	0.13	9.12	606	100	5.36	0.91	1.99	0.22	58.8	42.9	75	51.0	46.8
SL- 123		2.34	<0.005	0.12	8.77	395	90	6.50	0.95	1.28	0.30	64.5	45.2	74	50.5	52.5
SL- 124		1.71	<0.005	0.10	6.05	59.2	90	6.73	0.24	1.31	0.17	83.9	17.3	32	38.2	20.9
SL- 125		0.07	5.06	9.15	7.50	10.4	350	0.89	0.12	3.40	1.78	30.8	26.4	81	2.79	107.0
SL- 126		2.18	<0.005	0.27	7.23	87.9	80	8.03	0.26	2.67	0.14	192.5	22.7	36	42.8	27.8
SL- 127		1.71	<0.005	0.25	7.78	157.0	110	8.79	0.24	2.02	0.10	150.0	19.2	32	67.2	21.1
SL- 128		2.27	0.010	0.31	6.12	403	230	7.26	0.13	0.58	5.01	128.0	7.7	13	32.4	13.9
SL- 129		1.98	0.010	0.33	5.73	194.5	250	8.23	0.17	1.27	8.47	139.0	0.5	3	36.0	9.5
SL- 130		2.47	<0.005	0.05	6.97	211	180	13.05	0.29	0.32	4.98	148.0	0.3	3	38.2	7.7
SL- 131		2.02	<0.005	0.03	6.18	217	410	6.76	0.10	0.40	3.77	111.0	0.2	2	21.8	6.7
SL- 132		2.11	<0.005	0.15	6.82	264	360	10.10	0.17	0.67	5.02	129.0	0.3	3	28.3	7.5
SL- 133		2.26	<0.005	0.07	7.82	254	260	15.30	0.40	0.33	8.64	133.0	0.4	2	43.4	6.7
SL- 134		2.00	0.009	0.69	6.10	312	400	7.99	0.13	0.73	2.91	120.0	0.5	3	24.0	20.3

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CERTIFICATE OF ANALYSIS VO11247069

Sample Description	Method Analyte Units LOR	ME- MS61 Fe %	ME- MS61 Ca ppm	ME- MS61 Ge ppm	ME- MS61 Hf ppm	ME- MS61 In ppm	ME- MS61 K %	ME- MS61 La ppm	ME- MS61 Li ppm	ME- MS61 Mg %	ME- MS61 Mn ppm	ME- MS61 Mo ppm	ME- MS61 Na %	ME- MS61 Nb ppm	ME- MS61 Ni ppm	ME- MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
SL- 95		9.78	31.5	0.28	7.0	0.144	2.52	35.7	120.0	2.76	1720	0.74	0.45	26.7	20.7	3950
SL- 96		8.82	24.9	0.28	6.1	0.103	1.56	31.8	115.0	3.13	1920	0.89	1.17	23.7	10.8	3730
SL- 97		10.25	35.4	0.28	7.4	0.122	2.83	35.3	127.0	3.15	1490	0.52	0.71	28.5	12.4	4480
SL- 98		12.15	34.8	0.31	8.5	0.141	2.38	46.4	77.5	1.84	1640	1.23	1.06	31.9	11.3	5270
SL- 99		9.30	26.1	0.24	6.4	0.113	1.12	31.6	118.5	2.24	2340	0.75	1.10	24.2	24.6	3350
SL- 100		5.42	17.05	0.20	2.6	0.055	1.97	18.2	38.3	2.16	959	14.60	1.49	8.7	62.2	990
SL- 101		11.30	28.7	0.24	5.7	0.125	0.85	25.5	118.0	1.99	1940	0.55	1.48	21.7	41.1	2750
SL- 102		10.35	32.5	0.24	5.7	0.115	1.38	24.2	99.8	1.98	1340	0.63	1.14	20.8	44.5	2730
SL- 103		10.90	43.2	0.23	5.7	0.137	2.25	20.5	96.5	2.16	899	0.26	0.13	21.4	46.4	2730
SL- 104		12.40	38.3	0.27	6.5	0.133	2.45	35.2	79.2	2.13	1500	0.83	0.79	23.9	46.6	3170
SL- 105		11.95	32.5	0.28	6.3	0.123	1.15	28.9	118.0	3.20	2160	0.84	1.41	23.8	46.2	3110
SL- 106		10.55	26.6	0.27	7.4	0.132	1.83	32.6	142.0	3.60	1780	0.39	0.84	27.6	19.9	3410
SL- 107		10.90	28.9	0.28	7.3	0.136	2.67	31.7	52.8	1.56	1500	0.53	0.42	27.4	19.1	3570
SL- 108		9.99	27.4	0.24	6.5	0.218	1.89	30.8	81.1	1.75	1580	0.56	0.71	23.1	17.5	3370
SL- 109		12.75	36.5	0.30	8.7	0.162	3.23	38.5	61.5	1.49	1320	0.56	0.14	32.4	20.9	4140
SL- 110		9.37	31.4	0.25	6.7	0.141	2.35	28.3	144.5	2.21	1420	0.33	0.17	25.8	13.0	3560
SL- 111		5.92	15.00	0.14	4.2	0.067	0.19	20.0	92.9	1.27	2710	0.58	1.10	15.0	18.8	1590
SL- 112		6.84	28.5	0.24	10.3	0.134	2.10	37.5	149.0	1.84	1340	0.49	0.42	54.7	38.9	1350
SL- 113		2.03	32.4	0.26	15.0	0.150	2.28	55.8	80.2	0.95	513	2.01	0.23	91.0	12.4	320
SL- 114		4.34	29.2	0.23	8.5	0.107	2.16	39.9	141.0	1.35	887	1.52	0.36	49.2	38.6	560
SL- 115		7.01	36.4	0.25	7.1	0.123	2.82	30.0	98.8	1.25	786	4.49	0.97	44.1	63.4	1290
SL- 116		9.80	35.7	0.26	7.4	0.126	1.45	28.4	237	2.63	2230	1.70	1.17	48.1	61.4	1280
SL- 117		7.87	40.1	0.18	8.5	0.137	1.78	16.4	179.5	1.93	1840	2.03	1.00	48.7	59.9	1320
SL- 118		8.19	41.4	0.20	8.6	0.143	1.92	26.6	187.0	2.09	1880	2.03	1.01	48.4	62.7	1340
SL- 119		8.53	36.9	0.21	7.7	0.120	1.50	27.9	176.5	1.92	1920	2.05	1.28	40.6	57.9	1270
SL- 120		9.03	68.7	0.19	6.6	0.462	2.53	17.5	117.0	1.18	991	5.78	0.44	27.7	64.3	1490
SL- 121		9.62	52.0	0.20	6.0	0.118	2.46	20.8	150.5	1.45	1460	2.14	0.20	22.3	64.5	1590
SL- 122		8.52	49.9	0.21	6.6	0.185	2.81	24.5	128.5	1.50	1280	0.95	0.17	24.1	66.4	1650
SL- 123		8.62	54.4	0.21	6.7	0.210	2.50	25.4	161.0	1.67	1380	0.94	0.14	25.3	66.4	1610
SL- 124		3.75	37.5	0.16	9.7	0.145	2.04	40.3	105.5	0.94	606	1.47	0.23	48.1	24.2	670
SL- 125		5.29	18.10	0.15	3.0	0.059	2.00	14.1	38.2	2.11	952	15.50	1.47	8.9	54.9	990
SL- 126		6.38	33.5	0.30	10.3	0.204	2.43	94.1	102.5	1.58	1490	0.89	0.19	58.9	28.2	1120
SL- 127		5.38	43.1	0.26	12.3	0.207	2.50	64.2	69.2	1.07	635	1.97	0.30	53.3	22.0	950
SL- 128		2.98	55.2	0.23	16.1	0.153	2.89	55.2	55.5	0.42	109	15.25	0.26	84.9	9.5	340
SL- 129		1.36	45.2	0.21	17.4	0.173	2.39	60.2	81.6	0.35	122	12.60	0.23	96.2	0.8	40
SL- 130		1.74	54.3	0.22	23.5	0.190	3.13	86.1	89.0	0.85	282	0.72	0.12	126.0	0.4	30
SL- 131		1.33	50.1	0.20	20.1	0.156	4.22	56.4	71.6	0.36	155	2.35	0.18	107.5	0.3	30
SL- 132		1.51	56.4	0.20	21.3	0.168	4.27	57.7	80.3	0.42	174	2.00	0.21	114.0	0.3	20
SL- 133		1.72	73.9	0.22	26.5	0.241	4.53	55.6	71.6	0.65	222	1.08	0.19	143.5	0.4	20
SL- 134		1.44	45.8	0.25	17.3	0.169	3.79	56.9	69.7	0.27	182	4.57	0.34	101.5	1.3	20

***** See Appendix Page for comments regarding this certificate *****



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Account: WITGOL

Project: SUGARLOAF

CERTIFICATE OF ANALYSIS VO11247069

Sample Description	Method Analyte Units LOR	ME- MS61 Pb ppm 0.5	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.2	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02	ME- MS61 U ppm 0.1
SL- 95		58.3	203	0.002	1.19	21.9	35.6	4	2.3	105.0	1.81	<0.05	3.3	2.02	1.60	0.8
SL- 96		23.7	156.0	<0.002	0.53	37.5	32.0	4	1.9	201	1.42	<0.05	2.7	1.810	1.71	0.6
SL- 97		89.8	244	0.002	3.82	27.8	37.5	4	2.3	91.0	1.70	<0.05	3.2	2.12	1.74	0.7
SL- 98		89.0	204	0.002	2.53	28.7	44.8	5	2.7	163.0	1.92	<0.05	3.9	2.39	2.71	0.9
SL- 99		30.6	129.5	0.002	0.11	22.4	35.1	4	2.2	216	1.47	<0.05	3.4	1.985	2.30	1.0
SL- 100		20.6	79.2	0.002	0.78	1.16	19.2	2	1.4	326	0.51	4.45	3.4	0.575	0.86	0.9
SL- 101		1195	75.4	0.002	4.17	24.8	37.9	4	2.0	223	1.29	<0.05	1.8	2.24	3.83	0.4
SL- 102		455	125.5	<0.002	3.22	20.2	38.0	4	1.9	200	1.26	<0.05	1.8	2.16	2.22	0.5
SL- 103		402	212	0.002	4.83	23.1	38.7	4	2.0	75.5	1.28	<0.05	1.7	2.28	2.72	0.3
SL- 104		152.0	242	0.002	0.91	28.8	44.4	4	2.2	177.5	1.42	<0.05	2.0	2.50	3.23	0.5
SL- 105		81.7	101.5	0.002	2.04	23.4	42.7	4	2.1	252	1.43	<0.05	2.0	2.51	2.14	0.5
SL- 106		75.5	223	<0.002	0.03	23.9	37.7	4	2.4	190.5	1.62	<0.05	2.8	2.23	1.10	0.9
SL- 107		47.5	252	<0.002	0.12	15.80	38.0	4	2.4	113.0	1.60	<0.05	2.5	2.25	1.84	0.7
SL- 108		71.7	153.5	<0.002	0.37	12.80	35.8	4	3.4	139.5	1.37	<0.05	2.4	1.945	1.20	0.8
SL- 109		75.4	254	0.002	4.39	20.2	40.4	5	3.1	89.2	1.91	<0.05	3.3	2.33	1.89	2.7
SL- 110		83.8	162.5	<0.002	1.77	13.10	31.5	4	2.4	63.1	1.50	<0.05	2.6	1.820	1.22	0.8
SL- 111		26.7	12.0	<0.002	0.01	19.90	19.3	2	1.2	205	0.86	<0.05	1.7	1.090	0.18	0.5
SL- 112		41.1	196.0	0.002	0.83	21.7	21.0	4	9.8	74.0	3.52	<0.05	13.4	1.140	2.09	3.1
SL- 113		43.7	211	0.002	0.39	37.2	6.3	4	15.7	69.1	5.84	0.05	24.2	0.304	2.73	5.3
SL- 114		24.6	241	<0.002	0.49	28.8	15.1	3	8.9	88.8	3.24	<0.05	15.2	0.620	2.66	3.3
SL- 115		23.7	289	0.002	4.18	72.5	29.4	4	8.6	157.0	3.12	<0.05	13.4	1.165	4.88	3.9
SL- 116		16.7	114.0	0.002	1.08	193.0	29.2	4	9.4	135.5	3.35	<0.05	13.9	1.170	2.38	4.2
SL- 117		17.8	74.8	0.002	1.48	63.0	25.8	3	8.8	127.5	3.75	<0.05	9.4	1.160	3.56	4.2
SL- 118		19.3	153.0	0.002	1.53	61.0	30.4	4	8.8	132.0	3.75	<0.05	14.1	1.190	3.85	4.7
SL- 119		61.4	147.0	0.002	1.92	64.0	29.6	3	7.2	150.0	3.21	<0.05	13.0	1.135	2.61	3.6
SL- 120		128.5	181.0	0.002	5.59	74.1	31.8	3	7.4	96.2	2.12	0.08	6.1	1.350	5.69	2.4
SL- 121		17.4	228	0.002	4.13	103.5	34.8	3	3.3	78.7	1.87	<0.05	6.1	1.400	3.50	2.0
SL- 122		11.7	272	0.002	3.79	25.8	37.0	3	4.1	79.9	1.84	<0.05	6.7	1.480	3.38	2.4
SL- 123		18.7	261	0.002	2.83	18.25	36.4	4	4.6	74.2	1.95	<0.05	8.2	1.415	3.45	2.6
SL- 124		138.5	223	0.002	1.30	22.3	16.1	3	8.0	67.5	3.38	<0.05	14.3	0.594	2.26	3.2
SL- 125		21.5	64.8	0.003	0.74	1.06	19.7	2	1.3	327	0.58	4.40	3.4	0.566	0.90	1.1
SL- 126		18.6	269	0.002	2.49	18.00	23.5	4	9.1	73.9	3.98	<0.05	18.0	0.969	1.95	3.7
SL- 127		279	242	0.002	3.14	22.2	19.4	4	7.7	76.0	3.82	<0.05	15.3	0.825	3.48	3.5
SL- 128		475	242	0.002	2.84	26.2	6.8	4	13.8	61.4	5.99	0.05	26.0	0.298	3.32	5.4
SL- 129		622	200	0.003	1.06	31.1	0.5	4	16.5	72.5	6.71	0.06	26.5	0.060	2.19	6.0
SL- 130		504	300	0.002	0.70	24.2	0.6	5	20.3	59.4	9.02	0.07	35.1	0.081	1.84	9.2
SL- 131		570	295	0.002	0.78	28.6	0.4	4	17.0	63.0	7.83	0.06	27.8	0.065	2.03	7.3
SL- 132		505	295	0.003	0.87	28.2	0.4	4	18.0	69.5	8.04	0.07	30.6	0.070	2.15	7.5
SL- 133		506	340	0.003	0.86	26.6	0.5	5	24.6	65.8	10.05	0.08	35.0	0.088	2.63	8.2
SL- 134		1015	285	0.002	1.17	39.1	0.3	5	18.7	79.1	6.54	0.05	24.8	0.061	1.82	6.4

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Project: SUGARLOAF

CERTIFICATE OF ANALYSIS VO11247069

Sample Description	Method Analyte Units LOR	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
SL- 95		258	11.1	55.3	183	314
SL- 96		232	6.1	47.4	154	282
SL- 97		254	11.7	57.5	188	338
SL- 98		382	24.9	89.4	186	389
SL- 99		288	12.2	48.7	177	286
SL- 100		141	2.0	17.3	114	100.5
SL- 101		409	19.0	45.0	292	251
SL- 102		580	38.6	46.2	197	245
SL- 103		791	61.4	39.3	156	252
SL- 104		689	43.6	52.3	233	287
SL- 105		553	17.8	49.0	279	282
SL- 106		382	13.2	54.3	211	334
SL- 107		427	17.4	53.8	162	333
SL- 108		484	14.7	49.0	179	297
SL- 109		1820	23.5	68.7	182	386
SL- 110		315	17.2	49.3	177	311
SL- 111		183	5.1	29.3	182	189.5
SL- 112		212	11.3	76.9	136	329
SL- 113		52	19.2	118.0	159	408
SL- 114		73	16.0	80.9	118	250
SL- 115		195	24.0	72.6	167	212
SL- 116		229	18.0	80.4	136	217
SL- 117		241	27.9	58.2	151	242
SL- 118		244	28.8	69.9	161	243
SL- 119		227	19.3	68.5	136	226
SL- 120		247	52.8	50.6	205	225
SL- 121		275	30.1	47.6	126	217
SL- 122		294	38.3	57.8	97	229
SL- 123		295	32.9	56.9	102	229
SL- 124		161	10.5	70.0	98	273
SL- 125		145	2.0	18.0	118	112.0
SL- 126		187	6.1	83.9	134	302
SL- 127		156	11.7	93.8	97	372
SL- 128		101	10.8	113.0	375	387
SL- 129		49	1.5	131.5	597	405
SL- 130		28	1.6	181.5	506	>500
SL- 131		45	1.7	123.5	390	445
SL- 132		59	1.5	137.5	484	490
SL- 133		51	1.7	173.5	609	>500
SL- 134		53	1.4	137.5	347	414

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Project: SUGARLOAF

CERTIFICATE OF ANALYSIS VO11247069

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA24 Au ppm 0.005	ME- MS61 Ag ppm 0.01	ME- MS61 Al % 0.01	ME- MS61 As ppm 0.2	ME- MS61 Ba ppm 10	ME- MS61 Be ppm 0.05	ME- MS61 Bi ppm 0.01	ME- MS61 Ca % 0.01	ME- MS61 Cd ppm 0.02	ME- MS61 Ce ppm 0.01	ME- MS61 Co ppm 0.1	ME- MS61 Cr ppm 1	ME- MS61 Cs ppm 0.05	ME- MS61 Cu ppm 0.2
SL- 135		2.01	<0.005	0.53	5.78	195.5	280	8.38	0.16	0.73	1.50	115.0	1.1	3	25.9	514
SL- 136		1.73	<0.005	0.35	5.19	91.5	150	7.78	0.18	0.71	1.05	85.4	0.7	2	29.2	204
SL- 137		2.11	<0.005	0.25	5.85	51.1	100	8.05	0.23	1.57	0.18	108.5	2.1	5	85.4	25.6
SL- 138		2.16	<0.005	0.17	8.26	13.6	170	3.08	0.06	6.67	0.15	41.5	44.5	77	16.45	40.2
SL- 139		2.07	<0.005	0.45	7.62	43.0	130	7.27	0.38	2.56	0.21	68.1	17.6	24	81.1	19.3
SL- 140		2.08	<0.005	0.31	7.00	22.7	120	7.16	0.29	3.93	0.22	66.3	21.7	32	57.3	18.7
SL- 141		2.22	<0.005	0.24	6.39	14.1	140	7.94	0.36	1.77	0.11	81.4	14.4	29	52.5	15.6
SL- 142		2.01	<0.005	0.33	6.97	14.1	780	4.47	0.18	4.09	0.21	50.4	20.0	86	47.1	94.7
WJ- 1		1.44	<0.005	0.35	8.48	36.4	440	2.93	0.34	1.20	2.26	104.0	7.0	21	5.00	48.6

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Project: SUGARLOAF

CERTIFICATE OF ANALYSIS VO11247069

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
SL- 135		1.32	44.9	0.25	17.1	0.129	2.69	51.3	65.8	0.28	169	4.64	0.56	102.5	0.9	10
SL- 136		1.20	39.9	0.22	15.3	0.116	1.55	44.3	71.8	0.35	152	1.80	0.76	89.3	0.4	10
SL- 137		1.23	34.8	0.25	18.1	0.139	1.64	49.4	74.9	0.51	228	1.40	0.93	103.5	1.0	30
SL- 138		8.75	22.1	0.25	4.5	0.078	0.47	19.2	101.0	3.52	1490	0.69	1.73	16.0	78.2	1450
SL- 139		5.12	31.4	0.22	12.6	0.153	2.25	30.9	74.8	2.01	685	0.43	0.22	101.5	23.5	790
SL- 140		5.11	27.3	0.23	9.5	0.120	2.04	29.8	74.7	2.07	939	0.44	0.20	68.8	30.0	990
SL- 141		2.98	26.4	0.22	10.3	0.127	1.80	36.0	77.4	1.74	537	0.28	0.30	65.3	22.1	510
SL- 142		4.68	22.1	0.21	7.3	0.086	1.91	21.9	50.3	1.71	685	0.34	0.21	41.6	47.0	890
WJ- 1		4.71	21.5	0.30	12.7	0.122	4.05	47.9	11.9	0.32	476	10.95	3.25	32.3	9.7	2120

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CERTIFICATE OF ANALYSIS VO11247069

Sample Description	Method Analyte Units LOR	ME- MS61 Pb ppm 0.5	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.2	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02	ME- MS61 U ppm 0.1
SL- 135		486	198.5	0.008	0.99	54.7	0.3	5	16.0	84.0	6.49	0.05	24.2	0.061	1.90	6.2
SL- 136		882	143.5	0.003	0.83	34.8	0.3	4	14.7	102.5	5.98	<0.05	18.2	0.053	1.31	4.7
SL- 137		309	174.0	0.003	0.33	24.1	0.4	4	17.4	88.1	7.06	0.07	23.8	0.061	1.89	5.8
SL- 138		15.5	42.3	<0.002	<0.01	9.45	31.0	3	2.1	345	1.08	<0.05	2.1	1.285	0.56	0.5
SL- 139		20.4	226	0.002	0.01	11.15	12.2	4	19.7	95.0	7.04	<0.05	25.7	0.653	3.06	4.1
SL- 140		17.5	221	0.002	<0.01	5.01	16.6	4	12.5	102.5	4.79	<0.05	16.9	0.827	3.09	4.6
SL- 141		12.5	178.0	<0.002	<0.01	3.45	9.8	3	12.5	74.0	4.30	<0.05	18.0	0.453	1.72	4.9
SL- 142		13.5	172.5	<0.002	0.03	15.20	18.8	3	7.1	91.6	2.77	<0.05	9.6	0.860	2.19	3.4
WJ- 1		292	187.0	<0.002	4.47	2.36	16.4	3	3.1	150.5	1.77	<0.05	6.4	0.834	1.32	2.1

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CERTIFICATE OF ANALYSIS VO11247069

Sample Description	Method Analyte Units LOR	ME- MS61 V ppm I	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
SL- 135		56	1.6	141.5	192	411
SL- 136		45	1.1	109.5	107	365
SL- 137		39	0.9	130.5	94	403
SL- 138		282	0.9	38.6	129	170.5
SL- 139		154	1.2	106.0	116	274
SL- 140		149	1.1	79.2	150	234
SL- 141		83	1.2	82.1	116	271
SL- 142		140	8.1	61.2	115	198.5
WJ- 1		66	3.3	45.2	508	>500

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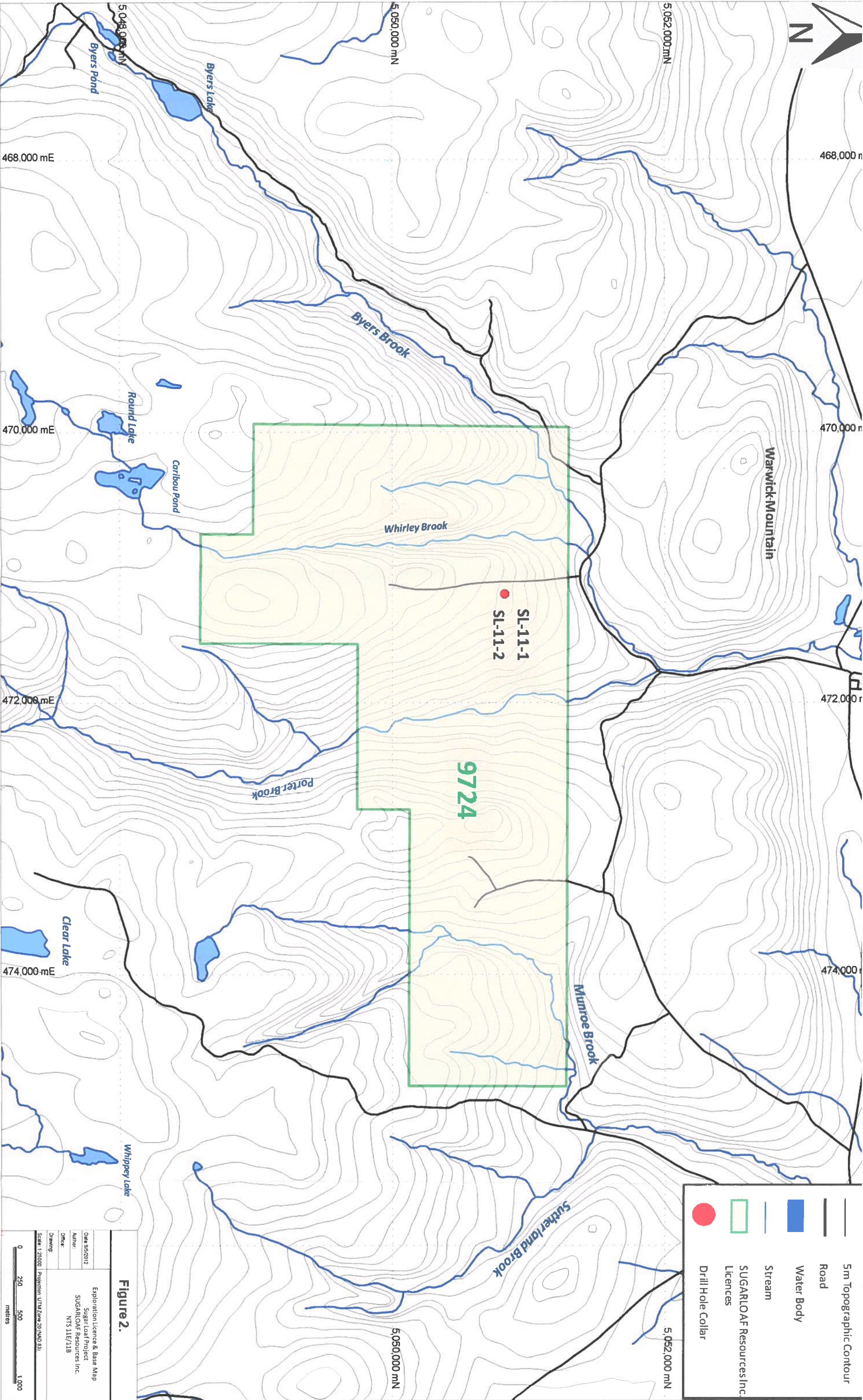
To: WITCH S GLEN GOLD INC.
SUITE 820 - BEDFORD
BEDFORD NS B4A 1E6

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 26- DEC- 2011
Account: WITGOL

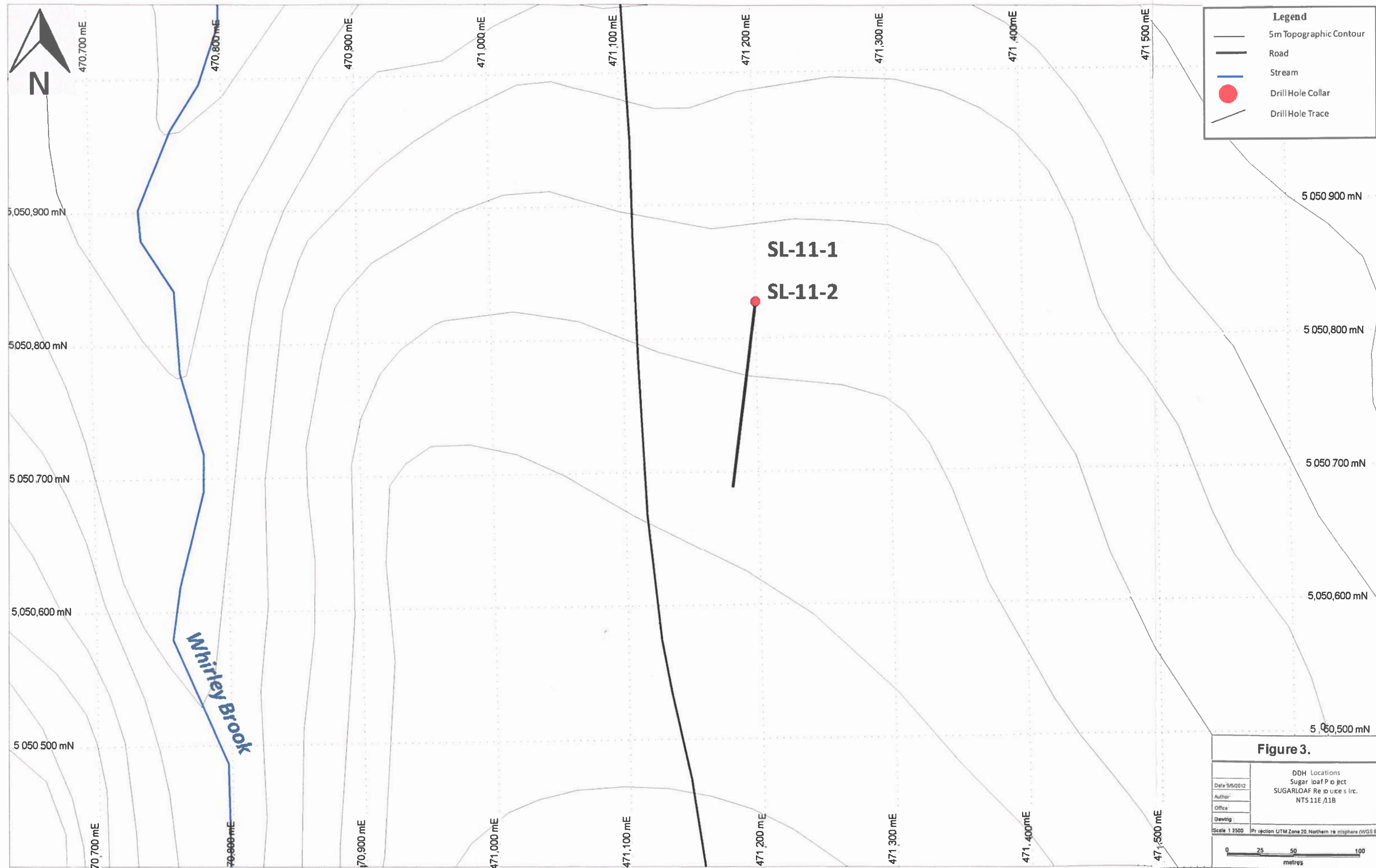
Project: SUGARLOAF

CERTIFICATE OF ANALYSIS VO11247069

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca> 10% on ICP- MS As,ICP- AES results shown. REE's may not be totally soluble in this method.



AR2012-077



Form 10 - Statement of Assessment Work Expenditure
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)

Re: Licence No. 09724 Date of issue 11 May, 2011

R

Type of Work		Amount Spent
1. Prospecting	_____ days	
2. Geological mapping	_____ days	
3. Trenching/stripping/refilling	_____ m ² / _____ m ³	
4. Assaying & whole rock analysis	143 core #	7,654
5. Other laboratory	_____ #	
6. Grid:		
(a) Line cutting	_____ km	
(b) Picket setting	_____ km	
(c) Flagging	_____ km	
7. Geophysical surveys		
Airborne:		
(a) EM/VLF	_____ km	
(b) Mag or Grad	_____ km	
(c) Radiometric	_____ km	
(d) Combination	_____ km	
(e) Other _____	_____ km	
8. Geophysical surveys		
Ground:		
(a) EM/VLF	_____ km	
(b) Seismic soundings	_____ #	
(c) Magnetic/telluric	_____ km	
(d) IP/resistivity	_____ km	
(e) Gravity	_____ km	
(f) Other _____	_____ km	
9. Geochemical surveys		
(a) Lake, stream, spring		
(i) Water	_____ samples	
(ii) Sediments	_____ samples	
(b) (i) Rock	_____ samples	
(ii) Core	_____ samples	
(iii) Chips	_____ samples	
(c) (i) Soil	_____ samples	
(ii) Overburden	_____ samples	
(d) Gas	_____ samples	
(e) Biogeochemistry	_____ samples	
(f) Sample collection	_____ days	
(g) Other _____		
10. Drilling:		
(a) Diamond (# holes/m)	2 / 388 m	44,499
(b) Percussion (# holes/m)	_____ / _____ m	
(c) Rotary (# holes/m)	_____ / _____ m	
(d) Auger (# holes/m)	_____ / _____ m	
(e) Reverse circulation (# holes/m)	_____ / _____ m	
(f) Logging, supervision, etc.	54 days	19,212
(g) Sealing (# holes)	_____ #	
11. Other (describe)		
Subtotal		71,365
Overhead costs		
12. Secretarial services		
13. Drafting services		
14. Office expenses (rent, heat, light, etc.)		7,136
15. Field supplies		
16. Compensation paid to landowners	200.00	200.00
17. Legal fees		
18. Other (describe)		
Subtotal		7,336
Grand total		78,701

78,501

10% Maximum

6936

7136

78,501

[illegible]

As President I am duly authorized to make this certification.
(position in company or licensee)

Name and address of licensee: Sugarloaf Resources Inc., 549 Waymell
Lake Drive, Suite 513, Halifax, NS B3S 0E6

Signature Robert A. Kneib

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