

ASSESSMENT REPORT
ON
GEOCHEMICAL ROCK SAMPLING PROGRAM,
KATHLEEN MOUNTAIN PROPERTY
SOUTHERN BRITISH COLUMBIA

Claims involved: 664163, 664172 and 664176

SIMILKAMEEN MINING DIVISION

NTS 92H.16E



Approximate coordinates of the centre of the property:

Latitude: 49°45' N; Longitude: 120°08' W
UTM: 5515095N, 705830E (NAD83, Zone 10)

Owner: Killdeer Minerals Inc., Vancouver

Operator: Killdeer Minerals Inc., Vancouver

[SOW 4806381]

BC Geological Survey
Assessment Report
32015

By

Krzysztof Mastalerz, Ph.D., P.Geo.

Submitted: February 6th, 2011

32,015

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

Ministry of Forests, Mines and Lands
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Rock geochemistry, prospecting

TOTAL COST: \$10,276.14

AUTHOR(S): Krzysztof Mastalerz SIGNATURE(S): _____

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): _____ YEAR OF WORK: 2010

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 4806381 - November 02, 2010

PROPERTY NAME: Kathleen Mountain

CLAIM NAME(S) (on which the work was done): 664163

COMMODITIES SOUGHT: gold, silver, base metals

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 092HNE034 - Kathleen Mountain

MINING DIVISION: Similkameen NTS/BCGS: 92H.16H

LATITUDE: 49 ° 45 ' _____ " LONGITUDE: 120 ° 08 ' _____ " (at centre of work)

OWNER(S):
1) Killdeer Minerals Inc. 2) _____

MAILING ADDRESS:
410-890 West Pender St.
Vancouver, BC, V6C 1J9

OPERATOR(S) [who paid for the work]:
1) Killdeer Minerals Inc. 2) _____

MAILING ADDRESS:
410-890 West Pender St.
Vancouver, BC, V6C 1J9

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
Triassic(?), Jurassic, Cretaceous(?), Eocene; granitoids - granodiorite, quartz-feldspar porphyry, mafic to intermediate dykes;
intrusive batholith; propylitic, chlorite, pyrite, carbonate, silicification; magnetite, Fe-Mn oxides, pyrite, chalcopyrite,
galena, sphalerite; mineralization consists of disseminations, fracture fills and disconnected lenses of limited extend striking
along NNW-SSE (other systems probably also occur)

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: _____

AR's: 3643, 4896, 5932, 9308, 12790, 14556

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil			
Silt			
Rock 54		664163	8,276.14
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)		664163	2,000.00
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST:	\$10,276.14

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**ASSESSMENT REPORT ON
GEOCHEMICAL ROCK SAMPLING PROGRAM,
KATHLEEN MOUNTAIN PROPERTY
SOUTHERN BRITISH COLUMBIA
BCGS 092H.080**

1. INTRODUCTION

The Kathleen Mtn. property includes showings of polymetallic veins (Ag-Pb-Zn+/-Au) and carries some porphyry-type potential for Cu +/- Mo +/- Au. The property is located in the Similkameen Mining Division, in southern British Columbia (Fig. 1). The claim group of the property consists of three contiguous mineral claims (Fig. 2) located 5-9 km west of Kathleen Mountain along the watershed divide between Trout Creek (south) and Spring Creek (north), Central Interior. The property has been owned by Killdeer Minerals Inc. of Vancouver since early November 2010.

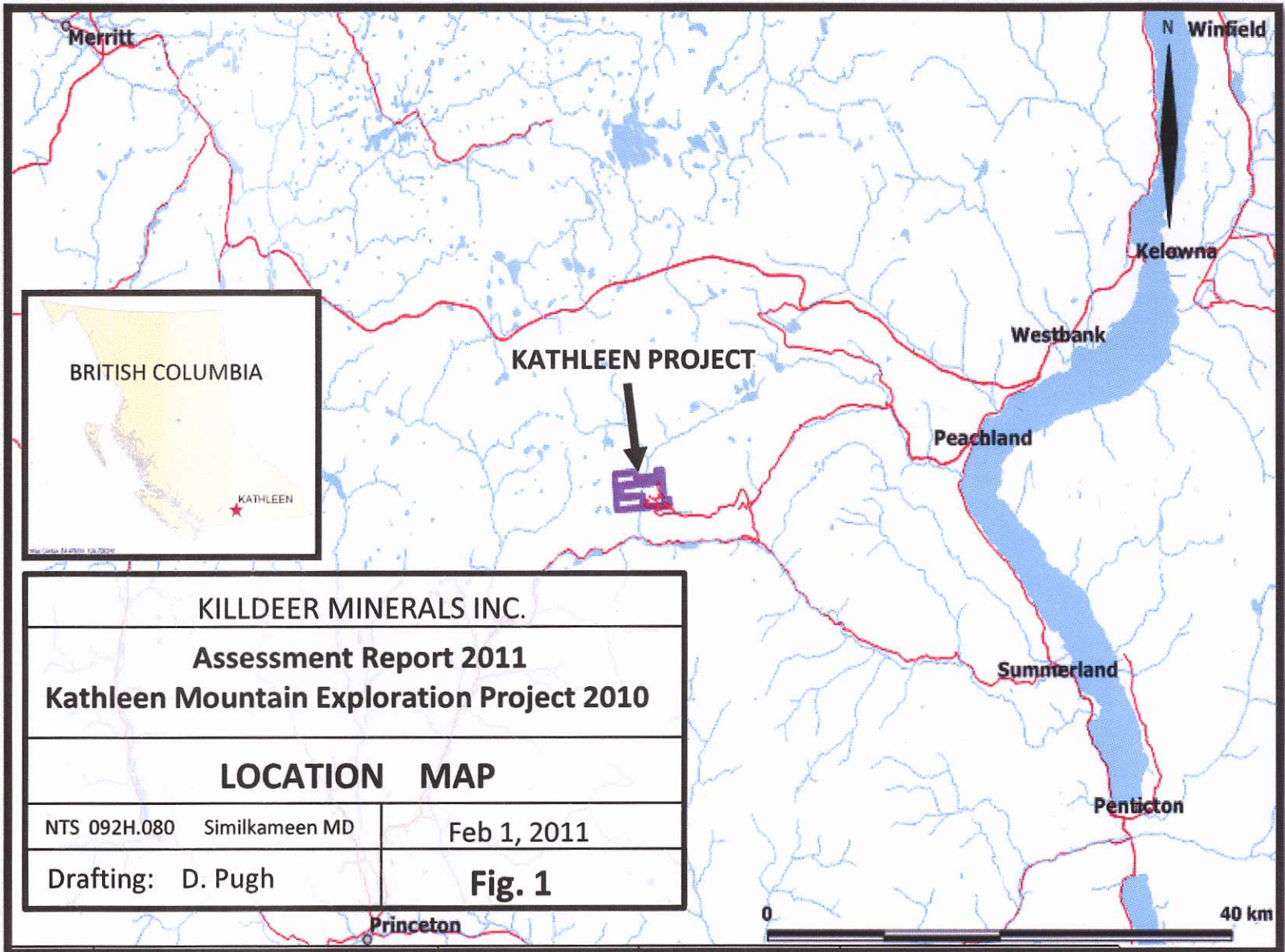
1.1 Location and Access

The Kathleen Mtn. property is located 5-9 kilometres west-southwest of the peak of Kathleen Mountain, some 25 kilometres west of the town of Peachland, southern British Columbia (Figs. 1 and 2). The claims cover the drainage area of the middle portion of Trout Creek and some of the northern tributaries to Kathleen Creek. The property is centered approximately at latitude 49°45' North and longitude 120°08' West on BCGS map sheet 092H.080. The property is approximately 1065 hectares in area

Access to the property is provided by a system of gravel roads (approximately 10 km) from the village of Osprey Lake, some 40 km NE of Princeton (Fig. 2). Approximately 35 km paved and then gravel road from Summerland and/or Peachland on Okanagan Lake leads almost to the eastern boundary of the property. There are several logging roads which provide access to most of the northern part of the property. The claims are accessible year-round except in heavy snow.

1.2 Physiography, Vegetation and Climate

The Kathleen property is located in the Central Interior region. Topography of the area is moderately diversified and includes gently to moderately steep slopes, as well as broad to narrow, incised valleys. Elevations on the property range from 1100-1200 metres a.s.l. in its southern and central parts through approximately 1400-1700 metres a.s.l. on the remaining area. Present day slopes of the eastern part of the property have been locally strongly modified by dozer trenching.



KILLDEER MINERALS INC.	
Assessment Report 2011 Kathleen Mountain Exploration Project 2010	
LOCATION MAP	
NTS 092H.080 Similkameen MD	Feb 1, 2011
Drafting: D. Pugh	Fig. 1

The predominant part of the area is covered with glacial till and gravels with bedrock exposure being limited to ridges and some steeper slopes. The northern part of the property has been lately extensively logged and is in part completely deprived of arborescent vegetation. On the remaining part of the property secondary-tertiary growth of coniferous and deciduous trees prevails.

Daily summer temperatures on the property average 20-30°C. Winter conditions are expected from the end of October to April with moderate snowfall and temperatures averaging -10°C to -20°C in January/February. The northern part of the area may occasionally experience relatively strong winds. The property receives moderate amount of precipitation with the summer season being predominantly dry and with occasionally heavy snow-fall in winter.

1.3 Property Definition and Claim Information

The Kathleen Mountain property is located in the Similkamen Mining Division and comprises three mineral tenures totaling approximately 1065 hectares (Fig. 2). Basic claim information is listed in Table 1.

Table 1. Claim status of the Kathleen Mtn. property, Similkameen Mining Division, BCGS 092H.080

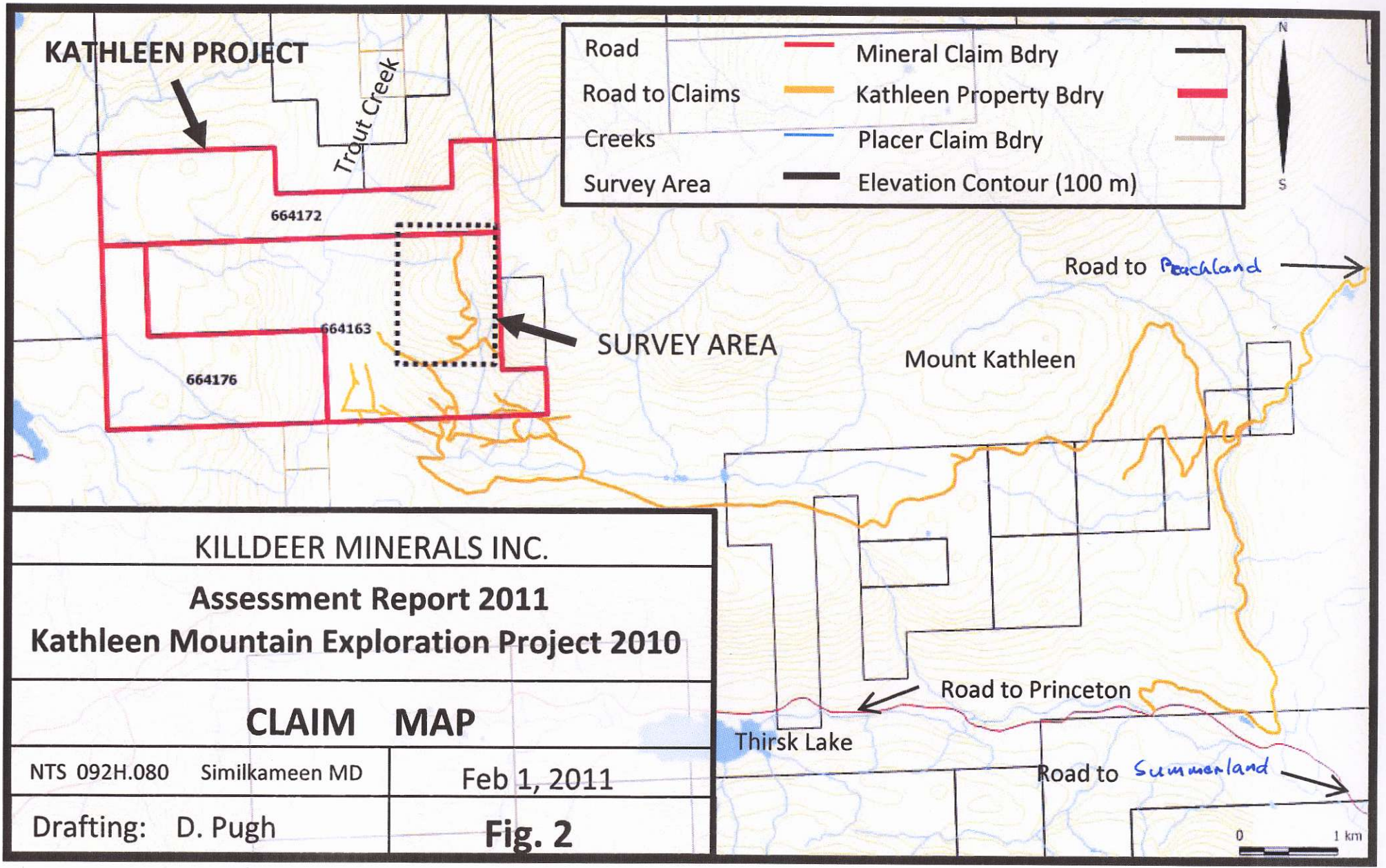
Claim Name	Tenure Number	Area (hectares)	Good To Date
	664163	521.84	15-Nov-2011
	664172	292.17	15-Nov-2011
	664176	250.70	15-Nov-2011

Work done by Killdeer in late October 2010 was conducted on the claim 664163. Expiry dates listed above are contingent upon acceptance of this assessment report, according to event 4806381 filed on November 02, 2010.

1.4 History

Historical reference to geology of the area of Kathleen Mountain claims is very limited. However, the area was obviously subject to relatively intense mechanical trenching as judged from surface disturbance still noticeable in many parts of the property. Regular grids have been established on the property apparently for the purpose of a soil geochemistry and/or ground geophysical survey. A partly caved adit and underground tunnel exists on the property.

An old adit driven on a Cu-Mo showing on the slopes of Mount Kathleen and located on the Disko claims was described by Rice in 1947 (Weymark, 1986). In 1966, Kelpen Mining Corporation Ltd. and then in 1972, Pan Ocean Oil conducted some geological and geochemical surveys near the Disko claims. In 1972-73, Excel Exploration held mineral claims and conducted geochemical and ground magnetometer surveys on the property (Kelly, 1974). Soil geochemistry resulted in the discovery of several silver and copper anomalies. In 1975, the same company completed 5 diamond drill holes



KATHLEEN PROJECT

Road		Mineral Claim Bdry	
Road to Claims		Kathleen Property Bdry	
Creeks		Placer Claim Bdry	
Survey Area		Elevation Contour (100 m)	



KILLDEER MINERALS INC.
Assessment Report 2011
Kathleen Mountain Exploration Project 2010

CLAIM MAP

NTS 092H.080 Similkameen MD

Feb 1, 2011

Drafting: D. Pugh

Fig. 2



located near the Kathleen showing, which returned some intersections with significant gold, silver and copper mineralization (Briden, 1976).

Canadian Nickel Company completed a prospecting, geological mapping and geochemical sampling program in 1981 in order to evaluate the claims. The claims were staked to cover “an epizonal, quartz-feldspar porphyry plug of Eocene age” (*op. cit.* Peto, 1981). Work consisted of geological mapping and prospecting along some 15 kilometres of flagged lines, silt and soil sampling, and detailed geological mapping of old workings.

P. Thomas (1984) reported 8.18 g/t Au assayed from a 2.7 metre-long channel sample and some other significant results from the Disko claims. The limited geological program resulted in assaying of 12 rock samples and in a simplified map of the area of known mineralization and good rock exposure near the Kathleen showing. However, the documentation of this sampling and mapping program is of poor quality and does not allow for definite determination of the sampling locations.

In 1985, two shallow BQ-size diamond drill holes were completed on the property (Weymark, 1986). The first drill-hole, 150 feet deep, intersected anomalously high gold and silver mineralization between 60 and 90 feet deep. The second drill hole, 450 feet deep, intersected few intervals which were characterized by strongly anomalous gold and silver contents. The interval from 200 to 250 feet of depth returned consistently significant gold values from 1100 to 4400 ppb. Only gold and silver were assayed during this program.

1.5. Summary of 2010 Reconnaissance Exploration Program

In late October 2010 Killdeer conducted a reconnaissance rock sampling program on the Kathleen Mountain property. During the program, 54 rock samples (predominantly grab samples, minor chip, dump and float samples) were collected in the eastern part of the property. This set of samples was designed to verify the historical results of soil and rock sampling near the Kathleen showing. The program resulted in several significant results, markedly in elevated gold, silver and base metals values.

2. TECHNICAL DATA AND INTERPRETATION

2.1 Regional Geology

The Kathleen Mountain property is located in the southern part of the Central Interior region of British Columbia. The bedrock is dominated by large-scale plutonic bodies of granitoid character and minor other intrusives of variable composition. The batholithic intrusion has been emplaced into and beneath the roof pendant of basaltic and calc-alkaline volcanics and volcanoclastics of the Nicola Group (Upper Triassic), which are preserved only locally. Geological structure of the region is still uncertain and a formal nomenclature not established, with different names still being used for the same rock formations (*see references in this report*). Much further systematic work on geology has to be conducted and nomenclature to be formalized for satisfactory discussion of regional geological features of the area.

Some contacts between older plutonic rocks tentatively identified as of Jurassic and/or Triassic age and younger, smaller-scale intrusives of probably Tertiary age apparently favored hydrothermal alteration featuring extensive chloritization and localized mineralization of the host granodiorite in the eastern part of the Kathleen Mountain property. There occur several Pb-Zn +/-Ag showings nearby the contacts. The structural framework appears to be dominated by fracturing and minor shearing, both apparently provided plumbing systems for hydrothermal solutions.

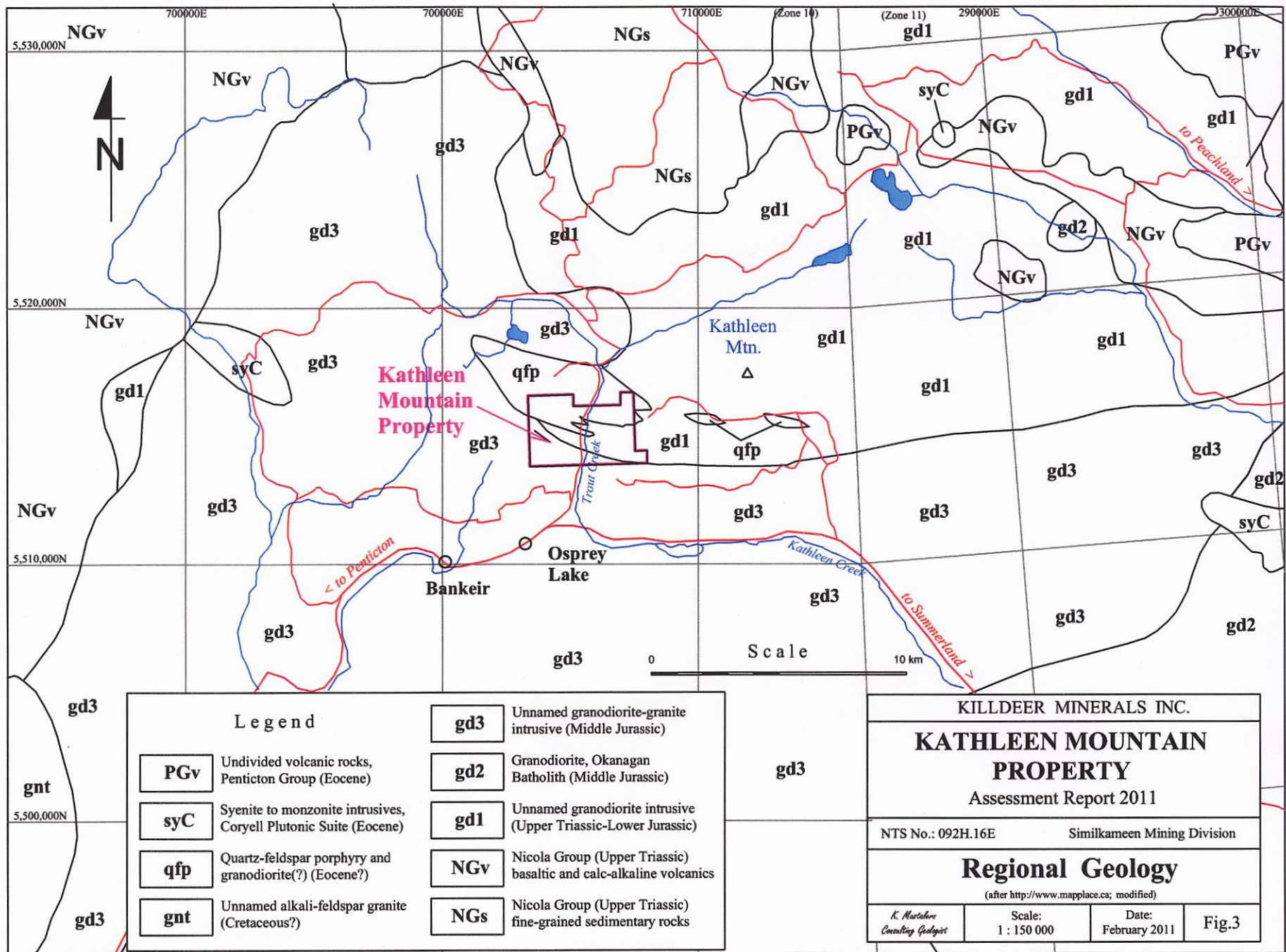
The regional geology in Fig. 3 is reproduced from a BCGS geological map which is posted on the MapPlace website for reference to regional geology.

2.2 Property Geology

Bedrock of the predominant part of the Kathleen property is concealed under a moderately thick to thin layer of Quaternary deposits, mainly glacial till and sand/gravel layers. Natural outcrops of bedrock occur along ridges and at some steeper slopes, and account for a small fraction, probably less than 5-10% of the property area. Significant part of the rock exposure in the eastern part of the property resulted from previous mechanical trenching and blasting.

A predominant part of the property is underlain by variably chloritized granodiorites which constitute the southern portion of the Early and/or Middle Jurassic Pennask batholith. The large-scale granodiorite body is cut by subordinate intrusion (stock or plug) of the Early Tertiary Otter granitoid which displays a porphyritic (quartz-feldspar) character. The batholith is cut by several dark-colored dykes of mafic(?), gabbroic and intermediate composition. The most prominent dykes attain some 4-5 metres in width and can be traced for about 100 metres (Thomas, 1984). Several smaller dykes were exposed by trenching in the eastern part of the property.

The proper petrographic descriptions of the granitoid bodies and dykes have not been established since there were not conducted any petrographic studies of these rocks. Brief macroscopic



Legend	
PGv	Undivided volcanic rocks, Pentiction Group (Eocene)
syC	Syenite to monzonite intrusives, Coryell Plutonic Suite (Eocene)
qfp	Quartz-feldspar porphyry and granodiorite(?) (Eocene?)
gnt	Unnamed alkali-feldspar granite (Cretaceous?)
gd3	Unnamed granodiorite-granite intrusive (Middle Jurassic)
gd2	Granodiorite, Okanagan Batholith (Middle Jurassic)
gd1	Unnamed granodiorite intrusive (Upper Triassic-Lower Jurassic)
NGv	Nicola Group (Upper Triassic) basaltic and calc-alkaline volcanics
NGs	Nicola Group (Upper Triassic) fine-grained sedimentary rocks

KILLDEER MINERALS INC.			
KATHLEEN MOUNTAIN PROPERTY			
Assessment Report 2011			
NTS No.: 092H.16E		Similkameen Mining Division	
Regional Geology			
<small>(after http://www.maplace.ca; modified)</small>			
<i>K. Martineau</i> Consulting Geologist	Scale: 1 : 150 000	Date: February 2011	Fig.3

examination indicates moderate compositional variability (variable contents of hornblende and biotite) of the primary rock formations, as well as a moderately wide range of alteration products including silicification, chloritization, clay alteration and other effects of propylitic alteration. The proper definition of the rock composition requires some microscope examination of the rock samples from the property. The rocks display localized strong fracturing and oxidation in the form of common manganese-iron encrustations and replacements.

Structural features of the rock formations which underlie the Kathleen Mountain property is rather poorly known due to lack of systematic geological mapping. The area surveyed during the Killdeer 2010 reconnaissance program is characterized by relatively strong NNW-SSE tectonic fabric which is represented by steep fractures and localized, preferred silicification.

2.3 Mineralization types

The Kathleen Mountain showing occurs in chloritized granodiorite of the southern part of the Pennask batholith (Early Jurassic?), near the contact of the Early Tertiary plug/stock of the Otter intrusion. The granodiorite is cut by a steep zone of fracturing which strikes NNW-SSE and carries abundant mineralization of pyrite, minor chalcopyrite and subordinate chalcocite (this report) in a gangue of siderite, magnetite, pyrolusite, calcite and quartz. A channel sample which returned 8.18 g/t Au over 2.7 metre was reported by Thomas (1984), however, the sampled interval was apparently running along strike of the mineralized structure as concluded from the field inspection by the author of this report. Field observations indicate that the showing was exposed by blasting and trenching some time ago but this fact is not recorded in an existing documentation available to author.

Carbonate-quartz veins with sulfide mineralization of pyrite with minor sphalerite and galena occur nearby the main Kathleen showing. Minor gold values are associated with the mafic(?) dykes and are, most probably, associated with rather sparse pyrite mineralization (Thomas, 1984).

A variably silicified shear zone which strikes from NNW toward SSE occurs along secondary ridge, some 100-200 metres SW of the main Kathleen showing. An approximately 60 metre-long adit was excavated along this zone without intersecting significant mineralization. However, historical sampling of the dump material returned elevated concentrations of gold, silver and copper (Thomas, 1984).

Locally, near the main Kathleen showing, occur some stringers and veins of milky quartz enriched in molybdenite, in the Pennask granodiorite.

2.4. Killdeer's Reconnaissance Rock Sampling Program

In late October 2010 Killdeer conducted a reconnaissance rock sampling program on the Kathleen Mountain property. During the program, 54 rock samples (predominantly grab samples, minor chip, dump and float samples) were collected in the eastern part of the property. This set of samples was designed to verify the historical results in the area near Kathleen showing, which is known from

numerous soil anomalies, old trenching, underground workings and drilling. The program resulted in several significant results, markedly in elevated gold, silver and base metals values.

The complete set of sample descriptions and corresponding analytical geochemical results from the sampling program are presented in Appendices 1 and 2, respectively. Appendix 1 provides UTM coordinates of the sample locations. Sample locations are also shown on map (Fig. 4). Analytical procedures applied to rock samples are described in Appendix 2. The most significant results of the 2010 rock sampling are shown in the table below:

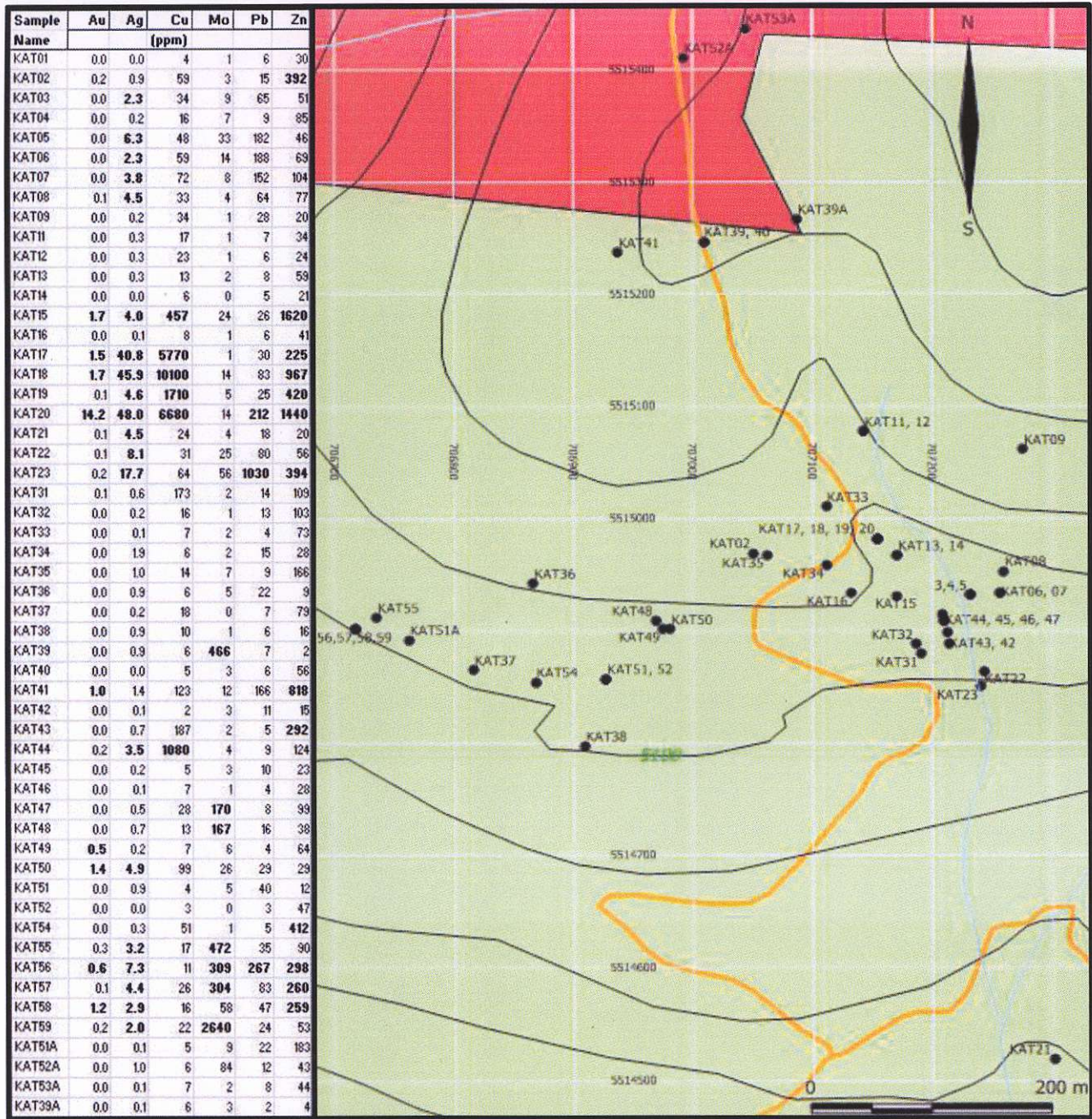
Table 2. Most significant results of 2010 rock sampling program (for sample locations see Appendix 1 and Fig. 4, complete analytical results – Appendix 2).

Sample Label	Au ppm	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	Cu %
	Au-TL42	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Ag-AA62	Cu-AA62
KAT15	>1.00	3.98	1.7	457.0	26.4	1620	23.5		
KAT17	>1.00	40.80	1.5	5770.0	30.4	225	1.1	41	0.553
KAT18	>1.00	45.90	1.7	>10000	82.7	967	13.9	46	1.01
KAT19	0.100	4.56	<0.2	1710.0	24.8	420	4.6		
KAT20	>1.00	48.00	14.2	6680.0	212.0	1440	13.5	47	0.593
KAT23	0.237	17.70	0.2	63.6	1030.0	394	56.0		
KAT41	0.986	1.36	0.8	123.0	166.0	818	12.2		
KAT44	0.160	3.53	<0.2	1080.0	9.4	124	3.9		
KAT49	0.496	0.16	<0.2	6.6	3.8	64	5.5		
KAT50	0.964	4.93	1.4	99.2	29.4	29	26.0		
KAT55	0.273	3.15	0.2	17.3	34.6	90	472.0		
KAT56	0.632	7.31	0.3	11.3	267.0	298	309.0		
KAT58	>1.00	2.94	1.2	16.4	46.9	259	57.5		
KAT59	0.243	2.00	0.2	21.9	23.5	53	2640.0		

The most significant results of 2010 reconnaissance rock sampling program can be summarized as follow:

1. A 1.25 metre-long chip sample cut across a mineralized body of the main Kathleen Mountain showing - KAT-20 - has returned over 14 g/t gold by ME-MS41 procedure. The high gold concentration in this sample is accompanied by very strongly elevated values of copper and silver (Table 2). High concentrations of precious and base metals in this sample were evidenced by macroscopically assessed mineralization, especially abundant sulfides which included chalcopyrite, minor chalcocite and secondary malachite.
2. Some other samples collected in the area of the main Kathleen showing (KAT-17, -18 and -19) also returned strongly elevated concentrations of precious and base metals.

3. A group of few samples collected at significant distance west of the Kathleen showing (KAT-49, 50, 56, 58 and 59 – Fig. 4) returned strongly to significantly elevated concentrations of gold and silver.
4. Sample KAT-41 collected in the north part of the surveyed area (Fig. 4) returned strongly elevated concentration of gold which is associated with minor elevation of silver.
5. Several samples collected south of the main Kathleen showing, along apparent trend of mineralization returned significantly elevated concentrations of precious metals (Appendix 2, Fig. 4). Some of these samples are also characterized by elevated contents of base metals.
6. Sample KAT-59 collected in the westernmost part of the survey area (Fig. 4) returned an exceptionally elevated concentration of molybdenum (Table 2).
7. A complete set of collected rock samples indicate the area is characterized by significantly elevated background concentrations of precious and base metals, and some of them by significantly elevated concentrations of molybdenum (Appendix 2).



Sample Name	Au	Ag	Cu	Mo	Pb	Zn
	(ppm)					
KAT01	0.0	0.0	4	1	6	30
KAT02	0.2	0.9	59	3	15	392
KAT03	0.0	2.3	34	9	65	51
KAT04	0.0	0.2	16	7	9	85
KAT05	0.0	6.3	48	33	182	46
KAT06	0.0	2.3	59	14	188	69
KAT07	0.0	3.8	72	8	152	104
KAT08	0.1	4.5	33	4	64	77
KAT09	0.0	0.2	34	1	28	20
KAT11	0.0	0.3	17	1	7	34
KAT12	0.0	0.3	23	1	6	24
KAT13	0.0	0.3	13	2	8	59
KAT14	0.0	0.0	6	0	5	21
KAT15	1.7	4.0	457	24	26	1620
KAT16	0.0	0.1	8	1	6	41
KAT17	1.5	40.8	5770	1	30	225
KAT18	1.7	45.9	10100	14	83	967
KAT19	0.1	4.6	1710	5	25	420
KAT20	14.2	48.0	6680	14	212	1440
KAT21	0.1	4.5	24	4	18	20
KAT22	0.1	8.1	31	25	80	56
KAT23	0.2	17.7	64	56	1030	394
KAT31	0.1	0.6	173	2	14	109
KAT32	0.0	0.2	16	1	13	103
KAT33	0.0	0.1	7	2	4	73
KAT34	0.0	1.9	6	2	15	28
KAT35	0.0	1.0	14	7	9	166
KAT36	0.0	0.9	6	5	22	9
KAT37	0.0	0.2	18	0	7	79
KAT38	0.0	0.9	10	1	6	16
KAT39	0.0	0.9	6	466	7	2
KAT40	0.0	0.0	5	3	6	56
KAT41	1.0	1.4	123	12	166	818
KAT42	0.0	0.1	2	3	11	15
KAT43	0.0	0.7	187	2	5	292
KAT44	0.2	3.5	1080	4	9	124
KAT45	0.0	0.2	5	3	10	23
KAT46	0.0	0.1	7	1	4	28
KAT47	0.0	0.5	28	170	8	99
KAT48	0.0	0.7	13	167	16	38
KAT49	0.5	0.2	7	6	4	64
KAT50	1.4	4.9	99	26	29	29
KAT51	0.0	0.9	4	5	40	12
KAT52	0.0	0.0	3	0	3	47
KAT54	0.0	0.3	51	1	5	412
KAT55	0.3	3.2	17	472	35	90
KAT56	0.6	7.3	11	309	267	298
KAT57	0.1	4.4	26	304	83	260
KAT58	1.2	2.9	16	58	47	259
KAT59	0.2	2.0	22	2640	24	53
KAT51A	0.0	0.1	5	9	22	183
KAT52A	0.0	1.0	6	84	12	43
KAT53A	0.0	0.1	7	2	8	44
KAT39A	0.0	0.1	6	3	2	4

KILLDEER MINERALS INC.

Assessment Report 2011
Kathleen Mountain Exploration Project 2010

ROCK SAMPLE LOCATIONS

NTS 092H.80 Similkameen MD

Drafting: D. Pugh

Feb 1, 2011
Fig. 4

Road to Claims		Creeks	
Mineral Claim Bdry			
Kathleen Property Bdry			
Rock Sample Location			
Elevation Contour (100 m)		5100	
UTM Grid, NAD 83 (mean for conus) Zone 10			
Triassic granodioritic intrusives			
Eocene granodioritic intrusives			

3.0 CONCLUSIONS and RECOMMENDATIONS

The Kathleen Mtn. property occupies the contact zone between two end-member granodiorite phases of the large-scale, Early and/or Middle Jurassic batholith, which was subsequently intruded by the Early Tertiary porphyritic intrusive body of a stock or plug character. This complex contact zone appears to be very diffuse and is, apparently, composed of several irregular dykes of quartz-feldspar porphyry. The area eastward of the contact is additionally cut by smaller-scale dykes of intermediate to mafic(?) composition. The whole zone displays moderately diversified effects of hydrothermal propylitic alteration with chloritization being the most common alteration feature. The rock formations of the area also display effects of silicification, including limited quartz veining, carbonate alteration and veining, and localized enrichment in pyrite. Granodiorite rocks of the contact zone display variable degree of fracturing and limited, localized effects of moderate shearing. The intrusive rocks are host to polymetallic mineralization of precious and base metals, which forms fracture fillings, veins, disseminations and possible replacement lenses. The rocks of the contact area also show significant, but apparently localized enrichment in molybdenum.

The Killdeer 2010 reconnaissance rock sampling program tested only the middle portion of the eastern part of the property. Polymetallic mineralization appears to be concentrated in and, probably, is controlled by a system of steep fractures which was subsequently followed by a distinct propylitic alteration and localized mineralization of hydrothermal character. The zone of preferred alteration and mineralization strikes from NNW to SSE, similarly as most of the small-scale tectonic features (shear zones and fractures) and veins. This dominant trend was also documented by historical geochemical soil and ground magnetometer surveys (e.g. Kelly, 1974; see also Peto, 1981). Historical reports also discuss an important WNW-ESE trend of mineralization and/or tectonic deformation on the property. Killdeer's rock sampling program also resulted in discovery of significant precious and base metal mineralization at considerable distance west of the main Kathleen mineralized zone (Fig. 4).

The highest concentrations of precious and base metals were found in association with mixed carbonate-oxide-sulfide veins and with the systems of stringers and replacements which are lined-up with significant amount of Fe-Mn oxides. Some extensions of the mineralization at depth have been proven by historical drilling programs (e.g. Briden, 1976, Weymark, 1986). Kelly (1974) speculates on the association of mineralization on the property with two discontinuous trends documented by soil geochemistry and magnetometer survey, and assigns these two trends to different styles of mineralization (*comp. also* Peto, 1981).

Results of 2010 reconnaissance rock sampling program are regarded as encouraging and warrant further exploration on the property. It is advisable to expand the geochemical and geophysical investigations in the eastern part of the property, and to conduct a limited program of detailed geological mapping supported by some hand trenching. A targeted VLF survey should be helpful in delineation of mineralized fracture zones and massive and/or semi-massive sulfide-oxide lenses. A limited microscope study should aid in clear definition of individual rock formations, alteration patterns and their relationship to mineralization. The central and western parts of the property need prospecting, rock and soil sampling, as well as generalized geological/structural mapping.

4.0 REFERENCES

Briden, H.A., 1976. Excel Explorations Ltd. Diamond Drilling report; Leap Claim Group. AR 05932; 4 pages (and appendices)

Kelly, S.F., 1974. Report to Excel Explorations Ltd. on Magnetic and Geochemical Surveys of the part of the Leap Group of Mineral Claims, Similkameen Mining Division. AR 04896; 16 pages (and appendices)

Peto, P., 1981. Geological and Geochemical Report on the Trout #1 and Trout #2 Claims in the Similkameen Mining Division. AR 09308; 7 pages (and appendices)

Thomas, P., 1984. Geological Report on Disco 2 Record No. 804 (11) and Disco 3 Record No. 852 (11) – Kathleen Mountain, Similkameen Mining Division, B.C. AR 12790. 8 pages (and appendices)

Vollo, N.B., 1972. Geochemical Report on the 92H/16 TC Group of Royal Canadian Ventures Ltd. at Peachland, B.C. AR 03643; 5 pages (and appendices)

Weymark, W.J., 1986. Diamond Drilling Assessment Report: Kathleen Mineral Claims Group, Kathleen Mountain – Trout Creek Area, Similkameen Mining Division, British Columbia. AR 14556; 8 pages (and appendices)

Respectfully submitted,

Krzysztof Mastalerz

5.0 WORK COST STATEMENT

Item	Cost (\$CAD)
Field Personnel – October 12 to October 24, 2010:	
Geologist (K. Mastalerz) 3 days @ \$650.00 per day	1,950.00
Prospector (D. Pugh) 4 days @ \$400.00 per day	1,600.00
Truck rental	242.28
Fuel	298.62
Accommodation	415.03
Food and meals	245.28
Supplies and small equipment	94.66
Office work (data compilation/digitization, sample preparation)	650.00
Laboratory analytical costs (ICP, Assays)	2,030.27
Report writing	1,950.00
Drafting for report	800.00
Total cost	10,276.14

Note 1: This report spans a period prior to and post (report preparation, laboratory analyses) the date of filing of the Statement of Work, namely, SOW 4806381 on November 02nd, 2010.

Note 2: Please credit the excess amount to the PAC account of the Killdeer Minerals Inc.

6.0 CERTIFICATE OF PROFESSIONAL QUALIFICATIONS

I, Krzysztof Mastalerz, do hereby certify that:

1. I am a geologist with an office at 2005 Bow Drive, Coquitlam, B.C.
2. I am a graduate of the University of Wrocław, Poland, (M.Sc. in Geology in 1981, Ph.D. in 1990).
3. I am a Professional Geoscientist registered with the APEG of the province of British Columbia as a member, # 31243.
4. I have continually practiced my profession since graduation in 1981 as an academic teacher (University of Wrocław, A. Mickiewicz University of Poznań) through 1997, a research associate for the State Geological Survey of Poland (1993-1995), and independent consulting geologist in Canada and Peru since 1994.
5. This report is based upon field work carried on the Kathleen Mtn. property, west of Peachland, B.C., in October 2010.
6. I have, personally, conducted and/or supervised field work done on the property in 2010.
7. Interpretations and conclusions presented in this report are based on my field observations, analytical results and on previously published and archive literature available for the area.

Dated at Coquitlam, BC, this 6th day of February, 2011.

Krzysztof Mastalerz

APPENDICES

APPENDIX 1 – Rock Sample Locations and Descriptions

Sample Label	UTM (NAD83, 10 Zone)			Sample Type	Description
	East [m]	North [m]	Elev [m]		
KAT01	450489	6216479		SC	Light creamy to slightly greenish, medium-crystalline, equigranular granodiorite; limonite stain along fractures
KAT02	707051	5514969	1594	G	Dark brown/black, Mn/Fe oxides, from old trench
KAT03	707231	5514932		SC	Almost all quartz, vuggy.
KAT04	707231	5514932		SC	Almost all quartz, vuggy.
KAT05	707231	5514932		SC	Almost all quartz, vuggy.
KAT06	707256	5514934	1582	G	Siliceous, hematitic, bleached
KAT07	707256	5514934	1582	G	Sheared host, light colour, some sulphide relics, some Mn stain.
KAT08	707259	5514953	1590	G	Some sulphide relics, some Mn stain.
KAT09	707275	5515061	1640	G	Light colour quartz rich some pyrite?
KAT11	707142	5515077	1619	SC	Light white-to-slightly greenish, equigranular granodiorite, weak chlorite alteration, no visible mineralization (background sample)
KAT12	707142	5515077	1619	SC	Light greenish, equigranular granodiorite, weak-moderate chlorite alteration, with thin quartz veins and veinlets; fractured, almost incipiently sheared, oxidized pseudomorphs after pyrite and rarely relics of pyrite along the edges of quartz veins
KAT13	707170	5514967	1605	G	Strongly chloritized granodiorite with irregular dark stringers (Fe-Mn oxides); slightly magnetic
KAT14	707170	5514967	1605	G	Medium grained, weakly altered granodiorite with some weak silicification, pervasive to along fractures
KAT15	707170	5514981	1602	G	Dark, magnetic veinlets/stringers within strongly chloritized granodiorite - sideritic?; additionally clay alteration
KAT16	707132	5514983	1606	SC	Limonite +/- Mn-oxide stained fractures and stringers in moderately chlorite altered granodiorite
KAT17	707154	5514982	1616	G	Strongly oxidized, magnetic stringers and lenses in strongly chloritized granodiorite; Mn-oxides, trace of Malachite
KAT18	707154	5514982	1616	G	Selected grab sample of pyrite-rich (5-7%) zone within the main Kathleen mineralized zone of dark-brownish to black oxide-sulfide lens; magnetic; chalcopyrite approx. 1%, trace of chalcocite and hydrozinkite
KAT19	707154	5514982	1616	G	Oxidized zone of strongly slickensided, chloritized granodiorite with abundant mineralization of pyrite (2-3%), chalcopyrite (1-2%), trace of malachite and Mn-Fe oxides
KAT20	707154	5514982	1616	CH-125	Chip sample across the main zone of Kathleen showing, abundant sulfides including some 1-1.5% of chalcopyrite

KAT21	707300	5514519	1600	SC	Weakly chlorite-altered granodiorite with some hematite(?) -rich quartz veinlets and impregnations, common Fe-Mn-oxide stains
KAT22	707242	5514864	1542	G	Composite grab of quartz vein and granodiorite wall-rock material, locally minor disseminated and/or fracture filling pyrite
KAT23	707240	5514850	1568	F	Slightly greenish quartz and wall-rock granodiorite with 1-3% of disseminated and/or crystalline pyrite; dump material - most probably local
KAT31	707190	5514879	1581	SC	Medium-crystalline gabbroic(?) or strongly chloritized granitoid rock with some quartz veins and Mn-Fe oxides
KAT32	707186	5514888	1584	G	Dark-greenish gabbroic(?) rock with moderate to weak stain of Mn-Fe oxides
KAT33	707111	5515010	1626	G	Moderately chloritized granodiorite with some silicification along sheared zones, Mn-Fe oxides
KAT34	707112	5514958	1614	G	Feldspar-(quartz) porphyry with some chlorite alteration and poor Mn-Fe oxide stains
KAT35	707062	5514967	1612	G	Strongly limonitic stringers in moderately chlorite altered granodiorite
KAT36	706866	5514942	1601	G	Zone of irregular(?) silicification in feldspar-(quartz) porphyry, disseminated pyrite 1-2%
KAT37	706816	5514865	1568	G	Moderately chloritized granodiorite with some stain of Mn-Fe oxides
KAT38	706909	5514797	1559	G	Quartz vein and granodiorite wall-rock material, chloritized, no visible sulfide mineralization
KAT39	707009	5515247	1634	G	Moderately rusty-yellow, oxidized, quartz vein; massive coarse-crystalline quartz
KAT39A	707009	5515247	1634	G	Quartz vein material, whitish, waxy, coarse-crystalline quartz; no visible sulfide mineralization
KAT40	706937	5515237	1622	SC	Weakly chloritized granodiorite, weak stain of Mn-Fe oxides
KAT41	707213	5514888	1551	SC	Magnetic, dark stained, fine grained (subcrop?)
KAT42	707212	5514899	1555	G	Light colour, bleached, some rust, some manganese stain
KAT43	707209	5514909		G	Strongly magnetic, fractured, dark colour, quartz rich, from dike north of feldspar porphyry.
KAT44	707209	5514909		G	Strongly magnetic, fractured, dark colour, quartz rich, from dike right beside feldspar porphyry, sulphide stringers.
KAT45	707209	5514909		G	Feldspar porphyry adjacent and south of dike, pyrite flecks, light green bleached.
KAT46	707207	5514915	1545	G	North side of approximately 4-5 m wide dike, light coloured, magnetic
KAT47	706969	5514909	1576	G	Magnetic mafic(?) dike
KAT48	706975	5514901	1568	G	Quartz feldspar veinlet in magnetic dike, galena stringer
KAT49	706981	5514901	1568	G	Magnetic, shattered mafic.
KAT50	706927	5514857	1563	F	Rusty, fractured, spotty magnetism.

KAT51	706927	5514857	1563	F	Quartz/feldspar?, pyrite flecks.
KAT52	706868	5514854	1559	G	White quartz/feldspar with black flecks. Magnetic-extensive outcrop, near drill pad
KAT54	706735	5514912	1534	F	Magnetic, dark Mn/Fe oxides
KAT55	706717	5514901	1534	SC	Magnetic, dark Mn/Fe oxides, quartz breccia-like.
KAT56	706717	5514901	1534	SC	Magnetic, dark Mn/Fe oxides
KAT57	706717	5514901	1534	SC	Magnetic, dark Mn/Fe oxides
KAT58	706717	5514901	1534	SC	Magnetic, dark Mn/Fe oxides
KAT59	706762	5514892	1540	SC	Magnetic, dark Mn/Fe oxides
KAT51A	706992	5515411	1611	G	Relatively fine-grained feldspar porphyry, weak chlorite alteration, abundant stain of Mn-Fe oxides
KAT52A	707044	5515437	1620	G	Weakly chloritized granodiorite, weak stain of Mn-Fe oxides, reddish hematite(?)
KAT53A	707087	5515267	1642	G	Weakly chloritized granodiorite (slightly porphyritic), strong stain of Mn-Fe oxides along fractures

Abbreviations:

Sample type: G - grab, C(150) - chip (length in cm), SC - subcrop grab, F - float

APPENDICES

APPENDIX 2 – Rock Sample Analyses – Certified Results



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CERTIFICATE VA10159291

Project: KAT-10

P.O. No.:

This report is for 54 Rock samples submitted to our lab in Vancouver, BC, Canada on 28-OCT-2010.

The following have access to data associated with this certificate:

KRZYSZTOF MASTALERZ

STAN SZARY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
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

ANALYTICAL PROCEDURES

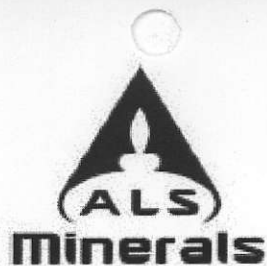
ALS CODE	DESCRIPTION	INSTRUMENT
Ag-AA62	Ore grade Ag - four acid / AAS	AAS
Cu-AA62	Ore grade Cu - four acid / AAS	AAS
Au-TL42	Trace Level Au - 15 g AR	ICP-MS
ME-MS41	51 anal. aqua regia ICPMS	

To: KILLDEER MINERALS INC.
ATTN: KRZYSZTOF MASTALERZ
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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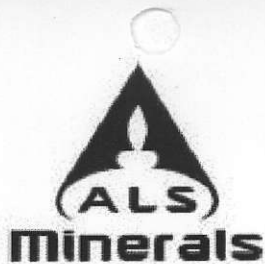
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 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 7-NOV-2010
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Project: KAT-10

CERTIFICATE OF ANALYSIS VA10159291

Sample Description	Method Analyte Units LOR	WEI-21	Au-TL42	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
KAT01		0.84	0.002	0.04	0.83	3.8	<0.2	<10	60	0.31	0.19	0.13	0.04	17.05	4.1	5
KAT02		1.10	0.150	0.66	1.59	24.0	<0.2	<10	40	1.05	3.11	0.16	0.49	79.3	11.2	1
KAT03		0.80	0.003	2.31	0.23	5.9	<0.2	<10	20	0.14	0.72	0.05	0.09	4.99	2.5	7
KAT04		0.78	0.004	0.20	0.77	1.0	<0.2	<10	30	0.29	0.09	0.15	0.34	15.70	3.6	4
KAT05		1.12	0.026	6.25	0.13	10.3	<0.2	<10	30	0.10	0.66	0.03	0.05	4.02	0.5	7
KAT06		1.46	0.012	2.29	0.14	8.9	<0.2	<10	30	0.09	0.51	0.03	0.03	6.37	0.4	8
KAT07		1.06	0.034	3.75	0.16	20.4	<0.2	<10	40	0.17	0.33	0.03	0.15	7.46	0.6	9
KAT08		0.96	0.066	4.49	0.23	6.2	<0.2	<10	20	0.09	0.61	0.05	0.03	4.82	0.8	11
KAT09		1.12	0.002	0.17	0.19	1.2	<0.2	<10	20	0.12	0.23	0.03	0.01	15.00	0.7	9
KAT11		0.72	<0.001	0.30	0.80	1.0	<0.2	<10	40	0.45	0.39	1.05	0.03	19.25	3.1	6
KAT12		0.84	0.004	0.34	0.60	1.0	<0.2	<10	40	0.36	0.49	0.94	0.04	15.05	3.1	5
KAT13		0.74	0.044	0.29	1.76	7.1	<0.2	<10	20	1.11	0.54	0.15	0.02	14.15	18.3	3
KAT14		0.60	0.002	0.03	0.53	0.1	<0.2	<10	20	0.29	0.09	0.30	0.03	18.90	2.6	4
KAT15		0.86	>1.00	3.96	0.55	18.1	1.7	<10	10	2.71	22.8	0.10	5.43	14.60	28.0	<1
KAT16		0.74	0.006	0.09	0.74	1.4	<0.2	<10	70	0.51	0.64	0.12	0.14	17.90	1.8	2
KAT17		0.66	>1.00	40.8	<0.01	59.4	1.5	<10	10	1.97	721	0.04	0.10	2.14	8.9	<1
KAT18		1.14	>1.00	45.9	0.12	63.0	1.7	<10	10	2.54	696	0.50	1.21	3.34	19.8	<1
KAT19		0.72	0.100	4.56	2.95	1.2	<0.2	<10	10	0.85	13.10	0.09	0.39	9.62	10.1	4
KAT20		1.86	>1.00	48.0	0.82	50.1	14.2	<10	10	2.32	1740	0.91	2.76	3.09	22.3	<1
KAT21		0.86	0.059	4.46	0.34	4.5	<0.2	<10	20	0.17	6.02	0.05	0.05	9.45	2.0	7
KAT22		2.06	0.056	8.06	0.25	5.1	<0.2	<10	20	0.14	4.94	0.06	0.24	9.71	1.9	12
KAT23		1.38	0.237	17.70	0.22	62.4	0.2	<10	30	0.13	1.05	0.03	1.60	10.75	1.7	6
KAT31		0.86	0.122	0.56	1.16	5.5	<0.2	<10	60	1.21	6.26	0.08	0.11	21.9	10.1	4
KAT32		0.76	0.003	0.18	1.07	1.1	<0.2	<10	50	0.96	0.49	0.10	0.11	29.6	3.2	4
KAT33		1.02	0.004	0.09	1.15	1.8	<0.2	<10	60	0.82	0.62	0.11	0.08	19.20	2.3	3
KAT34		0.76	0.017	1.91	0.46	0.7	<0.2	<10	20	0.34	0.24	0.20	0.03	10.20	1.2	3
KAT35		0.84	0.037	0.99	2.22	63.7	<0.2	<10	20	2.39	7.16	0.16	0.11	16.50	6.6	4
KAT36		0.80	0.003	0.91	0.35	12.7	<0.2	<10	50	0.31	0.56	0.05	0.01	74.0	0.4	3
KAT37		1.00	0.001	0.22	1.23	0.6	<0.2	<10	70	1.26	0.61	0.15	0.06	33.6	5.7	3
KAT38		0.84	0.006	0.92	0.29	0.6	<0.2	<10	50	0.23	2.26	0.40	0.05	6.76	2.8	6
KAT39		0.92	0.011	0.89	0.02	0.4	<0.2	<10	20	<0.05	2.01	0.01	<0.01	0.96	2.1	12
KAT40		0.78	<0.001	0.02	0.78	0.1	<0.2	<10	50	0.25	0.10	0.14	0.07	23.8	3.8	7
KAT41		0.84	0.986	1.36	1.96	24.5	0.8	<10	60	2.06	27.6	0.16	1.48	21.6	21.1	3
KAT42		0.66	0.005	0.11	0.37	11.8	<0.2	<10	40	0.37	0.27	0.11	0.04	94.6	1.0	4
KAT43		1.18	0.048	0.71	3.10	20.6	<0.2	<10	30	2.45	2.84	1.10	0.20	12.60	18.7	3
KAT44		0.90	0.160	3.53	1.01	7.0	<0.2	<10	20	1.20	1.94	5.16	0.44	19.30	28.2	3
KAT45		0.72	0.003	0.15	0.52	3.7	<0.2	<10	40	0.65	0.25	0.23	0.07	157.0	5.2	2
KAT46		0.94	0.011	0.06	0.65	0.4	<0.2	<10	20	0.45	0.34	0.79	0.02	15.60	2.7	4
KAT47		1.20	0.017	0.51	1.24	9.2	<0.2	<10	50	1.26	1.53	0.20	0.10	26.2	12.5	3
KAT48		1.28	0.008	0.65	0.64	1.3	<0.2	<10	40	0.47	2.33	0.44	0.04	19.70	2.9	4

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



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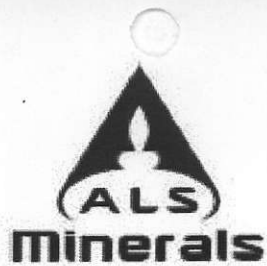
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 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 7-NOV-2010
 Account: KILMIN

Project: KAT-10

CERTIFICATE OF ANALYSIS VA10159291

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
KAT01		0.71	3.5	1.33	3.14	<0.05	0.06	<0.01	0.032	0.25	6.0	6.2	0.29	433	0.65	0.05
KAT02		2.69	59.4	9.90	7.69	0.16	0.13	0.01	3.70	0.43	44.7	10.3	0.26	4620	2.66	<0.01
KAT03		0.41	34.1	0.89	1.10	<0.05	0.02	<0.01	0.042	0.12	2.8	2.3	0.03	122	9.13	0.02
KAT04		0.91	15.6	1.38	3.77	<0.05	0.04	<0.01	0.031	0.13	7.8	12.9	0.39	959	6.73	0.03
KAT05		0.24	48.3	0.56	0.60	<0.05	<0.02	<0.01	0.070	0.07	2.1	1.1	0.02	66	33.2	<0.01
KAT06		0.32	58.7	0.54	0.67	<0.05	0.02	<0.01	0.036	0.09	4.9	1.1	0.02	59	13.50	<0.01
KAT07		0.54	71.8	0.92	0.72	<0.05	0.02	<0.01	0.058	0.15	4.2	1.0	0.01	66	7.67	<0.01
KAT08		0.24	33.4	0.58	0.95	<0.05	<0.02	<0.01	0.029	0.09	2.6	2.3	0.05	134	3.87	0.02
KAT09		0.49	34.3	0.45	1.15	<0.05	0.04	<0.01	0.013	0.14	10.5	1.0	0.04	122	1.32	<0.01
KAT11		1.68	16.9	1.30	2.64	<0.05	0.04	<0.01	0.079	0.26	11.0	12.7	0.33	1050	0.53	0.03
KAT12		1.31	23.4	1.01	1.93	<0.05	0.05	<0.01	0.080	0.23	7.9	6.1	0.22	912	0.62	0.02
KAT13		3.08	12.9	6.66	5.05	0.10	0.10	0.01	3.64	0.37	7.6	11.8	0.31	9150	2.17	0.01
KAT14		1.72	5.5	0.97	2.14	<0.05	0.14	<0.01	0.057	0.15	10.0	6.6	0.20	583	0.18	0.04
KAT15		0.93	457	36.8	7.05	1.28	0.04	0.03	47.4	0.04	11.1	3.2	0.10	>50000	23.5	0.01
KAT16		2.79	6.0	1.90	2.72	<0.05	0.09	<0.01	0.709	0.32	10.3	5.6	0.09	4910	0.90	0.01
KAT17		0.46	5770	40.7	1.67	1.90	0.04	0.02	245	0.01	1.1	0.3	0.06	4760	1.09	<0.01
KAT18		0.27	>10000	41.9	3.64	1.80	0.05	0.04	230	<0.01	1.7	0.5	0.06	26600	13.65	0.01
KAT19		1.97	1710	7.29	9.71	<0.05	0.07	<0.01	7.84	0.31	5.3	20.8	0.65	7300	4.68	<0.01
KAT20		0.42	6680	41.4	6.62	1.04	0.07	0.05	83.5	0.03	1.8	3.5	0.56	>50000	13.50	0.02
KAT21		0.60	24.1	0.87	1.11	<0.05	0.02	<0.01	0.326	0.22	5.2	1.9	0.06	326	3.70	0.01
KAT22		0.60	31.0	0.84	2.28	<0.05	0.02	0.16	0.242	0.09	5.1	3.1	0.10	316	24.9	0.01
KAT23		0.70	63.6	1.69	1.99	<0.05	0.02	<0.01	0.230	0.20	5.8	0.8	0.02	62	56.0	<0.01
KAT31		6.33	173.0	7.07	4.77	0.06	0.12	<0.01	4.19	0.39	9.5	7.2	0.17	3300	2.11	0.01
KAT32		3.73	16.3	2.84	3.64	<0.05	0.17	<0.01	1.775	0.34	11.0	7.7	0.15	3250	1.29	0.01
KAT33		6.51	7.2	3.64	3.94	<0.05	0.13	<0.01	2.03	0.31	10.3	6.8	0.16	6380	1.66	0.01
KAT34		1.47	5.9	1.00	2.23	<0.05	0.16	<0.01	0.094	0.17	5.3	3.4	0.11	1290	1.53	0.03
KAT35		4.73	13.7	11.60	11.05	0.13	0.07	0.01	34.5	0.25	12.3	14.8	0.33	46400	7.03	0.01
KAT36		0.93	6.3	0.50	2.64	<0.05	0.16	<0.01	0.090	0.26	38.6	0.9	0.02	176	4.54	0.01
KAT37		3.31	17.5	3.50	4.66	<0.05	0.05	<0.01	2.31	0.30	21.6	9.5	0.24	6880	0.26	<0.01
KAT38		0.93	10.0	0.74	1.62	<0.05	0.02	<0.01	0.066	0.14	5.2	2.8	0.09	743	0.55	<0.01
KAT39		0.23	6.2	0.73	0.80	<0.05	<0.02	<0.01	0.040	0.03	0.5	0.4	0.01	92	466	<0.01
KAT40		0.56	4.7	1.50	4.34	<0.05	0.03	<0.01	0.023	0.12	10.9	6.4	0.41	666	3.07	0.04
KAT41		2.64	123.0	10.20	7.86	0.13	0.09	<0.01	8.92	0.29	13.2	13.4	0.31	6310	12.15	0.01
KAT42		1.14	1.7	0.75	3.52	<0.05	0.23	<0.01	0.057	0.24	27.3	2.1	0.03	334	3.21	0.03
KAT43		3.26	186.5	11.80	10.20	0.17	0.07	<0.01	4.58	0.19	8.0	24.4	0.92	9050	2.13	0.01
KAT44		2.29	1080	3.42	3.84	<0.05	0.08	<0.01	4.02	0.27	10.4	7.2	0.38	9290	3.66	0.01
KAT45		1.53	4.7	0.63	2.91	0.10	0.43	<0.01	0.054	0.29	61.0	4.5	0.07	663	2.69	0.04
KAT46		1.86	7.3	1.42	2.49	<0.05	0.05	<0.01	0.445	0.28	6.7	5.1	0.19	2160	0.75	0.01
KAT47		4.18	27.9	4.16	4.23	<0.05	0.03	<0.01	3.02	0.38	14.5	10.2	0.21	7710	169.5	0.01
KAT48		1.38	13.1	1.90	2.26	<0.05	0.02	<0.01	0.468	0.26	10.9	5.3	0.15	3540	166.5	<0.01



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm
KAT01		0.16	3.6	420	5.6	17.6	<0.001	0.01	0.09	1.3	<0.2	<0.2	13.9	<0.01	0.02	5.9
KAT02		0.20	1.9	320	14.7	28.1	<0.001	0.19	0.34	0.9	0.2	0.5	27.4	<0.01	0.03	12.9
KAT03		0.07	1.3	110	64.7	9.7	<0.001	0.01	0.49	0.5	<0.2	<0.2	8.0	<0.01	0.51	1.6
KAT04		0.05	5.0	380	9.4	9.5	<0.001	0.01	0.09	1.0	<0.2	<0.2	13.6	<0.01	0.02	6.2
KAT05		0.05	0.7	100	181.5	5.3	<0.001	0.01	0.56	0.4	<0.2	<0.2	7.0	<0.01	0.44	1.1
KAT06		0.08	0.8	120	188.0	6.3	<0.001	0.02	0.90	0.3	<0.2	<0.2	26.8	<0.01	0.23	2.0
KAT07		0.05	0.9	170	152.0	12.0	<0.001	0.03	1.05	0.4	0.2	<0.2	37.5	<0.01	0.11	2.1
KAT08		0.06	1.3	170	64.2	6.9	<0.001	0.01	0.28	0.4	<0.2	<0.2	5.9	<0.01	0.29	2.4
KAT09		0.08	0.9	150	26.0	9.4	<0.001	<0.01	0.05	0.4	<0.2	<0.2	6.4	<0.01	0.08	2.9
KAT11		<0.05	3.7	510	6.5	19.5	<0.001	0.05	<0.05	1.4	<0.2	0.2	70.7	<0.01	0.01	5.9
KAT12		<0.05	2.6	330	6.4	19.0	<0.001	0.11	<0.05	1.0	<0.2	0.2	80.3	<0.01	0.01	5.9
KAT13		0.08	3.4	270	8.0	21.5	<0.001	0.04	0.18	1.4	<0.2	<0.2	40.0	<0.01	0.02	6.2
KAT14		<0.05	2.7	290	4.7	8.9	<0.001	<0.01	0.05	1.3	<0.2	<0.2	32.5	<0.01	<0.01	12.8
KAT15		0.35	6.2	20	26.4	5.1	<0.001	0.01	1.18	1.1	0.4	0.2	273	0.01	0.10	0.3
KAT16		0.06	1.7	320	5.9	19.7	<0.001	0.01	0.05	1.0	<0.2	<0.2	23.4	<0.01	<0.01	6.6
KAT17		0.35	2.3	10	30.4	1.0	0.001	0.74	1.86	1.0	0.8	0.2	2.5	0.01	0.07	0.2
KAT18		0.45	8.4	<10	82.7	0.6	0.001	1.62	1.65	1.6	0.8	0.2	17.8	0.01	0.14	<0.2
KAT19		0.07	4.2	260	24.8	27.0	<0.001	0.09	0.08	2.1	<0.2	0.2	4.3	<0.01	0.03	9.6
KAT20		0.39	6.9	40	212	2.8	0.002	1.51	2.06	1.3	0.7	<0.2	28.3	0.01	0.26	1.0
KAT21		<0.05	1.2	230	18.2	15.6	<0.001	0.03	0.08	0.5	<0.2	<0.2	5.2	<0.01	0.21	2.7
KAT22		<0.05	2.0	190	79.9	9.1	<0.001	0.11	0.49	0.5	<0.2	<0.2	10.4	<0.01	3.08	2.3
KAT23		0.09	1.4	330	1030	15.4	<0.001	1.02	1.00	0.5	<0.2	<0.2	28.6	<0.01	2.50	3.6
KAT31		0.19	2.9	270	14.3	30.9	<0.001	0.01	0.36	1.3	<0.2	0.3	22.8	<0.01	0.06	7.4
KAT32		0.13	1.6	300	12.7	24.6	<0.001	0.01	0.10	1.1	<0.2	0.2	24.1	<0.01	0.01	11.8
KAT33		0.08	2.5	310	3.7	22.8	<0.001	<0.01	0.10	1.4	<0.2	<0.2	54.7	<0.01	<0.01	6.2
KAT34		0.07	1.6	230	14.8	12.5	<0.001	<0.01	0.07	0.8	<0.2	<0.2	11.4	<0.01	0.01	11.3
KAT35		0.13	4.4	220	8.8	23.5	<0.001	0.03	0.68	1.8	<0.2	0.3	232	<0.01	0.06	4.0
KAT36		0.30	0.3	260	21.9	21.9	<0.001	<0.01	0.37	0.4	<0.2	<0.2	8.8	<0.01	0.01	15.2
KAT37		0.24	1.9	480	6.7	22.0	<0.001	0.02	0.10	1.6	<0.2	<0.2	16.9	<0.01	0.02	6.4
KAT38		0.05	1.1	170	5.5	9.7	<0.001	0.05	0.06	0.7	<0.2	<0.2	16.4	<0.01	0.68	2.0
KAT39		<0.05	0.9	20	7.1	2.7	0.008	0.06	0.06	0.2	0.5	<0.2	2.2	<0.01	0.25	0.6
KAT40		0.05	4.7	480	5.9	7.9	<0.001	<0.01	<0.05	2.1	<0.2	<0.2	10.1	<0.01	0.03	7.2
KAT41		0.12	6.5	250	166.0	24.6	<0.001	0.04	0.37	1.6	<0.2	0.2	49.4	0.01	0.48	5.1
KAT42		0.39	0.4	340	11.1	22.5	<0.001	0.05	0.22	0.6	<0.2	<0.2	21.1	<0.01	0.01	29.1
KAT43		0.14	6.2	220	5.2	15.2	<0.001	0.09	0.22	2.2	<0.2	0.3	72.6	<0.01	0.07	5.4
KAT44		0.11	3.5	160	9.4	19.0	<0.001	0.29	0.13	1.6	0.3	<0.2	142.5	0.01	0.03	2.4
KAT45		0.27	0.6	480	9.8	24.7	<0.001	0.04	0.12	0.7	0.2	<0.2	30.6	<0.01	<0.01	25.6
KAT46		<0.05	2.3	360	3.5	19.3	<0.001	0.02	<0.05	1.0	<0.2	<0.2	34.6	<0.01	0.01	5.0
KAT47		0.15	3.1	640	7.5	27.2	0.001	0.09	0.09	1.8	<0.2	<0.2	41.6	<0.01	0.06	6.8
KAT48		0.07	2.5	300	15.6	16.4	0.001	0.03	0.10	0.8	<0.2	<0.2	33.9	<0.01	0.07	3.6



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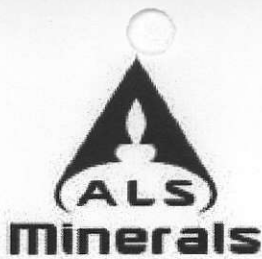
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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Ag-AA62	Cu-AA62
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Cu %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	1	0.001
KAT01		0.006	0.14	1.20	15	0.36	2.62	30	1.4		
KAT02		0.014	0.27	5.20	8	1.27	5.08	392	3.8		
KAT03		<0.005	0.08	0.85	4	0.32	1.48	51	<0.5		
KAT04		<0.005	0.19	2.58	10	0.14	3.97	85	0.8		
KAT05		<0.005	0.04	1.27	3	0.38	0.99	46	<0.5		
KAT06		<0.005	0.06	1.34	2	0.21	1.17	89	<0.5		
KAT07		<0.005	0.10	2.37	4	0.32	2.31	104	<0.5		
KAT08		<0.005	0.06	0.79	4	0.19	1.21	77	<0.5		
KAT09		<0.005	0.07	0.63	4	0.18	2.16	20	1.1		
KAT11		<0.005	0.16	2.58	9	0.10	6.10	34	0.7		
KAT12		<0.005	0.15	2.69	6	0.23	4.95	24	0.7		
KAT13		0.010	0.19	5.60	9	6.39	4.33	59	1.8		
KAT14		<0.005	0.06	4.97	11	0.10	3.84	21	2.4		
KAT15		<0.005	0.03	7.03	8	18.65	20.7	1620	0.7		
KAT16		<0.005	0.16	2.69	5	0.12	4.16	41	2.5		
KAT17		<0.005	0.10	0.37	5	5.08	8.21	225	<0.5	41	0.553
KAT18		<0.005	0.17	3.28	4	9.53	13.25	957	<0.5	46	1.010
KAT19		<0.005	0.17	3.28	19	0.15	2.90	420	1.2		
KAT20		<0.005	0.11	2.85	9	14.85	18.05	1440	0.8	47	0.593
KAT21		<0.005	0.10	0.96	3	0.12	1.61	20	0.6		
KAT22		<0.005	0.09	2.51	5	0.17	3.45	56	<0.5		
KAT23		<0.005	0.19	3.85	4	0.30	3.44	394	<0.5		
KAT31		0.013	0.43	3.37	7	0.32	2.83	109	3.6		
KAT32		0.010	0.22	3.29	5	0.17	3.94	103	3.9		
KAT33		0.011	0.26	5.96	6	0.15	3.42	73	2.7		
KAT34		<0.005	0.08	4.38	4	0.07	2.80	28	3.3		
KAT35		0.010	0.20	23.5	9	4.41	7.82	155	1.4		
KAT36		<0.005	0.15	1.91	1	0.10	3.05	9	6.4		
KAT37		0.020	0.20	3.96	6	0.99	4.25	79	0.9		
KAT38		<0.005	0.07	0.40	2	0.35	2.61	16	<0.5		
KAT39		<0.005	0.02	0.24	<1	0.21	0.19	2	<0.5		
KAT40		<0.005	0.05	1.66	20	<0.05	2.51	56	0.9		
KAT41		0.007	0.29	5.59	10	0.92	8.47	818	2.5		
KAT42		0.005	0.13	4.43	4	0.24	6.72	15	6.4		
KAT43		0.016	0.14	2.11	12	0.62	7.14	292	1.2		
KAT44		0.007	0.14	1.87	4	0.69	21.6	124	1.0		
KAT45		0.005	0.17	4.44	3	0.17	13.65	23	15.7		
KAT46		<0.005	0.13	1.69	7	0.12	4.79	28	1.0		
KAT47		0.017	0.27	1.54	10	0.66	5.76	99	0.6		
KAT48		<0.005	0.15	0.82	4	0.58	4.08	38	<0.5		



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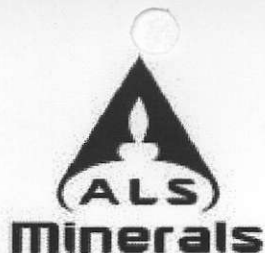
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Sample Description	Method Analyte Units LOR	WEI-21	Au-TL42	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
KAT49		0.74	0.496	0.16	1.46	1.3	<0.2	<10	40	1.26	0.26	0.16	0.02	27.0	3.3	14
KAT50		0.56	0.964	4.93	0.82	328	1.4	<10	20	0.47	4.91	0.05	0.01	16.90	2.7	2
KAT51		0.74	0.040	0.90	0.19	19.1	<0.2	<10	30	0.18	0.20	0.04	0.01	8.55	1.6	4
KAT52		0.56	0.001	0.03	0.74	0.8	<0.2	<10	180	0.26	0.06	0.43	0.04	25.9	4.8	5
KAT54		0.56	0.044	0.26	3.72	1.1	<0.2	<10	40	1.61	0.41	0.14	0.44	29.0	10.4	3
KAT55		0.76	0.273	3.15	1.27	2.7	0.2	<10	20	0.94	22.3	0.03	<0.01	26.5	67.5	4
KAT56		0.56	0.632	7.31	0.63	3.3	0.3	<10	10	0.47	27.8	0.01	1.15	7.73	45.8	7
KAT57		0.48	0.086	4.43	0.66	1.8	0.2	<10	10	0.58	16.05	0.01	0.54	6.36	35.9	5
KAT58		0.60	>1.00	2.94	3.67	17.4	1.2	<10	10	4.92	5.72	0.03	0.22	13.60	52.1	2
KAT59		0.56	0.243	2.00	0.52	4.7	0.2	<10	30	0.26	24.4	0.02	0.10	12.90	23.1	6
KAT51A		0.64	0.004	0.11	0.75	0.4	<0.2	<10	140	0.78	0.47	0.49	0.47	115.0	2.7	2
KAT52A		0.70	0.003	0.96	0.76	3.8	<0.2	<10	50	0.32	0.70	0.11	<0.01	10.40	2.3	4
KAT53A		0.74	0.002	0.11	0.90	1.5	<0.2	<10	100	0.54	0.44	0.55	0.04	158.5	5.1	3
KAT39A		0.62	<0.001	0.09	0.07	0.4	<0.2	<10	10	<0.05	0.26	0.01	0.01	1.04	1.7	9

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CERTIFICATE OF ANALYSIS VA10159291

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
KAT49		2.10	6.6	5.69	4.43	<0.05	0.03	<0.01	2.02	0.30	15.5	12.8	0.25	10900	5.54	0.01
KAT50		1.00	99.2	11.00	9.00	0.10	0.03	<0.01	7.42	0.13	13.3	2.5	0.05	574	26.0	0.01
KAT51		1.33	3.6	0.81	1.03	<0.05	0.04	<0.01	0.040	0.14	2.6	0.8	0.02	284	4.79	0.02
KAT52		1.01	3.0	1.77	4.01	<0.05	0.03	<0.01	0.028	0.14	14.0	6.7	0.44	676	0.25	0.05
KAT54		2.69	51.3	11.45	9.69	0.15	0.03	<0.01	1.900	0.30	15.3	31.1	1.03	9050	0.61	0.01
KAT55		1.06	17.3	7.04	4.49	<0.05	0.02	<0.01	2.92	0.16	23.9	16.1	0.22	3640	472	0.01
KAT56		0.12	11.3	6.36	2.48	<0.05	<0.02	<0.01	3.31	0.02	3.7	11.7	0.20	6040	309	0.01
KAT57		0.15	25.6	8.54	2.75	0.08	<0.02	<0.01	3.28	0.02	4.3	7.7	0.20	6580	304	0.01
KAT58		0.69	16.4	23.0	12.65	0.46	0.05	0.02	5.72	0.09	6.0	54.3	0.75	21100	57.5	0.01
KAT59		0.64	21.9	5.39	2.79	<0.05	<0.02	<0.01	4.59	0.06	11.2	5.2	0.06	16950	2640	0.01
KAT51A		2.05	5.4	1.32	3.92	0.12	0.24	<0.01	0.194	0.26	63.9	6.4	0.25	2590	9.31	0.02
KAT52A		1.74	5.9	2.06	4.13	<0.05	0.05	<0.01	0.410	0.25	4.8	4.9	0.19	783	83.9	0.02
KAT53A		2.35	7.4	1.53	4.56	0.12	0.42	<0.01	0.099	0.32	91.7	10.2	0.28	1180	1.54	0.04
KAT39A		0.16	5.7	0.47	0.31	<0.05	<0.02	<0.01	0.016	0.02	0.6	1.1	0.03	254	3.42	0.01

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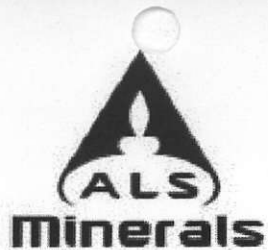
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CERTIFICATE OF ANALYSIS VA10159291

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Nb ppm 0.05	Ni ppm 0.2	P ppm 10	Pb ppm 0.2	Rb ppm 0.1	Re ppm 0.001	S % 0.01	Sb ppm 0.05	Sc ppm 0.1	Se ppm 0.2	Sn ppm 0.2	Sr ppm 0.2	Ta ppm 0.01	Tc ppm 0.01	Th ppm 0.2
KAT49		0.09	10.1	440	3.8	20.7	<0.001	0.02	0.10	1.2	<0.2	<0.2	80.8	<0.01	0.02	2.7
KAT50		0.25	1.0	300	29.4	10.6	<0.001	0.14	1.74	0.9	<0.2	<0.2	9.5	<0.01	0.12	2.3
KAT51		0.08	0.7	160	40.3	10.1	<0.001	0.04	0.14	0.3	<0.2	<0.2	5.7	<0.01	0.01	3.2
KAT52		0.19	3.0	610	3.4	8.6	<0.001	<0.01	<0.05	2.2	<0.2	0.2	33.9	<0.01	0.01	5.1
KAT54		0.14	6.2	540	4.7	20.6	<0.001	<0.01	0.08	3.1	<0.2	<0.2	18.7	<0.01	0.04	5.5
KAT55		0.17	9.8	200	34.6	11.8	0.005	1.36	0.14	1.3	0.5	<0.2	10.4	<0.01	1.19	1.7
KAT56		0.11	6.3	20	267	1.5	0.002	0.90	0.12	0.9	1.0	<0.2	15.5	<0.01	0.92	0.4
KAT57		0.15	4.2	40	83.4	1.5	0.002	0.78	0.15	0.8	<0.2	<0.2	16.9	<0.01	0.54	0.4
KAT58		0.33	9.1	250	46.9	6.5	<0.001	1.30	0.40	2.9	<0.2	<0.2	24.4	0.01	0.32	3.3
KAT59		0.15	4.6	40	23.5	4.7	0.036	0.62	0.21	0.8	0.6	<0.2	68.4	<0.01	2.22	0.4
KAT51A		0.28	1.2	1190	21.6	20.5	0.001	<0.01	0.07	1.9	<0.2	0.2	52.9	0.01	<0.01	12.2
KAT52A		0.13	1.8	410	12.1	21.8	<0.001	0.15	0.56	1.2	<0.2	<0.2	11.2	<0.01	0.40	4.4
KAT53A		0.13	3.4	1040	7.9	25.7	<0.001	0.02	0.08	1.4	0.2	0.2	63.8	<0.01	0.01	16.3
KAT39A		<0.05	0.9	10	2.2	1.8	<0.001	0.07	<0.05	0.2	0.4	<0.2	1.6	<0.01	0.01	<0.2

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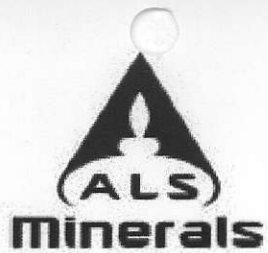
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CERTIFICATE OF ANALYSIS VA10159291

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Ag-AA62	Cu-AA62
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Cu %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	1	0.001
KAT49		0.020	0.15	1.12	8	1.85	5.59	64	0.6		
KAT50		0.008	0.09	1.17	13	2.18	1.55	29	0.7		
KAT51		<0.005	0.08	0.67	<1	0.24	1.22	12	0.9		
KAT52		0.014	0.05	0.50	24	<0.05	5.65	47	<0.5		
KAT54		0.013	0.14	2.13	19	0.42	3.66	412	0.6		
KAT55		0.012	0.17	2.41	7	1.32	2.01	90	0.5		
KAT56		<0.005	0.02	1.14	3	1.92	3.02	298	<0.5		
KAT57		0.005	0.03	1.36	4	4.23	1.84	260	<0.5		
KAT58		0.032	0.06	6.75	20	14.85	7.97	259	0.9		
KAT59		0.005	0.42	4.36	2	0.65	1.62	53	<0.5		
KAT51A		0.010	0.17	2.81	10	0.27	9.72	183	11.4		
KAT52A		0.007	0.19	2.65	12	0.37	2.32	43	1.5		
KAT53A		0.006	0.19	3.16	11	0.14	9.15	44	19.4		
KAT39A		<0.005	0.02	0.16	1	0.20	0.62	4	<0.5		



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Method	CERTIFICATE COMMENTS
ME-MS41 ME-MS41	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). Interference: Mo > 400ppm on ICP-MS Cd, ICP-AES results shown.