# Diamond Drilling Assessment Report for the 2008 Program at the Alexis Property

BC Geological Survey Assessment Report

Cariboo Mining Division, BC NTS MAP SHEET 93B, C and F 52º 47' North Latitude, 123º 58' West Longitude UTM Coordinates of 434783 mE, and 5849486 mN, Zone 10

FOR

GMV Minerals Inc. 202 – 750 West Pender Street Vancouver, BC V6C 2T7

BY

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DATE

September 18, 2008

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## 1. Summary

This Alexis property is comprised of 55 contiguous mineral claims all of which are owned (100%) by GMV Minerals Inc, located in the Cariboo Mining Division. The property is centred at 52° 47' 00" North Latitude and 123° 58' 00" West Longitude located approximately 75 kilometres northwest of Alexis Creek, BC and 134 kilometres west-northwest of Williams Lake, BC., in the central Cariboo-Chilcotin region. The nearby communities of Riske Creek and Alexis Creek can provide limited heavy equipment and general a labour supply, the City of Williams Lake can provide all necessary equipment and personnel for advanced exploration and development as it is the main service and supply centre for the currently operating Gibraltar and Mt. Polly open pit mines.

The terrain is gently rolling hills with alluvium filled valley and swamps. Water is available from various small lakes and creeks throughout the claims. Vegetation is mostly pine forest that has suffered severe devastation from the infestation of Mountain Pine Beetle. The valleys contain alder, willow and minor birch and poplar. The climate is typical of the interior plateau, with long cold winters and relatively short, hot summers. Assess is excellent via a multitude of both primary and secondary logging roads that transect the property.

The 2008 exploration program, conducted under Mineral Exploration Permit #MX-11-208 consisted of camp construction and diamond drilling. The old camp used in 2006 was refurbished, and the drilling comprised 4 NQ-size holes totaling 774.50 metres drilled from 3 different setups; at a total cost of \$317,946.88. The expenditures from this program have been applied to the property as assessment credits and the property reduced to its current size of 55 mineral claims. The work program commenced on March 1, 2008 with the camp construction, drilling commenced on March 4, 2008 and finished on March 22, 2008 with the drill demobilization. Camp demobilization was completed a few days later. The camp was revisited in August 2008 for a final cleanup of any loose debris and the tent frames were dismantled and the wood removed from site.



Figure 1. Location Map

### 2. Claim Status

The Alexis property is comprised of 55 contiguous mineral claims encompassing an area of 26,420.099 hectares, located in the Cariboo Mining Division and owned (100%) by GMV Minerals Inc. (Figure 2) The property has been reduced to 55 mineral claims and assessment credit has been applied to the property on the basis of this report. The claims lie on 1:250,000 NTS map sheets 093B, 93C and 093F, centred at approximately 52°47' North Latitude and 123°58' West Longitude with UTM coordinates, NAD 83, Zone 10 of 434,783 East, 5,849,486 North on TRIM sheets 093B.051, 093B.061, 093B.071, 093B.081, 093C.090, 093C.100 and 093F.010. The claim details are shown in Table 1 - Alexis Property Claim Status.

Tenure #	Claim Name	Owner	Map #	Good To Date	Area
534951	ALEXIS 1	GMV Minerals	093B	2009/jun/15	486.478
534972	ALEXIS 19	GMV Minerals	093B	2009/jun/15	486.706
535092	ALEXIS 34	GMV Minerals	093B	2009/jun/15	486.684
535094	ALEXIS 35	GMV Minerals	093C	2009/jun/15	486.694
535096	ALEXIS 36	GMV Minerals	093C	2009/jun/15	389.366
535097	ALEXIS 37	GMV Minerals	093C	2009/jun/15	486.947
535099	ALEXIS 38	GMV Minerals	093C	2009/jun/15	486.931
535100	ALEXIS 39	GMV Minerals	093B	2009/jun/15	486.924
535101	ALEXIS 40	GMV Minerals	093C	2009/jun/15	487.189
535104	ALEXIS 41	GMV Minerals	093C	2009/jun/15	487.173
535108	ALEXIS 42	GMV Minerals	093B	2009/jun/15	487.161
535110	ALEXIS 43	GMV Minerals	093C	2009/jun/15	487.496
535111	ALEXIS 44	GMV Minerals	093C	2009/jun/15	487.495
535113	ALEXIS 45	GMV Minerals	093B	2009/jun/15	487.493
535114	ALEXIS 46	GMV Minerals	093C	2009/jun/15	487.728
535116	ALEXIS 47	GMV Minerals	093C	2009/jun/15	487.727
535117	ALEXIS 48	GMV Minerals	093B	2009/jun/15	487.726
535118	ALEXIS 49	GMV Minerals	093C	2009/jun/15	487.96
535120	ALEXIS 50	GMV Minerals	093C	2009/jun/15	487.959

**Table 1. Alexis Property Claim Status** 

Tenure #	Claim Name	Owner	Map #	Good To Date	Area
535211	ALEXIS 51	GMV Minerals	093B	2009/jun/15	487.958
535229	ALEXIS 60	GMV Minerals	093B	2009/jun/15	486.936
535247	ALEXIS 68	GMV Minerals	093B	2009/jun/15	487.165
535423	ALEXIS 76	GMV Minerals	093B	2009/jun/15	487.489
535431	ALEXIS 83	GMV Minerals	093B	2009/jun/15	487.722
535441	ALEXIS 91	GMV Minerals	093B	2009/jun/15	487.954
535451	ALEXIS 99	GMV Minerals	093B	2009/jun/15	488.187
535477	ALEXIS 114	GMV Minerals	093B	2009/jun/15	488.433
535491	ALEXIS 126	GMV Minerals	093B	2009/jun/15	488.665
535590	ALEXIS 170	GMV Minerals	093B	2009/jun/15	469.363
535601	ALEXIS 180	GMV Minerals	093B	2009/jun/15	488.897
535602	ALEXIS 181	GMV Minerals	093B	2009/jun/15	489.129
535603	ALEXIS 182	GMV Minerals	093B	2009/jun/15	489.364
535604	ALEXIS 183	GMV Minerals	093B	2009/jun/15	489.597
535605	ALEXIS 184	GMV Minerals	093B	2009/jun/15	391.845
536085	ALEXIS 236	GMV Minerals	093C	2009/jun/15	447.594
536086	ALEXIS 237	GMV Minerals	093C	2009/jun/15	486.277
536087	ALEXIS 238	GMV Minerals	093F	2009/jun/15	466.836
536088	ALEXIS 239	GMV Minerals	093F	2009/jun/15	466.861
536089	ALEXIS 240	GMV Minerals	093F	2009/jun/15	486.047
536090	ALEXIS 241	GMV Minerals	093F	2009/jun/15	486.083
536091	ALEXIS 242	GMV Minerals	093F	2009/jun/15	486.106
536102	ALEXIS 249	GMV Minerals	093C	2009/jun/15	486.77
538462	ALEXIS 261	GMV Minerals	093B	2009/jun/15	490.016
538498	ALEXIS 271	GMV Minerals	093B	2009/jun/15	490.249
538499	ALEXIS 272	GMV Minerals	093B	2009/jun/15	490.251
538500	ALEXIS 273	GMV Minerals	093B	2009/jun/15	490.252
538501	ALEXIS 274	GMV Minerals	093B	2009/jun/15	490.252
538506	ALEXIS 277	GMV Minerals	093B	2009/jun/15	490.482
538508	ALEXIS 279	GMV Minerals	093B	2009/jun/15	490.715
538511	ALEXIS 282	GMV Minerals	093B	2009/jun/15	490.948
538520	ALEXIS 289	GMV Minerals	093B	2009/jun/15	470.842
538521	ALEXIS 290	GMV Minerals	093B	2009/jun/15	431.58

			Map #	Good To Date	Area
538522	ALEXIS 291	GMV Minerals	093B	2009/jun/15	470.998
538523	ALEXIS 292	GMV Minerals	093B	2009/jun/15	471.133
538524	ALEXIS 293	GMV Minerals	093B	2009/jun/15	471.266

26420.099



Figure 2. Claim Map

## 3. Location and Access

The property is located approximately 75 kilometres northwest of Alexis Creek, BC and 134 kilometres west-northwest of Williams Lake, BC, in the central Cariboo-Chilcoton region. There are two main access roads to the property and area of drilling, both of which originate off of Highway #20.

From Williams Lake, at the junction of Highways #97 and #20, travel west for approximately 60 kilometres along highway #20 to the junction with the Alex Graham-Raven Lake Forest Service Road, also known as the "1300" road. Head north-westerly along the 1300 road for approximately 46 kilometres to the junction with the "4600" road. From this junction follow the 4600 road a further 86 kilometres to kilometre marker 86, which is the site of the field camp. Local secondary skid roads some 500 to 2000 metres south of the field camp provide access to large cut blocks from which the drilling was conducted. An alternative access can be gained by following Highway #20 for about five kilometres west of Alexis Creek, to the Alexis Lakes Road. The Alexis Lakes Road joins the 4600 road in approximately 30 kilometres of travel. From here, follow the 4600 road to the field camp.

## 4. History

The Chilcotin region of British Columbia has undergone various levels of exploration since the 1890's. The Black Dome mine was discovered by Barrier Reef Resources in 1979. In 1980 E&B Exploration was actively searching the belt for epithermal-style deposits concentrating on the Watson Bar property. From 1980 to 1988 Dome Exploration conducted regional reconnaissance throughout several NTS mapsheets in the region. A major oil and gas exploration program was conducted by Canadian Hunter Exploration Ltd. from 1979-1983. Several deep (greater than 10,000 feet) holes were drilled to test the underlying stratigraphy.

In the Alexis area, the first recorded exploration was conducted in 1985 by Rio Algom on the O'Boy claims. Property exploration was focused on a local area culminating in a diamond drill program in 1987. Eighty-Eight Resources Ltd. staked the Clisbako claims in 1989 and optioned the property to Minnova Inc. in 1991. Over their two-year option period Minnova spent in excess of one million dollars conducting geological and geophysical surveys, trenching and diamond drilling. In 1992 Phelps Dodge Corporation of Canada Limited staked the Baez 1 to 15 claims and expanded the property by staking the Baez 16 to 24 claims in 1993. Phelps Dodge had two airborne geophysical surveys, trenching and diamond drilling.

The most recent work was completed in 2006 by United Exploration Management Inc. (UEMI), prior to their vending of the property to GMV Minerals. In 2006 UEMI completed 103 line-kilometres of grid at a 200 metre line spacing and completed 3D Induced Polarization survey over the grid. This work formed the basis of drill hole target selection by GMV Minerals.

## 5. Geologic Setting

#### 5.1 Regional Geology

The Tertiary geologic elements of the Nechako Plateau area are part of a regional extensional system that extends from the Republic area of northern Washington

State, northwesterly for some 1000 kilometres into the Babine district of north central British Columbia. This belt trends northwest with the approximate dimensions of 1000 X 200 kilometres. It crosses all major terrane boundaries and underlies the Quesnel, Kootenay and Omineca Terranes in the south and the Stikine Terrane in the north, crossing the oceanic Cache Creek Group. It overlaps the southern margin of the Bowser Basin where it continues northward as a thin strip along the eastern margin of the Coast Range.

Stratigraphic and intrusive rocks in the Stikine Terrane range in age from Paleozoic to Pleistocene (Figure 3). With respect to the Eocene mineral setting, the geologic elements of the Stikine Terrane may be divided into three separate packages: basement rocks, latest Upper Cretaceous-Eocene rocks associated with mineralization, and cover rocks.

#### 5.2 Property Geology

The Alexis property is underlain by an area of very low relief. Hilly topography underlies the northern and southern part of the claims with the central part of the claim of very limited topographic relief. Exposures are limited to the crests of hills as roche moutonnée, in logging slashes and along the edges of former outwash channels. The majority of the outcrop occurs in the hilly northern and southern parts (Figure 4). Nowhere on the claims is outcrop continuous and contacts were never seen.

The property lies within the central part of a large-scale (60 kilometre diametre) basalt, andesite and felsite volcanic caldera complex, the Mount Dent Caldera. Three main rock types present as exposure are felsic volcanics, andesites and basalts, the latter correlated with the plateau lavas of the Chilcotin Group. Both felsic and andesitic volcanics may be correlated with the Ootsa Lake and the Endako Group to the north or the Kamloops Group to the southeast, all of Eocene age. Although there is no direct age control on the volcanics within the property, palynomorphs from tuffaceous, lacustrine moat assemblages within the Mount Dent complex indicate a Late Palaeocene to Middle Eocene age (J. White, ASPG, pers. comm.), and K/Ar age dates of 46-50 Ma from the Nazko are, some 40-50



Figure 3. Regional Geology



Figure 4. Property Geology Map

kilometres to the northeast, indicate an early Middle Eocene age (Rouse and Mathews, 1988).

No stratigraphic relationships are exposed on the property. The youngest strata on the claims are the basalts of the Chilcotin Group that occur as very limited exposures mainly in the central, lowland part of the claims and appear to represent valley-fill plateau lavas. The felsic and andesitic volcanics appear to be cogenetic. The strata appear to have been little deformed and reasonably flat-lying. At the southwestern and northeastern corner of the claims, rhyodacitic volcanics are topographically lower than andesites and may suggest that felsite volcanism precedes andesitic volcanism. At the apex of a prominent hill in the northern part of the claim, a northeasterly elongate ridge of quartz-eye, biotite feldspar porphyry appears to be a dyke crosscutting andesites. These apparent contradictory age relationships between felsite and andesite suggest the possibility of two ages of felsite.

#### 5.2.1 Endako Group

The andesites of the Endako Group comprise the dominant lithologies on the property. Three separate assemblages are noted, in speculated stratigraphic order from the base, aphyric basalt, augite-feldspar porphyry basalt andesite and fine-grained, trachytic andesite. All the rocks are flows and flow breccias. Very minor intercalated volcanic sediments, composed entirely of andesite clasts, were noted. No bedding contacts were noted.

In the southern part of the property, the upper parts of the hills are underlain by fine-grained, platy fractured, grey to reddish, aphyric microporphyritic feldspar andesite with a fine trachytic matrix. Common areas of reddish coloured, highly vesiculated andesite are probable flow top breccias. This rock unit was noted only in the southern part of the claims, and underlies the area extending from east of Maxwell Creek to the west side of the claims.

Underlying much of the low hills in the south central part of the property is a black, grey to red, feldspar and augite phyric andesite/dacite with a glassy matrix. The

porphyry units are massive to platy with a weakly developed flow lamination, marked by streaky reddish oxidized wisps, and are commonly vesicular to highly scoriaceous. A similar suite of feldsparaugite phyric andesite/dacite underlays the prominent hilly topography in the northern part of the property. A third area of exposure of the feldspar-augite phyric andesite occurs along the central part of the east boundary of the property. Textures range from crowded porphyry to sparsely porphyritic varieties that differ only in the relative percentage of phenocrysts. The similar textures and chemistry of these rocks in both the south, north and east part of the property suggests that they may represent a single unit composed of multiple flows and flow breccias. In two localities there are outcrops of friable sandstone and sharpstone pebble conglomerate composed of red, grey and black clasts of feldsparaugite phyric and aphyric andesite. These highly friable and recessive units are, where noted, zeolitized and likely represent fluvial reworking of the intercalated flow top breccia units.

Areas of generally lower topography in the central part of the property appear to be underlain by a suite of aphyric to weakly porphyritic andesite flow and flow breccias. Red and dark grey, unsorted breccias with vesicular to scoriaceous lapilli to blocks (2 metres in diametre) are the dominant lithology. Coarsest grained breccias were noted in exposures near the west boundary of the property. This assemblage is similar to facies associated with andesitic tephra cones. Rocks from this unit are aphyric to sparsely feldspar phyric with a fine-grained matrix composed of finely felted feldspar. Near the central part of the western border of the property, proximal float of greenish, immature andesite-dacite clast conglomerate and sandstone indicate the presence of fluvial reworking of the andesitic rocks.

#### 5.2.2 Ootsa Lake Group

Felsic volcanics are distributed throughout the property and include dykes, domes, flows, and breccias. Two ages may be present, a lower volcanic unit and a younger intrusive unit.

In the southwest corner of the property, a series of small exposures comprise reddish to mauve hornblende-feldspar phyric ash flow tuffs. These rocks are associated with aphyric, highly vesicular dark grey volcanics with a glassy, partly devitrified matrix. These rocks may be interpreted to underlie the augite-feldspar phyric dacites. In the eastern part of the property, widely spaced exposures of rhyodacite and rhyolite were noted. An isolated exposure in the southeast central area comprised reddish-white, weakly flow laminated feldspar, quartzeye, biotite rhyolite. Similar rocks underlie a small hill in the northeast corner of the property. In both these areas, the units are probably extrusive.

A small outcrop of aphyric, platy, flow banded, glassy matrix rhyolite is exposed on the southwest corner of a small lake in the northeastern part of the area. Shallow flow banding suggests a possible extrusive but is inconclusive.

Quartz-biotite-feldspar rhyolites are exposed in the northwest and southeast portions of the map area. In the northwest area, five small exposures of this white, cream to yellowish, quartz phyric unit are exposed in a linear N30° trend over a strike length of some 4 kilometres that is suggestive of a dyke-like body. Atop the main hill in the north part of the property, this unit is exposed as a 20-metre wide low ridge, traceable for some 300 metres and there appears as a dyke intrusive into feldspar-augite andesite/dacite. To the north, exposures of this unit are locally brecciated with fine opaline silica fillings. At the most northerly exposures of these rocks, adjacent aphyric andesites are bleached.

To the immediate northwest of the property, at the head of a distinctive canyon, felsic breccias and flow units are exposed. Most prominent are coarse breccias with clasts to 2 metres of monolithic biotite, massive, plate to vesicular rhyolite breccia that form impressive hoodoo weathering cliff faces. Interbedded are glassy matrix, perlitic fractured trachytic feldspar-augite felsite with shallow dipping flow banding. Two and one-half kilometres to the south, to the immediate west of the property, a well defined knob is underlain by relatively homogenous, blocky to platy, light grey biotite-feldspar-quartz eye rhyolite that is most plausibly an intrusive dome.

Along and to the immediate east of the east central boundary of the claim, felsic rocks include both feldspar-biotite and feldspar-biotite-smoky quartz phyric units. The latter units are cream, white to pinkish, flow banded, massive to breccias, commonly with local kaolinitic alteration and lithophysae patches. Here, the rhyolite breccia units contain clasts of feldspar-augite phyric andesite. The quartz phyric felsites appear to overlie the biotitefeldspar phyric felsite which in turn appears to overlie andesites.

In the south-central part of the property, an arcuate linear ridge is underlain by hornblendefeldspar  $\pm$  biotite rhyolite interpreted to be a dyke intrusive into aphyric andesite.

#### 5.2.3 Chilcotin Group

The basaltic rocks of the Chilcotin Group underlie the low areas on the property and in the east central part, along and west of Maxwell Creek. The rocks are poorly exposed. The basalts are dark to light grey, fine-grained with scattered phenocrysts of feldspar and olivine. The units are commonly vesicular and, for coarser grained varieties, display a diktytaxitic texture. Boulders of the Chilcotin Group are widespread throughout the property, and the separation of glacial transported float and outcroppings may be difficult to determine.

#### 5.3 Stratigraphic Relations

The volcanic assemblages of the Alexis area comprise three volcanic episodes, commencing with felsic volcanism, followed by andesite-dacite and terminating with a felsic suite.

Earliest volcanism may be represented by hornblende phyric rhyolites noted in the southwest and eastern parts of the area. These units are overlain by a suite of andesite and dacite flows and flow breccias. Coarse grained andesite breccia units may represent relics of andesite cones. A centre of felsic volcanism appears to be exposed to the immediate north of the property in the Canyon Mountain area and to the east. These felsic volcanics and associated intrusive dome are similar to dyke-

like bodies intrusive into the andesite-dacite assemblages to the southeast. Felsite flow and flow breccia overlies the andesite suite to the eastern part of the area.

# 6. 2008 Exploration Program

The spring 2008 exploration program consisted of road plowing for site access, camp construction and four NQ-size diamond drill holes from three setups totaling 774.50 metres (Figure 5). The program focused on testing previously delineated IP geophysical targets including the following: high chargeability-low resistivity, high chargeability-moderate resistivity, and high chargeability-high resistivity. The drilling encountered difficult ground conditions in every hole caused by multiple layers of swelling clays ranging from <1 to 10's of metres thick.

All holes intersected Chilcotin Group basaltic rocks including vesicular basalt, massive grey to black basalt, fine-grained black glassy flows, crystal tuff and various clay-altered ash layers. Some of the vesicular units had vesicles infilled with various clays, unidentified zeolite minerals and agate.

Hole ALX-08-01 was collared to test a high chargeability-low resistivity target. The hole was drilled to a depth of 356.00 metres and encountered only basalt. The hole was stopped as the IP target had been tested. The clay-ash layers are a likely explanation for the conductivity response.

Holes ALX-08-02 and 03 were collared from the same setup to test a high chargeability-moderate resistivity target. Both holes were abandoned at lengths of 51.50 and 55.00 metres respectively. The rods got stuck in hole ALX-08-02 and only a portion of the rod string could be salvaged, 1.5 metres of core remains stuck in the core barrel at the bottom of the hole. A steeper angle was tried, ALX-08-03, and it encountered a sand seam at 47.00 metres downhole; no core was recovered from 47.00-50.00 metres and the hole was abandoned before the rods got stuck in the same unit that ended hole ALX-08-02.

Hole ALX-08-04 was collared to test a high chargeability-high resistivity IP target. This hole was also abandoned at 312.00 metres due to loss of water circulation and severe rod vibration. The vibration problem could not be solved and was likely caused by severe rod whip due to washed out sand seams higher up in the hole creating large voids around the rod string. This hole intersected various basaltic



Figure 5. Drill Hole Location Map

units. The chargeability response can be explained by the conductive clays, the resistivity response remains unexplained.

At this point the author's recommended that the program be abandoned. The holes had intersected only plateau lavas of the Chilcotin Group; the target andesite-rhyolite of the Endako Group was not present at shallow depths. The 350+ metre thick basalt cap precludes any reasonable chance of development should a discovery be made.

Details of drill hole collar information are included in Table 2 - 2008 Drill Hole Collar Information. Drill Logs of the holes are included as Appendix 1.

Hole_No	Purpose	Length (m)	Az	Dip	E_NAD83Z10	N_NAD83Z10	Elev
ALX-08-01	hi charge, low resis	356.00	180	-85	437625	5831193	1216.00
ALX-08-02	hi charge, mod resis	51.50	315	-50	436783	5830302	1228.00
ALX-08-03	hi charge, mod resis	55.00	315	-80	436783	5830302	1228.00
ALX-08-04	hi charge, hi resis	312.00	360	-70	436750	5830800	1228.00

Table 2. 2008 Drill Hole Collar Information

Only four samples were collected, two each from holes ALX-08-01 and 04. These samples contained a blue zeolite mineral that was analysed for possible copper content and rare earth elements (REE). Since the sample lengths were short the core was not split or sawn in half, the whole core was submitted for analysis. The samples were sent to ALS Chemex in North Vancouver and analysed for 48 elements by ICP methods using a 4-acid digestion and MS finish (method ME-MS61r). In addition gold analysis of a 30-gram pulp was completed by fire assay with an ICP-AES finish (method Au-ICP21). There were no significant results; the analytical certificate for the sampling is included as Appendix 2.

# 7. Conclusions and Recommendations

The drill program was unsuccessful in penetrating the thick, Chilcotin basalt cap rock. Upon determining the extent of the cap rock the drill program was terminated early. The Company completed four NQ-size holes totaling 774.50 metres at a total cost of \$317,946.88.

No further drilling is recommended at this time. Prospecting and mapping of the existing grid area in an effort to locate rhyolite outcrops is recommended before proceeding with any further drilling. If favourable geology can be located near surface and correlated with the existing geophysical database then future drilling may be warranted.

## 8. Statement of Costs

GMV Minerals Inc. - Alexis Project STATEMENT OF EXPENDITURES Technical Work - Drilling March 1, 2008 to May 31, 2008

PERSONNEL	# days	rate/day	Totals
W. Raven at \$425/day	1.5	425.00	637.50
W. Raven at \$475/day	12	475.00	5,700.00
R. Belanger at \$390.00/day	14	390.00	5,460.00
L. Forsyth at \$338.00/day	22	338.00	7,436.00
M. Nelson at \$364/day	13.5	364.00	4,914.00
M. Nelson at \$338/day	1	338.00	338.00
R. Braaten at \$286/day	21	286.00	6,006.00
W. Penney at \$260/day	11	260.00	2,860.00
B. Vallee at \$312/day	7	312.00	2,184.00
D. Williams at \$260/day	2	260.00	520.00
B. McMichael at \$244.40/day	3	244.40	733.20
S. Lowe at \$260/day	9	260.00	2,340.00
EIC, CCP, WCB for payroll			3,615.73
GST for Rentals + Expenses			2,041.11
Total Wages			44,785.54

EQUIPMENT RENTAL	# days	rate/day	
Project Management			1,500.00
Truck Rental at \$95/day	27	\$95	2,565.00
Truck Rental at \$95/day	25	\$95	2,375.00
ATV Rental at \$85/day	10	\$85	850.00
Snowmobile at \$85/day	13	\$85	1,105.00
Total Equipment Rental			7,290.00

**EXPENSES** 

Motel/Hotel

1,362.69

Meals	925.21
Groceries	9,913.61
Camp Supplies	8,139.03
Fuels (trucks and snowmobiles)	2,932.98
Fuels (camp and drill)	20,362.03
Field Equipment	2,372.94
Transportation (trucking equipment)	4,644.90
Word Processing and Drafting	336.47
Miscellaneous	1,195.12
Travel (ferrys, highway tolls, etc)	111.56
Vehicle repairs/supplies/parts	2,220.61
Communication	440.93
Total Expenses	54,958.08

#### **CONTRACT SERVICES**

ALS Chemex	4 samples
Core Samples	426.09
Westcore Drilling	
774.50 metres all inclusive incl. mob/demob	210,487.17
Total Contract Services	210,913.26

#### TOTAL EXPENDITURES

#### \$317,946.88

### 9. References

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## 10. Statement of Qualifications

#### 10.1 Statement of Qualifications for Wesley Raven

I, WESLEY RAVEN, of 108-1720 West 12th Avenue, Vancouver, British Columbia hereby certify:

- 1. I am a graduate of the University of British Columbia (1983) and hold a BSc. degree in geology.
- 2. I have been employed in my profession with various companies since 1983.
- 3. I am a member of the Association of Professional Engineers and Geoscientists of British Columbia, and have been registered since 1992. I am also a Fellow of the Geological Association of Canada and have been a member since 1989.
- 4. I am co-responsible for preparation of all sections of this report utilizing data summarized in the References section of this report and from onsite management of the work from March 2, 2008 to March 13, 2008.
- 5. I am the Vice-President of Exploration for GMV Minerals Inc.
- 6. I consent to the use of this report by GMV Minerals Inc. for any corporate use normal to their business.

Wesley Raven, P. Geo.

DATED at Vancouver, British Columbia, this 18th day of September, 2008

#### 10.2 Statement of Qualifications for Mark Nelson

I, MARK NELSON, of 1005 – 813 Agnes Street, New Westminster, British Columbia hereby certify that:

- 1. I am a graduate of McGill University with a degree in Geology (B.SC., 2000) and defended a Masters degree at Queen's University, Kingston, Ontario in 2007;
- 2. I have worked as a Geologist intermittently since graduation;
- 3. There are no material facts or material changes in the subject matter of this report that would mislead the reader;
- 4. I have reviewed and co-authored this report from existing public files and from my own knowledge of working on the property;
- 5. I hereby grant permission for GMV Minerals Inc. to use this report for any corporate use normal to their business.

Mark Nelson

DATED at Vancouver, British Columbia, this 18th day of September, 2008

# Appendix 1.

# Drill Logs

[ALX08-01 to ALX08-04]

	DIAMOND DRILL LOG									HOLE No.	ALX08-01					
Proper	ty: Goldm	nember - /	Alexis	NTS:	Claim:	Elevation:	: 1218 m <b>Azimuth:</b> 180°		Length: 356.00 m		<b>Dip:</b> -85°					
Coordinates: 437626 E / 5831193 N		Dip Tests:		Advance:		Depth:		Date Colla	red: 04/03/08	Date Co	mplete	ed: 08	8/03/08	3		
Purpos	es: IP Ch	nargeabilit	у	Drilled by: V	Vestcore Drilling	Assays by	: ALS Chemex		Logged by	: Wesley Raven						
Interval Rec'y			Description		Sample	Sample Inter		Core	Sample	Au	Au Ag	Cu	Со	Fe		
From	То	%		Des	Description		No.	From	То	Width	Description	ppm	ppm	ppm	ppm	%
0.00	15.75		Casing / Ove	erburden												
15.75 32.93 Basalt; ranges from vesicular to finer-grained, black, glassy flows (obsidian); some vesicles are infilled with white zeolite; generally dark greyish black with local reddish oxidation; recovery good except as noted 30.90-32.00 m: wash core, no recovery																
32.93	92.93		green to blac generally cor UC sharp at zones; whole 33.11-35.0 37.55-38.0 andesite + 38.63-41.0 49.50-49.8 angular wh 50.30~75.0 massive, h float in wat 64.09	ck basalt; unit is mpetent core ex 70° to CA; reco e unit looks like 0 m: 10-15% re 0 m: breccia wi red hematite au 0 m: 10% recov 7 m: lapilli tuff / nite frags up to 0 m: changes to omogeneous, v er 0-65.00 m: brok	ecovery th angular frags of I nd devitrified glass very ' breccia top?; no or 1.5 x 1.0 cm to brownish-black c very light (low densi	altered but s as noted; t in fault basalt and rientation to olour, ty) but won't										

#### Page 2 of 5

			DIAMOND DRILL LOG					HOLE No. ALX08-01					
Int	erval	Rec'y	Description	Sample	Inte	erval	Core	Sample	Au	Ag	Cu	Со	Fe
From	То	%	Description	No.	From	То	Width	Description	ppm	ppm	ppm	ppm	%
			76.29-77.00 m: white ash, sandy										
92.93	163.97		<ul> <li>Basalt; as described in 15.75-32.93 m; gradual transition from intensely clay altered to more solid, competent rock; green to black colour</li> <li>92.93-96.20 m: fine-gr and clay altd some soft fragments aligned @ 55° to CA</li> <li>96.20-103.93 m: gradually coarse-grained with angular</li> </ul>										
			black fragments of pumice or devitrified glass; some vesicles are infilled with softish creamy coloured zeolite? 103.93-105.74 m: fault zone; sand and clay mush; UC @										
			70° to CA 105.74 m: below this point basalt alternates from a medium-grained massive dense looking flow with diabasic (salt + pepper) texture to variably coloured (mostly reddish) vesicular basalt; some vesicles are infilled with very soft (<2) pale greenish mineral like opaline-gypsum; minor white calcareous mineral infilled vesicles in both rock types though is rare in the diabasic basalt; diabasic basalt is more competent; vesicular basalt ranges from competent to broken and crumbly; tr sulphides (py ± cpy), non-magnetic										
			106.90-107.50 m: broken and crumbly										
			120.55-120.62 m: green mineral in large vesicle?										
			123.30-125.10 m: broken and crumbly and cutting undersized core with 30% recovery										
			137.45-141.00 m: broken and crumbly vesicular basalt, local strong reddish-brown oxide staining										
			154.84-155.43 m: intense red-orange staining in volcanic breccia										

			DIAMOND DRILL LOG					HOLE No. ALX08-01					
Inte	erval	Rec'y	Description	Sample	Inte	Interval Co		Sample	Au	Ag	Cu	Со	Fe
From	То	%		No.	From	То	Width	Description	ppm	ppm	ppm	ppm	%
			158.60-163.97 m: massive basalt										
163.97	188.20		Fault Zone; host is vesicular basalt and breccia that is broken and crumbly and clay altered, very soft in core of fault zone; intervals of poor recovery from 15-60 cm per 3 m run; breccia fragments include black pumice?, massive basalt, red jasper-like fragments and some of the same green mineral in the vesicles										
188.20	191.48		Basalt; pervasive orange-red hematite staining throughout unit; flow to tuffaceous with layering at 45° to CA though locally at 10° to CA, unit is weakly magnetic										
191.48	204.31		Basalt; intermixed greyish-black basalt and brightly coloured reddish-orange stained basalt; neither unit is particularly vesicular; broken core as follows: 192.01-192.50 and 194.66-197.64 m: 50% recovery										
204.31	356.00		Vesicular Basalt to Massive; greyish-black colour, massive and homogeneous; vesicles are infilled with several different zeolites that are white, dull powder blue, and semi- translucent; some are infilled with calcite; in places the vesicles have an alteration rim of hematite?; some vesicles infilled with clear agate 211.50-214.63 m: orange stained basalt with minor chlorite 214.63-215.05 m: broken and fractured 215.05~221.00 m: 1% white veins (anhydrite?) at 25° + 55° to CA; <1 to 3 mm wide, same mineral present as tension gash infill										
			221.20-224.00 m: has broken sections with 50% recovery in interval										

Page	4 of	f 5
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			DIAMOND DRILL LOG					HOLE No. ALX08-01						
Inte	erval	Rec'y	Description	Sample	Interval		Core	Sample	Au	Ag	Cu	Со	Fe	
From	То	%	Description	No.	From	То	Width	Description	ppm	ppm	ppm	ppm	%	
			239.64-242.57 m: moderately broken and fractured											
			247.34 m: pumice frags impart fol. @ 75° to CA											
			248.55-249.95 m: reddish-brown vesicular flow with brecciated contacts over 2 cm at 45° to CA											
			255.41 m: bedding @ 40° to CA											
			259.83~262.00 m: fractured and pitted to vuggy; the vugs are lined with a dull, pale powder blue mineral; take sample to check for any exotic minerals, use whole core	6082401	259.83	260.00	0.17	crustiform blue mineral						
			264.11-264.32 m: breccia vein of agate? with red and black basalt fragments with yellowish-green alteration rims, vein at 15° to CA	6082402	265.60	265.80	0.20	intense iron-oxides						
			264.32 m: below this point the basalt is fairly massive and homogeneous and alternates from more massive grey- black basalt to brightly coloured orange-red iron oxide staining over metre-scale intervals; both units are weakly magnetic throughout											
			278.00-280.90 m: tr carb veinlets @ 75° to CA											
			289.51-291.97 m: quartz diorite dyke, med-cs grained; salt + pepper texture; comprised of qtz-plag-hornblende- biotite; UC at 30° to CA; LC at 50° to CA											
			301.53-301.99 m: quartz diorite dyke, as described											
			321.45-326.05 m: deep reddish-brown colour with 5-8% black pumice/devitrified glass; has <1% carbonate-black chlorite veins/shears (slightly greasy) @ 10° to CA											

		HOLE No. ALX08-01														
Interval		Rec'y	y Description		Sample	ple Interval		Core		Au	Ag	Cu	Со	Fe		
From	То	%		Dese	iption		No.	From	То	Width	Description	ppm p	ppm	ppm	ppm	%
	356.00		END OF HOL	E												
			Reflex EZ-Sh													
			Depth (m)	Az (mag)	Az (true)	Dip										
			101	116.1	135.1	-84.8										
			206	184.8	203.8	-84.9										l
			305	161.4	180.4	-84.8										

			C	IAMON	D DRILL L	OG				HOLE No.	ALX08-02					
Proper	ty: Goldm	nember - J	Alexis	NTS:	Claim:	Elevation:	: 1228 m <b>Azimuth</b> : 315°		Length: 5	<b>Dip:</b> -50°						
Coordinates: 436783 E / 5830302 N			Dip Tests:		Advance:	Advance:			Date Colla	red: 08/03/08	Date Completed: 09/03/08					
Purpos	ses: Mod	Resis; Hi	gh Charg.	Drilled by:	Drilled by: Westcore Drilling Assays by:			mex		Logged by	: Wesley Raven					
Int	erval	Rec'y		Dr	Description			Inte	rval	Core	Sample	Au	Ag	Cu	Со	Fe
From	0/			Description		No.	From	То	Width	Description	ppm	ppm	ppm	ppm	%	
0.00	13.47		Casing / Ov	rerburden												
13.47	14.10			Intermixed Overburden & Basalt; basalt chunks intermixed with mud and sand, likely bedrock mixed with overburden												
14.10	50.00		looks like a amphibole a olivine and i most comm slightly grea	alt; Dark greenish-black, massive and homogeneous, is like a massive flow; comprised mostly of feldspar + hibole and minor qtz; unit is fine-grained; traces of he and is generally quite fresh looking; lightly fractured is commonly at 30-40° to CA and 50°; the fx's are tly greasy with carb + clay; limit of oxidation is 18 m; kly magnetic												
50.00	51.50		No Core Re	ecovery												
	51.50		END OF HO	DLE.												
			joints with b and can't br party up ma the rods but	ulldozer using eak the rods a ist so cut off wi t at 3 m/hr it is	n, won't even rotate. pipe wrench and 3 t a joint. Rod throug ith a grinder. Start r not cost effective ve ore down hole as tub	n drill steel h chuck and eaming over . the lost										
			Abandon Ho	ole.												
				do a -80 from t	he same set-up											
			No Tests.													
			D		DRILL L	OG				HOLEN	lo. ALX08-03					
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Proper	t <b>y:</b> Goldm	ember - J	Alexis	NTS:	Claim:	Elevation:		Azimut	<b>h:</b> 315°	Length:	50.00 m	<b>Dip:</b> -80°	þ			
Coordi	nates: 43	6783 E /	5830302 N	Dip Tests:		Advance:		Depth:		Date Co	ollared: 09/03/08	Date Co	mplet	<b>ed:</b> 10	)/03/08	3
Purpos	es: Mod.	Resis; H	igh Charg.	Drilled by: We	estcore Drilling	Assays by	: ALS Che	mex		Logged	by: Wesley Raven	·				
Int	erval	Rec'y		Desc	ription		Sample	Inte	erval	Core	Sample	Au	Ag	Cu	Со	Fe
From	То	%		2000	mption		No.	From	То	Width	Description	ppm	ppm	ppm	ppm	%
0.00	9.58		Casing / Ov	rerburden												
9.58	44.07		greenish-bla on outer cor weakly mag with lesser s fx's (5° to C	ack; fresh looking re surface but gre jnetic; has <1% c set at 35° + 70° to A) could be colur	re and homogene and speckled gre enish-black on co lay-carb shears @ o CA; also minor s nnar joints? asalt with blue pe	een and white bre ends, 0 45° to CA semi-vertical										
44.07	44.27		Clayish Bas	alt / Ash?; soft b	ut relic vesicular to	extures										
44.27	47.00		and crumbly mm) grit, loc with multiple fine-grained	y that locally has oks like graded b e episodes of dep	andy material that small layers of co edding in paleo st position; from 44.2 poks like compact m = no recovery	arser (3-6 ream bed 27-44.44 m is										
47.00	50.00		No Core; ab	solutely no recov	vered core = wash	ned sand										
	50.00		vibration and	ble at 50.00 m du d whip on the roo	e to washed out s Is that will only ge in hole 2 where ro	t worse with										

			C	DIAMON	D DRILL L	OG				HOLE No. ALX08-04									
Proper	<b>ty:</b> Goldm	nember - J	Alexis	NTS:	Claim:	Elevation:		Azimut	<b>h:</b> 270°	Length	:	<b>Dip:</b> -70	)						
Coordi	nates: 43	86750 E /	5830800 N	Dip Tests:		Advance:	1228.00 m	Depth:	312.80	Date Co	ollared: 10/03/08	Date Co	omplet	<b>ed:</b> 16	6/03/08	8			
Purpos	ses: High	resis, hig	h charg	Drilled by: V	Vestcore Drilling	Assays by	: ALS Che	mex		Logged by: M. Nelson									
Int	erval	Rec'y		De	scription		Sample	Inte	erval	Core	Sample	Au	-	Cu	Со	Fe			
From	То	%		20	sonption		No.	From	То	Width	Description	ppm	ppm	ppm	ppm	%			
0.00	19.00		Casing / Ov	verburden															
19.00	50.00		from dark to by calcite ve vesicles (1- 24.33 m: 26.10 m: 42.00 m:	o medium grey; eins at varying a 6 mm wide) fault / shear @ fault / shear @	~ 40° to CA or arcuate fault?	ery; crosscut													
50.00	108.60		with weak e paleohorizo 50.00-53. 53.00-59. 63.51-64. 65.00-68. are altern ranging fr	evidence of folia on or ashfall or to 00 m: 5' washe 00 m: 2' washe 20 m: dark brov 65 m: well lamin	d away vn, looks like mud o nated @ ~75° to CA lark brown/grey with	r humus													

## Page 2 of 4

			DIAMOND DRILL LOG		HOLE No. ALX08-04								
Int	erval	Rec'y	Description	Sample	Inte	erval	Core	Sample	Au	Ag	Cu	Со	Fe
From	То	%		No.	From	То	Width	Description	ppm	ppm	ppm	ppm	%
			105.50-108.60 m: increasingly welded basal section; light-med. green; 3-14 mm "bands" of lighter coloured material within darker matrix; subunit may be a basal welded tuff; welded foliation @ ~65° to CA										
105.60	113.07		Basalt; dark; fine gr.; vesicular; almost a gradual UC with basal welded tuff										
113.07	114.81		Sand; fine gr., salt + pepper sand, appears void-filling										
114.81	171.04		Basalt; rapidly changes from aphanitic/fine gr. to med. gr.; med grey; occasionally cut by 1 cm band of vesicles; rarely cut by faults/shears										
			121.52 m: fault/shear @ ~40° to CA										
			130.22 m: red; highly vesicular basalt; perhaps cap of new flow unit; contains black vitreous chunks of either altered obsidian or charred organic matter										
			138.80 m: basalt becomes less oxidized and more massive										
			147.29 m: fault/shear @ ~60° to CA										
			153.60 m: vesicular basalt grading into red, oxidized vesicular basalt; probably top of new flow unit; vesicles filled with quartz or non-carbonate material										
			158.60 m: more massive basalt										
			158.96 m: fault / shear @ ~65° to CA										
			160.93 m: reduced vesicular basalt with large chunks of obsidian or charred organic matter										
	168.00 m: more massive basalt		168.00 m: more massive basalt										

			DIAMOND DRILL LOG					HOLE No. ALX08-04					
Inte	erval	Rec'y	Description	Sample	Inte	erval	Core	Sample	Au	Ag	Cu	Со	Fe
From	То	%	Decemption	No.	From	То	Width	Description	ppm	ppm	ppm	ppm	%
171.04	185.41		Conglomerate – cm-scale clasts of pumice or vesicular basalt in a fine-grained, grey matrix; matrix becomes coarser down the core										
			175.00 m: unit becomes increasingly broken up; appears much more oxidized; clasts appear smaller										
			176.00-179.00 m: lost 21/2 feet of core										
185.41	223.57		Basalt; highly oxidized, red to grey; vesicular; fine gr. to aphanitic										
			197.38-223.57 m: darker section with breccia chunks of oxidized basalt										
223.57	272.90		Basalt; med. grey, fine grained; vesicular to massive; faulted sections; zeolites										
			223.57-230.00 m: vesicular basalt with blue + blue-green + white amygdules	G082403	226.28	226.56	0.28	vesicular basalt + blue/green					
			230.00-237.46 m: massive, fine gr.	G082404	229.70	229.81	0.11	vesicular basalt + blue					
			237.46-238.00 m: vesicular										
			238.00-272.90 m: variably vesicular (30%) to massive (70%); minor, but persistent, blue void-filling material										
272.90	288.63		Crystal Tuff; partially welded and lightly altered ashfall; pale grey colour; moderate to strong foliation; abundant blue void-filling material										
			276.50 m: foliation @ ~50° to CA										
			277.94 m: foliation @ ~40° to CA (subvertical)										
			285.97 m: foliation @ ~60° to CA										

			DIAMOND DRILL LOG					HOLE No. ALX08-04					
Int	erval	Rec'y	Description	Sample	Inte	erval	Core	Sample	Au	Ag	Cu	Со	Fe
From	То	%	Description	No.	From	То	Width	Description	ppm	ppm	ppm	ppm	%
288.63	303.27		Basalt; dark grey, fine grained; vesicular at top, grading to massive; LC is ~ 20 cm of breccia; w/ blue void-filling material										
303.27	305.80		Crystal Tuff; as previous										
305.80	312.80		Basalt; mostly massive; fine grained; broken and hard to drill; blue-void-filling mineral; lost water pressure @ LC 307.83 m: shear? slickenlines?										
	312.80		END OF HOLEAbandoned due to loss of water pressure and vibrating roReflex EZ-Shot Downhole TestsDepth (m)Az (mag)Az (true)Dip134249.3268.3-70.6296260.6279.6-71.2	ds									

# Appendix 2.

## Assay Certificates



ALS Canada Ltd. 212 Brooksbank Avenue North Vancouver BC V7J 2C1 Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com To: GOLDMEMBER MINERALS INC. 202 - 750 W PENDER STREET VANCOUVER BC V6C 2T7 Page: 1 Finalized Date: 2-APR-2008 This copy reported on 8-APR-2008 Account: GOLMEM

CEI	RTIFICATE VA080313	62
Project: ALEXIS		
P.O. No.: ALX08		
This report is for 4 Drill Core sa 26-MAR-2008.	amples submitted to our lab in t	Vancouver, BC, Canada on
The following have access t	o data associated with this o	ertificate:
IAN KLASSEN	MARK NELSON	WESLEY RAVEN

ALS CODE	DESCRIPTION	
NEI-21	Received Sample Weight	
.OG-22	Sample login - Rcd w/o BarCode	
CRU-31	Fine crushing - 70% <2mm	
SPL-21	Split sample - riffle splitter	
PUL-31	Pulverize split to 85% <75 um	

### ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61r	48 element four acid ICP-MS + REEs	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: GOLDMEMBER MINERALS INC. ATTN: WESLEY RAVEN 302 - 675 W HASTINGS STREET VANCOUVER BC V6B 1N2

Signature:

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.

Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd. 212 Brooksbank Avenue North Vancouver BC V7J 2C1

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

To: GOLDMEMBER MINERALS INC. 202 - 750 W PENDER STREET

VANCOUVER BC V6C 2T7

Page: 2 - A Total # Pages: 2 (A - E) Plus Appendix Pages Finalized Date: 2-APR-2008 Account: GOLMEM

Project: ALEXIS

										CERTIF	ICATE	of ana	LYSIS	VA080	31362	
Sample Description	Method Analyte Units LOR	WEI-21 Recvd WL kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS61r Ag ppm 0.01	ME-MS61r Al % 0.01	ME-MS61r As ppm 0.2	ME-MS61r Ba ppm 10	ME-MS61r Bo ppm 0.05	ME-MS61r Bi ppm 0.01	ME-MS61r Ca % 0.01	ME-MS61r Cd ppm 0.02	ME-MS61r Ce ppm 0.01	ME-MS61r Co ppm 0.1	ME-MS61r Cr ppm 1	ME-MS61r Cs ppm 0.05	ME-MS61r Cu ppm 0.2
G082401 G082402 G082403 G082404		0.02 0.54 0.82 1.02 0.46	0.002 0.001 0.001 0.001	0.01	0.01 7.92 8.06 7.98 6.7	4 3.8 3.8 1	10 1000 1050 760 510	0.05 1.55 1.54 1.49 0.95	0.01 0.32 0.09 0.21 0.13	0.01 4.07 4.2 3.8 3.79	0.02	0.01 84.9 89.2 62.6 42.3	0.1 21.1 22.3 18.2 49.5	1 98 94 59 514	0.05 2.22 2.24 2.26 1.6	0.2 30.3 35.3 37.3 56.8



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									CERTIFICATE OF ANALYSIS VA					VA080	31362	
Sample Description	Mothod Analyte Units LOR	ME-MS81r Fe % 0.01	ME-MS61r Ga ppm 0.05	ME-MS61r Ge ppm 0.05	ME-MS61r Hf ppm 0,1	ME-MSB1r In ppm 0.005	ME-MS61r K % 0.01	ME-MS61r La ppm 0.5	ME-MS61r Li ppm 0.2	ME-MS61r Mg % 0.01	ME-MS61r Mn ppm 5	ME-MS61r Mo ppm 0.05	ME-MS61r Na % 0.01	ME-MS61r Nb ppm 0.1	ME-MS61r Ni ppm 0.2	ME-MS61r P ppm 10
G082401 G082402 G082402 G082403 G082404	LOR	0.01 4.75 5.06 4.25 5.86	0.05 18,3 18.2 18.75 15.05	0.05 0.17 0.18 0.15 0.14	0,1 6,6 6,5 6,3 4,3	0.005 0.054 0.057 0.053 0.039	0.01 1.63 1.44 1.65 1.41									



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										CERTIF	ICATE (	OF ANA	LYSIS	VA080	31362	
Sample Description	Method Analyte Units LOR	ME-MS61r Pb ppm 0.5	ME-MS61r Rb ppm 0.1	ME-MS61r Re ppm 0.002	ME-MS61r S % 0.01	ME-MS61r Sb ppm 0.05	ME-MS61r Sc ppm 0.1	ME-MS61r Se ppm 1	ME-MS61r Sn ppm 0.2	ME-MS61r Sr ppm 0.2	ME-14\$61r Ta ppm 0.05	ME-MS61r To ppm 0.05	ME-MS61r Th ppm 0.2	ME-MS61r Ti % 0.005	ME-MS61r TJ ppm 0.02	ME-MS61r U ppm 0.1
G082401 G082402 G082403 G082404		0.5 11.8 10.9 9.1 6.4	69.9 57.4 78.1 55.4	0.002 <0.002 <0.002 <0.002 <0.002	0.01 0.02 0.02 0.04	0.05	0.1 17.1 16.6 16.1 18.2	1 3 2 2 2	0.2 1.5 1.5 1.5 1	0.2 747 744 453 331	0.05 0.72 0.68 0.58 0.43	0.05 <0.05 <0.05 <0.05 <0.05	6.6 6.3 7.2 4.4	0.005 0.568 0.56 0.487 0.436	0.02	0.1 2.7 6.5 2.1 1.3



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Math Met M301 V Pm Met M301 Pm Met M301 V Pm Met M301 V Pm Met M301 V Pm Met M301 Pm											CERTIF	ICATE (	of ana	LYSIS	VA080	31362	
G082402 141 0.8 28.6 87 243 4.78 2.87 1.87 6.55 0.93 0.41 37.6 11.95 6.75 0.93   G082403 121 1.1 24.5 79 224 4.14 2.44 1.51 5.2 0.83 0.35 26.2 8.14 5.18 0.79	Sample Description	Analyte Units	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Dy ppm	Er	Eu ppm	Gd ppm	Ho ppm	Lu ppm	Nd ppm	Pr ppm	Sm ppm	Ть ppm
	G082401 G082402 G082403		142 141 121	0.7 0.8 1,1	25.2 28.6 24.5	86 87 79	241 243 224	4.38 4.78 4.14	2.48 2.87 2.44	1.83 1.87 1.51	6.17 6.55 5.2	0.85 0.93 0.83	0.36 0.41 0.35	36.3 37,6 26.2	11.45 11.95 8.14	6.63 6.75 5.18	0.87 0.93 0.79



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CERTIFICATE OF ANALYSIS VA08031362

Sample Description	Method Analyte Units LOR	ME-MS61r Tm ppm 0.01	ME-MS61r Yb ppm 0.03	
G082401 G082402 G082403 G082404		0.34 0.39 0.33 0.25	2.24 2.53 2.19 1.68	



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CERTIFICATE OF ANALYSIS VA08031362

Method	CERTIFICATE COMMENTS
ME-MS61r	REE's may not be totally soluble in this method.