

Ministry of Energy, Mines & Petroleum Resources
Mining & Minerals Division
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Technical; diamond drilling

TOTAL COST: 1,250,000

AUTHOR(S): Chris Gallagher, M. Sc.

SIGNATURE(S):



NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): MX-1626

YEAR OF WORK: 2016

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5629970 (2016-Dec-20) and 5640137 (2017-Mar-02)

PROPERTY NAME: Gibraltar Mines

CLAIM NAME(S) (on which the work was done): 507748, 204104, 207143 and 207658.

COMMODITIES SOUGHT: Copper

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 093B 049, 050, 059, 060

MINING DIVISION: Cariboo

NTS/BCGS:

LATITUDE: 52 ° 29 '54 " LONGITUDE: 122 ° 15 '26 " (at centre of work)

OWNER(S):

1) Gibraltar Mine Ltd.

2)

MAILING ADDRESS:

10251 Gibraltar Mine Road, PO Box 130

McLeese Lake, British Columbia V0L 1P0

OPERATOR(S) [who paid for the work]:

1) Gibraltar Mine Ltd.

2)

MAILING ADDRESS:

10251 Gibraltar Mine Road, PO Box 130

McLeese Lake, British Columbia V0L 1P0

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Granite Mountain Batholith (subalkaline) with hybrid border, a tonalite central phase and a trondhjemite northern phase,

Late Triassic, Mesozoic and Paleozoic, Quesnel Terrane. Mineralized zones hosted in Granite Mountain batholith tonalite within shear and alteration zones.

Measured and Indicated Resources: 1,092 million tons at 0.254 % copper and 0.008 % molybdenum

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 35944, 33268, 32225, 26547, 26237, 26064,

25352, 25170, 24624, 24067, 23782, 23781, 20435, 18829, 17050, 15712, 35602

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 _____	_____	_____	_____
Other _____	_____	_____	_____
DRILLING (total metres; number of holes, size)			
Core 5843 m; 10 holes, NQ	507748, 204104, 207143, 207658		1,179,779
Non-core _____	_____	_____	_____
RELATED TECHNICAL			
Sampling/assaying 250 samples			70,221
Petrographic _____	_____	_____	_____
Mineralographic _____	_____	_____	_____
Metallurgic _____	_____	_____	_____
PROSPECTING (scale, area) _____	_____	_____	_____
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:	1,250,000

Assessment Report on
the 2016 GibNW Exploration Program

Performed on the Gibraltar Mine Property

Located in the Cariboo Mining Division
British Columbia

NTS: 093B 08/09
BCGS: 093B 049, 050, 059, 060

Centered at approximately
Latitude 52° 29' 54" N, Longitude 122° 15' 26" W
550420 mE, 5816740 mN
UTM NAD 83, Zone 10

Operator: Gibraltar Mines Ltd.

Author:
Chris Gallagher, M. Sc.
March 15, 2017

Table of Contents

Introduction.....	1
Location.....	1
Physiography and Climate.....	1
Access.....	1
History.....	4
Claims.....	5
Regional Geology.....	14
Property Geology.....	16
Gibraltar NW (GibNW) Geology.....	18
Lithology.....	18
Alteration.....	19
Structure.....	21
Mineralization.....	21
2016 Exploration Program.....	22
Surveying.....	23
Core Recovery.....	23
Sampling Method and Approach.....	23
Hole Summaries.....	29
Geochemical Results.....	33
Whole Rock Geochemistry.....	35
Structural Analysis.....	40
Conclusions.....	43
Recommendations.....	45
References.....	45

List of Figures

Figure 1 - Location Map.....	3
Figure 2 - Tenure Map.....	13
Figure 3 - Regional Geology Map (after Logan et al., 2010).....	14
Figure 4 - Geological map of the area between Williams Lake and Quesnel (Schiarizza, 2014)	15
Figure 5 - Property Geology (after Bysouth et al., 1995).....	17
Figure 6 – 2016 DDH Location Map.....	25

Figure 7 – DDH Section A.....	26
Figure 8 – DDH Section B.....	27
Figure 9 – DDH Section C.....	28
Figure 10a – Lithologic discrimination diagram.....	36
Figure 10b – Plutonic Rock Classification.....	37
Figure 10c – R1-R2 Plutonic Variation Diagram.....	38
Figure 10d - MgO vs TiO ₂ and MgO vs SiO ₂ XY Plots.....	38
Figure 10e – Tukey Box Plots – Economic Elements of Interest.....	39
Figure 10f – Tukey Box Plots – Major Elements.....	40
Figure 11a – Stereonet – S1 Foliation.....	41
Figure 11b – Stereonet – Mineralized Veins.....	42
Figure 11c – Stereonet – Late Stage Veins.....	43
Figure 12 – 3D view of Cu distribution in the GibNW zone.....	44

List of Tables

Table 1 – Claim / Mine Lease	5
Table 2 – Lithologic Descriptions.....	19
Table 3 – Alteration Assemblage Descriptions.....	20
Table 4 – 2016 DDH Collar Location Table.....	22
Table 5 – 2016 Exploration Program Significant Intercepts.....	34
Table 6 – Least altered average values of elements of interest.....	37

List of Appendices

Appendix 1 – Statement of Qualifications
Appendix II – Statement of Expenditures
Appendix III - Exploration and Development Work/Expiry Date Change
Appendix IV - Analytical Procedures
Appendix V - Analytical Certificates
Appendix VI - DDH Strip Logs

INTRODUCTION

The Gibraltar open pit mine and related facilities are located 65 km north of the city of Williams Lake and are centered at latitude 52° 30'N and longitude 122° 16'W, in the Cariboo Mining Division. Williams Lake is approximately 590 km north of Vancouver, British Columbia.

The Gibraltar Mine is held in an unincorporated joint venture between Gibraltar Mines Ltd. (75%) and Cariboo Copper Corporation (25%). The mine property currently consists of 211 contiguous mineral claims comprising 19,795 hectares and 32 mining leases comprising 2,275 hectares. Gibraltar Mines Ltd. (Client Number 141999) holds registered title to the mineral claims as trustee for Cariboo Copper Corporation. On August 9th Gibraltar Mines Limited acquired an adjacent landpackage, totaling nearly 6,000 acres, which overlies the strike extension of the GibW / Extension deposits located on the mine lease (See Gibraltar Mine Limited NR August 9, 2016). A 19165' (5843.0m) drill program, consisting of 10 NQ diamond drill holes, was conducted between November 17th, 2016 and February 14th, 2017. The exploration program was successful in confirming the presence of porphyry style mineralization along strike of the GibW / Extension zone, under the new claims. This new zone of mineralization is referred to as the Gibraltar NW Zone of GibNW. Total expenditures for the program were \$1,250,000.

LOCATION

The Gibraltar open pit mine related facilities, centered at latitude 52° 30'N and longitude 122° 16'W, are located 65 km north of the City of Williams Lake. Williams Lake is located approximately 590 km north of Vancouver, British Columbia (Figure 1). The property is situated in the Cariboo Mining Division of British Columbia.

PHYSIOGRAPHY AND CLIMATE

Climatic conditions are typical of central British Columbia with a temperature range of +30° to -40°C. Annual precipitation is 50 centimetres with approximately 35% falling as snow. The climate is a moderate continental type with cold winters and warm summers.

The deposit lies at elevations between 1,068 and 1,251 metres, featuring moderate topographic relief of approximately 200 metres.

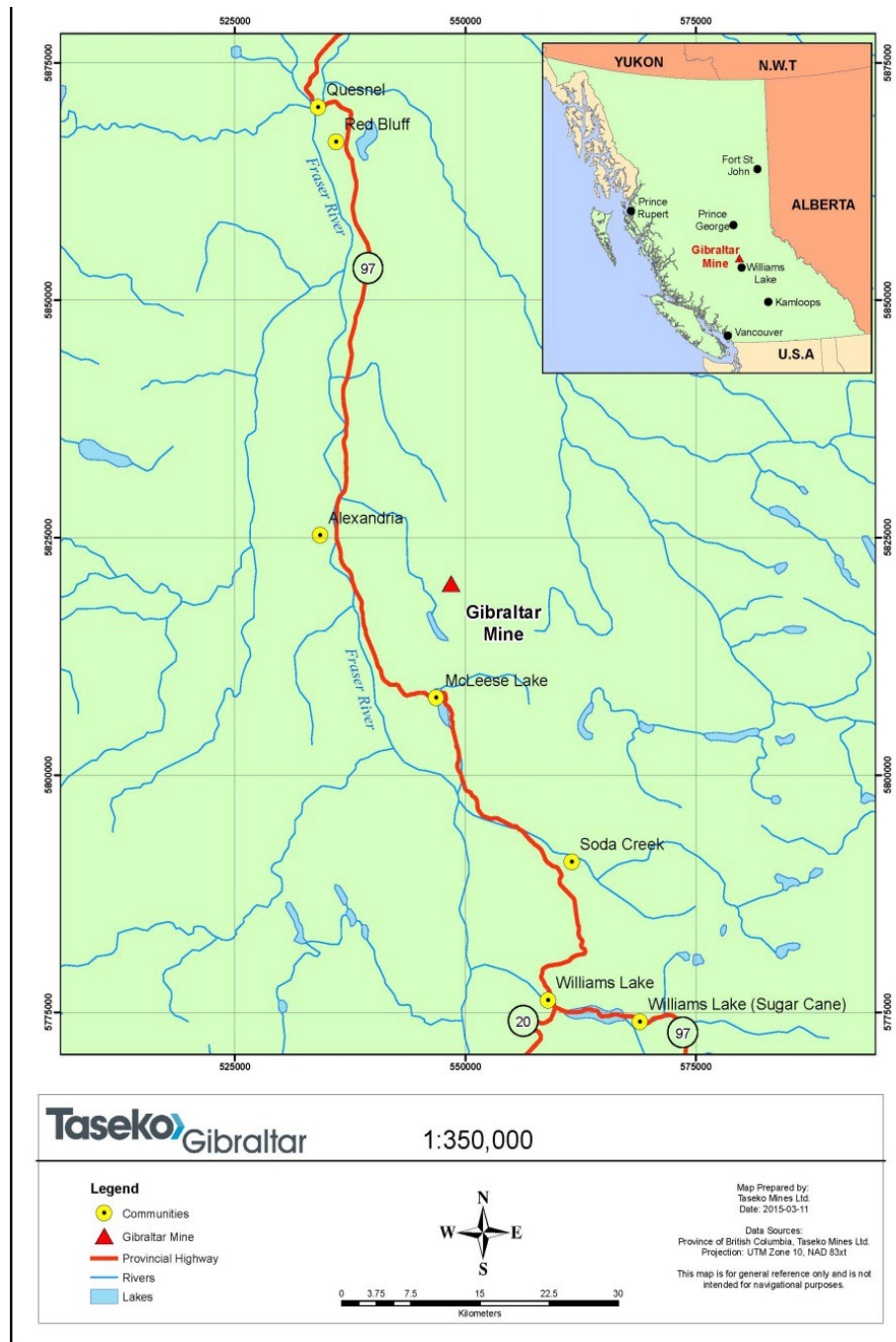
Forestation in the project area is predominantly spruce, fir and pine. Poplar, birch trees and alders are frequently found within the coniferous areas. Red willow, wild rose and an assortment of grasses and shrubs are the expected vegetation in basins, clearings and gullies. Small lakes and swamps are characteristic of the area and are customarily found bordered by tall grasses and aquatic vegetation.

ACCESS

The Gibraltar Mine (Figure 1) is easily accessed by a paved road that joins Highway 97 at the Village of McLeese Lake and located approximately 29 kilometres north of McLeese Lake. From Williams Lake, BC take Cariboo Hwy/BC-97N for 43km, after passing through McLeese

Lake, BC turn right onto Beaver Lake Rd and continue for 3.4km, turn left onto Gibraltar Mine Road and continue for 16km to the mine site located at 10251 Gibraltar Mine Rd.

Figure 1 - Location Map



The Canadian National Railway services McLeese Lake and moves concentrate through to the Pacific Ocean Port of Vancouver. Accommodation for mine employees and supplies are available in the nearby communities of Williams Lake, Quesnel, and McLeese Lake. Williams Lake is serviced by daily flights from Vancouver.

HISTORY

Initial work activity recorded on the property was undertaken in 1917. The British Columbia Ministry of Mines Annual Report lists Joseph Briand and partners' exploration of copper bearing quartz veins on the Rainbow group of mineral claims. These showings are believed to be the same occurrence as those 60 metres west of the current Pollyanna pit. Subsequent reports describe prospecting in the area of Granite Mountain up until the 1960's. In the 1960's modern exploration techniques were employed by major mining companies as they explored the Granite Mountain area. Induced Polarization Geophysical Surveys and Diamond Drilling became effective deposit defining tools. Keevil Mines Ltd., Duval Corporation Canex Placer Ltd., Gibraltar Mines Ltd. (at the time a junior exploration company), Cominco Ltd., Mitsubishi Mining Co., and Canex (at that time a wholly-owned subsidiary of Placer Development) were all companies that worked and/or optioned some of the deposits. In 1969, Gibraltar, Canex and Duval entered into an agreement grouping a number of claims together for development. In 1971 Gibraltar acquired the remaining interest in the property it did not already have.

Preliminary development of the mine began in October 1970 and on April 1, 1971 construction commenced. The concentrator commenced production on March 8, 1972 and was fully operational by March 31, 1972. Mining and milling operations were suspended on December 1, 1993 due to low copper prices and recommenced in September 1994 following the increase in copper prices.

In October 1996, Westmin Resources Limited (Westmin) acquired 100% control of Gibraltar and in December 1997, Boliden Limited acquired Westmin. In March 1998, Boliden announced that it would cease mining operation at Gibraltar Mine at the end of 1998.

Taseko Mines Limited acquired its interest in the assets of Gibraltar in a transaction with Boliden in July 1999. They carried out soil sampling, mapping, induced polarization surveying and diamond drilling between 2000 and 2003 in the search for more ore.

After a period of care and maintenance, mining operations recommenced in May 2004. Milling production began in October of that year.

A number of core drilling programs have been undertaken since 2005 through 2014 to increase the level of geological knowledge and confidence in the reserve model of the Gibraltar deposits and to test areas near these deposits.

In 2011 Gibraltar Mines Ltd. had an airborne ZTEM electromagnetic and magnetic survey flown over its then existing claims surrounding the Gibraltar mine. A total of some 690 line kilometres of Z-Axis Tipper electromagnetic and magnetic data was collected. An assessment report titled "An Assessment Report On Airborne Z-Axis Tipper Electromagnetic & Magnetic Survey, Gibraltar Mines, Cariboo Mining Division, British Columbia" was prepared in April 2011 by Peter E. Walcott & Associates Limited of Vancouver for Gibraltar Mines Ltd.

July 2015 a ground magnetometer survey was performed over 36.6 line kilometres on four mineral claims (tenure numbers: 850473, 850475, 850482 and 946877). It should be noted that of the 36.6 line kilometres, 34.6 line kilometres were on ground not covered by the 2011 airborne survey.

In 2015 one exploration diamond drill hole was collared and drilled to a total depth of 2,507'

(tenure number 207658). The exploration hole (DDH 2015-001) was targeted to extend known mineralization at the Extension deposit in an under drilled area at the NW end of the zone. Mine Series Tonalite was encountered throughout the length of the hole with porphyritic alteration and faulting associated with mineralization. Copper mineralization is related to both quartz-sericite-chlorite (qsc) and quartz-sericite-pyrite (qsp) alteration with the strongest mineralization associated with qsp. Faulting shows an important association with copper as is demonstrated with the two larger fault zones logged within and bordering areas of higher mineralization.

CLAIMS

In the period from November 17th, 2016 to February 14th, 2017 work was conducted on mineral claims # 207658 and 207143, on the Gibraltar Mine property (Figure 2). Gibraltar Mines Ltd. (Client Number 141999) holds registered title to the mineral claim as trustee for Cariboo Copper Corporation and was the operator of the program described in this report. The current Gibraltar Mine property mineral claims and mining leases are outlined in Table 1. All mineral claims to which work was applied are listed in Appendix III “Exploration and Development Work/Expiry Date Change”.

Table 1 – Claim / Mine Lease

Title Number	Name	Type	Issue Date	Good To Date	Area (ha)
207491		Lease	1972/JUL/26	2017/JUL/26	116.03
207492		Lease	1972/JUL/26	2017/JUL/26	35.12
207493		Lease	1972/JUL/26	2017/JUL/26	82.26
207494		Lease	1972/JUL/26	2017/JUL/26	57.53
207495		Lease	1972/JUL/26	2017/JUL/26	69.07
207496		Lease	1972/JUL/26	2017/JUL/26	66.56
207497		Lease	1972/JUL/26	2017/JUL/26	73.56
207498		Lease	1972/JUL/26	2017/JUL/26	143.87
207499		Lease	1972/JUL/26	2017/JUL/26	95.11
207500		Lease	1972/JUL/26	2017/JUL/26	12.37
207501		Lease	1972/JUL/26	2017/JUL/26	16.85
207502		Lease	1972/JUL/26	2017/JUL/26	3.12
207503		Lease	1972/JUL/26	2017/JUL/26	119.47
207504		Lease	1972/JUL/26	2017/JUL/26	0.51
207505		Lease	1972/JUL/26	2017/JUL/26	28.72
207506		Lease	1972/JUL/26	2017/JUL/26	172.61
207507		Lease	1972/JUL/26	2017/JUL/26	0.06
207508		Lease	1972/JUL/26	2017/JUL/26	36.62

Title Number	Name	Type	Issue Date	Good To Date	Area (ha)
207515		Lease	1973/OCT/11	2017/OCT/11	28.34
207516		Lease	1973/OCT/11	2017/OCT/11	72.71
207517		Lease	1973/OCT/11	2017/OCT/11	152.04
207518		Lease	1973/OCT/11	2017/OCT/11	33.71
207519		Lease	1973/OCT/11	2017/OCT/11	20.46
207520		Lease	1973/OCT/11	2017/OCT/11	37.75
306737		Lease	1973/OCT/11	2017/OCT/11	8.81
207511		Lease	1972/OCT/23	2017/OCT/23	64.98
207513		Lease	1972/OCT/23	2017/OCT/23	58.56
207514		Lease	1972/OCT/23	2017/OCT/23	113.14
1017923		Lease	2013/MAR/19	2018/MAR/19	104.0
1017924		Lease	2013/MAR/19	2018/MAR/19	281.0
207512		Lease	1973/JUN/11	2018/JUN/11	109.0
352646		Lease	1997/JUN/25	2018/JUN/25	60.74
560525	GL-1A	Claim	2007/JUN/12	2021/JUN/12	315.0755
604694	GL2	Claim	2009/MAY/19	2021/MAY/19	177.2734
204307	HY 15	Claim	1980/JUN/10	2022/AUG/15	150.0
204308	HY 16	Claim	1980/JUN/10	2022/AUG/15	100.0
204309	HY 17	Claim	1980/JUN/10	2022/AUG/15	50.0
204443	HY 19	Claim	1981/MAR/24	2022/AUG/15	50.0
204444	HY 20	Claim	1981/MAR/24	2022/AUG/15	50.0
204518	BRUCE I	Claim	1981/JUN/29	2022/AUG/15	300.0
204519	PAUL I	Claim	1981/JUN/29	2022/AUG/15	300.0
204539	ZE 3	Claim	1981/AUG/17	2022/AUG/15	500.0
204914	HY 22	Claim	1985/JAN/02	2022/AUG/15	50.0
204975	ZE 7	Claim	1985/AUG/16	2022/AUG/15	50.0
207632	GM 65	Claim	1964/MAR/02	2022/AUG/15	25.0
207633	GM 66	Claim	1964/MAR/02	2022/AUG/15	25.0
207634	GM 67	Claim	1964/MAR/02	2022/AUG/15	25.0
207635	GM 68	Claim	1964/MAR/02	2022/AUG/15	25.0
207636	GM 69	Claim	1964/MAR/02	2022/AUG/15	25.0
207637	GM 70	Claim	1964/MAR/02	2022/AUG/15	25.0
207638	GM 71	Claim	1964/MAR/02	2022/AUG/15	25.0

Title Number	Name	Type	Issue Date	Good To Date	Area (ha)
207639	GM 72	Claim	1964/MAR/02	2022/AUG/15	25.0
207644	JAN NO. 5	Claim	1964/APR/10	2022/AUG/15	25.0
207645	JAN NO. 6	Claim	1964/APR/10	2022/AUG/15	25.0
207647	AL #2	Claim	1964/JUL/02	2022/AUG/15	25.0
207648	AL #3	Claim	1964/JUL/02	2022/AUG/15	25.0
207649	AL #4	Claim	1964/JUL/02	2022/AUG/15	25.0
207650	AL #5	Claim	1964/JUL/02	2022/AUG/15	25.0
207651	AL #6	Claim	1964/JUL/02	2022/AUG/15	25.0
207653	AL #8	Claim	1964/JUL/02	2022/AUG/15	25.0
207655	AL #10	Claim	1964/JUL/02	2022/AUG/15	25.0
207657	AL #12	Claim	1964/JUL/02	2022/AUG/15	25.0
207658	SUMMIT NO.7	Claim	1964/JUL/20	2022/AUG/15	25.0
207659	SUMMIT NO.8	Claim	1964/JUL/20	2022/AUG/15	25.0
207661	GM 104	Claim	1964/AUG/21	2022/AUG/15	25.0
207682	EV #9	Claim	1965/OCT/19	2022/AUG/15	25.0
207683	EV #10	Claim	1965/OCT/19	2022/AUG/15	25.0
207684	EV #11	Claim	1965/OCT/19	2022/AUG/15	25.0
207685	EV #12	Claim	1965/OCT/19	2022/AUG/15	25.0
207686	EV #13	Claim	1965/OCT/19	2022/AUG/15	25.0
207687	EV #14	Claim	1965/OCT/19	2022/AUG/15	25.0
207692	EV #15	Claim	1966/JAN/17	2022/AUG/15	25.0
207693	EV #16	Claim	1966/JAN/17	2022/AUG/15	25.0
207694	EV #17	Claim	1966/JAN/17	2022/AUG/15	25.0
207695	EV #18	Claim	1966/JAN/17	2022/AUG/15	25.0
207696	EV #19	Claim	1966/JAN/17	2022/AUG/15	25.0
207697	EV #20	Claim	1966/JAN/17	2022/AUG/15	25.0
207698	BUD #5	Claim	1966/JAN/17	2022/AUG/15	25.0
207699	BUD #6	Claim	1966/JAN/17	2022/AUG/15	25.0
207700	IT NO. 1	Claim	1966/FEB/14	2022/AUG/15	25.0
207701	IT NO. 4	Claim	1966/FEB/14	2022/AUG/15	25.0
207702	IT NO. 5	Claim	1966/FEB/14	2022/AUG/15	25.0
207703	IT NO. 6	Claim	1966/FEB/14	2022/AUG/15	25.0
207704	IT NO. 8	Claim	1966/FEB/14	2022/AUG/15	25.0

Title Number	Name	Type	Issue Date	Good To Date	Area (ha)
207705	VAL NO.1	Claim	1966/MAR/19	2022/AUG/15	25.0
207706	VAL NO.2	Claim	1966/MAR/18	2022/AUG/15	25.0
207707	VAL NO.3	Claim	1966/MAR/18	2022/AUG/15	25.0
207708	VAL NO.4	Claim	1966/MAR/18	2022/AUG/15	25.0
207709	VAL NO.5	Claim	1966/MAR/18	2022/AUG/15	25.0
207710	VAL NO.6	Claim	1966/MAR/18	2022/AUG/15	25.0
207711	VAL NO.7	Claim	1966/MAR/18	2022/AUG/15	25.0
207712	VAL NO.8	Claim	1966/MAR/18	2022/AUG/15	25.0
207713	VAL NO.9	Claim	1966/MAR/18	2022/AUG/15	25.0
207714	VAL NO.10	Claim	1966/MAR/18	2022/AUG/15	25.0
207715	VAL NO.11	Claim	1966/MAR/18	2022/AUG/15	25.0
207716	VAL NO.12	Claim	1966/MAR/18	2022/AUG/15	25.0
207717	VAL NO.14	Claim	1966/MAR/18	2022/AUG/15	25.0
207718	VAL NO.19	Claim	1966/MAR/18	2022/AUG/15	25.0
207720	VAL NO.21	Claim	1966/MAR/18	2022/AUG/15	25.0
207721	VAL NO.22	Claim	1966/MAR/18	2022/AUG/15	25.0
207722	VAL NO.27	Claim	1966/MAR/18	2022/AUG/15	25.0
207723	FFE #13	Claim	1966/MAY/16	2022/AUG/15	25.0
207724	FFE #14	Claim	1966/MAY/16	2022/AUG/15	25.0
207725	FFE #15	Claim	1966/MAY/16	2022/AUG/15	25.0
207726	FFE #16	Claim	1966/MAY/16	2022/AUG/15	25.0
207729	BUD 7	Claim	1966/JUN/14	2022/AUG/15	25.0
207730	BUD 8	Claim	1966/JUN/14	2022/AUG/15	25.0
207731	EV 21	Claim	1966/JUN/14	2022/AUG/15	25.0
207732	EV 22	Claim	1966/JUN/14	2022/AUG/15	25.0
207749	PINE TREE #1	Claim	1967/JUL/04	2022/AUG/15	25.0
207750	PINE TREE #2	Claim	1967/JUL/04	2022/AUG/15	25.0
207751	FLO #2 FR.	Claim	1967/AUG/03	2022/AUG/15	25.0
207752	FLO #3 FR.	Claim	1967/AUG/29	2022/AUG/15	25.0
207753	FLO #4 FR.	Claim	1967/AUG/29	2022/AUG/15	25.0
207754	PINE TREE #3	Claim	1967/SEP/06	2022/AUG/15	25.0
207755	PINE TREE #4	Claim	1967/SEP/06	2022/AUG/15	25.0
207756	PINE TREE #5	Claim	1967/SEP/06	2022/AUG/15	25.0

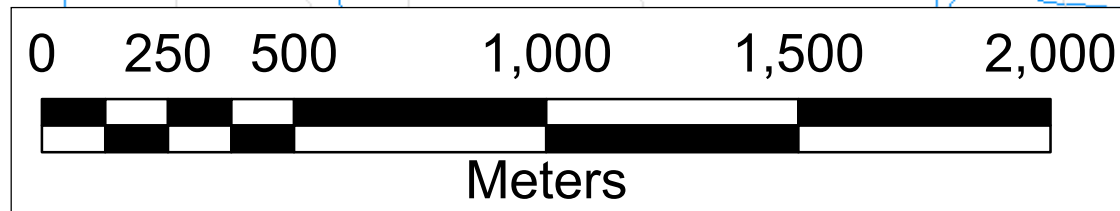
Title Number	Name	Type	Issue Date	Good To Date	Area (ha)
207757	PINE TREE #6	Claim	1967/SEP/06	2022/AUG/15	25.0
207758	CAROL #4 FR	Claim	1968/JUL/12	2022/AUG/15	25.0
207763	H.A. #1	Claim	1968/OCT/16	2022/AUG/15	25.0
207764	H.A. #2	Claim	1968/OCT/16	2022/AUG/15	25.0
207766	H.A. #4	Claim	1968/OCT/16	2022/AUG/15	25.0
207767	HAS 2	Claim	1968/OCT/16	2022/AUG/15	25.0
207768	HAS 12	Claim	1968/OCT/16	2022/AUG/15	25.0
207769	HAS 13	Claim	1968/OCT/16	2022/AUG/15	25.0
207770	HAS 14	Claim	1968/OCT/16	2022/AUG/15	25.0
207771	HAS 15	Claim	1968/OCT/16	2022/AUG/15	25.0
207772	HAS 16	Claim	1968/OCT/16	2022/AUG/15	25.0
850482		Claim	2011/APR/01	2022/AUG/15	471.3729
204217	BARB I	Claim	1979/NOV/14	2022/AUG/25	300.0
204218	BRENT I	Claim	1979/NOV/14	2022/AUG/25	150.0
204219	JANIS I	Claim	1979/NOV/14	2022/AUG/25	75.0
204301	HY 9	Claim	1980/JUN/10	2022/AUG/25	50.0
204302	HY 10	Claim	1980/JUN/10	2022/AUG/25	300.0
204303	HY 11	Claim	1980/JUN/10	2022/AUG/25	225.0
204304	HY 12	Claim	1980/JUN/10	2022/AUG/25	350.0
204305	HY 13	Claim	1980/JUN/10	2022/AUG/25	150.0
204306	HY 14	Claim	1980/JUN/10	2022/AUG/25	175.0
1033395	GIB1	Claim	2015/JAN/15	2022/NOV/15	550.9501
1033396	GIB2	Claim	2015/JAN/15	2022/NOV/15	492.1496
204104	HY 1	Claim	1978/MAY/01	2022/NOV/15	100.0
204105	HY 4	Claim	1978/MAY/01	2022/NOV/15	150.0
204107	HY 7	Claim	1978/MAY/01	2022/NOV/15	75.0
204115	TIM 1	Claim	1978/AUG/28	2022/NOV/15	50.0
204116	COLE 1	Claim	1978/AUG/28	2022/NOV/15	225.0
204159	GEOFF 1	Claim	1979/MAY/29	2022/NOV/15	225.0
204160	DOUG I	Claim	1979/JUN/26	2022/NOV/15	75.0
204161	RYAN I	Claim	1979/JUN/26	2022/NOV/15	25.0
204162	AARON I	Claim	1979/JUN/26	2022/NOV/15	25.0
204300	HY 8	Claim	1980/JUN/10	2022/NOV/15	75.0

Title Number	Name	Type	Issue Date	Good To Date	Area (ha)
204317	HY 3	Claim	1980/JUN/12	2022/NOV/15	225.0
207143	TK 1	Claim	1990/AUG/23	2022/NOV/15	50.0
207144	TK 2	Claim	1990/AUG/24	2022/NOV/15	50.0
207198	TK 3	Claim	1990/SEP/12	2022/NOV/15	100.0
207612	GM 31	Claim	1964/MAR/02	2022/NOV/15	25.0
207613	GM 32	Claim	1964/MAR/02	2022/NOV/15	25.0
207614	GM 33	Claim	1964/MAR/02	2022/NOV/15	25.0
207615	GM 34	Claim	1964/MAR/02	2022/NOV/15	25.0
207616	GM 35	Claim	1964/MAR/02	2022/NOV/15	25.0
207617	GM 36	Claim	1964/MAR/02	2022/NOV/15	25.0
207618	GM 37	Claim	1964/MAR/02	2022/NOV/15	25.0
207619	GM 38	Claim	1964/MAR/02	2022/NOV/15	25.0
207622	GM 49	Claim	1964/MAR/02	2022/NOV/15	25.0
207623	GM 50	Claim	1964/MAR/02	2022/NOV/15	25.0
207624	GM 51	Claim	1964/MAR/02	2022/NOV/15	25.0
207625	GM 52	Claim	1964/MAR/02	2022/NOV/15	25.0
207626	GM 59	Claim	1964/MAR/02	2022/NOV/15	25.0
207627	GM 60	Claim	1964/MAR/02	2022/NOV/15	25.0
207773	HAS 17	Claim	1968/OCT/16	2022/NOV/15	25.0
207774	HAS 18	Claim	1968/OCT/16	2022/NOV/15	25.0
207776	HAS 20	Claim	1968/OCT/16	2022/NOV/15	25.0
207777	VE 21	Claim	1969/APR/28	2022/NOV/15	25.0
207779	VAL #37	Claim	1969/JUL/18	2022/NOV/15	25.0
207780	VAL #39	Claim	1969/JUL/18	2022/NOV/15	25.0
207781	VAL #41	Claim	1969/JUL/18	2022/NOV/15	25.0
207782	VAL #43	Claim	1969/JUL/18	2022/NOV/15	25.0
207783	VAL #45	Claim	1969/JUL/18	2022/NOV/15	25.0
207784	VAL #47	Claim	1969/JUL/18	2022/NOV/15	25.0
207785	VAL #49	Claim	1969/JUL/18	2022/NOV/15	25.0
207787	STU #2 FR.	Claim	1969/JUL/18	2022/NOV/15	25.0
207788	STU #3 FR.	Claim	1969/JUL/18	2022/NOV/15	25.0
207789	STU #4 FR.	Claim	1969/JUL/18	2022/NOV/15	25.0
207792	STU #6 FR.	Claim	1969/AUG/12	2022/NOV/15	25.0

Title Number	Name	Type	Issue Date	Good To Date	Area (ha)
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207794	VAL #36	Claim	1969/AUG/12	2022/NOV/15	25.0
207795	VAL #38	Claim	1969/AUG/12	2022/NOV/15	25.0
207796	VAL #40	Claim	1969/AUG/12	2022/NOV/15	25.0
207797	VAL #42	Claim	1969/AUG/12	2022/NOV/15	25.0
207798	VAL #44	Claim	1969/AUG/12	2022/NOV/15	25.0
207799	VAL #46	Claim	1969/AUG/12	2022/NOV/15	25.0
207800	VAL #48	Claim	1969/AUG/12	2022/NOV/15	25.0
207801	VAL #50	Claim	1969/AUG/12	2022/NOV/15	25.0
207844	IT 3	Claim	1971/APR/06	2022/NOV/15	25.0
207855	SAP #5 FR.	Claim	1972/JUN/21	2022/NOV/15	25.0
207880	HA #5	Claim	1974/MAY/23	2022/NOV/15	25.0
207881	HA #6	Claim	1974/MAY/23	2022/NOV/15	25.0
207882	VAL #23	Claim	1974/MAY/23	2022/NOV/15	25.0
207883	VAL #24	Claim	1974/MAY/23	2022/NOV/15	25.0
207885	VAL #26	Claim	1974/MAY/23	2022/NOV/15	25.0
372063	TM7	Claim	1999/SEP/28	2022/NOV/15	25.0
374757	HD1	Claim	2000/MAR/07	2022/NOV/15	25.0
374758	HD2	Claim	2000/MAR/07	2022/NOV/15	25.0
374759	HD3	Claim	2000/MAR/08	2022/NOV/15	25.0
374760	HD4	Claim	2000/MAR/08	2022/NOV/15	25.0
374761	HD5	Claim	2000/MAR/10	2022/NOV/15	25.0
375873	HD 12	Claim	2000/APR/19	2022/NOV/15	25.0
375874	HD 13	Claim	2000/APR/18	2022/NOV/15	25.0
375875	HD 14	Claim	2000/APR/18	2022/NOV/15	25.0
375876	HD 15	Claim	2000/APR/18	2022/NOV/15	25.0
376489	HD 7	Claim	2000/MAY/05	2022/NOV/15	175.0
376490	HD 8	Claim	2000/MAY/03	2022/NOV/15	125.0
376491	HD 9	Claim	2000/MAY/01	2022/NOV/15	75.0
406338	TK5	Claim	2003/OCT/19	2022/NOV/15	500.0
507748		Claim	2005/FEB/23	2022/NOV/15	1946.553
516589		Claim	2005/JUL/10	2022/NOV/15	236.238
516591		Claim	2005/JUL/10	2022/NOV/15	157.456

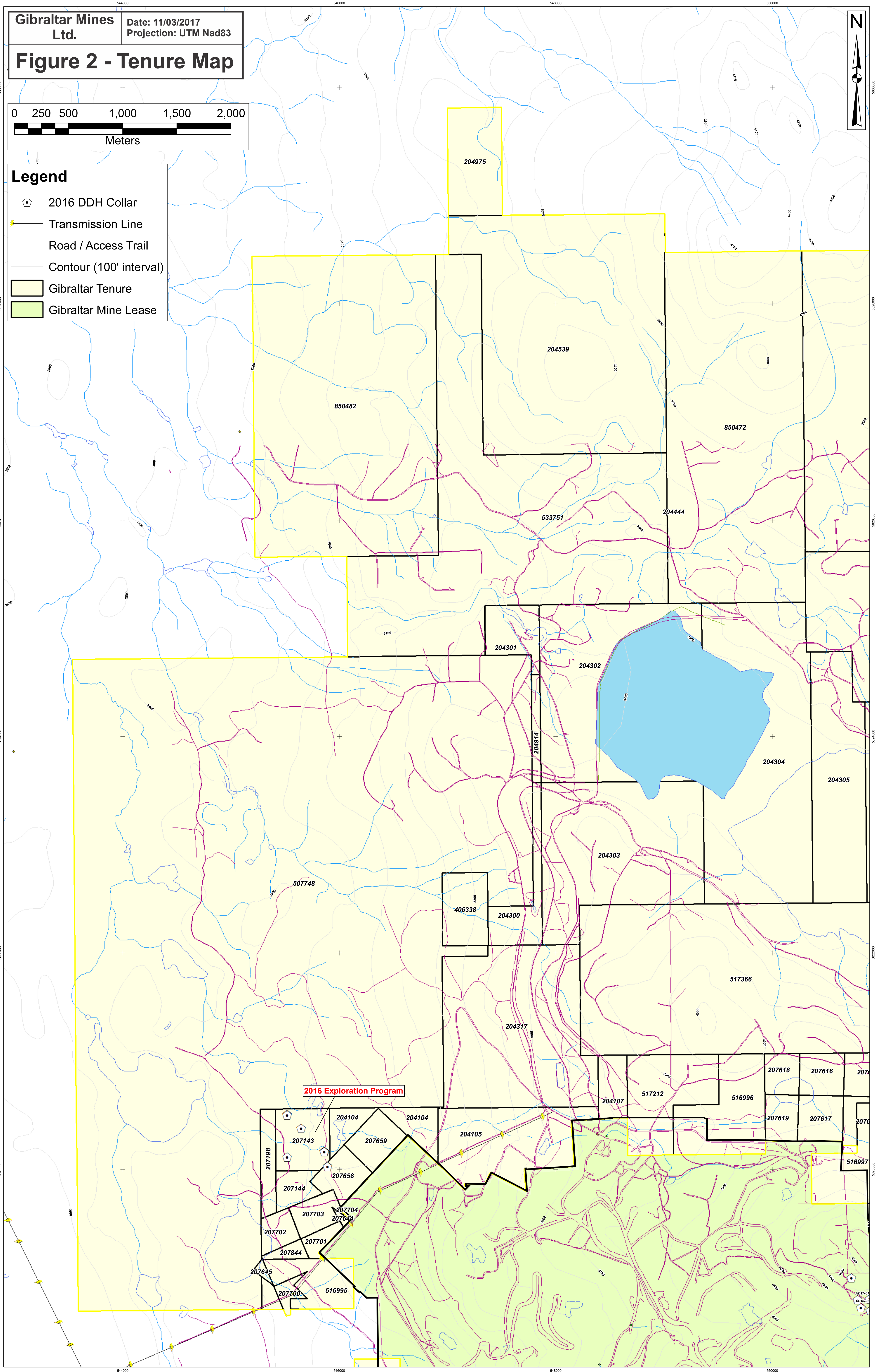
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516593		Claim	2005/JUL/10	2022/NOV/15	59.062
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516603		Claim	2005/JUL/10	2022/NOV/15	98.403
516604		Claim	2005/JUL/10	2022/NOV/15	78.787
516605		Claim	2005/JUL/10	2022/NOV/15	117.999
516876		Claim	2005/JUL/11	2022/NOV/15	630.379
516878		Claim	2005/JUL/11	2022/NOV/15	177.208
516881		Claim	2005/JUL/11	2022/NOV/15	433.009
516883		Claim	2005/JUL/11	2022/NOV/15	531.226
516887		Claim	2005/JUL/11	2022/NOV/15	78.683
516995		Claim	2005/JUL/11	2022/NOV/15	39.351
516996		Claim	2005/JUL/11	2022/NOV/15	59.005
516997		Claim	2005/JUL/11	2022/NOV/15	59.01
517212		Claim	2005/JUL/12	2022/NOV/15	59.003
517366		Claim	2005/JUL/12	2022/NOV/15	412.925
533751	CU ACE NORTH 3	Claim	2006/MAY/08	2022/NOV/15	471.479
739682	CHRIS	Claim	2010/APR/03	2022/NOV/15	39.3135
739702	GRANITE MOUNTAIN	Claim	2010/APR/03	2022/NOV/15	39.3347
739722	GRANITE 2	Claim	2010/APR/03	2022/NOV/15	393.2894
739742	CHRIS 2	Claim	2010/APR/03	2022/NOV/15	393.1019
739783	CHRIS 3	Claim	2010/APR/03	2022/NOV/15	392.9831
831129		Claim	2010/AUG/05	2022/NOV/15	39.3406
831133		Claim	2010/AUG/05	2022/NOV/15	39.3406
850472		Claim	2011/APR/01	2022/NOV/15	412.4648
850473		Claim	2011/APR/01	2022/NOV/15	471.3488
850475		Claim	2011/APR/01	2022/NOV/15	491.0131
946877		Claim	2012/FEB/07	2022/NOV/15	58.9876

Figure 2 - Tenure Map



Legend

-  2016 DDH Collar
 Transmission Line
 Road / Access Trail
 Contour (100' interval)
 Gibraltar Tenure
 Gibraltar Mine Lease

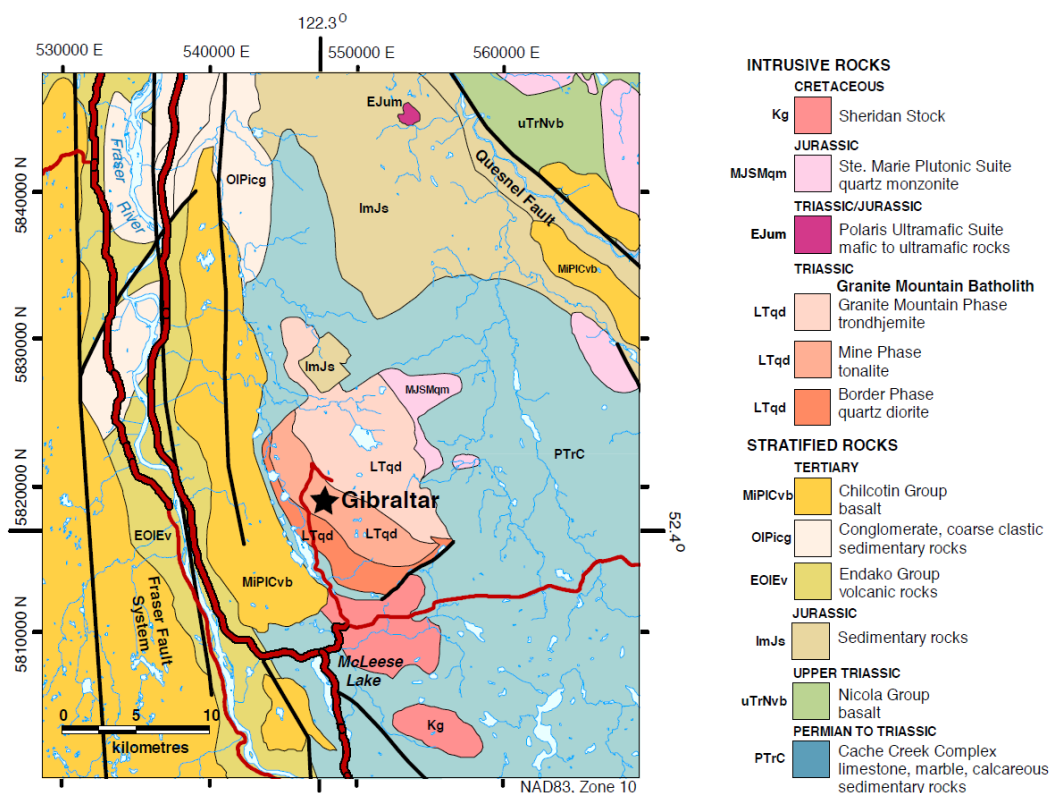


REGIONAL GEOLOGY

Host to the Gibraltar ore bodies is the Granite Mountain batholith. It is found within a wedge of Mesozoic and Paleozoic rocks bounded to the east and west by the Quesnel and Fraser Fault Systems, respectively as shown in Figure 3.

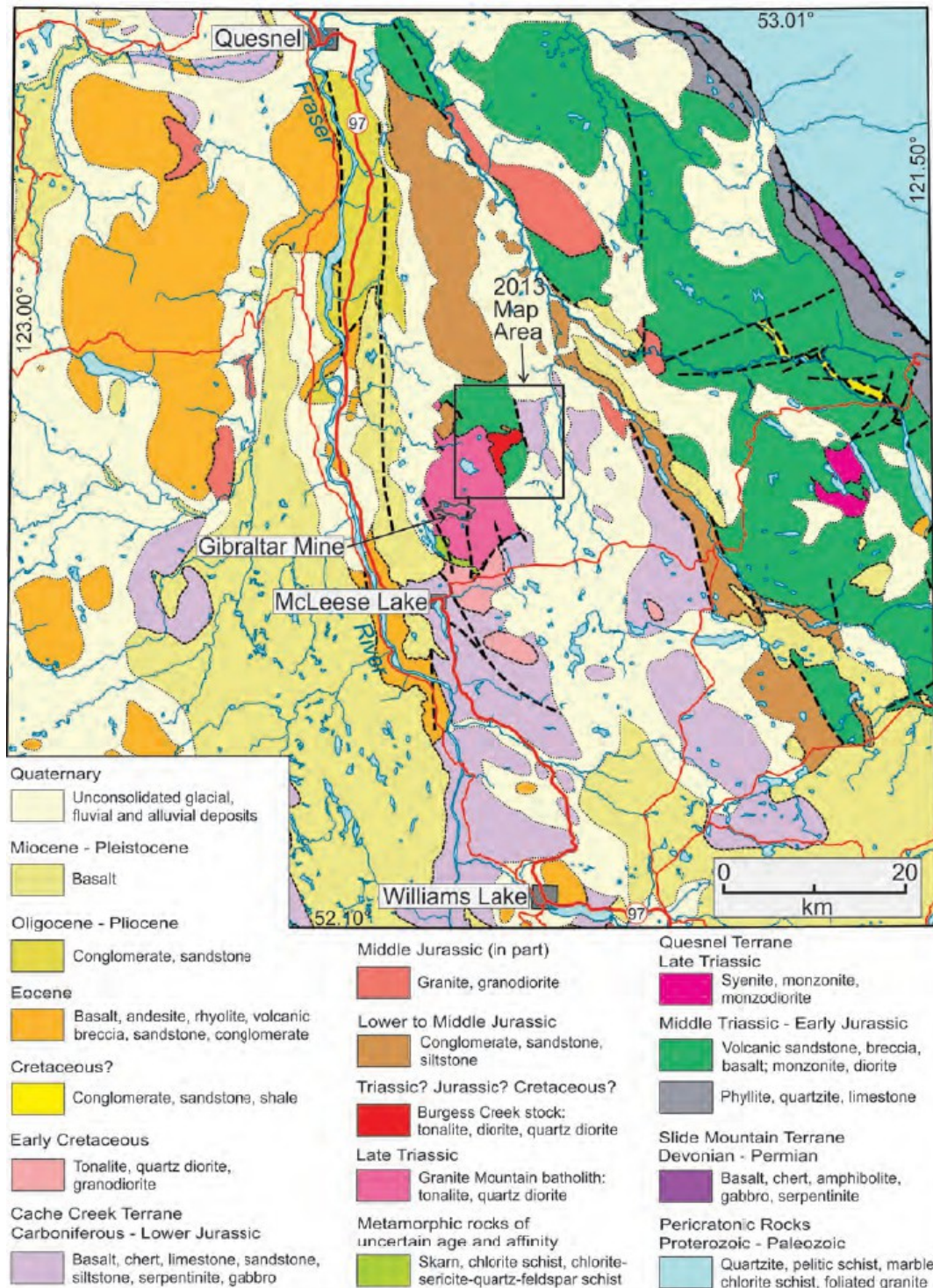
The Granite Mountain batholith is a zoned, peraluminous, subalkaline body with a hybrid border, a tonalite central phase, and a trondhjemite northern phase. The later Cretaceous Sheridan stock consisting of tonalite and dioritic to granodioritic rocks postdates ore stage mineralization as well as alteration and deformation (Figure 3).

Figure 3 - Regional Geology Map (after Logan et al., 2010)



The Quesnel Fault system, consisting of an unknown number of splays, lays 15 to 20 km east of Granite Mountain and was thought to be the boundary marker between the Cache Creek and Quesnel terrane to the east. New geological interpretation from field work by British Columbia Geological Survey (Scharizza, 2014) indicates that the Granite Mountain batholith is inferred to be part of Quesnel terrane. The Granite Mountain batholith, together with adjacent Nicola Group and Dragon Mountain succession, form a panel of Quesnel rocks that is bounded to the east, south, and west by rocks of Cache Creek terrane. The eastern boundary is inferred to be a significant north-northwest striking fault, previously unrecognized, that may record more than 20 km of sinistral strike slip (Figure 4).

Figure 4 - Geological map of the area between Williams Lake and Quesnel (Schiarizza, 2014)



The area has been intensely glaciated and most of the bedrock is covered by glacial till,

accompanied in places by ablation moraine and glaciofluvial deposits. In the vicinity of the Gibraltar East pit, lodgement till overlies a thick, brown sandy till, a possible remnant of earlier glaciation.

PROPERTY GEOLOGY

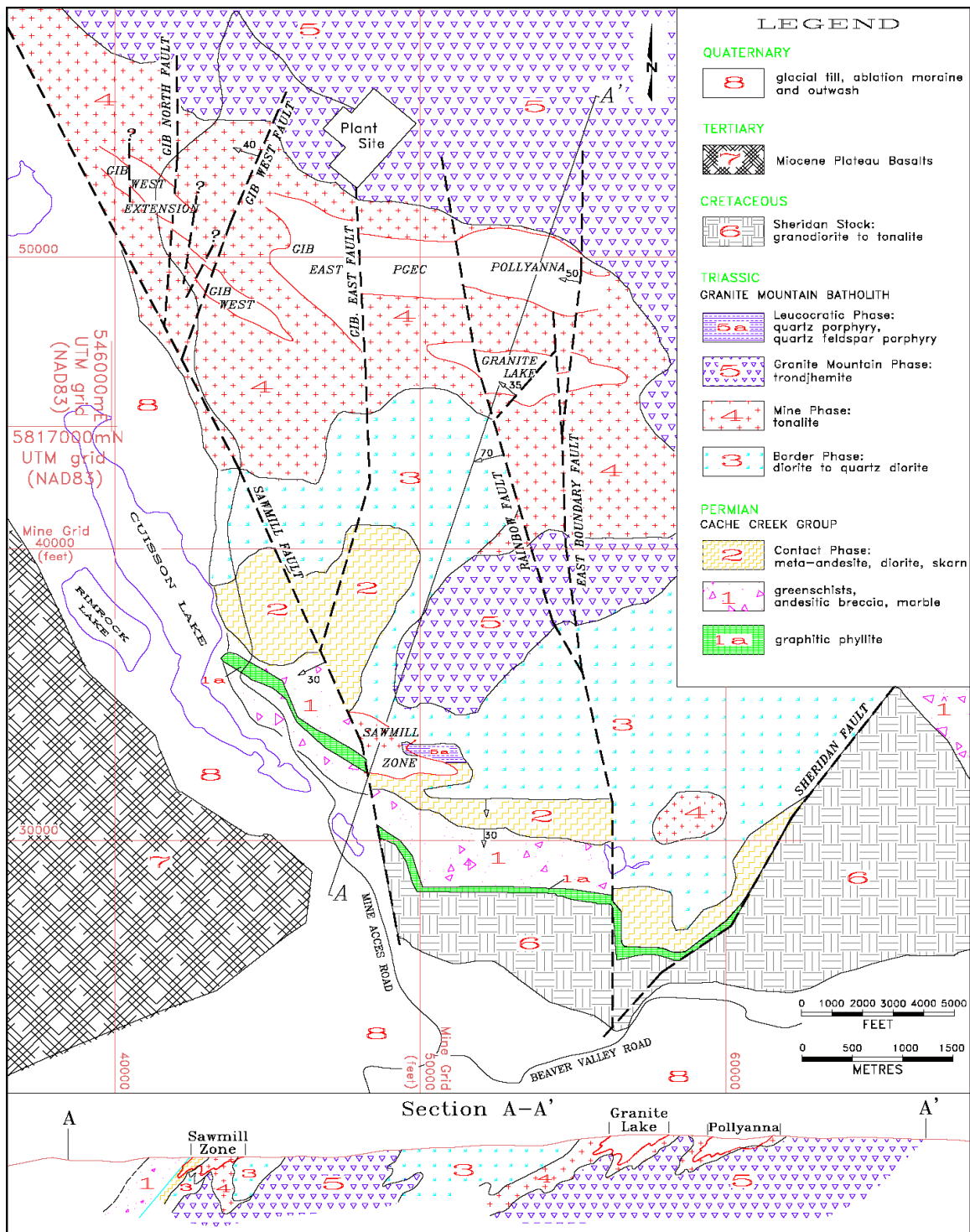
The Gibraltar property consists of five major separate mineralized zones. Four mineralized zones, Pollyanna, Granite (formerly “Granite Lake”), Gibraltar (formerly “Gibraltar East”) and Gibraltar Extension (includes “Gibraltar West”), occur within the Granite Mountain batholith in a broad shear and alteration zone. The fifth copper mineralized body, the Sawmill zone, located approximately six kilometres to the south, is in a complex contact zone between the Cache Creek Group and the batholith. The Granite Mountain Batholith is a composite body consisting of three major phases, Border Phase diorite, Mine Phase tonalite, and Granite Mountain trondhjemite as shown in Figure 5. These and a minor late leucocratic phase of trondhjemitic composition, all occur on the mine property. Contacts between the major phases are gradational over widths ranging from two metres to several hundred metres. Leucocratic phase contacts are either sharp or gradational over widths of less than a metre.

Two major ore structure orientations, the Sunset and Granite Creek Systems, have been identified. The Sunset system is northwesterly striking with varying dip sets. One set dips 35 to 45 degrees southerly and a conjugate set, called the Reverse Sunset, dips 50 to 60 degrees northward. The Granite Creek system strikes east-west with a primary dip set of 20 to 40 degrees south and a secondary set dipping steeply north. Host structures of the Sunset system are primarily expressed as shear zones with minor stockworks with associated foliation lamellae. In the Granite Creek system oriented stockworks predominate along with associated pervasive foliation lamellae.

Ore bodies are grouped by structure orientations systems. The Pollyanna, Granite and Sawmill zone are categorized as Granite Creek system types. They are also generally known as porphyry-type ore, because they have the characteristic large diffuse nature though limited by their structural boundaries. The Gibraltar Extension zone is categorized as shear hosted ore due to its containment within the Sunset complex shear zone. It is expressed as a long, narrow body with sharp ore-waste cutoffs. The Gibraltar zone is marked by an interconnected series of Sunset systems that create a large body of uniform grade.

Mineralization and alteration exhibit a close spatial relationship at Gibraltar Mine. Ore grade mineralization is associated with extensive chloritization and sericitization. Other expected alteration minerals are epidote, carbonate and quartz. Principal sulphides are pyrite and chalcopyrite. Chalcopyrite, frequently barely visible without magnification, forms up to 60 percent ore-grade copper mineralization. This is relatively uniformly distributed as foliation lamellae. Coarser chalcopyrite is commonly in veins or shear zone related. Molybdenite is a minor, but economically important associate of chalcopyrite within the Pollyanna/Granite ore bodies.

Figure 5 - Property Geology (after Bysouth et al., 1995)



The Gibraltar Mine ore bodies are hosted by the upper Triassic Granite Mountain batholith. The batholith exhibits penetrative foliation and regionally is metamorphosed to the upper greenschist facies. Small zones of molybdenite mineralization also occur in the Gibraltar deposit, similar to those in the Granite and Pollyanna ore bodies, but are virtually absent in the Gibraltar Extension zone. Sphalerite is present and particularly abundant in parts of the Gibraltar Extension Zone. This zone also has elevated silver concentrations associated with copper mineralization. The above relationships suggest a possible metal zonation from Pollyanna to the Gibraltar Extension Zone that involves a westerly decrease of molybdenum and a corresponding increase of zinc and silver.

Most of the Tertiary weathering surface has been removed during the periods of Pleistocene glaciation. Regarding non-sulfide copper mineralization the present zone of oxidation and leaching for the Gibraltar deposits is dominantly confined to the upper 1 metre to 3 metres of the bedrock surface.

GIBRALTAR NW (GIBNW) GEOLOGY

Lithology

The geology of the GibNW zone is characterized by a stratigraphic sequence defined by an uppermost 700' thick mine phase tonalite (T), an interlayered zone of transitional quartz eye tonalite (TJ) and tonalite that varies in thickness from 250' to 500', and a lowermost trondhjemite unit (J) of unknown total thickness. Table 2 contains detailed descriptions of the individual lithologies found in the GibNW zone. The entire sequence has been hydrothermally altered and weakly to strongly deformed resulting in a gently North-West dipping package of rocks with a well-developed foliation. Contact relationships, due to intense structural deformation and hydrothermal overprint are not well understood, although sharp contacts between the tonalite and the transitional unit are observed in core. TJ and J were initially logged as TQEP and QEP during the 2016 drill program, but were later changed to TJ and J based on comparisons between whole rock geochemistry data of least-altered rocks collected during the 2016 program with values outlined in Bysouth's paper on tonalite-trondhjemite fractionation at the Gibraltar mine (Bysouth et al., 1995). Visual confirmation of the J was also made using photos of historical drill core. Leucocratic dykes and mafic dykes are also present crosscutting the main rock units.

Leucocratic dykes generally occur in the TJ and J, but are seen locally in the base of the T. These dykes although spatially related don't appear to have any genetic relationship to the trondhjemite. An association between mineralization and leucocratic dykes was observed in the Granite Lake pit during the 2013-2014 drill program, but there does not appear to be any correlation between leucocratic dykes and mineralization in the exploration area. Mafic dykes were only observed at depth crosscutting the TJ and J. One ~26 m interval of leucocratic tonalite (see Table 2 for description), possibly a wide leucocratic dyke, was observed in 2016-E05 at the contact between the TJ and J.

Table 2 – Lithologic Descriptions

Lithology	LithCode	Description
Tonalite	T	Mg, equigranular, pale green with 55-60% feldspar, 20-25% quartz and 15-20% mafics. 2-4 mm sub-rounded to angular epidote-altered feldspar laths, 2-4mm sub-angular to sub-rounded quartz phenocrysts and ~3mm chloritized mafic blebs.
Transitional trondhjemite	TJ (former TQEP)	Mg-cg, grey to pale green with 5-10% 2-6 mm, blue, sub-rounded to rounded quartz phenocrysts. Sections of tonalite-mg, equigranular, pale green tonalite. 45-60% feldspar, 25-50% quartz and 5-15% mafics. 2-4 mm sub-rounded to angular epidote-altered feldspar laths, 2-5mm sub-angular to sub-rounded quartz grains including <5% blue-grey quartz phenocrysts and 3mm chloritized mafic blebs. Well-defined contacts between tonalite and TQEP seen locally, contacts generally gradational.
Trondhjemite	J (former QEP)	Cg, orange to pale grey-green with 40-50% 3-5 mm sub-rounded to angular feldspar laths, 40-50% quartz and 10% 3-5 mm wispy to blebby chloritized mafics. 10-40% 2-12 mm blue-grey quartz phenocrysts are elongate to sub-rounded, locally sigmoidal.
Leucocratic tonalite	L	White, fg (1 mm), aphanitic with 60% plagioclase and 40% qtz crystals, locally with a sugary texture. Possible 1% mafics as fine green brown chl altering to ser. Local sections with strong foliation development, but generally massive.
Leucocratic dyke	D	Leucocratic dykes are generally rare in exploration holes, massive, 0.5-60 cm wide, white to light grey and very fg, with minor sub-angular to rounded <1-2 mm plagioclase and quartz phenocrysts in a siliceous, aphanitic groundmass. Contacts sharp and planar to undulating with distinct chill margins. Select dykes have diffuse contacts.
Mafic dyke	M	Soft, dark green to black, moderately-foliated mafic dykes are 5-85 cm wide with 1-2 mm white, stretched, carbonate-altered phenocrysts and 1-5 mm white, carbonate-altered bands in an aphanitic (<1 mm) mafic groundmass. Commonly with moderate to strong, pervasive chlorite alteration. Mafic dykes have sharp upper and lower contacts, typically with quartz flooding or veining at the margins.

Alteration

The main alteration assemblages (see Table 3 for descriptions) observed in the GibNW zone, include a weak, widespread propylitic (y) assemblage affecting all rock types which is overprinted by varying intensities of hydrothermal assemblages including quartz (q), quartz-sericite (qs), quartz-ankerite (aq), quartz-chlorite (cq), quartz-sericite-chlorite (qsc) and quartz-sericite-pyrite (qsp). There appears to be a zonation with chlorite-rich alteration assemblages (cq, y) occurring close to surface in the tonalite and sericite-dominant assemblages (qsc, qsp, strong qs) overlapping the basal tonalite to the upper trondhjemite contact. Quartz-dominant alteration (q) enveloping sericitic intervals as well as more patchy to pervasive sections (q, aq, weak qs) dominate at depth in the trondhjemite.

There is also a direct correlation between alteration and structure with strong qsc-qsp-qs-aq alteration typically occurring within intense ductile shears that are often crosscut by planar to

sheeted sulphide veins oriented sub-parallel to foliation. Local altered intervals are also related to more brittle structures with late, patchy to pervasive and fracture-controlled hematite-carbonate-clay appearing proximal to brittle fault zones.

Local spatial relationships between the cq-qsc-qsp alteration assemblages are observed with a zonation pattern of cq-qsc-qsp-qsc-cq. This could indicate that there is a progressive development of alteration with cq representing the least intense alteration assemblage and qsp the most intense alteration assemblage related to mineralized veins. Another interpretation is that qsp and qsc are later stages of alteration crosscutting earlier cq, but the relative timing of these alteration types remains unclear.

Table 3 – Alteration Assemblage Descriptions

Alteration	AltCode	Description
ankerite-quartz	aq	Weak, pale-coloured, wispy, beige ankerite is associated with select qsc-qsp altered shear zones within all rock types. Weak to moderate, patchy to pervasive, orange iron carbonate is also observed selectively altering feldspar and epidote veinlets exclusively in the trondhjemite with stronger, pervasive ankerite-quartz related to intense shear zones.
chlorite-quartz	cq	Patchy to pervasive, dark greenish-grey sections with weak to strong quartz-flooding and increased chloritization of mafic minerals. Also common as vein envelopes associated with epidote stringers. Strong alteration may comprise sulphide veins.
hematite	h	Pale pink to red hematite, commonly with carbonate, occurs as a patchy to pervasive overprint typically associated with brittle fault zones. Hematite is also observed coating abundant fractures proximal to faults.
clay	k	Intervals with pervasive white clay replacement to weaker selective alteration of feldspar are generally related to brittle fault zones, commonly occurring with carbonate and/or hematite.
quartz	q	White to grey quartz alteration is most prevalent in the trondhjemite but locally overprints all lithologies as patchy to pervasive silicification of the groundmass to completely replacing quartz-plagioclase. Can also occur as vein alteration halos.
quartz-sericite	qs	Soft, pale bluish-grey sections with strong, pervasive quartz-sericite replacement, commonly associated with zones of intense ductile deformation. Weaker qs intervals have weak, pervasive quartz alteration of the groundmass and weak sericite alteration along foliation.
quartz-sericite-chlorite	qsc	Dark grey to greenish-grey, moderately to strongly-foliated sections with varying proportions of pervasive quartz-sericite-chlorite replacing plagioclase and mafics. Well-developed chlorite-sericite folia typically wrap around elongate to rounded quartz phenocrysts. Sulphide veins to disseminations are common within qsc-altered shear zones. Select qsc shears have cq-altered margins.

Alteration	AltCode	Description
quartz-sericite-pyrite	qsp	Qsp in the 2016 exploration holes is characterized by strong, pervasive, texturally-destructive, translucent grey quartz with strong, pervasive, wispy sericite folia and varying concentrations of disseminated (3-15%), blebby to semi-massive (locally up to 80%) pyrite intergrown with lesser chalcopyrite. Weaker qsp is visible as quartz-sericite vein halos with disseminated pyrite enveloping local quartz-sulphide veins, typically with qsc-altered margins.
propylitic	y	Weak to rarely moderate, pervasive pale green epidote to yellow-green saussurite altering plagioclase with dark green chlorite altering mafic minerals. The most common alteration type overprinting all rock units.

Structure

The lithologic sequence in the GibNW area has undergone at least three phases of deformation including one ductile phase. The oldest deformation event (D_1) is characterized by pervasive ductile deformation (S_1) that results in a weak to strongly developed planar fabric within the host rock. It is characterized by slightly elongate quartz grains, chlorite aggregates, and preferentially aligned plagioclase phenocrysts (weak) to wavy discontinuous planar fabric (moderate), to planar continuous foliation or mylonite (strong). The S_1 foliation in the GibNW zone is consistently moderately to gently SW dipping with an average orientation of 243 / 25 (dip azimuth / dip). Two phases of transitional to brittle deformation overprint the pervasive S_1 foliation; relative timing of the two remains unclear.

Mineralization

Mineralized zones intersected in GibNW are characterized by visible pyrite-chalcopyrite +/- sphalerite hosted within cq-qsc-qsp altered shear zones as blebby to semi-massive disseminations, sheeted quartz-sulphide to chlorite-sulphide veins and as blebs within coarse, massive quartz-chlorite +/- carbonate veins. Disseminated to semi-massive sulphides are fine-grained and pyrite-dominant with minor chalcopyrite intergrowths within pyrite grains. The greatest intensity of semi-massive to disseminated mineralization occurs within qsp-altered shear zones. Lesser chalcopyrite-rich disseminations are typically restricted to vein halos at the margins of chalcopyrite-dominant quartz-sulphide to chlorite-sulphide veins, commonly occurring along chlorite-sericite folia. The highest concentrations of visible red brown to honey-brown sphalerite generally occur within cq-qsc altered shears and select polymetallic quartz veins or massive quartz-chlorite +/- carbonate veins near surface in the T. The main ore trend appears to be moderately-plunging toward the northwest within the basal T, throughout the TJ and within the upper J although discrete, mineralized shear zones crosscut all units.

Qsc to qsp alteration is clearly associated with mineralization, likely originally forming as vein alteration halos enveloping sulphide veins. It remains unclear whether ductile shearing occurred before or after the mineralized veins were emplaced since the orientation of sulphide veins is slightly discordant to foliation. Select veins are also observed to be folded with foliation in zones of intense deformation and occurring sub-parallel to a secondary cleavage

related to the later folding deformation event. These observations could indicate that veins formed prior to the folding event and were later folded along with S_1 , or that veins formed syn- to post-folding and simply followed the previously folded fabric.

2016 EXPLORATION PROGRAM

Diamond drilling during the 2016 exploration program focused on Gibraltar's mineral claims adjacent to the northwest side of the Gibraltar mine lease. The program was conducted between November 17th 2016 and February 14th 2017 and consisted of 10 NQ diamond drill holes (Table 4) totaling 19165' (5843.0m) which were designed to test additional porphyry style copper mineralization intersected in the 2015 exploration diamond drill hole (Figure 6). Objectives of the drill program were as follows:

- test the spatial extent of high-grade mineralization in all directions;
- better define the stratigraphy and structural architecture of shear-hosted Cu mineralization;
- determine primary controls on high-grade mineralization.

On-site geological work was the responsibility of Chris Gallagher, M. Sc., with overall project supervision provided by Scott Smith, P.Geol of Gibraltar Mines Ltd. A strict quality assurance / quality control program was employed during the course of the 2017 program.

Atlas Drilling of Kamloops, BC was contracted to complete the drill program; collar locations were accessed along a pre-existing network of active logging roads and exploration trails. An ACT III oriented core system was utilized to obtain oriented core for structural analysis. Crews were based out of Williams Lake and McCleese Lake and processed core at Gibraltar's core processing facility at the Gibraltar Mine. All exploration and reclamation work was carried out in accordance with the BC Mines Act and BC Workers Compensation board requirements. The diamond drill program was carried out under BC Mines permit # MX-1-626. Total exploration expenditures by Gibraltar Mines on the Copper Ace property were \$1,250,000.

Table 4 – 2016 DDH Collar Location Table

DDH Number	Length (ft)	Length (m)	Mine X	Mine Y	Mine Z	Easting	Northing	Elev (m)	Az	Dip
2016-E01	2463	750.9	39600.9	54101.4	3009.5	545893.9	5820027.8	917.5	45.00	-75
2016-E02	1663	507.0	39506.1	54560.6	2961.7	545863.7	5820167.5	903.0	45.00	-82
2016-E03	1777	541.8	39593.7	54089.5	3010.1	545891.8	5820024.2	917.7	230.00	-80
2016-E04	2087	636.3	38376.0	54392.0	2902.1	545519.9	5820112.8	884.8	50.00	-50
2016-E05	2197	669.8	38816.1	55265.6	2896.5	545651.4	5820380.2	883.1	60.00	-55
2016-E06	2338	712.8	38386.2	55687.4	2872.0	545519.2	5820507.4	875.6	320.00	-65
2016-E07	1907	581.4	39512.8	54546.2	2962.1	545865.8	5820163.1	903.1	105.00	-55
2017-E01	2047	624.1	38383.5	55670.5	2872.5	545518.4	5820502.2	875.7	90.00	-85

DDH Number	Length (ft)	Length (m)	Mine X	Mine Y	Mine Z	Easting	Northing	Elev (m)	Az	Dip
2017-E02	678	206.7	39505.6	54543.0	2964.2	545863.6	5820162.1	903.7	320.00	-80
2017-E03	2008	612.2	39503.2	54540.9	2962.2	545862.9	5820161.5	903.1	310.00	-80

Surveying

Drill collar locations were surveyed using a trimble survey grade RTK system. Downhole surveys were completed using a Reflex EZ Shot downhole survey system provided by the drill contractor. Hole orientations were surveyed every 200' (60.0m) as well as at the top and bottom of the hole. Raw azimuth recordings were converted to true azimuths using a 17.29° E magnetic declination (Magnetic Declination Calculator 2015).

Core Recovery

Core recoveries were generally greater than 95%; overburden depth ranged from 10' to 100'.

Sampling Method and Approach

Drill holes were sampled top to bottom at a typical sample length of 10' with shorter sample intervals designed to geochemically define brittle structures and representative lithologies, alteration assemblages and mineralized zones. Select samples, approximately every 100', were sent for whole rock analysis. Samples were split utilizing a hydraulic splitter and delivered to ALS Minerals in Vancouver, BC. Standards, blanks and field duplicates were inserted into the sample chain at regular intervals. The standards were obtained from Rocklabs and CDN Resource Labs. Drill core sampling was supervised by Michelle Palmes of TerraLogic Exploration.

All samples were shipped to the ISO 9001:2008 registered and ISO 1705:2005 accredited ALS Minerals laboratory in North Vancouver, B.C. for analysis. The samples were analyzed for 51 element ICP-OES / ICP-MS using aqua-regia digestion. The 51 elements determined by ME-MS41 include: Ag, Al, As, Au, B, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Fe, Ga, Ge, Hf, Hg, In, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, Re, S, Sb, Sc, Se, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zn and Zr. (See Appendix X for a detailed description of analytic procedures). Total copper (CuT%) was determined by ALS ore grade method (ME-OG46) using Aqua Regia digestion of an 0.4 g aliquot followed by ICP-AES or AAS finish for all samples that returned values $\geq 0.10\%$ Cu by method ME-MS41. Similarly, total molybdenum (Mo %) was determined by method ME-OG46 for all samples that returned ≥ 150 ppm Mo by method ME-MS41. ALS assay certificates for method ME-MS41 note that although Aqua Regia typically dissolves most of the Au present, "Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5 g)". To determine the higher Au values with better accuracy, all samples ≥ 200 ppb Au by method ME-MS41, were determined by ALS method Au-AA23 using a Fire Assay Fusion followed by AAS finish. All samples were collected, handled, cataloged and prepared for shipment under the supervision of TerraLogic Exploration staff. All geological logging data collected during the drill program was recorded

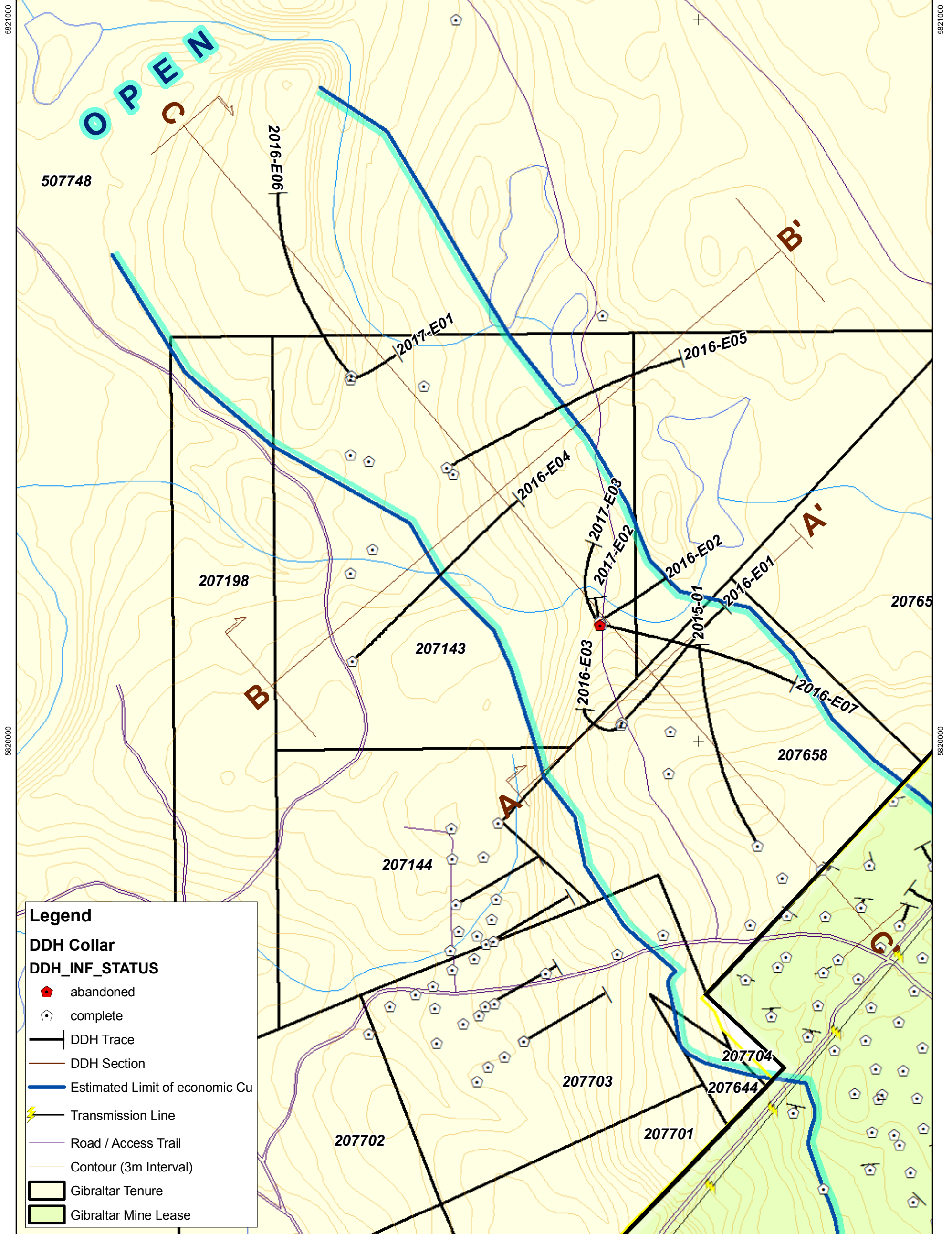
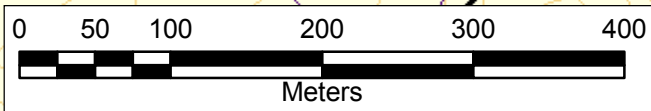
using standardized codes for lithology, alteration and structure and loaded into a Microsoft Access database.

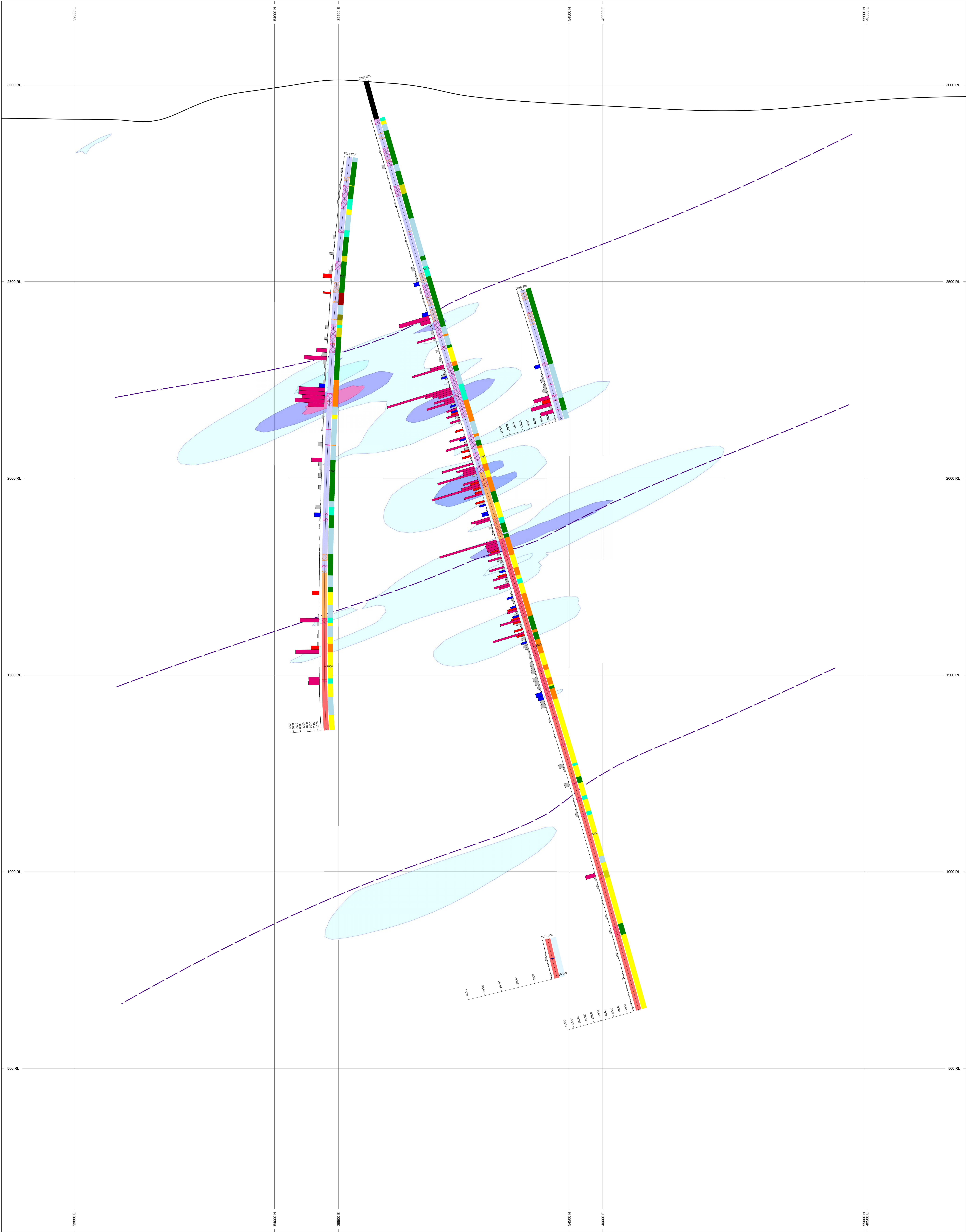
Upon completion of sampling for assay, core boxes containing half core marked with the hole number, box number and from and to depth of each box using permanent marker and a metal butter tag were closed with lids. The core boxes were stacked on pallets and were banded and labeled with the hole ID and pallet number in orange spray paint. Banded pallets were then relocated to the 3 Dump core laydown area within the Gibraltar Mine site and inventoried. Coarse rejects returned from ALS Minerals are stored at the Gibraltar Mine; pulps are retained indefinitely.

**Gibraltar Mines
Ltd.**

Date: 11/03/2017
Projection: UTM Nad83

Figure 6 - 2016 Exploration DDH Plan Map





HOLES PLOTTED

TOTAL 4			
2015-001	2016-001	2016-002	2016-003

Cu Grade Shells

- > 0.15% Cu
- > 0.30% Cu
- > 0.50% Cu

Tectonic Foliation

- S1 Fabric

TOPOGRAHY

Equipments

BAR GRATING	COL	RANGE
Cu_2015	1	2000
	2	2000
	3	2000

ROCK CODES	UNIT	DESCRIPTION
CU_2015	1	CU_2015
CU_2016	2	CU_2016
CU_2017	3	CU_2017
CU_2018	4	CU_2018
CU_2019	5	CU_2019
CU_2020	6	CU_2020
CU_2021	7	CU_2021
CU_2022	8	CU_2022
CU_2023	9	CU_2023
CU_2024	10	CU_2024
CU_2025	11	CU_2025
CU_2026	12	CU_2026
CU_2027	13	CU_2027
CU_2028	14	CU_2028
CU_2029	15	CU_2029
CU_2030	16	CU_2030
CU_2031	17	CU_2031
CU_2032	18	CU_2032
CU_2033	19	CU_2033
CU_2034	20	CU_2034
CU_2035	21	CU_2035
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CU_2037	23	CU_2037
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CU_2109	95	CU_2109
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CU_2214	100	CU_2214

SECTION SPECS:

REF. PT. E, N 30775 N 54555 E

EXTENTS 2453 N 3125 E

SECTION TOP, BOT 2015 N 5455 E

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ASPECT RATIO = 48.1°

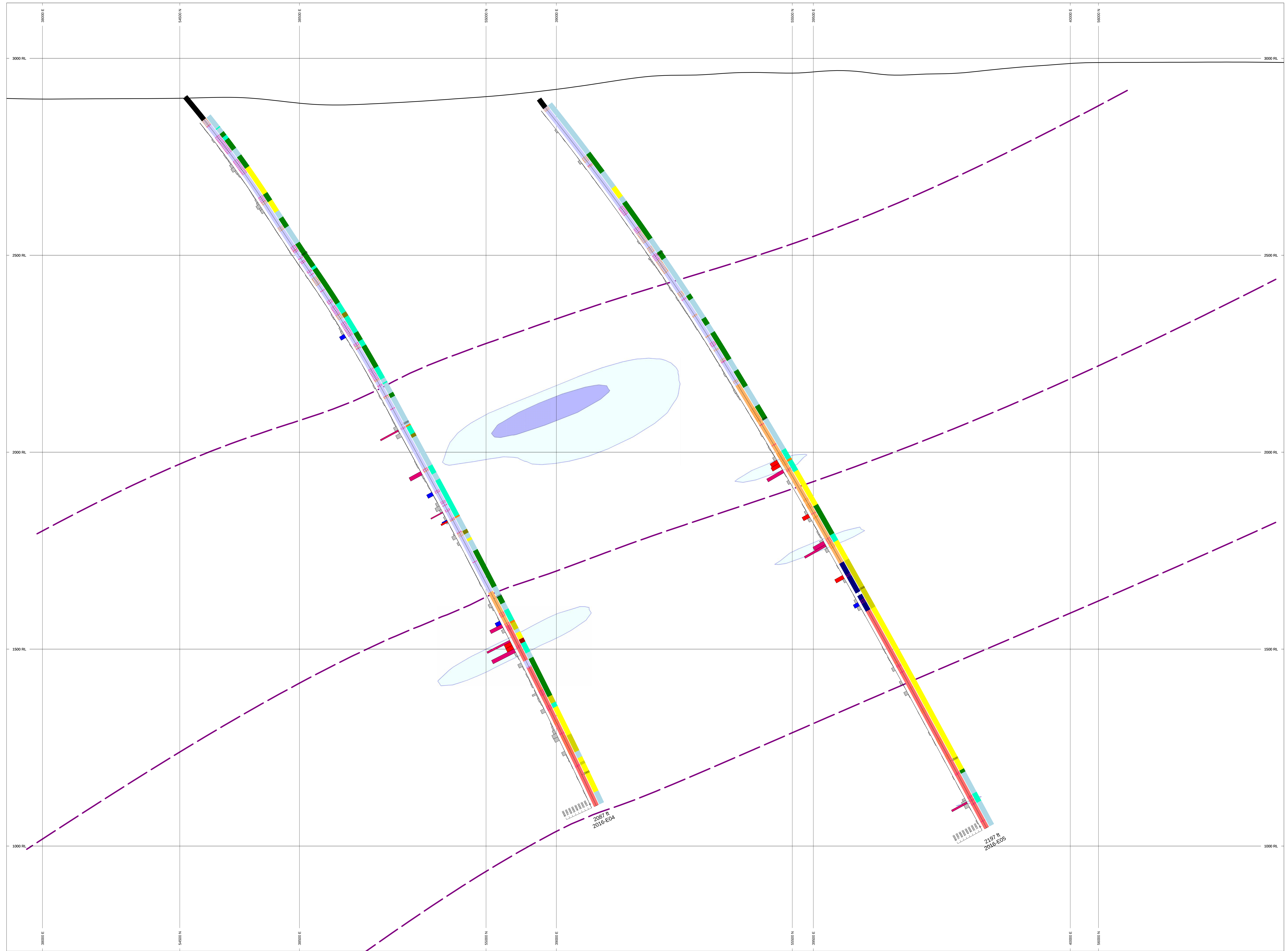
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100m

Taseko Mines

Gibraltar

Figure 7 - Cross-Section A

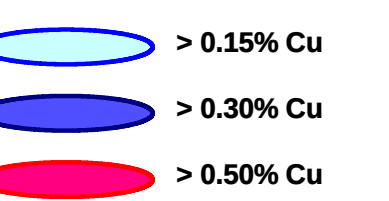


2006-ED01 2006-ED05

TOTAL 2	
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100	100

2005-ED04 2005-ED06

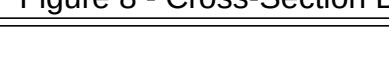
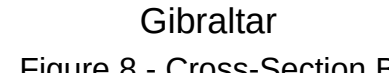
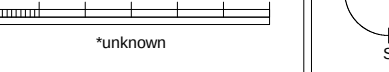
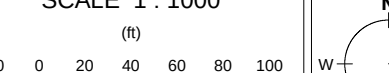
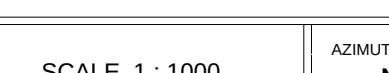
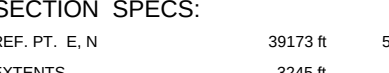
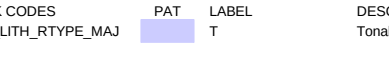
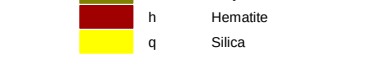
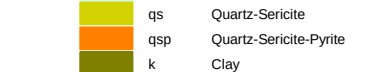
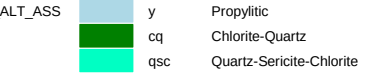
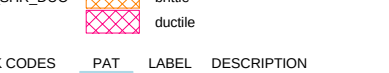
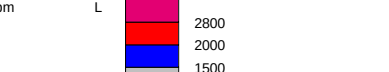
Cu Grade Shells



GRAPHY



GRAPHS	LR	<u>COL</u>	RANGE



SECTION SPECS:

EXTENTS

SECTION TOP, BOT
TOLERANCE +/-

00000000000000000000

SCALE 1:1000
(b)

[illegible]Taseko
sit

Figure 8 - Cross

Figure 6 - (cont.)

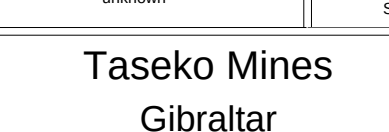
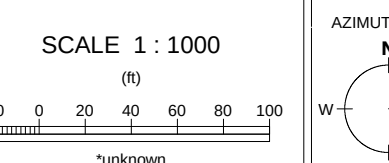


Figure 8 - Cross-Section E

Hole Summaries

2016-E01 (045°/-45°, EOH 2463')

2016-E01 is a northeast directed hole targeting a northwest-trending ore zone encountered in 2015-001. The hole intersected three major lithological units with gradational contacts including T from 100-1037', TJ from 1037-1214' and J from 1214-2463' with minor 2-5 cm leucocratic dykes crosscutting the TJ and J. Weak, patchy to pervasive y alteration is present throughout, overprinted by weak to strong cq with lesser qsc-qsp in the T. Alteration becomes more variable in the TJ with abundant moderate to strong qsp-qsc-cq-altered shear zones as well as minor sections overprinted by strong q. Pervasive weak to strong q alteration increases below 1605' in the J with patchy weak to moderate aq alteration and local qs to qsc-altered shear zones. Abundant discrete 1-60' ductile shear zones overprint the pervasive moderate foliation above 1605' and are locally crosscut by 1-25' weak to strong, carbonate-altered brittle fault zones. A significant brittle fault zone characterized by 20-30' sections of rubbly core with intense carbonate-altered clay gouge to cataclasite present from 508-593' appears to be associated with the upper boundary of mineralization.

Two intervals with ore-grade copper mineralization were identified from geochemical assays including 70' measuring 0.25% Cu and 740' measuring 0.22% Cu (see Table 5). Mineralized intervals correlate with visible py-cp-sp hosted within cq-qsc-qsp altered shear zones as blebby to semi-massive disseminations, brecciated to boudinaged quartz-sulphide to chlorite-sulphide veins and as blebs within coarse, massive quartz-chlorite-carbonate veins. Mineralized veins in 2016-E01 are generally sub-parallel to S_1 averaging 70° TCA. The relative timing of mineralization and shearing remains unclear as the orientation of sulphide veins slightly differs from that of S_1 . The intense brittle fault bounding the upper contact of the mineralized zone in 2016-E01 correlates with a similar upper ore boundary fault in 2015-001.

2016-E02 (045°/-82°, EOH 1663')

2016-E02 is a northeast directed hole drilled along strike of the mineralized trend encountered in 2016-E01. The hole intersected three major lithological units with gradational contacts including T from 140-943.1', TJ from 943.1-1170.8' and J from 1170.8-1663' with minor 2-30 cm leucocratic dykes and 15-50 cm mafic dykes crosscutting the host rocks. Weak, patchy to pervasive y alteration is present throughout, overprinted by cq with minor qsc to rare qsp shears. Pervasive weak to strong q alteration occurs in the J with minor aq, qs, qsc and qsp-altered shear zones. Minor 1-10' ductile shear zones overprint the overall moderate foliation and are locally crosscut by 1-25' weak to locally strong, carbonate-altered brittle fault zones. Two sections with several significant 1-40' brittle fault zones characterized by rubbly core with carbonate +/- hematite-altered clay gouge to cataclasite are present from 504-658' and 1305-1495', locally overprinting earlier shear zones.

Three intervals with ore-grade copper mineralization were identified from geochemical assays including 53' measuring 0.46% Cu, 90' measuring 0.18% Cu and 70' measuring 0.15% Cu (see Table 5). Mineralized intervals correlate with visible py-cp-sp hosted within cq-qsc-qsp altered shear zones as blebby to semi-massive disseminations, planar quartz-sulphide to

chlorite-sulphide veins and as blebs within coarse, massive quartz-chlorite-carbonate veins. Mineralized veins in 2016-E02 are generally sub-parallel to S_1 averaging 60-70° TCA and rarely occur sub-parallel TCA within select folded intervals (S_2). The relative timing of mineralization and shearing remains unclear as the orientation of sulphide veins slightly differs from that of S_1 . 2016-E02 could represent the northeast margin of the mineralized trend identified in 2016-E01 as copper grades intersected were lower than expected.

2016-E03 (230°/-80°, EOH 1777')

2016-E03 is a southwest directed hole drilled to determine the southwest extent (down-dip) of mineralization encountered in 2016-E01. The hole intersected three major lithological units with gradational contacts including T from 90-1261', TJ from 1261-1378' and J from 1378-1777' with minor 2-5 cm leucocratic dykes crosscutting the TJ and J. A major shear zone with strong qsc alteration and well-developed banding marks the contact between T and TJ from 1377-1392'. Weak, patchy to pervasive y alteration is present throughout, overprinted by weak to strong cq with lesser qs-qsc-qsp-q in the T and TJ. Pervasive weak to strong q alteration increases in the J with local qsp to qsc-altered shear zones. Common 1-60' ductile shear zones overprint the overall moderate foliation above 1400' and are locally crosscut by 1-30' weak to strong, carbonate-altered brittle fault zones. A significant brittle fault zone characterized by broken core with moderate carbonate-hematite altered clay gouge is present from 516-543'.

The hole failed to intercept economic mineralization of any significant thickness – which is surprising given its proximity to hole 2016-E01. Only one interval with ore-grade copper mineralization was identified from geochemical assays with 60' measuring 0.61% Cu (see Table 5). Mineralization correlates with visible py-cp-sp hosted within cq-qsc-qsp altered shear zones as blebby to semi-massive disseminations, brecciated to planar quartz-sulphide to chlorite-sulphide veins and as blebs within coarse, massive quartz-chlorite-carbonate veins. Mineralized veins in 2016-E03 are generally sub-parallel to S_1 averaging 65-70° TCA. The relative timing of mineralization and shearing remains unclear as the orientation of sulphide veins slightly differs from that of S_1 . No significant faults were observed to be bounding mineralization as seen in 2016-E01.

2016-E04 (050°/-50°, EOH 2087')

2016-E04 is a northeast directed hole drilling along strike of a northwest-trending ore zone encountered in 2016-E01 and 2015-001. The hole intersected three major lithological units including T from 75-1481', TJ from 1481-1576.2' and J from 1576.2-2087' with rare 2-60 cm leucocratic dykes crosscutting below 1334'. Sharp contacts are observed locally between the T and TJ while the TJ-J contact is more gradational and sheared. Weak, patchy to pervasive y alteration is present throughout, overprinted by weak to strong cq to q with lesser qsc-qsp shears in the T and TJ. Pervasive weak to strong q alteration increases in the J with patchy cq at the top of the interval and local qs to qsc-altered shear zones. Abundant 1-40' ductile shear zones overprint the overall moderate foliation and are locally crosscut by 1-10' weak to strong, carbonate +/- hematite-altered brittle fault zones. A significant brittle fault zone characterized

by 1-20' sections with intense carbonate-altered clay gouge to cataclasite separated by intervals of blocky to broken core is present from 1846-1941'.

One interval with ore-grade copper mineralization was identified from geochemical assays including 90' measuring 0.24% (see Table 5). Mineralization correlates with visible py-cp-sp hosted within cq-qsc-qsp altered shear zones as blebby to semi-massive disseminations, brecciated to boudinaged or sheeted quartz-sulphide to chlorite-sulphide veins and as blebs within coarse, massive quartz-chlorite-carbonate veins. Mineralized veins in 2016-E04 are generally sub-parallel to the dominant foliation averaging 60-70° TCA. The relative timing of mineralization and shearing remains unclear as the orientation of sulphide veins slightly differs from that of S₁. 2016-E04 was likely drilled too far toward the west, possibly below the targeted high grade ore zone, as copper grades intersected in 2016-E04 were lower than expected.

2016-E05 (060°/-55°, EOH 2197')

2016-E05 is a northeast directed hole drilled to test a more northerly trend to mineralization encountered in 2016-E01 and 2015-001. The hole intersected three major lithological units with gradational contacts including T from 27-890.5', TJ from 890.5-1418' and J from 1418-2197' with minor 1-20 cm leucocratic dykes and 5-85 cm mafic dykes crosscutting the TJ and J. A major interval of leucocratic T (possibly a leucocratic dyke) also occurs at the TJ-J contact from 1417.7-1504.7'. Weak, patchy to pervasive y alteration is present throughout, overprinted by abundant cq with minor qsc to rare qsp shears in the T and TJ. Pervasive weak to strong q alteration increases at depth in the basal TJ and the J with minor patchy aq and local qs to qsc-altered shear zones. Minor 1-25' ductile shear zones overprint the overall moderate foliation and are locally crosscut by 1-35' weak to locally strong, carbonate +/- hematite-altered brittle fault zones. One moderate brittle fault zone characterized by sections of broken core with carbonate-hematite altered clay gouge to cataclasite with local shearing is present from 412-550.5'.

No significant copper intercepts were identified from geochemical assays. Local ~30 ft mineralized intervals correlate with visible py-cp-sp hosted within qsc-qsp altered shear zones as blebby disseminations, planar quartz-sulphide to chlorite-sulphide veins and as blebs within coarse, massive quartz-chlorite-carbonate veins. Mineralized veins in 2016-E05 are generally sub-parallel to S₁ averaging 60-70° TCA. The relative timing of mineralization and shearing remains unclear as the orientation of sulphide veins slightly differs from that of S₁. 2016-E05 could represent the northeast margin of the mineralized trend identified in 2016-E01 as copper grades intersected were lower than expected. Poor mineralization encountered in the hole also confirms that the trend of mineralization is likely to the northwest (~320°) rather than to the north.

2016-E06 (320°/-65°, EOH 2338')

2016-E06 is a northwest directed hole targeting an ore trend projected to the northwest. The hole intersected three lithological units with gradational contacts including T from 10-1036.5',

TJ from 1036.5-1672' and J from 1672-2338'. Weak, patchy to pervasive y alteration is present throughout, overprinted by cq to minor qsc in the T. Alteration becomes more variable in the TJ with abundant moderate to strong qsp to qsc-altered shear zones as well as minor sections overprinted by strong cq to q. Pervasive weak to strong q alteration increases in the J with local aq to qsc-altered shear zones. Intense ductile deformation overprints the overall moderate foliation with abundant 1-50' ductile shear zones locally crosscut by weak, carbonate-altered brittle fault zones. Three significant transitional (brittle-ductile) fault zones characterized by strong shearing and folding with strong qsc-qsp alteration and strong, foliation-parallel carbonate-altered clay gouge to cataclasite are present from 1813-1832', 1859.5-1896' and 1905.5-1932.5'.

Three intervals with ore-grade copper mineralization were identified from geochemical assays including 320' measuring 0.20% Cu, 500' measuring 0.33% Cu and 90' measuring 0.16% Cu (see Table 5). Mineralized intervals correlate with visible py-cp-sp hosted within qsc-qsp altered shear zones as blebby to semi-massive disseminations, sheeted quartz-sulphide to chlorite-sulphide veins and as blebs within coarse, massive quartz-chlorite-carbonate veins. Mineralized veins in 2016-E06 are generally sub-parallel to the S_1 averaging 60° TCA, the exception being late well-mineralized quartz-chlorite-carbonate veins which cross-cut S_1 at a high angle. The relative timing of mineralization and shearing remains unclear as the orientation of sulphide veins slightly differs from that of S_1 . Select veins were also observed deflecting along a secondary foliation related to the later folding deformation event associated with coarse-grained late mineralized veins. The high frequency of sheared and folded sections within 2016-E06 suggests that it was likely drilled down a steeply-dipping, northwest-striking, mineralized ductile to brittle-ductile shear zone.

2017-E01 (090°/-85°, EOH 2047')

2017-E01 is an east-northeast directed hole targeting high-grade, northwest-trending mineralization encountered in 2016-E06. The hole intersected three major lithological units including T from 8-790.5', TJ from 1036.5-1672' and J from 1672-2338' with minor 0.5-3 cm leucocratic dykes and 5-33 cm mafic dykes crosscutting the J. The T-TJ contact is transitional while there is a well-defined boundary between the TJ-J. Weak, patchy to pervasive y alteration is present throughout, overprinted by cq to minor qsc in the T. Alteration becomes more variable in the TJ with abundant moderate to strong qsp to qsc-altered shear zones as well as minor sections overprinted by strong cq to q. Pervasive moderate to strong q alteration increases in the J with local aq to qsc and minor qs-altered shear zones. Common 1-50' ductile shear zones overprint the overall moderate foliation and are locally crosscut by 1-20' weak, carbonate-altered brittle fault zones. A significant transitional (brittle-ductile) fault zone characterized by strong shearing and folding with foliation-parallel carbonate-altered clay gouge to cataclasite is present from 1171.5-1215'. Strong qsp-qsc-cq alteration occurs at the top of the transitional fault with strong qsc-cq-aq alteration overprinted by moderate patchy to pervasive hematite below 1183'.

Four intervals with ore-grade copper mineralization were identified from geochemical assays including 110' measuring 0.15% Cu, 70' measuring 0.25% Cu, 60' measuring 0.39% Cu and 36.7' measuring 0.34% Cu (see Table 5). Mineralized intervals correlate with visible py-cp-sp

hosted within qsc-qsp altered shear zones as blebby to semi-massive disseminations, sheeted quartz-sulphide to chlorite-sulphide veins and as blebs within coarse, massive quartz-chlorite-carbonate veins (similar to hole 2016-E06). Mineralized veins in 2017-E01 are generally sub-parallel to S_1 averaging 70° TCA and rarely occur sub-parallel TCA within select folded intervals. The relative timing of mineralization and shearing remains unclear as the orientation of sulphide veins slightly differs from that of S_1 . Select veins were also observed to be sub-parallel to a secondary foliation (oriented at $55-65^\circ$ TCA) related to the later folding deformation event.

2017-E02 ($320^\circ/-80^\circ$, EOH 678')

2017-E02 is a northwest directed hole drilled along strike of a mineralized trend encountered in 2016-E01 and 2015-001. The rods became stuck in a fault zone and the hole was abandoned at 678'. 2017-E02 is not logged or sampled.

2017-E03 ($310^\circ/-80^\circ$, EOH 2008')

2017-E03 is a northwest directed hole drilled along strike of a mineralized trend encountered in 2016-E01 and 2015-001. The hole intersected three major lithological units with gradational contacts including T from 60-1141', TJ from 1141-1313.5' and J from 1313.5-2008' with minor 4-35 cm leucocratic dykes and 10-95 cm mafic dykes crosscutting the J. Weak, patchy to pervasive y alteration is present throughout, overprinted by cq to minor qsc in the T. Alteration becomes more variable in the TJ with abundant moderate to strong qsp to qsc-altered shear zones as well as minor sections overprinted by strong q. Pervasive weak to strong q alteration increases in the J with local aq to qsc-altered shear zones and minor patchy cq. Common 2-10' ductile shear zones overprint the overall moderate foliation and are locally crosscut by 1-20' weak, carbonate-altered brittle fault zones. A significant brittle fault zone characterized by 5-20' sections of rubbly core with carbonate-altered clay gouge to cataclasite present from 1489.7-1621.3' appears to be associated with the end of mineralization.

Two intervals with ore-grade copper mineralization were identified from geochemical assays including 436' measuring 0.38% Cu and 40' measuring 0.63% Cu (see Table 5). Mineralized intervals correlate with visible py-cp-sp hosted within qsc-qsp altered shear zones as blebby to semi-massive disseminations, sheeted quartz-sulphide to chlorite-sulphide veins and as blebs within coarse, massive quartz-chlorite-carbonate veins. Mineralized veins in 2017-E03 are generally sub-parallel to S_1 averaging 60° TCA and rarely occur sub-parallel TCA within select folded intervals. The relative timing of mineralization and shearing remains unclear as the orientation of sulphide veins slightly differs from that of S_1 . Select veins were also observed to be sub-parallel to a secondary crenulation cleavage (oriented at $30-55^\circ$ TCA) related to the later folding deformation event.

Geochemical Results

The program was successful in delineating continuous high-grade Cu mineralization along strike for approximately 4,000' (1200m). A comprehensive QAQC program was in place for

the duration of the project; results of the QAQC data analysis are consistent with laboratory results being within accepted industry standard guidelines for Quality Assurance and Control. Highlights of the drill program include hole 2016-E01 with 740' at 0.22% Cu and 1 g/t Ag; hole 2016-E06 with 500' at 0.34% Cu and 2.1 g/t Ag including 120' at 0.68% Cu and 4.3 g/t Ag; and hole 2017-E03 with 436' at 0.38% Cu and 2.0 g/t Ag. High-grade intercepts of note include hole 2016-E06 with 5.7' at 3.74% Cu and 19.4 g/t Ag; hole 2017-E03 with 3.5' at 5.61% Cu, 38.4 g/t Ag and 0.85 g/t Au as well as 10' of 2.67% Cu, 8.3 g/t Ag and 0.25 g/t Au. A complete list of intersections is presented in table 5.

Table 5 – 2016 Exploration Program Significant Intercepts

DDH ID'	From (Ft)	To (Ft)	Length (Ft)	Cu (%) ²	Ag (ppb) ²	Au (ppb) ³	Mo (ppm) ²	Zn (ppm)
2016-E01	607	677	70	0.25	1.0	29	3	626
2016-E01	747	1487	740	0.22	1.0	20	11	686
Inc	807	897	90	0.41	2.4	40	56	344
Also	807	812	5	1.92	11.0	134	390	663
Inc	1007	1092	85	0.43	1.8	33	4	561
Inc	1212	1287	75	0.33	1.0	36	2	373
Also	1212	1217	5	1.72	7.5	197	1	1300
2016-E02	732.4	785.4	53	0.46	3.2	0	128	728
Inc	732.4	742.8	10.4	1.88	12.1	0	15	1168
2016-E02	1092	1182.2	90.2	0.18	0.8	0	1	1540
2016-E02	1467	1537	70	0.15	0.4	0	1	88
2016-E03	777	837	60	0.61	2.3	0	7	189
Inc	687	717	30	0.37	1.8	0	21	1362
Inc	787	837	50	0.70	2.6	0	8	213
2016-E04	1557	1647	90	0.24	1.9	0	2	302
Inc	1612	1647	35	0.43	2.9	0	1	398
2016-E05	NO SIGNIFICANT INTERCEPTS							
2016-E06	1048	1368	320	0.20	2.4	26	3	989
Inc	1108	1158	50	0.45	4.0	0	6	529
2016-E06	1438	1938	500	0.34	2.1	3	2	688
Inc	1438	1488	50	0.74	5.5	0	1	660
Also	1448	1458	10	1.59	12.4	0	2	841
Inc	1568	1688	120	0.68	4.3	13	2	339
Also	1573	1578.7	5.7	3.74	19.4	0	3	282
Also	1598	1608	10	1.51	8.0	0	1	423
Also	1618	1623.55	5.55	1.83	11.1	270	3	284

DDH ID ¹	From (Ft)	To (Ft)	Length (Ft)	Cu (%) ²	Ag (ppb) ²	Au (ppb) ³	Mo (ppm) ²	Zn (ppm)
Inc	1858	1898	40	0.44	1.7	0	2	260
2016-E06	2038	2128	90	0.16	0.9	0	2	321
2016-E07	867	917	50	0.35	2.6	34	3	1121
2016-E07	1077	1203	126	0.35	1.7	0	1	538
Inc	1137	1177	40	0.86	4.2	0	1	385
Also	1167	1177	10	1.58	5.7	0	1	393
2016-E07	1657	1757	100	0.16	0.6	0	3	78
2017-E01	797	907	110	0.15	0.9	0	4	308
2017-E01	1007	1077	70	0.25	1.7	0	1	334
Inc	1007	1047	40	0.39	2.6	0	1	509
2017-E01	1147	1207	60	0.39	1.8	0	1	274
Inc	1172	1207	35	0.61	2.8	0	1	279
Also	1172	1177	5	1.99	5.3	0	1	205
2017-E01	1415.3	1452	36.7	0.34	1.7	0	1	199
2017-E02	NO SIGNIFICANT INTERCEPTS							
2017-E03	762	1198	436	0.38	2.0	16	3	421
Inc	938	1028	90	0.51	3.6	33	1	654
Also	978	981.5	3.5	5.61	38.4	847	4	1790
Inc	1108	1198	90	0.68	2.2	44	1	373
Also	1128	1138	10	2.67	8.3	254	3	287
2017-E03	1438	1478	40	0.63	2.0	0	1	405

1 1st order intervals calculated as weighted average with a minimum thickness of 50'; a cutoff value of 0.15% Cu and a maximum internal dilution of 50'; 2nd order intervals calculated as weighted average with a minimum thickness of 30'; a cutoff value of 0.30% Cu and a maximum internal dilution of 30'; 3rd order intervals calculated as weighted average with no minimum thickness, a cutoff grade of 1.0% Cu and no internal dilution

2 – Cu and Mo values determined via ME-ICP41 (AR / ICP-MS) with reruns analyzed via ME-OG46 (AR / AAS) for > 0.20% Cu or > 150ppm Mo

3 – Au values determined via ME-ICP41 (AR / ICP-MS) with reruns analyzed via Au-AA23 (30g FA / AAS) for >200 ppb Au

Whole Rock Geochemistry

A whole rock geochemistry program was initiated in 2016; the purpose of the program was to:

- aid in the definition of subtle stratigraphy of host rocks within the GibNW zone due to fractionation and / or polyphase intrusive episodes;
- determine the tectonic affinity of host rocks;
- and to gain a better understanding of the alteration / mass transport processes and their relationships to copper mineralization.

Samples for whole rock analysis were selected approximately every 100' down the hole with an emphasis on selecting fresh homogeneous intervals. An attempt was made to sample a diverse range of rock types with a focus on unaltered / unmineralized samples in order to establish background values for elements of interest. Selected sample intervals were run via ALS Mineral's ME-MS81 (0.1g lithium borate fusion / XRF / ICP-MS analysis) which reports major elements via XRF analysis, and trace elements and REEs via ICP-MS analysis.

Least altered samples were determined by selecting samples with less than 2.0% LOI, 100 ppm Cu and 100 ppm Zn as well as reviewing sample descriptions and geologists logs. A total of 173 samples were collected – 29 of which were considered least altered. No least altered samples of the leucocratic or mafic dykes were collected.

$\text{Al}_2\text{O}_3 / \text{TiO}_2$ and $100 \times \text{Th} / \text{V}$ ratios (Figure 10a) are utilized to discern different lithologies in the Gibraltar West / Extension Zone. Three distinct subpopulations of intrusive were identified utilizing the classification diagram: tonalite (T), trondhjemite (J) and an intermediate lithology (TJ). Least altered tonalite typically has an $\text{Al}_2\text{O}_3 / \text{TiO}_2$ ratio of < 37 while J has a ratio > 55 ; intermediate lithology (TJ) is between 37 and 52. These ratios, derived from relatively immobile elements, are useful in aiding identification of primary lithologies when rocks are altered / mineralized.

Least altered rocks can also be used to calculate baseline concentrations of major and trace elements to help determine relative enrichment / depletion associated with alteration and mineralization. Average values of major rock forming elements are presented below in Table 6.

Figure 10a – Lithologic discrimination diagram

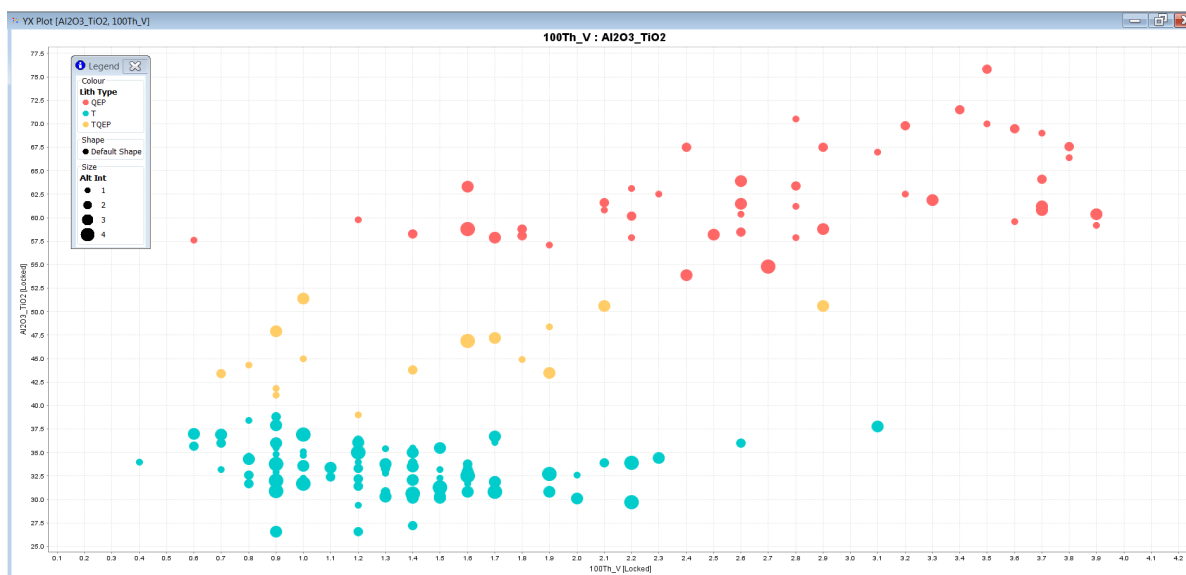


Table 6 – Least altered average values of elements of interest

LithCode	SiO ₂ _%	Al ₂ O ₃ _%	Fe ₂ O ₃ _%	CaO_ %	MgO_ %	Na ₂ O_ %	K ₂ O_ %	Cr ₂ O ₃ _ %	TiO ₂ _%	MnO_ %	P ₂ O ₅ _ %	SrO_ %	BaO_ %
T	64.12	15.80	4.89	4.53	2.09	3.86	1.15	0.00	0.46	0.19	0.10	0.04	0.07
TJ	67.51	15.53	3.96	3.97	1.51	4.41	1.12	0.00	0.36	0.11	0.09	0.04	0.08
J	70.95	14.83	2.69	2.92	0.87	4.64	1.12	0.00	0.23	0.10	0.07	0.04	0.09

Plotting least altered samples on the Plutonic Rock Classification diagram (Figure 10b; Debon and Le Fort, 1983) we see that all three main rock types plot in the tonalite classification. Alternatively the trend of least altered samples, when plotted on the R1-R2 Chemical Variation Diagram (Figure 10c; De La Roche, 1980), are consistent with tonalites plotting within the tonalite classification and TJ / J trending into the Granodiorite field.

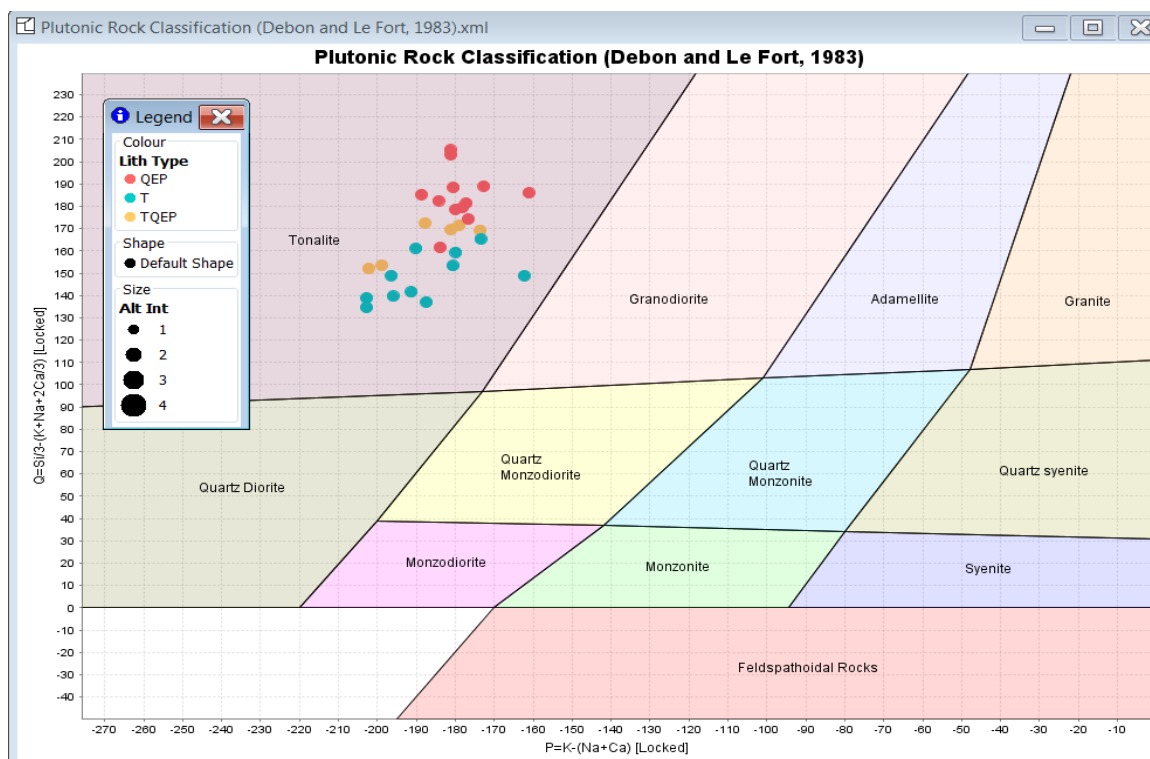
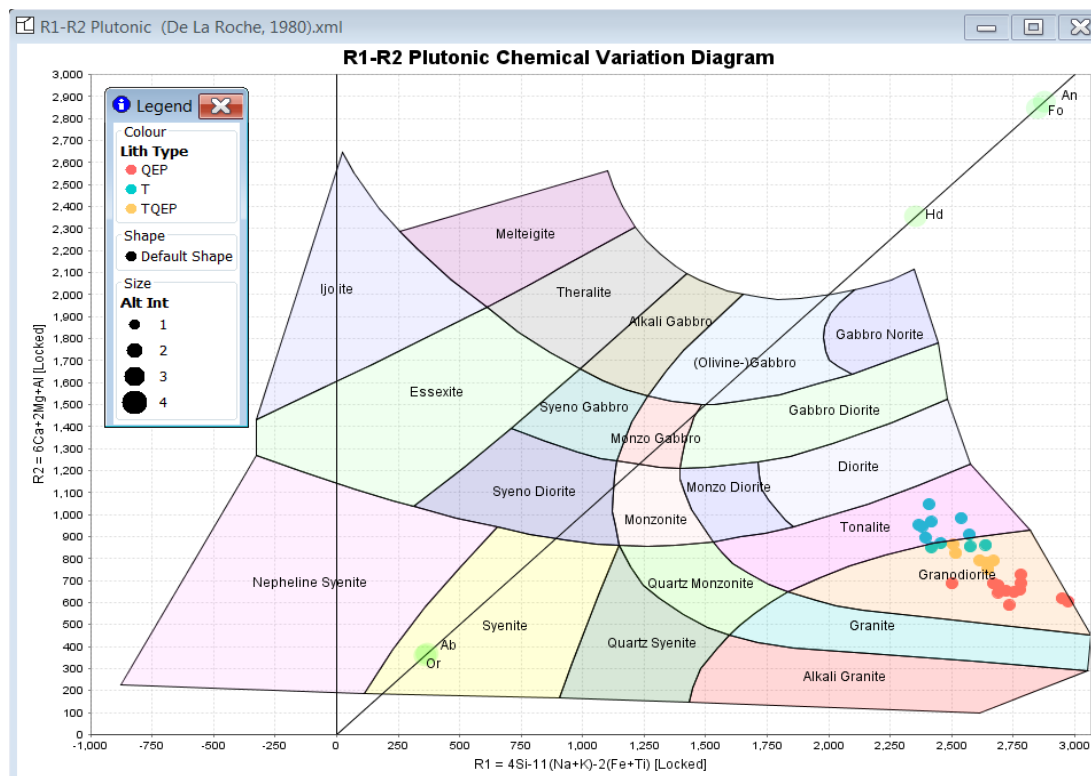
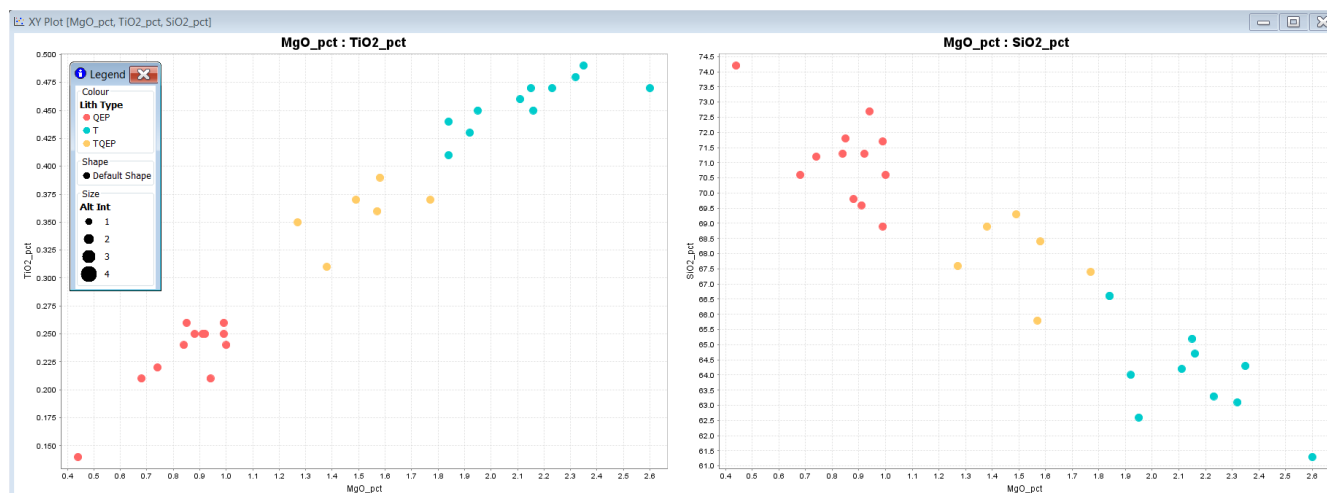
Figure 10b – Plutonic Rock Classification

Figure 10c – R1-R2 Plutonic Variation Diagram

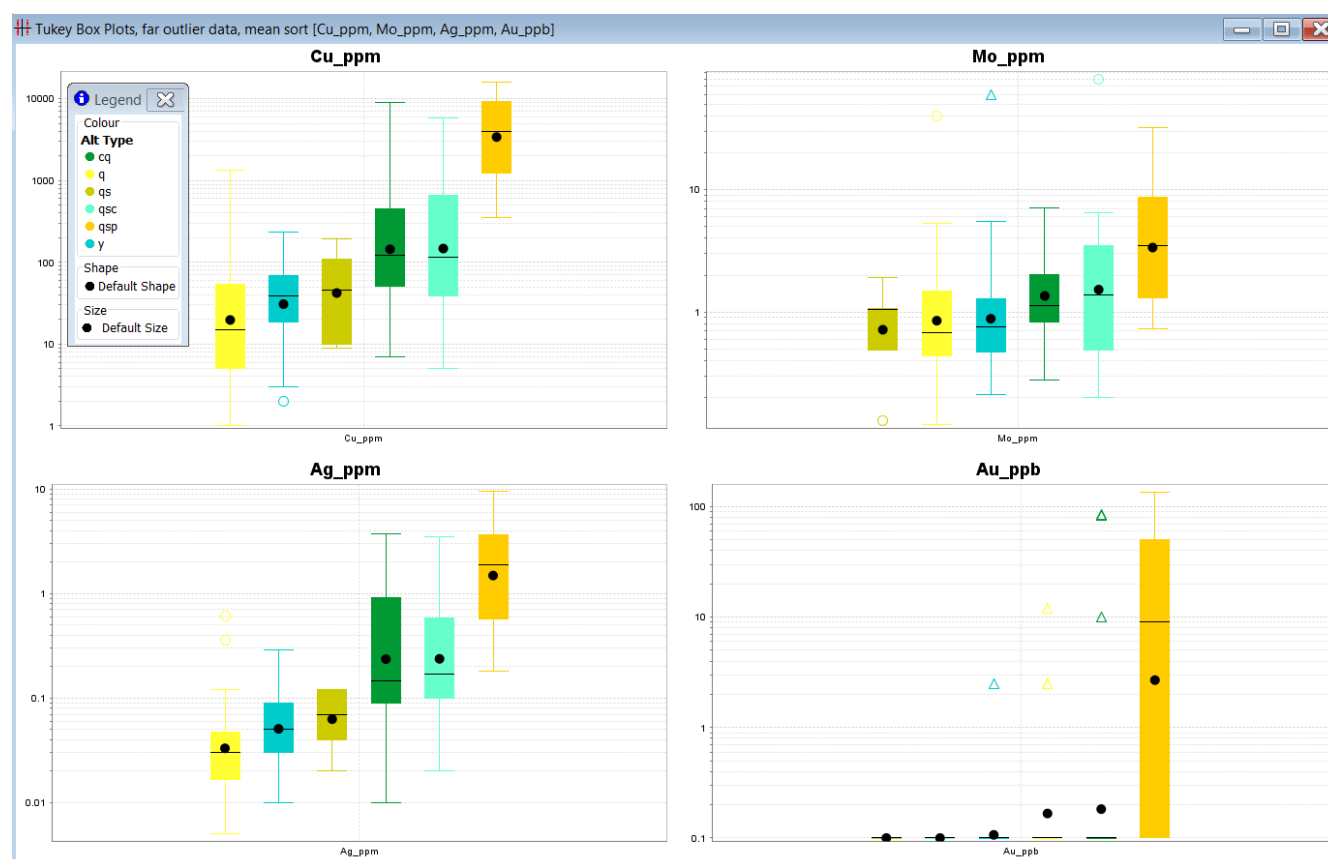


Simple plots of MgO vs TiO_2 and MgO vs SiO_2 (Figure 10d) show trends consistent with a single, continuously evolving magmatic system with tonalite representing the least evolved endmember and the trondhjemite representing the most evolved. This is consistent with observations of Bysouth et al.

Figure 10d - MgO vs TiO_2 and MgO vs SiO_2 XY Plots

Observations in core have established a progressive hydrothermal alteration sequence defined by propylitic (y) to quartz-chlorite (cq) to quartz-sericite-chlorite (qsc) and finally to quartz-sericite-pyrite (qsp). The temporal relationship between silica +/- sericite alteration remains unclear. Tukey Box Plots which show the mean (black circle), median (line), Q1 (bottom of box), Q3 (top of box) and Min / Max Regular (bottom / top whisker) have been plotted to show relative values of particular elements / elemental ratios of interest for the main alteration assemblages. Tukey box plots for economic elements of interest (Figure 10e) show a general depletion for silica enriched rocks (q and qs) and a general increase in concentrations from cq to qsc to qsp. Qsp interval are highly enriched in Cu, Mo, Ag and Au typically by an order of magnitude with respect to the other assemblages and are clearly the host of the highest grade mineralization in the GibNW zone.

Figure 10e – Tukey Box Plots – Economic Elements of Interest



Tukey plots of MgO, K₂O, CaO and Na₂O vs Al₂O₃ (Figure 10f) reveal similar relationships with respect to alteration assemblage. There is an increase in the potassium to aluminum ratio from q to cq to qsc and finally qsp; conversely there is a decrease in MgO, CaO and Na₂O. An exception being a slight increase in MgO vs Al₂O₃ for the cq alteration assemblage. Relationships between economic and major elements are consistent with an overall increase in potassium associated with copper mineralization at the expense of Ca and Na. Magnesium enrichment is limited to the quartz-chlorite (cq) alteration assemblage and is associated with

weak to moderate copper mineralization.

Figure 10f – Tukey Box Plots – Major Elements



Structural Analysis

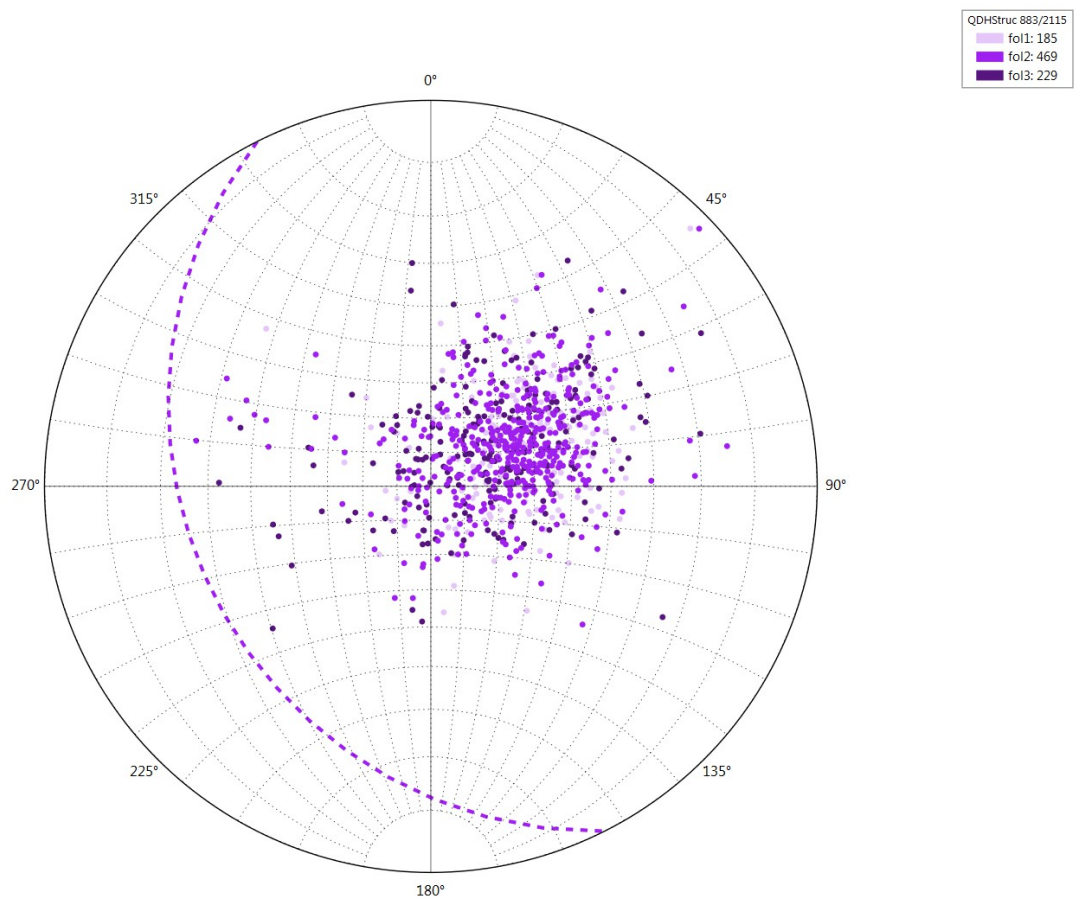
One of the drills was equipped with a REFLEX Act III oriented core system utilized to obtain absolute orientations of various structural features in the core. Drillers were trained by a REFLEX representative on the proper operation of the tool and marking of core over the course of two days. QAQC analysis was completed on a daily basis to provide the day and night shift with feedback regarding the quality of core orientation. QAQC analysis consisted of projecting keel marks upwards from the bottom of a run after being pieced back together in a jig. Where keels from different runs meet (full run) the angular discrepancies between the two runs were recorded; an angle of 0 denotes perfect agreement between two runs. A “bamboo chart” was utilized to track these discrepancies from run to run and determine the overall confidence for a particular run – multiple runs who’s keels agree are assigned the highest confidence while runs with no information above or below have a lower confidence.

Oriented core measurements were taken utilizing REFLEX’s new IQLogger – a laser based system that rapidly records alpha, beta and gamma values with great accuracy. Orientation data is plotted on a stereonet in real time so the geologist can scrutinize any anomalous

orientations while the core is still available. A total of 886 foliation measurements, 974 vein orientations and 171 joint measurements were taken over the course of the project.

The lithologic sequence in the GibNW area has undergone at least three phases of deformation including one ductile phase. The oldest deformation event (D_1) is characterized by pervasive ductile deformation (S_1) that results in a weak to strongly developed planar fabric within the host rock. It is characterized by slightly elongate quartz grains, chlorite aggregates, and preferentially aligned plagioclase phenocrysts (weak) to wavy discontinuous planar fabric (moderate), to planar continuous foliation or mylonite (strong). S_1 foliation in the GibNW zone is consistently moderately to gently southwest dipping (Figure 11a) with an average orientation of 243 / 25 (dip azimuth / dip).

Figure 11a – Stereonet – S_1 Foliation



Two phases of transitional to brittle deformation overprint the pervasive S_1 foliation. One phase consists of the development of brittle fault zones of unknown orientation and offset – although lithogeochemical data suggests little to no movement for the most part. The tops of

the drill holes are characterized by zones of S_1 parallel gouge development consistent with the presence of a northwest dipping low-angle brittle fault. A second phase of transitional deformation is intimately related to cm- to m-scale massive quartz +/- chlorite +/- sulphide extensional (?) veins and is characterized by kinked / crenulated S_1 foliation. Limited oriented core data from these zones suggests a subvertical orientation with a NW strike.

The main styles of mineralized veins (CHLSULPH, QTZSERPY and QTZSULPH) are consistently sub-parallel to the dominant S_1 foliation (Figure 11b) and have very likely been rotated parallel to S_1 via ductile deformation processes. Later stage veins such as QTZCHL and QTZ are commonly discordant to the main foliation, dipping more to the south than S_1 and the mineralized veins (Figure 11c).

Figure 11b – Stereonet – Mineralized Veins

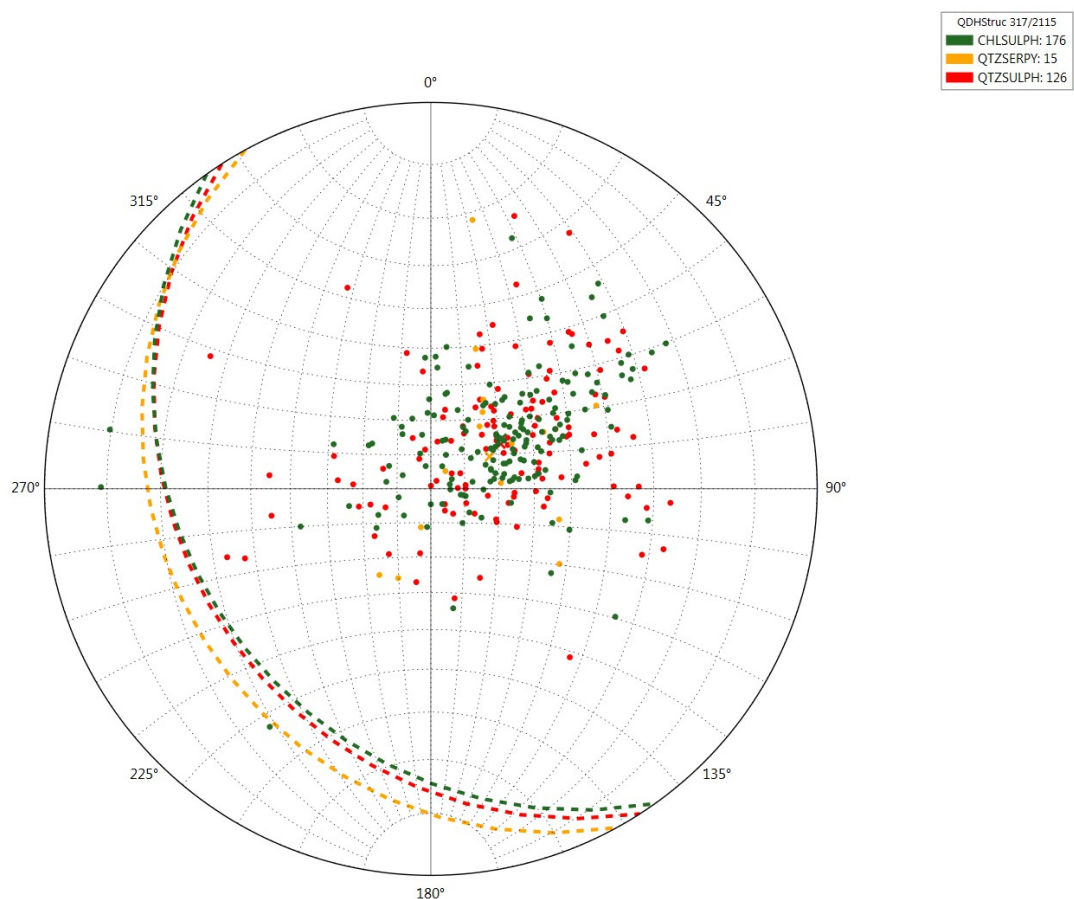
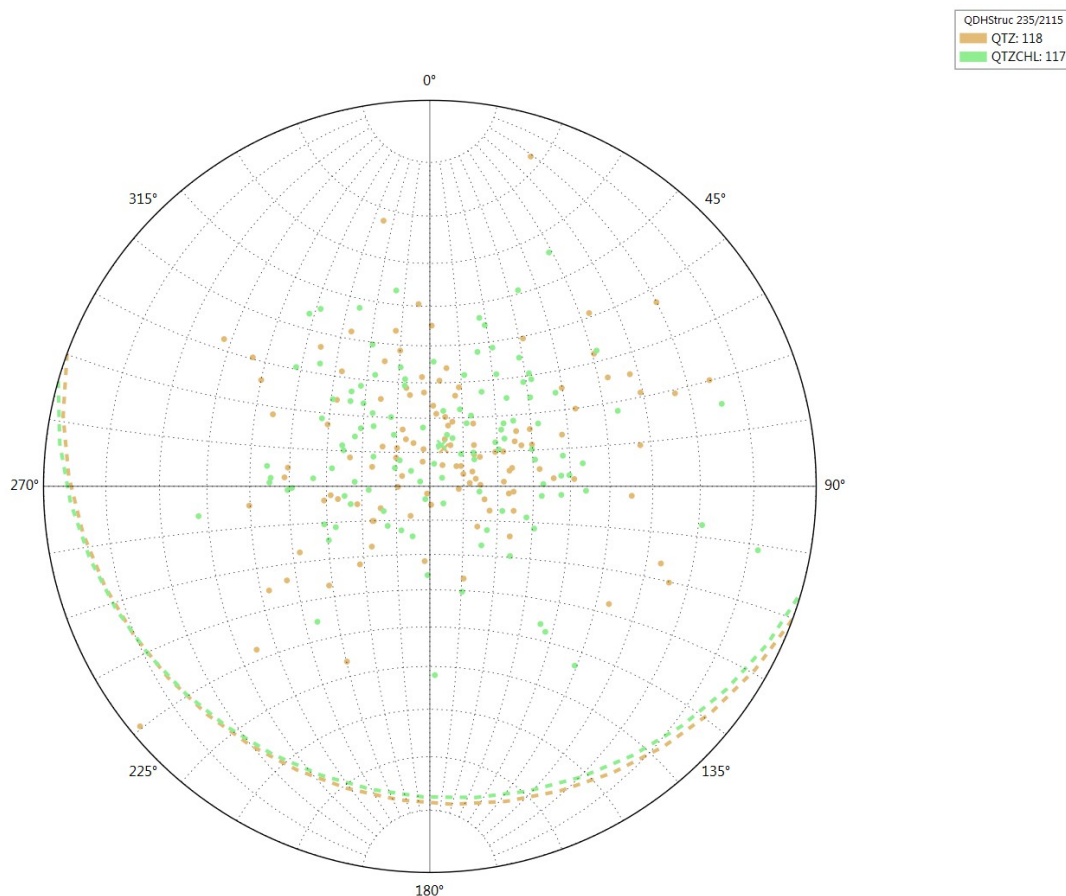


Figure 11c – Stereonet – Late Stage Veins



Joints show three preferential orientations with the strongest trend moderately dipping to the SW (sub-parallel to the main S1 foliation) while the other two subordinate orientations could represent conjugate sets at 137/74 and 306/50.

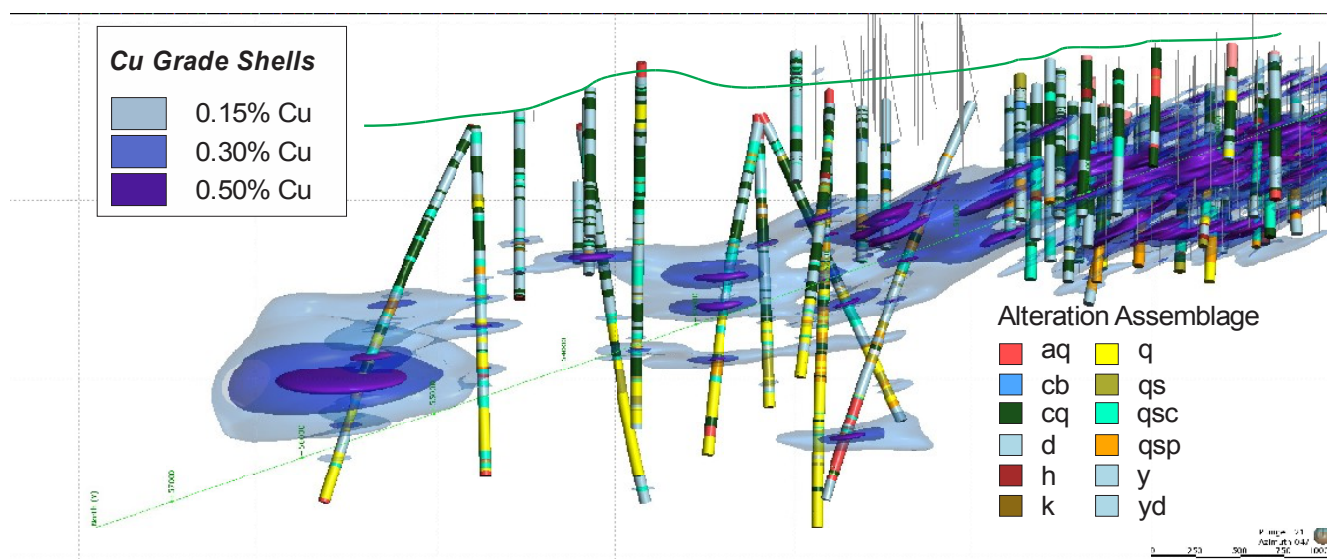
Detailed analysis of oriented core data suggests that mineralization has a moderate SW dip – but overall distribution may also be controlled by later brittle structures. To date no high-grade ore shoots, defined by intersecting structures have been identified.

CONCLUSIONS

The 2016 exploration program was successful in extending high-grade Cu mineralization encountered in hole 2015-001 along strike to the northwest. Drill holes testing mineralization up and down dip intersected low grade Cu mineralization associated with well-developed pervasive hydrothermal alteration suggesting the overall geometry of the system is a shallowly plunging, northwest trending, elongate body (Figure 12). The following conclusions have been made from the 2016 program data analysis:

- Mineralization in the GibNW area is concordant to the anastomosing penetrative ductile fabric; it remains unclear as to relative timing of hydrothermal alteration and deformation
- A southwest dipping stratigraphy has been established, defined by an uppermost tonalite, a footwall quartz-eye porphyritic trondhjemite and an interlayered zone of tonalite / transitional trondhjemite between the two; majority of mineralization is hosted in the lower tonalite / transitional zone
- Hydrothermal alteration is consistent with other zones of Gibraltar Mine and is dominated by sequential quartz-chlorite, quartz-sericite-chlorite and quartz-sericite-pyrite alteration zones that host the bulk of copper mineralization; a footwall alteration sequence consisting of quartz +/- sericite +/- ankerite is present within the trondhjemite
- Progressive alteration from propylitic to quartz-chlorite to quartz-sericite-pyrite results in a net gain of potassium, a loss of sodium and magnesium; quartz-chlorite alteration assemblages show only a minor increase in magnesium content
- The exploration area is devoid of mineralized dykes, magmatic / phreatic / magmatophreatic breccias and / or pipes
- GibNW zone exhibits elevated Pb, Zn and Ag values compared to the other areas of the mine and is depleted in Mo
- The presence of base metal mineralization, a lack of Mo and the dominance of quartz-chlorite +/- sericite and qsp alteration suggest that GibNW zone is likely on the periphery of the main deposit at a moderate depth, situated well above the main mineralizing intrusive but below the epithermal zone.
- Mineralization in the GibNW zone remains open along strike to the northwest.

Figure 12 – 3D view of Cu distribution in the GibNW zone



RECOMMENDATIONS

Based on the success of the 2016 exploration program, an aggressive follow-up program is recommended as follows:

- first and foremost a modern IP survey is recommended for the new claim group to help refine the distribution of the new trend as well as identify new targets;
- a high-resolution magnetometer survey (ground or airborne) of the area is also recommended to compliment the IP survey;
- an orientation soil survey over the GibNW zone should be completed to quantify the response of buried Cu mineralization and determine if it is a useful exploration technique;
- a TerraSpec Halo NIR spectrometer study to help determine species of chlorite / clays present in the system; commonly can help with temperature vectoring;
- a two-phase drill program with phase I focusing on infill drilling along the newly defined 4,000' (1200m) mineralized trend and phase II exploration to test newly defined targets from the surficial geophysical survey. Total footage for the two phases should be in the order of 50,000' (15,250m).

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Monck, Janice R., Gibraltar Copper-Molybdenum Mine 2003 Exploration Diamond Drilling Assessment Report, dated 30 September, 2004.

van Straaten, B. I., Oliver, J., Crozier, J., Goodue, L., 2013. A Summary of the Gibraltar porphyry copper-molybdenum deposit, south-central British Columbia, Canada

APPENDIX I
STATEMENT OF QUALITIFCATIONS

I, Christopher Shannon Charles LeRoy Gallagher, M. Sc. do hereby certify that:

I am currently employed as Chief Database Administrator for TerraLogic Exploration Inc. with a business address: Suite 200 44-12th Ave South, Cranbrook, BC V1C2R7.

I graduated with a Masters of Science Degree from the Carleton University in 1999.

I have worked as a geologist for a total of 16 years since my graduation from university.

This report is supported by diamond drill, geology and geochemical data and samples collected during fieldwork on the Gibraltar NW zone in the Cariboo Mining Division, BC, NTS: 093B 08/09, during the period of November 17th, 2016 and February 14th, 2017.

Dated this 14th day of March, 2016

A handwritten signature in dark ink, appearing to read 'C. Gallagher', is written over a horizontal line.

Christopher S. Gallagher, M. Sc.

APPENDIX II
STATEMENT OF EXPENDITURES

Statement of Expenditures

Exploration Drilling (10 holes): DDH-2016-E01 to E07 and 2017-E01 to E03

Description	Cost	Total
Drill Contractor costs (November 17, 2016 - January 24, 2017)		
- Drilling (19,165 feet / 5,843m)	\$40.96 Cost/ft	\$784,998
Contract labour - Splitting Core	\$4.00 Cost/ft	\$76,660
Supplies	\$2.25 Cost/ft	\$43,121
Assays (250 samples)	\$36.64 Cost/sample	\$70,221
Shipping	\$0.32 Cost/ft	\$6,133
Geological Contractors		
TerraLogic (drill days plus 21 = 64 total days)	\$2,500 Cost/day	\$230,000
QAQC - report and data entry	\$1.58 Cost/ft	\$30,281
Gibraltar Mine Ltd costs		
Supervision (115 hrs @ \$75/hr)		\$8,625
Cost of Program:		\$1,250,039
	GST:	\$62,502
Total cost of Program (with GST):		\$1,312,541

APPENDIX III
EXPLORATION AND DEVELOPMENT WORK / EXPIRY DATE CHANGE



Print and Close

Cancel

Mineral Titles Online

Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

Recorder: LAZZAROTTO, FIONA
ISABELLA (283350)

Submitter: LAZZAROTTO, FIONA
ISABELLA (283350)

Recorded: 2016/DEC/20

Effective: 2016/DEC/20

D/E Date: 2016/DEC/20

Confirmation

If you have not yet submitted your report for this work program, your technical work report is due in 90 days. The Exploration and Development Work/Expiry Date Change event number is required with your report submission.

Please attach a copy of this confirmation page to your report. Contact Mineral Titles Branch for more information.

Event Number: 5629970

Work Type: Technical Work
Technical Items: Drilling

Work Start Date: 2016/NOV/01

Work Stop Date: 2016/DEC/10

Total Value of Work: \$ 575000.00

Mine Permit No: M-40

Summary of the work value:

Title Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days Forward	Area in Ha	Applied Work Value	Sub- mission Fee
204104	HY 1	1978/MAY/01	2017/NOV/28	2017/NOV/28	0	100.00	\$ 0.00	\$ 0.00
204105	HY 4	1978/MAY/01	2017/AUG/15	2022/AUG/25	1836	150.00	\$ 6811.64	\$ 0.00
204107	HY 7	1978/MAY/01	2017/AUG/15	2022/AUG/25	1836	75.00	\$ 3405.82	\$ 0.00
204115	TIM 1	1978/AUG/28	2017/AUG/15	2022/AUG/25	1836	50.00	\$ 2270.55	\$ 0.00
204116	COLE 1	1978/AUG/28	2017/AUG/15	2022/AUG/25	1836	225.00	\$ 10217.47	\$ 0.00
204159	GEOFF 1	1979/MAY/29	2017/AUG/15	2022/AUG/25	1836	225.00	\$ 10217.47	\$ 0.00
204160	DOUG I	1979/JUN/26	2017/AUG/15	2022/AUG/25	1836	75.00	\$ 3405.82	\$ 0.00
204161	RYAN I	1979/JUN/26	2017/AUG/15	2022/AUG/25	1836	25.00	\$ 1135.27	\$ 0.00
204162	AARON I	1979/JUN/26	2017/AUG/15	2022/AUG/25	1836	25.00	\$ 1135.27	\$ 0.00
204217	BARB I	1979/NOV/14	2017/AUG/15	2022/AUG/25	1836	300.00	\$ 13623.29	\$ 0.00
204218	BRENT I	1979/NOV/14	2017/AUG/15	2022/AUG/25	1836	150.00	\$ 6811.64	\$ 0.00
204219	JANIS I	1979/NOV/14	2017/AUG/15	2022/AUG/25	1836	75.00	\$ 3405.82	\$ 0.00
204300	HY 8	1980/JUN/10	2017/NOV/28	2017/NOV/28	0	75.00	\$ 0.00	\$ 0.00
204301	HY 9	1980/JUN/10	2017/AUG/15	2022/AUG/25	1836	50.00	\$ 2270.55	\$ 0.00
204302	HY 10	1980/JUN/10	2017/AUG/15	2022/AUG/25	1836	300.00	\$ 13623.29	\$ 0.00
204303	HY 11	1980/JUN/10	2017/AUG/15	2022/AUG/25	1836	225.00	\$ 10217.47	\$ 0.00
204304	HY 12	1980/JUN/10	2017/AUG/15	2022/AUG/25	1836	350.00	\$ 15893.84	\$ 0.00
204305	HY 13	1980/JUN/10	2017/AUG/15	2022/AUG/25	1836	150.00	\$ 6811.64	\$ 0.00
204306	HY 14	1980/JUN/10	2017/AUG/15	2022/AUG/25	1836	175.00	\$ 7946.92	\$ 0.00
204307	HY 15	1980/JUN/10	2017/AUG/15	2022/AUG/15	1826	150.00	\$ 6750.00	\$ 0.00
204308	HY 16	1980/JUN/10	2017/AUG/15	2022/AUG/15	1826	100.00	\$ 4500.00	\$ 0.00
204309	HY 17	1980/JUN/10	2017/AUG/15	2022/AUG/15	1826	50.00	\$ 2250.00	\$ 0.00
204317	HY 3	1980/JUN/12	2017/NOV/28	2017/NOV/28	0	225.00	\$ 0.00	\$ 0.00
204443	HY 19	1981/MAR/24	2017/NOV/08	2022/AUG/15	1741	50.00	\$ 3203.42	\$ 0.00
204444	HY 20	1981/MAR/24	2017/NOV/08	2022/AUG/15	1741	50.00	\$ 3203.42	\$ 0.00
204518	BRUCE I	1981/JUN/29	2017/AUG/15	2022/AUG/15	1826	300.00	\$ 13500.00	\$ 0.00

204519	PAUL I	1981/JUN/29	2017/AUG/15	2022/AUG/15	1826	300.00	\$ 13500.00	\$ 0.00
204539	ZE 3	1981/AUG/17	2017/NOV/08	2022/AUG/15	1741	500.00	\$ 32034.25	\$ 0.00
204914	HY 22	1985/JAN/02	2017/NOV/08	2022/AUG/15	1741	50.00	\$ 3203.42	\$ 0.00
204975	ZE 7	1985/AUG/16	2017/NOV/08	2022/AUG/15	1741	50.00	\$ 3203.42	\$ 0.00
207143	TK 1	1990/AUG/23	2017/NOV/08	2022/AUG/15	1741	50.00	\$ 3203.42	\$ 0.00
207144	TK 2	1990/AUG/24	2017/NOV/08	2022/AUG/15	1741	50.00	\$ 3203.42	\$ 0.00
207198	TK 3	1990/SEP/12	2017/NOV/08	2022/AUG/15	1741	100.00	\$ 6406.85	\$ 0.00
207612	GM 31	1964/MAR/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207613	GM 32	1964/MAR/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207614	GM 33	1964/MAR/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207615	GM 34	1964/MAR/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207616	GM 35	1964/MAR/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207617	GM 36	1964/MAR/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207618	GM 37	1964/MAR/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207619	GM 38	1964/MAR/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207622	GM 49	1964/MAR/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207623	GM 50	1964/MAR/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207624	GM 51	1964/MAR/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207625	GM 52	1964/MAR/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207626	GM 59	1964/MAR/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207627	GM 60	1964/MAR/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207632	GM 65	1964/MAR/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207633	GM 66	1964/MAR/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207634	GM 67	1964/MAR/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207635	GM 68	1964/MAR/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207636	GM 69	1964/MAR/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207637	GM 70	1964/MAR/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207638	GM 71	1964/MAR/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207639	GM 72	1964/MAR/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207644	JAN NO. 5	1964/APR/10	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207645	JAN NO. 6	1964/APR/10	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207647	AL #2	1964/JUL/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207648	AL #3	1964/JUL/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207649	AL #4	1964/JUL/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207650	AL #5	1964/JUL/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207651	AL #6	1964/JUL/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207653	AL #8	1964/JUL/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207655	AL #10	1964/JUL/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207657	AL #12	1964/JUL/02	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207658	SUMMIT NO.7	1964/JUL/20	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207659	SUMMIT NO.8	1964/JUL/20	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207661	GM 104	1964/AUG/21	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207682	EV #9	1965/OCT/19	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207683	EV #10	1965/OCT/19	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207684	EV #11	1965/OCT/19	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207685	EV #12	1965/OCT/19	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207686	EV #13	1965/OCT/19	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207687	EV #14	1965/OCT/19	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207692	EV #15	1966/JAN/17	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207693	EV #16	1966/JAN/17	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207694	EV #17	1966/JAN/17	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207695	EV #18	1966/JAN/17	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207696	EV #19	1966/JAN/17	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207697	EV #20	1966/JAN/17	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207698	BUD #5	1966/JAN/17	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207699	BUD #6	1966/JAN/17	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207700	IT NO. 1	1966/FEB/14	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207701	IT NO. 4	1966/FEB/14	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207702	IT NO. 5	1966/FEB/14	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207703	IT NO. 6	1966/FEB/14	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207704	IT NO. 8	1966/FEB/14	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207705	VAL NO.1	1966/MAR/19	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207706	VAL NO.2	1966/MAR/18	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207707	VAL NO.3	1966/MAR/18	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207708	VAL NO.4	1966/MAR/18	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00

207709	VAL NO.5	1966/MAR/18	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207710	VAL NO.6	1966/MAR/18	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207711	VAL NO.7	1966/MAR/18	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207712	VAL NO.8	1966/MAR/18	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207713	VAL NO.9	1966/MAR/18	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207714	VAL NO.10	1966/MAR/18	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207715	VAL NO.11	1966/MAR/18	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207716	VAL NO.12	1966/MAR/18	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207717	VAL NO.14	1966/MAR/18	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207718	VAL NO.19	1966/MAR/18	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207720	VAL NO.21	1966/MAR/18	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207721	VAL NO.22	1966/MAR/18	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207722	VAL NO.27	1966/MAR/18	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207723	FFE #13	1966/MAY/16	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207724	FFE #14	1966/MAY/16	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207725	FFE #15	1966/MAY/16	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207726	FFE #16	1966/MAY/16	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207729	BUD 7	1966/JUN/14	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207730	BUD 8	1966/JUN/14	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207731	EV 21	1966/JUN/14	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207732	EV 22	1966/JUN/14	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207749	PINE TREE #1	1967/JUL/04	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207750	PINE TREE #2	1967/JUL/04	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207751	FLO #2 FR.	1967/AUG/03	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207752	FLO #3 FR.	1967/AUG/29	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207753	FLO #4 FR.	1967/AUG/29	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207754	PINE TREE #3	1967/SEP/06	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207755	PINE TREE #4	1967/SEP/06	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207756	PINE TREE #5	1967/SEP/06	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207757	PINE TREE #6	1967/SEP/06	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207758	CAROL #4 FR	1968/JUL/12	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207763	H.A. #1	1968/OCT/16	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207764	H.A. #2	1968/OCT/16	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207766	H.A. #4	1968/OCT/16	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207767	HAS 2	1968/OCT/16	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207768	HAS 12	1968/OCT/16	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207769	HAS 13	1968/OCT/16	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207770	HAS 14	1968/OCT/16	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207771	HAS 15	1968/OCT/16	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207772	HAS 16	1968/OCT/16	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207773	HAS 17	1968/OCT/16	2017/NOV/08	2022/AUG/15	1741	25.00	\$ 1601.71	\$ 0.00
207774	HAS 18	1968/OCT/16	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
207776	HAS 20	1968/OCT/16	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
207777	VE 21	1969/APR/28	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
207779	VAL #37	1969/JUL/18	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
207780	VAL #39	1969/JUL/18	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
207781	VAL #41	1969/JUL/18	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
207784	VAL #47	1969/JUL/18	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
207785	VAL #49	1969/JUL/18	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
207787	STU #2 FR.	1969/JUL/18	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
207788	STU #3 FR.	1969/JUL/18	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
207792	STU #6 FR.	1969/AUG/12	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
207800	VAL #48	1969/AUG/12	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
207801	VAL #50	1969/AUG/12	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
207844	IT 3	1971/APR/06	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
207880	HA #5	1974/MAY/23	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
207881	HA #6	1974/MAY/23	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
207882	VAL #23	1974/MAY/23	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
207883	VAL #24	1974/MAY/23	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
207885	VAL #26	1974/MAY/23	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
372063	TM7	1999/SEP/28	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
374757	HD1	2000/MAR/07	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
374758	HD2	2000/MAR/07	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
374759	HD3	2000/MAR/08	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
374760	HD4	2000/MAR/08	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00

375873	HD 12	2000/APR/19	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
375874	HD 13	2000/APR/18	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
375875	HD 14	2000/APR/18	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
375876	HD 15	2000/APR/18	2017/NOV/08	2017/NOV/08	0	25.00	\$ 0.00	\$ 0.00
376489	HD 7	2000/MAY/05	2017/NOV/08	2017/NOV/08	0	175.00	\$ 0.00	\$ 0.00
376490	HD 8	2000/MAY/03	2017/NOV/08	2017/NOV/08	0	125.00	\$ 0.00	\$ 0.00
376491	HD 9	2000/MAY/01	2017/NOV/08	2017/NOV/08	0	75.00	\$ 0.00	\$ 0.00
507748		2005/FEB/23	2016/DEC/24	2022/AUG/15	2060	1946.55	\$ 124819.38	\$ 0.00
516589		2005/JUL/10	2017/NOV/08	2017/NOV/08	0	236.24	\$ 0.00	\$ 0.00
516591		2005/JUL/10	2017/NOV/08	2017/NOV/08	0	157.46	\$ 0.00	\$ 0.00
516593		2005/JUL/10	2017/NOV/08	2017/NOV/08	0	59.06	\$ 0.00	\$ 0.00
516602		2005/JUL/10	2017/NOV/08	2017/NOV/08	0	196.85	\$ 0.00	\$ 0.00
516603		2005/JUL/10	2017/NOV/08	2017/NOV/08	0	98.40	\$ 0.00	\$ 0.00
516604		2005/JUL/10	2017/NOV/08	2017/NOV/08	0	78.79	\$ 0.00	\$ 0.00
516605		2005/JUL/10	2017/NOV/08	2017/NOV/08	0	118.00	\$ 0.00	\$ 0.00
516876		2005/JUL/11	2017/NOV/08	2017/NOV/08	0	630.38	\$ 0.00	\$ 0.00
516878		2005/JUL/11	2017/NOV/08	2017/NOV/08	0	177.21	\$ 0.00	\$ 0.00
516881		2005/JUL/11	2017/NOV/08	2017/NOV/08	0	433.01	\$ 0.00	\$ 0.00
516883		2005/JUL/11	2017/NOV/08	2017/NOV/08	0	531.23	\$ 0.00	\$ 0.00
516887		2005/JUL/11	2017/NOV/08	2017/NOV/08	0	78.68	\$ 0.00	\$ 0.00
516995		2005/JUL/11	2017/NOV/08	2017/NOV/08	0	39.35	\$ 0.00	\$ 0.00
516996		2005/JUL/11	2017/NOV/08	2017/NOV/08	0	59.01	\$ 0.00	\$ 0.00
516997		2005/JUL/11	2017/NOV/08	2017/NOV/08	0	59.01	\$ 0.00	\$ 0.00
517212		2005/JUL/12	2017/NOV/08	2017/NOV/08	0	59.00	\$ 0.00	\$ 0.00
517366		2005/JUL/12	2017/NOV/08	2017/NOV/08	0	412.93	\$ 0.00	\$ 0.00
533751	CU ACE NORTH 3	2006/MAY/08	2016/DEC/24	2022/AUG/15	2060	471.48	\$ 30232.78	\$ 0.00
739682	CHRIS	2010/APR/03	2017/NOV/08	2017/NOV/08	0	39.31	\$ 0.00	\$ 0.00
739702	GRANITE MOUNTAIN	2010/APR/03	2017/NOV/08	2022/AUG/15	1741	39.33	\$ 2297.04	\$ 0.00
739722	GRANITE 2	2010/APR/03	2017/NOV/08	2017/NOV/08	0	393.29	\$ 0.00	\$ 0.00
739742	CHRIS 2	2010/APR/03	2017/NOV/08	2017/NOV/08	0	393.10	\$ 0.00	\$ 0.00
739783	CHRIS 3	2010/APR/03	2017/NOV/08	2017/NOV/08	0	392.98	\$ 0.00	\$ 0.00
831129		2010/AUG/05	2017/NOV/08	2017/NOV/08	0	39.34	\$ 0.00	\$ 0.00
831133		2010/AUG/05	2017/NOV/08	2017/NOV/08	0	39.34	\$ 0.00	\$ 0.00
850472		2011/APR/01	2017/NOV/08	2017/NOV/08	0	412.46	\$ 0.00	\$ 0.00
850482		2011/APR/01	2017/SEP/30	2022/AUG/15	1780	471.37	\$ 41674.53	\$ 0.00
946877		2012/FEB/07	2017/NOV/08	2017/NOV/08	0	58.99	\$ 0.00	\$ 0.00
1033395	GIB1	2015/JAN/15	2017/NOV/08	2017/NOV/08	0	550.95	\$ 0.00	\$ 0.00
1033396	GIB2	2015/JAN/15	2017/NOV/08	2017/NOV/08	0	492.15	\$ 0.00	\$ 0.00

Financial Summary:**Total applied work value:**\$ 574958.41**PAC name:** Gibraltar Mines Limited**Debited PAC amount:** \$ 0.0**Credited PAC amount:** \$ 41.59**Total Submission Fees:** \$ 0.0**Total Paid:** **\$ 0.0***Please print this page for your records.*

The event was successfully saved.

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Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

Recorder: LAZZAROTTO, FIONA
ISABELLA (283350)

Submitter: LAZZAROTTO, FIONA
ISABELLA (283350)

Recorded: 2017/MAR/02

Effective: 2017/MAR/02

D/E Date: 2017/MAR/02

Confirmation

If you have not yet submitted your report for this work program, your technical work report is due in 90 days. The Exploration and Development Work/Expiry Date Change event number is required with your report submission.

Please attach a copy of this confirmation page to your report. Contact Mineral Titles Branch for more information.

Event Number: 5640137

Work Type: Technical Work
Technical Items: Drilling

Work Start Date: 2016/DEC/11

Work Stop Date: 2017/JAN/28

Total Value of Work: \$ 675000.00

Mine Permit No: M-40

Summary of the work value:

Title Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days Forward	Area in Ha	Applied Work Value	Sub-mission Fee
207774	HAS 18	1968/OCT/16	2017/NOV/08	2022/nov/15	1833	25.00	\$ 1727.74	\$ 0.00
207776	HAS 20	1968/OCT/16	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207777	VE 21	1969/APR/28	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207779	VAL #37	1969/JUL/18	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207780	VAL #39	1969/JUL/18	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207781	VAL #41	1969/JUL/18	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207782	VAL #43	1969/JUL/18	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207783	VAL #45	1969/JUL/18	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207784	VAL #47	1969/JUL/18	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207785	VAL #49	1969/JUL/18	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207787	STU #2 FR.	1969/JUL/18	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207788	STU #3 FR.	1969/JUL/18	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207789	STU #4 FR.	1969/JUL/18	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207792	STU #6 FR.	1969/AUG/12	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207793	VAL #35	1969/AUG/12	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207794	VAL #36	1969/AUG/12	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207795	VAL #38	1969/AUG/12	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207796	VAL #40	1969/AUG/12	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207797	VAL #42	1969/AUG/12	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207798	VAL #44	1969/AUG/12	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207799	VAL #46	1969/AUG/12	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207800	VAL #48	1969/AUG/12	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207801	VAL #50	1969/AUG/12	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207844	IT 3	1971/APR/06	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207855	SAP #5 FR.	1972/JUN/21	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207880	HA #5	1974/MAY/23	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00

207881	HA #6	1974/MAY/23	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207882	VAL #23	1974/MAY/23	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207883	VAL #24	1974/MAY/23	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
207885	VAL #26	1974/MAY/23	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
372063	TM7	1999/SEP/28	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
374757	HD1	2000/MAR/07	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
374758	HD2	2000/MAR/07	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
374759	HD3	2000/MAR/08	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
374760	HD4	2000/MAR/08	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
374761	HD5	2000/MAR/10	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
375873	HD 12	2000/APR/19	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
375874	HD 13	2000/APR/18	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
375875	HD 14	2000/APR/18	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
375876	HD 15	2000/APR/18	2017/NOV/08	2022/NOV/15	1833	25.00	\$ 1727.74	\$ 0.00
376489	HD 7	2000/MAY/05	2017/NOV/08	2022/NOV/15	1833	175.00	\$ 12094.18	\$ 0.00
376490	HD 8	2000/MAY/03	2017/NOV/08	2022/NOV/15	1833	125.00	\$ 8638.70	\$ 0.00
376491	HD 9	2000/MAY/01	2017/NOV/08	2022/NOV/15	1833	75.00	\$ 5183.22	\$ 0.00
516995		2005/JUL/11	2017/NOV/08	2022/NOV/15	1833	39.35	\$ 2719.53	\$ 0.00
516593		2005/JUL/10	2017/NOV/08	2022/NOV/15	1833	59.06	\$ 4081.75	\$ 0.00
204104	HY 1	1978/MAY/01	2017/NOV/28	2022/NOV/15	1813	100.00	\$ 4446.58	\$ 0.00
406338	TK5	2003/OCT/19	2017/NOV/08	2022/NOV/15	1833	500.00	\$ 34554.79	\$ 0.00
516589		2005/JUL/10	2017/NOV/08	2022/NOV/15	1833	236.24	\$ 16326.31	\$ 0.00
516591		2005/JUL/10	2017/NOV/08	2022/NOV/15	1833	157.46	\$ 10881.72	\$ 0.00
516602		2005/JUL/10	2017/NOV/08	2022/NOV/15	1833	196.85	\$ 13604.29	\$ 0.00
516603		2005/JUL/10	2017/NOV/08	2022/NOV/15	1833	98.40	\$ 6800.59	\$ 0.00
516604		2005/JUL/10	2017/NOV/08	2022/NOV/15	1833	78.79	\$ 5444.94	\$ 0.00
516605		2005/JUL/10	2017/NOV/08	2022/NOV/15	1833	118.00	\$ 8154.86	\$ 0.00
516876		2005/JUL/11	2017/NOV/08	2022/NOV/15	1833	630.38	\$ 43565.23	\$ 0.00
516878		2005/JUL/11	2017/NOV/08	2022/NOV/15	1833	177.21	\$ 12246.77	\$ 0.00
516881		2005/JUL/11	2017/NOV/08	2022/NOV/15	1833	433.01	\$ 29925.07	\$ 0.00
516883		2005/JUL/11	2017/NOV/08	2022/NOV/15	1833	531.23	\$ 36712.81	\$ 0.00
516887		2005/JUL/11	2017/NOV/08	2022/NOV/15	1833	78.68	\$ 5437.75	\$ 0.00
516996		2005/JUL/11	2017/NOV/08	2022/NOV/15	1833	59.01	\$ 4077.81	\$ 0.00
516997		2005/JUL/11	2017/NOV/08	2022/NOV/15	1833	59.01	\$ 4078.16	\$ 0.00
517212		2005/JUL/12	2017/NOV/08	2022/NOV/15	1833	59.00	\$ 4077.67	\$ 0.00
517366		2005/JUL/12	2017/NOV/08	2022/NOV/15	1833	412.93	\$ 28537.08	\$ 0.00
739682	CHRIS	2010/APR/03	2017/NOV/08	2022/NOV/15	1833	39.31	\$ 2493.98	\$ 0.00
739722	GRANITE 2	2010/APR/03	2017/NOV/08	2022/NOV/15	1833	393.29	\$ 24949.63	\$ 0.00
739742	CHRIS 2	2010/APR/03	2017/NOV/08	2022/NOV/15	1833	393.10	\$ 24937.74	\$ 0.00
739783	CHRIS 3	2010/APR/03	2017/NOV/08	2022/NOV/15	1833	392.98	\$ 24930.20	\$ 0.00
831129		2010/AUG/05	2017/NOV/08	2022/NOV/15	1833	39.34	\$ 2495.70	\$ 0.00
831133		2010/AUG/05	2017/NOV/08	2022/NOV/15	1833	39.34	\$ 2495.70	\$ 0.00
850472		2011/APR/01	2017/NOV/08	2022/NOV/15	1833	412.46	\$ 26166.09	\$ 0.00
850473		2011/APR/01	2017/NOV/08	2022/NOV/15	1833	471.35	\$ 43293.06	\$ 0.00
850475		2011/APR/01	2017/NOV/08	2022/NOV/15	1833	491.01	\$ 45099.22	\$ 0.00
946877		2012/FEB/07	2017/NOV/08	2022/NOV/15	1833	58.99	\$ 5417.97	\$ 0.00
1033395	GIB1	2015/JAN/15	2017/NOV/08	2022/NOV/15	1833	550.95	\$ 37238.19	\$ 0.00
1033396	GIB2	2015/JAN/15	2017/NOV/08	2022/NOV/15	1833	492.15	\$ 33263.92	\$ 0.00
204300	HY 8	1980/JUN/10	2017/NOV/28	2022/NOV/15	1813	75.00	\$ 3334.93	\$ 0.00
204317	HY 3	1980/JUN/12	2017/NOV/28	2022/NOV/15	1813	225.00	\$ 10004.79	\$ 0.00
507748		2005/FEB/23	2022/AUG/15	2022/NOV/15	92	1946.55	\$ 9812.76	\$ 0.00
533751	CU ACE NORTH 3	2006/MAY/08	2022/AUG/15	2022/NOV/15	92	471.48	\$ 2376.77	\$ 0.00
204105	HY 4	1978/MAY/01	2022/AUG/25	2022/NOV/15	82	150.00	\$ 505.48	\$ 0.00
204107	HY 7	1978/MAY/01	2022/AUG/25	2022/NOV/15	82	75.00	\$ 252.74	\$ 0.00
204115	TIM 1	1978/AUG/28	2022/AUG/25	2022/NOV/15	82	50.00	\$ 168.49	\$ 0.00
204116	COLE 1	1978/AUG/28	2022/AUG/25	2022/NOV/15	82	225.00	\$ 758.22	\$ 0.00
204159	GEOFF 1	1979/MAY/29	2022/AUG/25	2022/NOV/15	82	225.00	\$ 758.22	\$ 0.00
204160	DOUG I	1979/JUN/26	2022/AUG/25	2022/NOV/15	82	75.00	\$ 252.74	\$ 0.00
204161	RYAN I	1979/JUN/26	2022/AUG/25	2022/NOV/15	82	25.00	\$ 84.25	\$ 0.00
204162	AARON I	1979/JUN/26	2022/AUG/25	2022/NOV/15	82	25.00	\$ 84.25	\$ 0.00
207143	TK 1	1990/AUG/23	2022/AUG/15	2022/NOV/15	92	50.00	\$ 252.05	\$ 0.00
207144	TK 2	1990/AUG/24	2022/AUG/15	2022/NOV/15	92	50.00	\$ 252.05	\$ 0.00
207198	TK 3	1990/SEP/12	2022/AUG/15	2022/NOV/15	92	100.00	\$ 504.11	\$ 0.00
207612	GM 31	1964/MAR/02	2022/AUG/15	2022/NOV/15	92	25.00	\$ 126.03	\$ 0.00
207613	GM 32	1964/MAR/02	2022/AUG/15	2022/NOV/15	92	25.00	\$ 126.03	\$ 0.00

207614	GM 33	1964/MAR/02	2022/AUG/15	2022/NOV/15	92	25.00	\$ 126.03	\$ 0.00
207615	GM 34	1964/MAR/02	2022/AUG/15	2022/NOV/15	92	25.00	\$ 126.03	\$ 0.00
207616	GM 35	1964/MAR/02	2022/AUG/15	2022/NOV/15	92	25.00	\$ 126.03	\$ 0.00
207617	GM 36	1964/MAR/02	2022/AUG/15	2022/NOV/15	92	25.00	\$ 126.03	\$ 0.00
207618	GM 37	1964/MAR/02	2022/AUG/15	2022/NOV/15	92	25.00	\$ 126.03	\$ 0.00
207619	GM 38	1964/MAR/02	2022/AUG/15	2022/NOV/15	92	25.00	\$ 126.03	\$ 0.00
207622	GM 49	1964/MAR/02	2022/AUG/15	2022/NOV/15	92	25.00	\$ 126.03	\$ 0.00
207623	GM 50	1964/MAR/02	2022/AUG/15	2022/NOV/15	92	25.00	\$ 126.03	\$ 0.00
207624	GM 51	1964/MAR/02	2022/AUG/15	2022/NOV/15	92	25.00	\$ 126.03	\$ 0.00
207625	GM 52	1964/MAR/02	2022/AUG/15	2022/NOV/15	92	25.00	\$ 126.03	\$ 0.00
207626	GM 59	1964/MAR/02	2022/AUG/15	2022/NOV/15	92	25.00	\$ 126.03	\$ 0.00
207627	GM 60	1964/MAR/02	2022/AUG/15	2022/NOV/15	92	25.00	\$ 126.03	\$ 0.00
739702	GRANITE MOUNTAIN	2010/APR/03	2022/AUG/15	2022/NOV/15	92	39.33	\$ 198.29	\$ 0.00
207773	HAS 17	1968/OCT/16	2022/AUG/15	2022/NOV/15	92	25.00	\$ 126.03	\$ 0.00
207772	HAS 16	1968/OCT/16	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207771	HAS 15	1968/OCT/16	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207770	HAS 14	1968/OCT/16	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207769	HAS 13	1968/OCT/16	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207768	HAS 12	1968/OCT/16	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207767	HAS 2	1968/OCT/16	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207766	H.A. #4	1968/OCT/16	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207764	H.A. #2	1968/OCT/16	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207763	H.A. #1	1968/OCT/16	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207758	CAROL #4 FR	1968/JUL/12	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207757	PINE TREE #6	1967/SEP/06	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207756	PINE TREE #5	1967/SEP/06	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207755	PINE TREE #4	1967/SEP/06	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207754	PINE TREE #3	1967/SEP/06	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207753	FLO #4 FR.	1967/AUG/29	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207752	FLO #3 FR.	1967/AUG/29	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207751	FLO #2 FR.	1967/AUG/03	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207750	PINE TREE #2	1967/JUL/04	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207749	PINE TREE #1	1967/JUL/04	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207732	EV 22	1966/JUN/14	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207731	EV 21	1966/JUN/14	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207730	BUD 8	1966/JUN/14	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207729	BUD 7	1966/JUN/14	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207726	FFE #16	1966/MAY/16	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207725	FFE #15	1966/MAY/16	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207724	FFE #14	1966/MAY/16	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207723	FFE #13	1966/MAY/16	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207722	VAL NO.27	1966/MAR/18	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207721	VAL NO.22	1966/MAR/18	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207720	VAL NO.21	1966/MAR/18	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207718	VAL NO.19	1966/MAR/18	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207717	VAL NO.14	1966/MAR/18	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207716	VAL NO.12	1966/MAR/18	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207715	VAL NO.11	1966/MAR/18	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207714	VAL NO.10	1966/MAR/18	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207713	VAL NO.9	1966/MAR/18	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207712	VAL NO.8	1966/MAR/18	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207711	VAL NO.7	1966/MAR/18	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207710	VAL NO.6	1966/MAR/18	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207709	VAL NO.5	1966/MAR/18	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207708	VAL NO.4	1966/MAR/18	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207707	VAL NO.3	1966/MAR/18	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207706	VAL NO.2	1966/MAR/18	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207705	VAL NO.1	1966/MAR/19	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207704	IT NO. 8	1966/FEB/14	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207703	IT NO. 6	1966/FEB/14	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207702	IT NO. 5	1966/FEB/14	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207701	IT NO. 4	1966/FEB/14	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207700	IT NO. 1	1966/FEB/14	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207699	BUD #6	1966/JAN/17	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00

207698	BUD #5	1966/JAN/17	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207697	EV #20	1966/JAN/17	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207696	EV #19	1966/JAN/17	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207695	EV #18	1966/JAN/17	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207694	EV #17	1966/JAN/17	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207693	EV #16	1966/JAN/17	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207692	EV #15	1966/JAN/17	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207687	EV #14	1965/OCT/19	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207686	EV #13	1965/OCT/19	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207685	EV #12	1965/OCT/19	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207684	EV #11	1965/OCT/19	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207683	EV #10	1965/OCT/19	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207682	EV #9	1965/OCT/19	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207661	GM 104	1964/AUG/21	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207659	SUMMIT NO.8	1964/JUL/20	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207658	SUMMIT NO.7	1964/JUL/20	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207657	AL #12	1964/JUL/02	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207655	AL #10	1964/JUL/02	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207653	AL #8	1964/JUL/02	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207651	AL #6	1964/JUL/02	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207650	AL #5	1964/JUL/02	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207649	AL #4	1964/JUL/02	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207648	AL #3	1964/JUL/02	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207647	AL #2	1964/JUL/02	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207645	JAN NO. 6	1964/APR/10	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207644	JAN NO. 5	1964/APR/10	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207639	GM 72	1964/MAR/02	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207638	GM 71	1964/MAR/02	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207637	GM 70	1964/MAR/02	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207636	GM 69	1964/MAR/02	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207635	GM 68	1964/MAR/02	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207634	GM 67	1964/MAR/02	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207633	GM 66	1964/MAR/02	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00
207632	GM 65	1964/MAR/02	2022/AUG/15	2022/AUG/15	0	25.00	\$ 0.00	\$ 0.00

Financial Summary:**Total applied work value:**\$ 674971.40**PAC name:** Gibraltar Mines Limited**Debited PAC amount:** \$ 0.0**Credited PAC amount:** \$ 28.6**Total Submission Fees:** \$ 0.0**Total Paid:** \$ 0.0**Related Summary:****Existing work program** 5629970**Event numbers:***Please print this page for your records.*

The event was successfully saved.

Click [here](#) to return to the Main Menu.

APPENDIX IV
ANALYTIC PROCEDURES



Geochemical Procedure

ME-MS81 Litho geochemistry

Sample Decomposition:

Lithium Borate ($\text{LiBO}_2/\text{Li}_2\text{B}_4\text{O}_7$) Fusion (FUS-LI01)*

Analytical Method:

Inductively Coupled Plasma - Mass Spectroscopy (ICP - MS)

A prepared sample (0.100 g) is added to lithium metaborate/lithium tetraborate flux, mixed well and fused in a furnace at 1025°C. The resulting melt is then cooled and dissolved in an acid mixture containing nitric, hydrochloric and hydrofluoric acids. This solution is then analyzed by inductively coupled plasma - mass spectrometry.

Element	Symbol	Unit	Lower Limit	Upper Limit
Barium	Ba	ppm	0.5	10000
Cerium	Ce	ppm	0.5	10000
Chromium	Cr	ppm	10	10000
Cesium	Cs	ppm	0.01	10000
Dysprosium	Dy	ppm	0.05	1000
Erbium	Er	ppm	0.03	1000
Europium	Eu	ppm	0.03	1000
Gallium	Ga	ppm	0.1	1000
Gadolinium	Gd	ppm	0.05	1000
Hafnium	Hf	ppm	0.2	10000
Holmium	Ho	ppm	0.01	1000
Lanthanum	La	ppm	0.5	10000
Lutetium	Lu	ppm	0.01	1000
Niobium	Nb	ppm	0.2	2500

Revision 09.00
January 10th, 2014



Geochemical Procedure

Element	Symbol	Unit	Lower Limit	Upper Limit
Neodymium	Nd	ppm	0.1	10000
Praseodymium	Pr	ppm	0.03	1000
Rubidium	Rb	ppm	0.2	10000
Samarium	Sm	ppm	0.03	1000
Tin	Sn	ppm	1	10000
Strontium	Sr	ppm	0.1	10000
Tantalum	Ta	ppm	0.1	2500
Terbium	Tb	ppm	0.01	1000
Thorium	Th	ppm	0.05	1000
Thallium	Tl	ppm	0.5	1000
Thulium	Tm	ppm	0.01	1000
Uranium	U	ppm	0.05	1000
Vanadium	V	ppm	5	10000
Tungsten	W	ppm	1	10000
Yttrium	Y	ppm	0.5	10000
Ytterbium	Yb	ppm	0.03	1000
Zirconium	Zr	ppm	2	10000

***Note:** Minerals that may not recover fully using the lithium borate fusion include zircon, some metal oxides, some rare-earth phosphates and some sulphides. Basemetals also do not fully recover using this method.

Basemetals determined by either aqua regia or 4-acid digestion and ICP-AES may be added to the ME-MS81 package. See following page.

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January 10th, 2014

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Geochemical Procedure

Addition of Basemetals

Sample Decomposition: Aqua Regia (GEO-AR01) or 4-Acid (GEO-4ACID)

Analytical Method: Inductively Coupled Plasma – Atomic Emission Spectroscopy (ICP-AES)

The lithium borate fusion is not the preferred method for the determination of base metals. Many sulfides and some metal oxides are only partially decomposed by the borate fusion and some elements such as cadmium and zinc can be volatilized.

Base metal and additional elements more appropriately analysed by acid digestion can be reported with ME-MS81 by either an aqua regia (**ME-AQ81**) or four acid digestion (**ME-4ACD81**). The four acid digestion is preferred when the targets include more resistive mineralization such as that associated with nickel and cobalt. Mercury is only offered with the aqua regia digestion.

ME-4ACD81

Element	Symbol	Units	Lower Limit	Upper Limit
Silver	Ag	ppm	0.5	100
Arsenic	As	ppm	5	10000
Cadmium	Cd	ppm	0.5	1000
Cobalt	Co	ppm	1	10000
Copper	Cu	ppm	1	10000
Lithium	Li	ppm	10	10000
Molybdenum	Mo	ppm	1	10000
Nickel	Ni	ppm	1	10000
Lead	Pb	ppm	2	10000
Scandium	Sc	ppm	1	10000
Zinc	Zn	ppm	2	10000

Revision 09.00
January 10th, 2014

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Geochemical Procedure

ME-AQ81

Note: Mercury is only available via the aqua regia digestion

Element	Symbol	Units	Lower Limit	Upper Limit
Silver	Ag	ppm	0.5	100
Arsenic	As	ppm	5	10000
Cadmium	Cd	ppm	0.5	1000
Cobalt	Co	ppm	1	10000
Copper	Cu	ppm	1	10000
Mercury	Hg	ppm	1	10000
Molybdenum	Mo	ppm	1	10000
Nickel	Ni	ppm	1	10000
Lead	Pb	ppm	2	10000
Zinc	Zn	ppm	2	10000



Specialty Assay Procedure

Cu-AA05

Determination of Oxidized Copper by a 5% Sulphuric Acid Leach

Sample Decomposition:

5% H₂SO₄ (ASY-CUSUL)

Analytical Method:

Atomic Absorption Spectroscopy (AAS)

This method is suitable for the determination of Cu oxide or soluble Cu in ores and any other samples analyzed by AAS for non-sulphide Cu.

The sample (~ 1.0 g) is shaken (in automatic shaker) in 5% sulphuric acid at room temperature for an hour. The solution is subsequently filtered into a flask ensuring the residue is well washed with warm water. The filtrate is diluted to volume with water, mixed and copper content is measured by atomic absorption spectrometry (AAS).

Element	Symbol	Units	Lower Limit	Upper Limit
Copper	Cu	%	0.001	10



Assay Procedure

ME-OG46

Ore Grade Elements by Aqua Regia Digestion Using Conventional ICP-AES Analysis

Sample Decomposition:

HNO₃-HCl Digestion (ASY-AR01)

Analytical Method:

Inductively Coupled Plasma – Atomic Emission Spectroscopy (ICP – AES)*

Assays for the evaluation of ores and high-grade materials are optimized for accuracy and precision at high concentrations. Ultra high concentration samples (> 15 –20%) may require the use of methods such as titrimetric and gravimetric analysis, in order to achieve maximum accuracy.

A prepared sample (0.4 g) is digested with concentrated nitric acid for 90 minutes in a graphite heating block. The resulting solution is diluted with concentrated hydrochloric acid before cooling to room temperature. The samples are diluted in a volumetric flask (100 or 250) mL with demineralized water and analysed using atomic absorption spectrometry.

***NOTE:** ICP-AES is the default finish technique for ME-OG46. However, under some conditions and at the discretion of the laboratory an AA finish may be substituted.

Element	Symbol	Units	Lower Limit	Upper Limit
Silver	Ag	ppm	1	1500
Arsenic	As	%	0.01	30
Cadmium	Cd	%	0.001	10
Cobalt	Co	%	0.001	20
Copper	Cu	%	0.001	40
Iron	Fe	%	0.01	100
Manganese	Mn	%	0.01	50
Molybdenum	Mo	%	0.001	10
Nickel	Ni	%	0.001	10
Lead	Pb	%	0.001	20
Zinc	Zn	%	0.001	30

Revision 02.04
Oct 06, 2011

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Fire Assay Procedure

Au-AA23 & Au-AA24 Fire Assay Fusion, AAS Finish

Sample Decomposition:

Fire Assay Fusion (FA-FUS01 & FA-FUS02)

Analytical Method:

Atomic Absorption Spectroscopy (AAS)

A prepared sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents as required, inquarted with 6 mg of gold-free silver and then cupelled to yield a precious metal bead.

The bead is digested in 0.5 mL dilute nitric acid in the microwave oven, 0.5 mL concentrated hydrochloric acid is then added and the bead is further digested in the microwave at a lower power setting. The digested solution is cooled, diluted to a total volume of 4 mL with de-mineralized water, and analyzed by atomic absorption spectroscopy against matrix-matched standards.

Method Code	Element	Symbol	Units	Sample Weight (g)	Lower Limit	Upper Limit	Default Overlimit Method
Au-AA23	Gold	Au	ppm	30	0.005	10.0	Au-GRA21
Au-AA24	Gold	Au	ppm	50	0.005	10.0	Au-GRA22

Revision 04.00
Aug 17, 2005

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APPENDIX V
ANALYTIC CERTIFICATES



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: **GIBRALTAR MINES LTD.**
P.O. BOX 130
10251 GIBRALTAR MINE ROAD
MCLEESE LAKE BC V0L 1P0

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Plus Appendix Pages
Finalized Date: 29 - NOV - 2016
This copy reported on
16 - MAR - 2017
Account: GIBMIN

CERTIFICATE KL16202791

Project: SGM2016-16

P.O. No.: SO218733

This report is for 100 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 21-NOV-2016.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Mo-OG46	Ore Grade Mo - Aqua Regia	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **GIBRALTAR MINES LTD.**
ATTN: ALS MINERALS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16202791

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
462113		6.45	0.23	1.75	0.9	<0.2	<10	50	0.08	0.15	2.05	0.82	5.28	11.5	6	0.06
462114		4.10	0.44	1.79	0.9	<0.2	<10	50	0.12	0.22	2.32	5.30	16.20	12.6	6	0.20
462115		5.86	0.83	1.94	0.5	<0.2	<10	50	0.10	0.05	2.41	0.34	16.70	11.2	11	0.08
462116		6.60	1.70	1.87	0.7	<0.2	<10	50	0.12	0.07	1.52	2.55	6.79	12.9	5	0.08
462117		6.95	0.07	1.89	0.5	<0.2	<10	50	0.13	0.04	1.38	2.93	8.51	10.6	7	0.12
462118		7.20	0.55	2.08	1.5	<0.2	<10	50	0.09	0.37	0.79	5.09	15.85	18.6	4	0.15
462119		7.46	0.16	1.95	1.6	<0.2	<10	40	0.08	0.22	0.62	3.07	12.70	12.1	5	0.09
462120		<0.02	0.17	2.00	1.6	<0.2	<10	50	0.09	0.20	0.62	3.34	13.45	11.8	6	0.10
462121		5.07	0.36	1.83	1.7	<0.2	<10	40	0.08	0.17	0.99	2.55	7.75	8.2	6	0.08
462122		3.62	0.36	1.74	1.1	<0.2	<10	40	0.10	0.17	1.76	1.63	9.68	9.2	5	0.17
462123		4.05	0.24	1.84	6.4	<0.2	<10	40	0.09	0.17	1.76	1.71	6.08	8.9	5	0.11
462124		6.24	0.20	1.93	0.5	<0.2	<10	40	0.09	0.13	2.76	0.27	12.25	9.1	4	0.08
462125		5.23	0.77	1.62	1.3	<0.2	<10	40	0.08	0.18	2.80	0.77	13.55	8.7	6	0.13
462126		5.24	3.72	1.77	6.4	<0.2	<10	60	0.08	1.15	0.97	1.71	11.20	12.5	4	0.14
462127		5.90	1.06	1.61	1.5	<0.2	<10	50	0.07	0.78	0.87	0.67	12.75	11.8	4	0.13
462128		7.03	0.19	1.68	1.1	<0.2	<10	60	0.08	0.47	1.35	3.17	7.00	11.6	5	0.09
462129		7.24	0.08	1.79	0.3	<0.2	<10	70	0.09	0.18	1.68	2.81	3.96	8.1	4	0.07
462130		0.04	0.53	2.15	14.8	<0.2	10	50	0.33	0.43	1.21	0.19	9.96	50.6	277	1.29
462131		7.37	0.30	1.62	0.6	<0.2	<10	70	0.11	1.17	0.59	0.16	4.63	9.3	5	0.05
462132		3.65	0.08	1.66	0.3	<0.2	<10	50	0.11	0.07	0.66	0.05	5.39	9.9	4	<0.05
462133		3.68	2.19	1.33	1.0	<0.2	<10	50	0.09	0.22	0.42	0.26	4.70	12.3	5	0.05
462134		3.44	0.30	1.23	0.7	<0.2	<10	50	0.10	0.17	0.27	0.11	12.20	9.7	4	0.08
462135		3.42	0.03	1.51	0.6	<0.2	<10	50	0.10	0.02	0.52	0.04	6.93	9.8	5	<0.05
462136		3.58	0.07	1.57	1.1	<0.2	<10	50	0.11	0.02	0.86	0.18	6.54	10.1	5	<0.05
462137		3.55	0.05	1.72	1.1	<0.2	<10	60	0.10	0.03	0.67	1.42	5.13	9.7	5	<0.05
462138		3.32	0.07	1.72	0.8	<0.2	<10	50	0.11	0.03	0.99	1.25	5.60	10.8	5	<0.05
462139		3.13	0.11	2.05	0.6	<0.2	<10	70	0.09	0.04	0.29	0.61	4.63	10.0	4	<0.05
462140		<0.02	0.11	1.96	0.6	<0.2	<10	60	0.10	0.04	0.28	0.60	4.56	10.4	4	<0.05
462141		4.07	0.51	1.89	0.4	<0.2	<10	70	0.11	0.06	0.25	0.35	4.50	12.2	4	<0.05
462142		3.53	0.06	1.65	0.6	<0.2	<10	50	0.10	0.04	0.67	0.39	6.88	12.2	5	<0.05
462143		3.71	0.03	1.72	0.6	<0.2	<10	50	0.11	0.04	1.15	3.80	4.47	8.8	5	<0.05
462144		4.20	0.08	2.20	0.6	<0.2	<10	40	0.11	0.04	1.18	0.24	3.41	11.2	5	<0.05
462145		4.07	0.26	2.09	0.7	<0.2	<10	50	0.11	0.08	0.31	0.25	4.76	9.5	5	<0.05
462146		3.67	0.39	1.91	0.7	<0.2	<10	70	0.10	0.08	0.43	1.36	3.57	10.1	4	<0.05
462147		4.00	0.04	1.63	0.5	<0.2	<10	50	0.08	0.02	1.83	0.78	5.17	9.4	4	<0.05
462148		4.19	0.05	1.67	0.5	<0.2	<10	40	0.10	0.04	1.39	0.13	4.97	10.9	5	<0.05
462149		4.10	1.09	0.77	1.6	<0.2	<10	50	0.05	0.57	0.14	0.23	6.55	15.4	4	0.10
462150		0.04	0.10	1.53	4.6	<0.2	10	110	0.22	0.06	1.17	0.15	11.45	9.9	38	0.43
462151		4.37	3.21	1.66	1.2	<0.2	<10	50	0.07	1.01	0.28	0.43	7.70	17.7	3	0.10
462152		4.62	0.52	1.84	0.6	<0.2	<10	50	0.08	0.56	1.94	2.38	4.10	12.0	4	0.05



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Page: 2 - B
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 29 - NOV - 2016
Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16202791

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
462113		163.5	3.36	5.17	<0.05	<0.02	0.02	0.049	0.12	2.0	10.6	1.24	1820	7.05	0.02
462114		389	4.52	5.08	<0.05	<0.02	0.13	0.459	0.12	5.9	10.6	1.15	2720	11.80	0.01
462115		483	3.15	5.87	<0.05	<0.02	0.01	0.035	0.11	6.8	12.8	1.36	2110	63.5	0.03
462116		1630	3.97	5.05	<0.05	<0.02	0.03	0.179	0.13	2.4	10.6	1.25	2110	0.83	0.02
462117		43.3	2.89	5.22	<0.05	0.03	0.02	0.131	0.10	3.0	11.4	1.33	1700	4.24	0.03
462118		370	6.42	6.01	0.05	<0.02	0.06	0.452	0.15	5.6	12.6	1.29	3310	1.85	0.01
462119		102.0	5.13	5.73	0.05	<0.02	0.03	0.257	0.13	4.4	11.0	1.15	2550	1.87	0.02
462120		106.0	5.14	6.16	0.05	<0.02	0.03	0.283	0.13	4.7	11.6	1.18	2550	1.75	0.02
462121		276	4.19	5.23	<0.05	<0.02	0.03	0.249	0.11	2.8	9.6	0.98	2410	43.0	0.02
462122		282	3.16	4.72	<0.05	<0.02	0.02	0.165	0.09	3.5	9.2	0.92	2460	58.1	0.01
462123		123.0	3.79	5.19	<0.05	<0.02	0.02	0.184	0.09	2.3	10.1	1.00	2300	13.15	0.02
462124		134.5	3.46	5.67	<0.05	<0.02	0.01	0.092	0.08	4.5	12.2	1.03	2720	4.24	0.03
462125		1815	3.94	5.34	0.05	<0.02	0.02	0.190	0.08	4.9	10.1	0.96	3700	4.02	0.04
462126		9410	4.72	6.30	<0.05	<0.02	0.03	0.484	0.13	4.0	13.3	1.08	2490	4.90	0.03
462127		3150	5.00	4.58	0.05	<0.02	0.01	0.193	0.15	4.5	10.4	0.99	2680	5.50	0.04
462128		366	3.60	5.29	<0.05	<0.02	0.02	0.244	0.12	2.5	9.6	1.12	3100	4.11	0.05
462129		110.0	2.99	4.82	<0.05	<0.02	0.01	0.137	0.13	1.6	9.2	1.11	2560	1.28	0.03
462130		883	5.71	5.98	0.06	0.03	0.02	0.022	0.70	4.0	4.2	5.62	487	89.5	0.10
462131		712	2.26	4.36	<0.05	0.05	<0.01	0.038	0.10	1.8	7.4	1.15	1050	2.90	0.03
462132		178.0	2.23	4.21	<0.05	0.06	<0.01	0.020	0.08	2.2	7.4	1.17	842	1.02	0.03
462133		5710	5.17	3.45	<0.05	0.03	0.01	0.074	0.15	1.9	6.4	0.91	610	0.61	0.02
462134		835	4.06	3.44	<0.05	0.03	0.01	0.034	0.15	4.5	5.5	0.76	803	0.63	0.03
462135		55.3	2.04	4.04	<0.05	0.07	0.01	0.011	0.08	2.5	6.6	1.04	753	1.70	0.04
462136		97.5	1.98	4.09	<0.05	0.07	<0.01	0.014	0.08	2.7	7.0	1.06	796	0.64	0.04
462137		59.1	2.40	4.44	<0.05	0.06	0.01	0.022	0.08	2.1	7.8	1.21	1160	0.52	0.04
462138		99.9	2.45	4.71	<0.05	0.05	0.01	0.023	0.09	2.3	8.1	1.18	1250	0.83	0.04
462139		153.5	3.45	5.93	<0.05	0.02	0.01	0.055	0.13	1.9	9.5	1.30	1340	7.35	0.02
462140		146.5	3.32	5.74	<0.05	0.02	<0.01	0.055	0.12	1.8	9.2	1.26	1270	6.87	0.02
462141		964	3.67	5.74	<0.05	0.02	0.01	0.049	0.12	1.7	9.5	1.27	1100	2.39	0.02
462142		106.0	2.39	4.48	<0.05	0.06	0.01	0.028	0.07	2.5	8.0	1.14	914	1.22	0.04
462143		42.9	2.46	4.23	<0.05	0.04	0.02	0.096	0.09	1.7	8.1	1.12	1220	0.74	0.03
462144		191.5	4.02	5.38	<0.05	<0.02	0.01	0.042	0.11	1.4	10.7	1.46	1620	0.93	0.03
462145		687	3.99	4.91	<0.05	<0.02	<0.01	0.050	0.12	2.1	9.4	1.21	1180	0.70	0.02
462146		919	3.50	4.89	<0.05	<0.02	0.02	0.129	0.13	1.5	9.9	1.17	1400	1.96	0.02
462147		64.6	2.41	4.23	<0.05	0.03	0.01	0.023	0.10	2.0	8.3	1.09	2130	0.72	0.03
462148		115.5	2.44	4.03	<0.05	0.02	0.01	0.031	0.13	2.0	9.1	1.10	2070	0.71	0.03
462149		4100	6.06	2.18	<0.05	<0.02	0.01	0.141	0.22	2.8	3.5	0.36	356	3.89	0.01
462150		49.5	3.03	5.74	0.07	0.29	0.02	0.020	0.10	5.3	9.1	0.76	505	5.74	0.09
462151		9480	5.69	6.50	<0.05	<0.02	0.01	0.412	0.23	3.3	10.7	1.19	1080	254	0.01
462152		899	3.54	5.85	<0.05	<0.02	0.02	0.141	0.13	1.7	10.9	1.19	2200	95.8	0.02



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Page: 2 - C
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 29 - NOV - 2016
Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16202791

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
462113		5.5	500	1.5	2.0	0.002	0.59	0.10	1.7	0.3	<0.2	45.7	<0.01	0.08	0.9
462114		5.5	510	1.8	2.0	0.003	1.05	0.06	1.9	0.3	<0.2	61.4	<0.01	0.20	1.0
462115		6.8	650	1.7	1.7	0.009	0.16	0.08	3.3	0.2	<0.2	69.1	<0.01	0.04	0.8
462116		6.0	590	1.0	2.1	0.001	0.99	0.06	1.6	0.3	<0.2	42.2	<0.01	0.58	0.5
462117		6.6	510	1.3	1.5	0.002	0.17	0.12	2.1	0.2	0.3	52.3	<0.01	0.03	0.9
462118		6.5	510	1.6	2.4	0.001	2.33	0.06	2.8	0.4	0.2	25.9	<0.01	0.49	0.9
462119		5.1	520	1.5	2.0	0.001	1.06	0.05	2.4	<0.2	0.2	18.8	<0.01	0.17	1.0
462120		5.3	530	1.4	2.1	<0.001	0.96	0.05	2.6	0.4	0.2	19.6	<0.01	0.16	1.0
462121		4.4	540	0.9	1.7	0.008	0.64	0.05	1.9	0.3	0.2	31.9	<0.01	0.19	0.7
462122		4.3	520	1.4	1.5	0.011	0.26	0.07	2.3	0.4	0.2	58.2	<0.01	0.14	0.7
462123		4.5	510	1.1	1.4	0.007	0.37	0.05	1.8	0.3	0.2	53.5	<0.01	0.18	0.6
462124		4.6	550	1.0	1.2	0.001	0.11	<0.05	2.9	0.4	<0.2	62.3	<0.01	0.05	0.8
462125		4.8	530	1.1	1.2	0.001	0.50	<0.05	3.0	0.2	0.3	66.0	<0.01	0.33	0.8
462126		5.5	500	1.1	1.9	0.001	2.17	0.07	2.2	0.2	0.5	29.2	<0.01	1.26	1.0
462127		5.4	500	0.9	2.0	0.002	2.75	<0.05	1.9	0.5	0.3	20.8	<0.01	0.68	0.8
462128		5.2	520	0.9	1.8	0.001	0.57	<0.05	2.6	0.3	<0.2	29.8	<0.01	0.37	0.6
462129		4.6	530	0.7	1.8	<0.001	0.26	<0.05	1.7	0.2	<0.2	40.1	<0.01	0.15	0.4
462130		669	740	4.6	26.8	0.094	3.93	0.71	7.9	3.8	0.4	51.5	<0.01	0.21	0.9
462131		5.0	510	0.4	1.3	<0.001	0.27	0.15	1.3	0.2	0.2	33.5	<0.01	1.30	0.7
462132		4.9	530	0.4	1.0	<0.001	0.10	0.16	1.3	<0.2	0.2	38.5	<0.01	0.07	0.9
462133		4.7	520	0.4	1.9	<0.001	4.09	0.14	1.0	0.5	0.7	18.8	<0.01	0.59	0.7
462134		4.5	510	0.9	1.8	<0.001	2.90	0.13	1.4	0.4	0.3	24.6	<0.01	0.15	1.0
462135		4.5	520	0.7	1.0	0.001	0.26	0.15	1.2	0.2	0.3	39.7	<0.01	0.03	0.7
462136		4.5	490	0.6	1.1	<0.001	0.09	0.20	1.3	0.3	0.2	46.8	<0.01	0.05	1.0
462137		5.0	500	0.5	1.1	<0.001	0.19	0.16	1.3	0.2	0.2	37.4	<0.01	0.08	0.7
462138		5.2	540	0.5	1.2	<0.001	0.16	0.16	1.4	0.2	<0.2	42.5	<0.01	0.06	0.7
462139		5.2	510	0.4	1.7	0.002	0.32	0.07	1.2	0.2	0.2	26.1	<0.01	0.08	0.9
462140		5.3	500	0.7	1.7	0.002	0.33	0.07	1.1	<0.2	<0.2	24.1	<0.01	0.08	0.9
462141		4.8	490	0.5	1.7	<0.001	0.96	0.08	1.0	<0.2	0.2	23.5	<0.01	0.20	0.7
462142		5.0	540	0.5	1.0	0.001	0.21	0.16	1.4	0.2	0.2	39.2	<0.01	0.08	0.7
462143		4.3	520	0.5	1.1	<0.001	0.18	0.14	1.3	<0.2	0.2	45.3	<0.01	0.05	0.5
462144		5.8	530	0.5	1.4	<0.001	0.69	0.08	1.2	<0.2	<0.2	29.4	<0.01	0.16	0.5
462145		4.7	540	0.5	1.5	<0.001	0.72	0.08	1.0	<0.2	0.2	26.7	<0.01	0.23	0.8
462146		4.8	520	0.6	1.7	0.001	0.74	0.08	1.2	0.2	0.2	25.4	<0.01	0.22	0.6
462147		4.5	510	0.7	1.3	<0.001	0.18	0.10	1.4	<0.2	<0.2	37.5	<0.01	0.06	0.7
462148		5.0	520	0.8	1.8	<0.001	0.24	0.09	1.3	<0.2	<0.2	36.2	<0.01	0.08	0.6
462149		5.2	560	1.1	3.3	0.001	6.46	<0.05	0.7	0.7	0.4	5.5	<0.01	0.54	1.0
462150		31.6	600	4.0	4.4	0.002	0.05	0.54	5.1	0.5	1.1	48.5	<0.01	0.02	1.3
462151		5.1	500	0.6	3.5	0.038	4.43	<0.05	1.1	0.8	0.6	6.8	<0.01	1.25	1.0
462152		5.8	460	0.6	2.0	0.014	0.90	0.05	1.6	0.2	<0.2	28.0	<0.01	0.53	0.8



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Page: 2 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 29 - NOV - 2016
 Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16202791

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
462113		<0.02	0.33	23	0.07	3.87	493	<0.5			0.006
462114		<0.02	0.75	22	0.12	6.87	2090	<0.5			0.016
462115		<0.02	0.45	30	0.09	7.51	359	<0.5			0.005
462116		<0.02	0.21	22	0.11	4.32	1300	<0.5	0.152		0.069
462117		<0.02	0.42	27	0.08	6.25	1360	<0.5			<0.005
462118		0.02	0.53	28	0.21	8.59	2430	<0.5			0.029
462119		<0.02	0.40	30	0.23	7.34	1460	<0.5			0.006
462120		<0.02	0.45	31	0.24	7.68	1520	<0.5			0.007
462121		<0.02	0.41	23	0.15	5.53	1300	<0.5			0.007
462122		<0.02	0.31	21	0.11	6.25	828	<0.5			<0.005
462123		<0.02	0.24	22	0.09	4.85	746	<0.5			<0.005
462124		<0.02	0.25	27	0.05	7.38	351	<0.5			<0.005
462125		<0.02	0.68	28	0.06	7.68	459	<0.5	0.176		0.037
462126		<0.02	1.64	20	0.08	6.15	648	<0.5	0.906		0.083
462127		0.02	0.89	16	0.10	6.17	410	<0.5	0.296		0.050
462128		<0.02	0.25	24	0.08	5.30	1320	<0.5			0.011
462129		<0.02	0.18	21	0.05	4.19	1120	<0.5			0.005
462130		0.55	0.29	75	9.83	4.70	64	1.2			0.009
462131		<0.02	0.35	20	<0.05	4.19	278	0.6			0.005
462132		<0.02	0.34	24	<0.05	3.91	190	0.6			<0.005
462133		<0.02	0.91	15	0.06	3.94	100	<0.5	0.546		0.028
462134		<0.02	1.00	18	<0.05	7.46	127	<0.5			0.005
462135		<0.02	0.58	22	<0.05	5.02	213	0.8			<0.005
462136		<0.02	1.92	22	<0.05	4.07	319	0.7			<0.005
462137		<0.02	0.38	23	<0.05	4.17	699	0.6			<0.005
462138		<0.02	0.23	24	<0.05	4.70	658	0.5			<0.005
462139		<0.02	0.24	21	<0.05	3.63	582	<0.5			<0.005
462140		<0.02	0.23	20	<0.05	3.51	574	<0.5			<0.005
462141		<0.02	0.27	19	<0.05	3.21	411	<0.5			0.006
462142		<0.02	0.28	25	<0.05	4.67	406	0.7			<0.005
462143		<0.02	0.15	22	<0.05	3.18	1400	0.5			<0.005
462144		<0.02	0.14	24	0.05	2.16	523	<0.5			<0.005
462145		<0.02	0.17	21	0.07	2.62	404	<0.5			0.005
462146		<0.02	0.17	17	0.07	2.66	847	<0.5			0.005
462147		<0.02	0.23	20	<0.05	3.33	655	<0.5			<0.005
462148		<0.02	0.20	16	<0.05	3.71	386	<0.5			<0.005
462149		0.02	1.23	7	0.09	4.79	128	<0.5	0.403		0.038
462150		0.06	0.37	65	0.46	8.23	46	9.5			<0.005
462151		0.02	1.60	13	0.27	4.56	232	<0.5	0.964	0.029	0.067
462152		<0.02	0.32	20	0.09	3.45	912	<0.5			0.012



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Page: 3 - A
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 29-NOV-2016
 Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16202791

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
462153		3.84	0.23	1.75	1.2	<0.2	<10	60	0.10	0.13	0.97	6.81	4.52	10.7	5	0.05
462154		3.52	0.39	1.68	1.1	<0.2	<10	60	0.08	0.33	0.39	4.02	4.58	11.5	5	0.05
462155		3.58	0.93	1.59	0.4	<0.2	<10	60	0.10	0.08	0.82	0.91	5.79	11.4	4	<0.05
462156		3.98	0.97	1.62	0.6	<0.2	<10	60	0.08	0.05	0.96	1.64	5.35	12.1	5	0.05
462157		4.08	0.38	1.45	0.4	<0.2	<10	60	0.09	0.05	0.70	0.18	5.71	10.6	6	0.07
462158		3.83	0.06	1.52	0.4	<0.2	<10	60	0.09	0.03	0.96	0.09	6.90	11.3	6	<0.05
462159		3.90	0.07	1.56	0.5	<0.2	<10	60	0.09	0.04	1.11	1.59	7.29	11.4	6	0.06
462160		<0.02	0.07	1.52	0.7	<0.2	<10	60	0.10	0.03	1.09	1.60	7.45	11.0	7	0.05
462161		3.54	0.06	1.66	0.4	<0.2	<10	60	0.11	0.03	1.07	0.13	9.06	12.0	7	<0.05
462162		3.19	0.08	1.60	0.2	<0.2	<10	60	0.11	0.03	0.87	0.02	7.87	11.9	7	<0.05
462163		4.80	11.00	0.93	2.1	<0.2	<10	50	0.06	1.11	0.37	2.06	4.90	36.2	4	0.09
462164		1.25	0.08	0.32	0.1	<0.2	<10	30	0.42	1.20	0.34	0.06	106.0	0.8	8	0.51
462165		4.57	4.77	0.83	2.3	<0.2	<10	50	0.05	0.66	0.14	0.56	6.00	27.3	4	0.09
462166		4.72	3.53	1.40	0.9	<0.2	<10	40	0.07	0.33	1.10	0.61	4.74	14.9	4	0.08
462167		4.54	2.37	1.57	0.7	<0.2	<10	50	0.08	0.39	1.71	0.72	3.83	14.8	4	0.08
462168		4.92	0.26	1.65	0.2	<0.2	<10	40	0.09	0.06	2.82	0.19	3.73	11.6	4	0.07
462169		4.55	3.80	1.52	0.6	<0.2	<10	40	0.07	0.36	1.23	1.46	4.37	27.5	4	0.11
462170		0.04	2.53	1.69	28.9	0.3	10	60	0.30	1.05	0.84	2.27	9.83	11.5	31	4.07
462171		5.04	2.17	0.69	2.4	<0.2	<10	40	<0.05	0.98	0.60	0.80	2.87	40.4	3	0.09
462172		4.09	5.39	1.31	2.2	<0.2	<10	40	0.05	0.82	0.87	2.01	3.79	69.8	5	0.09
462173		4.38	0.85	1.21	0.9	<0.2	<10	30	0.06	0.52	1.24	0.21	4.04	24.6	5	0.06
462174		4.52	0.99	1.58	0.6	<0.2	<10	30	0.07	0.20	1.83	0.57	3.56	18.2	5	0.06
462175		3.69	0.63	1.20	0.9	<0.2	<10	40	0.06	0.27	1.38	0.40	3.19	17.8	5	0.08
462176		3.73	1.61	1.56	0.7	<0.2	<10	40	0.07	0.20	1.43	0.44	3.12	21.9	6	0.07
462177		3.14	0.96	1.77	0.1	<0.2	<10	30	0.08	0.06	1.85	0.23	3.57	14.7	5	0.06
462178		3.43	1.04	1.62	0.3	<0.2	<10	30	0.08	0.11	1.72	0.17	2.90	12.9	5	0.07
462179		4.38	1.78	1.29	0.8	<0.2	<10	30	0.05	0.83	0.92	0.43	4.01	14.9	4	0.07
462180		<0.02	1.68	1.29	0.9	<0.2	<10	30	0.05	0.64	0.91	0.49	3.67	15.3	6	0.08
462181		4.39	0.52	1.54	0.5	<0.2	<10	30	0.08	0.14	1.33	0.22	4.84	12.6	5	0.06
462182		4.44	0.40	1.27	0.4	<0.2	<10	30	0.07	0.23	1.38	0.13	3.86	23.7	5	0.06
462183		4.55	1.51	0.92	1.3	<0.2	<10	30	<0.05	0.79	1.27	0.46	3.74	43.2	6	0.08
462184		4.14	0.36	1.06	0.5	<0.2	<10	40	0.06	0.28	1.12	0.15	4.50	20.7	6	0.12
462185		3.87	0.02	0.74	0.3	<0.2	<10	40	0.09	0.01	1.38	0.03	3.50	5.7	5	<0.05
462186		4.28	0.01	1.55	0.2	<0.2	<10	40	0.09	0.01	1.92	0.01	3.64	10.6	6	<0.05
462187		4.08	0.01	1.65	0.2	<0.2	<10	30	0.10	0.01	1.87	0.01	4.25	10.8	5	<0.05
462188		4.28	0.82	1.20	0.5	<0.2	<10	40	0.08	0.28	1.36	0.20	3.30	23.3	4	0.05
462189		4.08	0.01	1.52	0.3	<0.2	<10	30	0.09	0.01	1.98	0.09	4.13	10.6	5	<0.05
462190		0.04	0.87	1.50	5.3	0.3	<10	120	0.29	0.18	0.90	0.35	11.70	11.1	29	0.39
462191		3.98	0.02	1.64	0.3	<0.2	<10	30	0.11	0.01	1.57	0.06	4.21	13.0	5	<0.05
462192		3.90	0.11	1.60	0.3	<0.2	<10	30	0.10	0.03	1.22	0.11	4.12	11.4	4	0.05



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Page: 3 - B
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 29 - NOV - 2016
 Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16202791

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
462153		200	3.13	4.84	<0.05	<0.02	0.05	0.553	0.10	1.9	9.3	1.03	1560	1.80	0.03
462154		812	3.03	4.76	<0.05	<0.02	0.04	0.166	0.11	1.9	9.5	1.09	1370	1.07	0.02
462155		1440	2.47	4.56	<0.05	0.03	0.01	0.076	0.10	2.2	8.6	1.08	986	0.69	0.03
462156		1710	2.67	4.54	<0.05	0.03	0.01	0.127	0.10	2.1	8.7	1.14	1120	0.63	0.03
462157		626	2.22	4.21	<0.05	0.05	<0.01	0.025	0.10	2.3	7.8	1.03	718	3.69	0.03
462158		86.3	1.97	4.55	<0.05	0.07	<0.01	0.018	0.07	3.0	8.1	1.09	837	1.32	0.04
462159		111.5	2.12	4.60	<0.05	0.05	0.02	0.047	0.08	3.1	8.7	1.09	852	1.08	0.04
462160		104.5	2.08	4.54	<0.05	0.06	0.02	0.042	0.08	3.2	8.6	1.07	826	1.18	0.04
462161		88.5	2.26	5.11	<0.05	0.06	<0.01	0.024	0.08	3.9	9.6	1.13	827	1.27	0.04
462162		145.0	1.95	4.55	<0.05	0.08	<0.01	0.006	0.08	3.4	8.4	1.11	661	0.82	0.04
462163		>10000	6.25	3.09	<0.05	<0.02	0.04	0.961	0.20	1.9	4.5	0.51	620	390	0.01
462164		20.5	0.99	2.58	0.07	0.27	<0.01	0.023	0.18	59.6	6.8	0.09	257	2.33	0.06
462165		8170	5.55	3.15	<0.05	<0.02	0.02	0.343	0.21	2.6	4.1	0.43	397	4.76	0.01
462166		5840	4.03	4.37	<0.05	<0.02	0.01	0.149	0.17	1.9	8.9	0.95	1580	135.0	0.01
462167		4160	3.62	4.83	<0.05	<0.02	0.01	0.111	0.16	1.6	9.1	1.04	2110	435	0.02
462168		428	2.63	4.72	<0.05	<0.02	0.01	0.020	0.15	1.6	10.6	1.08	2820	6.29	0.02
462169		5800	4.80	4.83	<0.05	<0.02	0.01	0.202	0.20	1.8	9.4	0.93	1920	18.50	0.01
462170		2470	4.53	5.22	<0.05	0.03	0.05	0.139	0.29	5.4	15.8	0.57	767	200	0.05
462171		3010	12.85	1.98	<0.05	<0.02	0.01	0.177	0.20	1.1	3.2	0.29	718	5.11	0.01
462172		8370	10.35	4.18	<0.05	<0.02	0.03	0.392	0.18	1.6	7.7	0.75	1460	2.22	0.01
462173		1090	6.79	3.32	<0.05	<0.02	0.01	0.040	0.13	1.7	7.9	0.76	1220	3.26	0.02
462174		1670	5.11	4.65	<0.05	<0.02	0.02	0.042	0.12	1.5	11.3	1.09	1880	0.87	0.02
462175		891	5.09	3.39	<0.05	<0.02	0.01	0.034	0.15	1.3	8.5	0.75	1440	0.97	0.02
462176		3240	6.64	4.92	<0.05	<0.02	0.01	0.063	0.13	1.3	10.4	1.03	1400	1.13	0.02
462177		1790	3.29	5.42	<0.05	<0.02	0.01	0.029	0.10	1.5	11.9	1.24	1750	0.66	0.02
462178		2170	3.53	4.75	<0.05	<0.02	0.01	0.055	0.12	1.2	11.7	1.14	1570	0.85	0.02
462179		3640	5.87	3.96	<0.05	<0.02	0.01	0.155	0.14	1.6	10.9	0.94	1080	3.61	0.01
462180		3690	5.90	3.87	<0.05	<0.02	0.01	0.164	0.14	1.5	10.9	0.94	1080	3.92	0.01
462181		1170	3.72	4.44	<0.05	<0.02	<0.01	0.028	0.11	2.1	11.5	1.10	1260	0.83	0.02
462182		794	4.88	3.75	<0.05	<0.02	<0.01	0.011	0.11	1.6	9.9	0.88	1220	0.78	0.02
462183		3150	8.87	2.64	<0.05	<0.02	0.01	0.144	0.15	1.5	7.5	0.61	860	1.18	0.01
462184		860	4.49	3.11	<0.05	<0.02	0.01	0.025	0.12	1.9	8.8	0.76	951	0.67	0.02
462185		9.1	1.04	1.89	0.05	<0.02	<0.01	<0.005	0.07	1.5	5.1	0.48	447	1.32	0.03
462186		6.3	2.18	3.82	0.05	<0.02	<0.01	<0.005	0.06	1.5	11.3	1.14	688	0.55	0.03
462187		13.1	2.31	4.15	0.06	<0.02	<0.01	<0.005	0.05	1.8	12.2	1.22	733	0.43	0.03
462188		2390	4.88	3.33	0.06	<0.02	0.01	0.044	0.11	1.3	8.9	0.84	848	0.97	0.02
462189		13.9	2.22	4.07	0.06	<0.02	<0.01	0.011	0.06	1.7	11.0	1.10	852	0.47	0.03
462190		3100	3.13	5.38	0.11	0.21	0.03	0.043	0.20	6.0	10.4	0.74	460	220	0.08
462191		25.6	2.37	4.56	0.06	<0.02	<0.01	<0.005	0.04	1.8	12.5	1.23	755	0.65	0.03
462192		224	2.67	4.20	0.06	<0.02	<0.01	0.017	0.08	1.8	12.2	1.09	1200	0.57	0.02



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Page: 3 - C
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 29 - NOV - 2016
Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16202791

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
462153		4.7	440	0.8	1.6	<0.001	0.73	0.09	1.3	<0.2	<0.2	31.6	<0.01	0.24	0.6
462154		4.8	450	1.0	1.8	<0.001	0.77	0.07	1.3	<0.2	<0.2	22.6	<0.01	0.45	0.7
462155		4.7	470	1.1	1.6	<0.001	0.45	0.16	1.4	<0.2	0.2	32.9	<0.01	0.19	0.7
462156		5.4	470	0.5	1.8	<0.001	0.62	0.11	1.3	0.2	0.2	31.0	<0.01	0.16	0.7
462157		5.4	440	0.4	1.7	0.001	0.51	0.15	1.3	<0.2	0.2	32.6	<0.01	0.10	0.7
462158		5.7	440	0.6	1.3	<0.001	0.07	0.14	1.6	<0.2	0.2	43.1	<0.01	0.03	0.7
462159		5.4	450	0.5	1.5	<0.001	0.12	0.13	1.8	<0.2	0.2	49.0	<0.01	0.04	0.6
462160		5.3	450	0.5	1.5	<0.001	0.13	0.13	1.7	<0.2	0.2	49.0	<0.01	0.03	0.6
462161		5.9	480	0.6	1.5	<0.001	0.09	0.15	2.2	0.2	0.2	57.2	<0.01	0.02	0.7
462162		5.4	560	0.6	1.5	<0.001	0.01	0.18	1.8	<0.2	0.2	47.5	<0.01	0.01	0.6
462163		4.8	480	0.6	3.3	0.067	6.31	0.05	0.9	2.6	1.3	7.5	<0.01	1.64	0.6
462164		0.8	120	7.9	10.3	<0.001	0.01	<0.05	0.9	0.4	0.6	13.5	<0.01	0.01	28.9
462165		5.2	490	0.3	3.6	0.001	5.37	<0.05	0.8	1.6	0.6	4.0	<0.01	0.55	0.8
462166		4.6	480	0.5	3.0	0.014	2.69	<0.05	1.2	0.8	0.3	17.0	<0.01	0.38	0.7
462167		4.7	490	0.7	2.8	0.068	1.77	0.05	1.3	0.4	0.2	25.3	<0.01	0.53	0.8
462168		5.3	510	0.5	2.7	0.002	0.32	<0.05	1.6	<0.2	<0.2	32.5	<0.01	0.03	0.8
462169		5.6	510	0.4	3.5	0.003	3.18	<0.05	1.3	0.8	0.4	15.7	<0.01	0.35	0.6
462170		20.7	740	71.2	14.3	0.212	2.19	1.50	2.7	4.0	0.7	55.1	<0.01	0.65	3.6
462171		5.3	530	0.7	3.4	0.002	>10.0	<0.05	0.8	2.9	0.2	9.6	<0.01	1.14	0.6
462172		6.2	420	0.6	3.2	0.001	>10.0	<0.05	1.2	3.5	0.4	13.3	<0.01	0.87	0.6
462173		5.6	530	0.4	2.2	0.001	6.12	<0.05	1.0	1.2	<0.2	20.0	<0.01	0.51	0.7
462174		5.6	550	0.4	2.1	<0.001	3.30	<0.05	1.3	0.5	<0.2	25.2	<0.01	0.20	0.8
462175		6.0	550	0.4	2.6	<0.001	3.93	<0.05	1.1	0.6	<0.2	20.1	<0.01	0.23	0.9
462176		5.7	500	0.5	2.4	<0.001	4.93	<0.05	1.3	1.0	0.2	23.6	<0.01	0.28	0.7
462177		5.6	500	0.4	1.7	<0.001	0.72	<0.05	1.3	<0.2	<0.2	31.1	<0.01	0.07	0.8
462178		5.6	530	0.3	2.0	<0.001	1.45	<0.05	1.2	0.2	<0.2	24.6	<0.01	0.11	0.8
462179		5.8	550	0.3	2.3	0.001	4.87	<0.05	1.0	0.8	0.2	15.6	<0.01	0.93	0.9
462180		5.8	550	0.3	2.3	0.001	4.90	<0.05	1.0	0.8	0.2	15.5	<0.01	0.87	0.8
462181		5.7	550	0.3	1.8	<0.001	1.83	0.05	1.3	<0.2	<0.2	26.3	<0.01	0.16	1.0
462182		5.5	490	0.3	1.8	<0.001	3.59	<0.05	1.1	0.9	<0.2	22.8	<0.01	0.35	1.3
462183		5.6	620	0.4	2.4	<0.001	9.53	<0.05	0.9	2.4	0.2	19.0	<0.01	0.99	0.8
462184		4.6	370	0.3	2.0	<0.001	3.60	0.05	0.9	0.8	<0.2	19.1	<0.01	0.31	1.2
462185		5.7	300	2.9	1.2	0.001	0.02	0.10	0.5	<0.2	<0.2	30.6	<0.01	0.01	1.4
462186		5.1	470	0.5	0.9	<0.001	<0.01	0.10	1.4	<0.2	<0.2	45.3	<0.01	0.01	1.1
462187		4.8	550	0.5	0.9	<0.001	<0.01	0.12	1.4	<0.2	<0.2	48.1	<0.01	0.01	0.8
462188		5.3	530	0.4	1.8	<0.001	3.71	0.08	1.1	0.8	<0.2	28.1	<0.01	0.44	0.6
462189		4.5	580	0.5	1.0	<0.001	0.04	0.11	1.6	0.2	<0.2	50.7	<0.01	0.02	0.6
462190		23.5	670	8.5	9.2	0.206	0.44	2.20	5.4	1.3	1.0	43.4	<0.01	0.10	1.7
462191		4.9	530	0.4	0.7	<0.001	0.02	0.11	1.5	<0.2	<0.2	44.5	<0.01	0.01	0.8
462192		4.6	510	0.4	1.4	<0.001	0.34	0.09	1.2	<0.2	<0.2	33.5	<0.01	0.07	1.3



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Page: 3 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 29 - NOV - 2016
 Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16202791

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
462153		<0.02	0.13	19	0.05	3.18	2920	<0.5			0.006
462154		<0.02	0.21	19	<0.05	3.21	1980	<0.5			0.013
462155		<0.02	0.52	20	<0.05	4.51	500	<0.5			0.019
462156		<0.02	0.37	19	<0.05	4.14	620	<0.5	0.173		0.021
462157		<0.02	0.29	18	<0.05	4.36	179	0.5			<0.005
462158		<0.02	0.28	22	<0.05	5.50	233	0.7			<0.005
462159		<0.02	0.31	22	<0.05	6.30	578	0.6			<0.005
462160		<0.02	0.32	22	<0.05	6.01	568	0.6			<0.005
462161		<0.02	0.30	25	<0.05	7.42	243	0.7			<0.005
462162		<0.02	0.33	25	<0.05	6.42	109	0.8			<0.005
462163		0.02	1.21	9	0.26	3.10	663	<0.5	1.920	0.048	0.134
462164		0.06	3.88	9	0.23	15.25	24	6.4			<0.005
462165		0.02	1.96	8	0.30	3.48	246	<0.5	0.782		0.054
462166		<0.02	1.46	15	0.19	3.42	327	<0.5	0.575		0.045
462167		<0.02	0.57	17	0.15	2.94	464	<0.5	0.417	0.049	0.024
462168		<0.02	0.22	18	0.08	3.15	443	<0.5			<0.005
462169		0.02	0.49	13	0.16	2.87	700	<0.5	0.586		0.062
462170		0.29	0.76	32	1.62	5.46	445	1.0	0.251	0.029	0.308
462171		0.02	0.90	7	0.24	1.86	310	<0.5	0.295		0.045
462172		0.02	0.66	12	0.15	2.21	698	<0.5	0.840		0.118
462173		<0.02	0.41	14	0.08	2.70	185	<0.5			0.026
462174		<0.02	0.32	18	0.07	2.45	385	<0.5	0.165		0.022
462175		<0.02	0.55	13	0.09	2.58	268	<0.5			0.015
462176		<0.02	0.39	18	0.07	2.00	219	<0.5	0.313		0.029
462177		<0.02	0.15	20	0.05	2.11	235	<0.5	0.180		0.020
462178		<0.02	0.25	17	0.07	1.92	211	<0.5	0.215		0.019
462179		<0.02	0.61	12	0.11	2.63	269	<0.5	0.363		0.044
462180		<0.02	0.63	13	0.11	2.60	277	<0.5	0.358		0.048
462181		<0.02	0.28	20	0.06	3.02	217	<0.5			0.011
462182		<0.02	0.33	16	0.06	2.60	152	<0.5			0.011
462183		<0.02	5.29	11	0.13	2.63	198	<0.5	0.307		0.046
462184		<0.02	0.25	12	0.12	2.50	155	<0.5			0.020
462185		<0.02	0.15	7	<0.05	1.94	35	<0.5			<0.005
462186		<0.02	0.15	20	<0.05	2.34	53	<0.5			<0.005
462187		<0.02	0.16	24	<0.05	2.79	69	<0.5			<0.005
462188		<0.02	0.23	16	<0.05	2.48	85	<0.5	0.236		0.031
462189		<0.02	0.15	22	<0.05	2.98	166	<0.5			<0.005
462190		0.09	0.34	62	12.95	7.43	57	6.2	0.319	0.030	0.282
462191		<0.02	0.16	27	<0.05	3.04	95	<0.5			<0.005
462192		<0.02	0.16	19	<0.05	2.60	284	<0.5			<0.005



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Page: 4 - A
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 29 - NOV - 2016
 Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16202791

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
462193		4.01	1.50	1.35	1.0	<0.2	<10	30	0.06	1.48	1.04	0.37	3.95	25.3	5	0.06
462194		3.83	0.86	0.91	0.7	<0.2	<10	30	0.05	0.90	0.56	0.17	4.67	31.2	5	0.06
462195		4.38	0.03	1.55	0.3	<0.2	<10	30	0.11	0.02	1.56	0.09	4.71	9.8	5	<0.05
462196		4.13	0.33	1.74	0.6	<0.2	<10	30	0.09	0.17	1.86	0.38	4.22	12.0	5	0.05
462197		3.69	2.43	1.65	1.0	<0.2	<10	30	0.06	0.49	1.68	0.82	4.92	13.9	5	0.05
462198		4.59	0.24	2.02	3.7	<0.2	<10	30	0.10	0.22	1.80	2.22	3.89	11.7	5	0.05
462199		3.94	0.62	1.70	0.4	<0.2	<10	30	0.06	0.27	1.72	0.90	3.96	13.9	6	0.05
462200		<0.02	0.53	1.67	0.5	<0.2	<10	30	0.07	0.22	1.70	1.00	4.12	14.0	6	0.05
462201		3.35	2.82	1.32	0.7	<0.2	<10	30	0.05	1.13	0.87	0.30	5.07	16.4	11	<0.05
462202		4.07	0.03	1.60	0.3	<0.2	<10	20	0.08	0.05	1.79	0.05	3.77	13.8	5	<0.05
462203		3.91	0.10	1.46	0.3	<0.2	<10	30	0.06	0.10	2.01	0.13	3.95	10.4	6	<0.05
462204		3.79	1.34	1.52	0.6	<0.2	<10	40	0.08	0.52	1.46	0.45	3.84	12.3	5	0.05
462205		4.18	0.20	1.66	0.5	<0.2	<10	40	0.08	0.14	1.40	1.45	4.16	8.3	5	<0.05
462206		3.89	0.12	1.53	1.6	<0.2	<10	40	0.09	0.74	0.89	4.09	4.18	9.6	6	<0.05
462207		4.52	0.08	1.46	0.3	<0.2	<10	40	0.09	0.13	1.01	0.87	4.12	9.8	6	<0.05
462208		5.01	3.54	1.07	0.9	<0.2	<10	50	0.07	0.72	1.41	1.24	3.52	28.3	4	0.05
462209		4.27	0.01	1.46	0.2	<0.2	<10	50	0.08	0.06	2.44	0.20	3.61	6.8	4	<0.05
462210		0.04	2.61	1.70	29.5	0.3	10	60	0.37	0.96	0.85	2.25	9.83	11.5	30	3.87
462211		4.62	3.13	0.98	0.8	<0.2	<10	50	0.06	0.88	1.08	1.38	4.97	11.4	5	0.05
462212		4.27	2.40	1.29	0.5	<0.2	<10	40	0.07	0.65	0.87	0.80	4.39	10.5	4	0.05



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Page: 4 - B
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 29 - NOV - 2016
Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16202791

Sample Description	Method Analyte Units LOR	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01	ME-MS41 Nb ppm 0.05
462193		4680	4.96	3.77	0.07	<0.02	0.03	0.362	0.12	1.6	12.0	0.90	1520	0.59	0.01	<0.05
462194		1890	6.09	2.51	0.07	<0.02	0.02	0.148	0.14	1.9	7.3	0.56	681	0.97	0.01	<0.05
462195		37.9	2.22	4.35	0.06	<0.02	<0.01	0.007	0.06	2.0	12.6	1.05	944	0.49	0.03	<0.05
462196		706	3.32	5.17	0.06	<0.02	0.01	0.092	0.09	1.7	13.6	1.11	2160	1.00	0.02	<0.05
462197		6590	4.40	5.55	0.06	<0.02	0.05	0.840	0.10	2.0	12.4	1.01	2100	0.84	0.02	<0.05
462198		506	4.14	6.20	0.07	<0.02	0.08	0.254	0.10	1.5	15.4	1.25	2610	0.62	0.02	<0.05
462199		1290	4.15	5.31	0.06	<0.02	0.04	0.203	0.10	1.6	13.1	1.10	2180	0.68	0.02	<0.05
462200		1370	4.05	5.24	0.06	<0.02	0.04	0.220	0.10	1.6	12.8	1.07	2140	0.72	0.02	<0.05
462201		2300	5.89	3.87	0.07	<0.02	0.01	0.082	0.08	2.1	10.5	0.90	1220	1.69	0.02	<0.05
462202		55.7	2.42	4.15	0.05	<0.02	<0.01	0.006	0.05	1.6	12.1	1.21	1540	0.67	0.03	<0.05
462203		396	2.32	4.08	0.06	<0.02	0.01	0.020	0.06	1.7	10.7	1.04	1620	0.56	0.02	<0.05
462204		2590	3.41	4.38	0.06	<0.02	0.02	0.151	0.10	1.5	10.4	0.99	1590	0.72	0.02	<0.05
462205		333	2.77	4.58	0.06	<0.02	0.04	0.045	0.07	1.7	11.3	1.16	1540	0.57	0.02	<0.05
462206		237	2.99	4.12	0.06	<0.02	0.06	0.334	0.07	1.6	9.9	1.01	1410	0.86	0.02	<0.05
462207		174.0	2.51	4.14	0.06	<0.02	0.02	0.050	0.07	1.6	10.5	0.97	1340	0.56	0.02	<0.05
462208		9930	8.10	3.15	0.07	<0.02	0.05	0.338	0.11	1.4	6.6	0.68	1100	1.39	0.02	<0.05
462209		21.1	2.26	4.11	0.05	<0.02	<0.01	0.019	0.08	1.4	9.0	1.04	1840	26.1	0.03	<0.05
462210		2500	4.58	4.90	0.08	0.03	0.05	0.135	0.29	5.0	17.4	0.57	766	213	0.05	0.26
462211		5200	4.24	2.94	0.06	<0.02	0.04	0.284	0.12	2.0	5.9	0.64	1310	28.9	0.02	<0.05
462212		3570	3.47	3.73	0.06	<0.02	0.02	0.222	0.11	1.7	7.8	0.82	1280	0.71	0.02	<0.05



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Page: 4 - C
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 29 - NOV - 2016
 Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16202791

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
462193		5.3	600	0.4	2.0	<0.001	3.56	0.07	1.2	0.5	0.3	18.7	<0.01	1.58	0.9
462194		4.9	510	0.3	2.1	<0.001	5.90	0.07	0.7	1.1	<0.2	12.1	<0.01	1.23	0.7
462195		5.4	540	0.6	1.0	<0.001	0.01	0.11	1.5	<0.2	<0.2	47.9	<0.01	0.01	0.8
462196		5.0	490	0.5	1.5	<0.001	0.64	0.08	1.7	0.2	<0.2	39.2	<0.01	0.16	0.7
462197		4.9	530	0.5	1.7	<0.001	1.93	0.06	1.6	0.4	0.3	29.6	<0.01	0.47	1.1
462198		5.2	510	0.5	1.5	<0.001	0.87	0.07	1.7	0.2	<0.2	37.5	<0.01	0.21	0.5
462199		5.9	520	0.5	1.5	<0.001	1.62	0.07	1.5	0.3	<0.2	37.8	<0.01	0.32	0.5
462200		5.9	510	0.5	1.6	<0.001	1.61	0.07	1.5	0.3	<0.2	38.2	<0.01	0.26	0.5
462201		6.9	430	0.9	1.2	<0.001	4.33	0.07	1.1	0.9	<0.2	26.2	<0.01	1.78	0.5
462202		5.3	530	0.7	0.8	<0.001	0.22	0.11	1.4	0.2	<0.2	50.8	<0.01	0.06	0.5
462203		4.5	480	0.6	1.0	<0.001	0.17	0.08	1.3	0.2	<0.2	50.4	<0.01	0.10	0.5
462204		4.5	560	0.5	1.5	<0.001	1.19	0.08	1.2	0.3	<0.2	36.1	<0.01	0.63	0.6
462205		4.7	510	0.6	1.1	<0.001	0.30	0.09	1.3	0.2	<0.2	40.2	<0.01	0.12	0.5
462206		4.4	490	0.6	1.1	<0.001	0.82	0.10	1.1	<0.2	<0.2	28.7	<0.01	0.75	0.3
462207		4.6	470	0.6	1.1	<0.001	0.32	0.10	1.3	<0.2	<0.2	31.6	<0.01	0.11	0.2
462208		5.0	430	0.7	1.7	<0.001	8.08	0.10	1.0	2.7	0.6	30.7	<0.01	1.66	0.2
462209		3.7	500	0.7	1.3	0.001	0.11	0.07	1.4	0.2	<0.2	46.2	<0.01	0.05	0.2
462210		21.5	740	76.2	14.8	0.212	2.21	1.57	2.7	4.1	0.7	56.9	<0.01	0.71	3.6
462211		4.0	440	0.6	1.9	0.001	3.32	0.07	0.9	0.4	0.3	19.1	<0.01	1.64	0.3
462212		4.0	500	0.5	1.7	<0.001	1.74	0.10	1.0	0.3	0.3	22.3	<0.01	0.85	0.3



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Page: 4 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 29 - NOV - 2016
 Account: GIBMIN

Project: SGM2016 - 16

CERTIFICATE OF ANALYSIS KL16202791

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
462193		<0.02	1.01	14	0.20	3.00	338	<0.5	0.476		0.047
462194		<0.02	0.44	9	0.09	2.54	133	<0.5	0.191		0.056
462195		<0.02	0.12	21	<0.05	3.21	178	<0.5			<0.005
462196		<0.02	0.13	21	<0.05	3.16	387	<0.5			0.018
462197		<0.02	0.33	16	0.06	4.11	386	<0.5	0.656		0.084
462198		<0.02	0.14	23	<0.05	3.22	1200	<0.5			0.014
462199		<0.02	0.27	19	<0.05	3.20	650	<0.5			0.013
462200		<0.02	0.25	18	<0.05	3.18	664	<0.5			0.016
462201		<0.02	0.26	13	0.06	3.32	312	<0.5	0.233		0.056
462202		<0.02	0.10	24	<0.05	2.71	175	<0.5			<0.005
462203		<0.02	0.32	18	<0.05	2.76	220	<0.5			<0.005
462204		<0.02	0.33	16	0.06	2.81	363	<0.5	0.264		0.018
462205		<0.02	0.18	19	<0.05	2.90	867	<0.5			<0.005
462206		<0.02	0.10	18	0.05	2.92	2050	<0.5			<0.005
462207		<0.02	0.07	18	<0.05	3.43	655	<0.5			<0.005
462208		<0.02	0.50	12	0.06	2.50	419	<0.5	0.939		0.082
462209		<0.02	0.08	17	<0.05	2.89	393	<0.5			<0.005
462210		0.27	0.74	33	2.86	5.17	451	0.9	0.254	0.029	0.300
462211		<0.02	0.57	10	0.14	3.09	696	<0.5	0.534		0.046
462212		<0.02	1.30	12	0.05	4.07	513	<0.5	0.364		0.028



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 29 - NOV - 2016
Account: GIBMIN

Project: SGM2016 - 16

CERTIFICATE OF ANALYSIS KL16202791

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.

CRU - 31	CRU - QC	LOG - 21d	LOG - 22
LOG - 23	PUL - 31	PUL - 31d	PUL - QC
SPL - 21	SPL - 21d	WEI - 21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au - AA23	Cu - OG46	ME - MS41	ME - OG46
Mo - OG46			



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Page: 1
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 29 - NOV - 2016
This copy reported on
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CERTIFICATE KL16202793

Project: SGM2016-16

P.O. No.: SO218733

This report is for 95 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 21-NOV-2016.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Mo-OG46	Ore Grade Mo - Aqua Regia	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **GIBRALTAR MINES LTD.**
ATTN: ALS MINERALS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 29 - NOV - 2016
Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16202793

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
462213		4.61	2.32	1.19	1.0	<0.2	<10	40	0.07	1.11	0.44	0.44	4.48	20.5	7	0.05
462214		4.44	7.00	1.07	0.6	<0.2	<10	50	0.06	1.08	0.88	1.62	5.08	9.3	7	0.05
462215		4.20	0.77	1.29	0.3	<0.2	<10	50	0.09	0.27	1.22	1.23	6.68	10.2	11	<0.05
462216		4.12	0.03	1.22	0.2	<0.2	<10	50	0.07	0.02	1.35	0.04	6.71	9.8	14	<0.05
462217		4.26	0.08	1.15	0.2	<0.2	<10	60	0.08	0.05	1.47	0.69	6.23	8.2	10	0.05
462218		4.59	1.83	0.73	0.5	<0.2	<10	60	0.07	0.73	0.73	1.16	7.21	7.3	9	0.06
462219		4.28	0.96	0.97	0.6	<0.2	<10	50	0.07	0.68	0.88	1.99	5.09	8.3	9	0.05
462220		<0.02	1.12	0.98	0.7	<0.2	<10	50	0.08	0.72	0.87	2.05	4.93	9.0	10	0.06
462221		4.36	1.89	1.01	0.6	<0.2	<10	40	0.07	0.74	0.69	0.70	5.79	12.6	8	0.05
462222		4.23	3.96	0.53	0.9	<0.2	<10	50	0.07	1.51	0.32	1.72	6.16	7.8	14	0.05
462223		3.50	0.44	0.86	0.3	<0.2	<10	50	0.06	1.22	0.83	0.50	7.50	6.8	12	<0.05
462224		3.93	0.36	1.02	0.7	<0.2	<10	50	0.06	0.14	0.97	1.87	7.05	7.1	14	<0.05
462225		3.60	0.58	0.89	0.4	<0.2	<10	50	0.08	0.18	1.01	1.71	7.05	7.7	12	<0.05
462226		4.25	1.90	0.46	0.8	<0.2	<10	20	0.05	1.11	0.46	0.38	4.98	12.3	9	0.05
462227		3.80	0.01	0.96	0.1	<0.2	<10	60	0.07	0.01	1.75	0.23	9.86	6.7	8	<0.05
462228		4.11	0.03	0.93	0.2	<0.2	<10	60	0.08	0.09	1.73	0.15	10.70	6.7	8	0.05
462229		4.01	0.01	0.89	0.1	<0.2	<10	50	0.07	0.02	2.08	0.06	4.99	6.1	9	<0.05
462230		0.04	1.49	2.13	14.9	1.0	20	80	0.34	0.46	1.18	0.19	9.61	52.9	277	1.33
462231		4.42	1.23	0.92	0.1	<0.2	<10	80	0.06	0.18	1.95	0.40	7.32	7.0	7	0.06
462232		4.06	0.94	1.03	0.2	<0.2	<10	70	0.07	0.10	1.46	1.36	5.03	8.1	8	<0.05
462233		4.78	0.79	0.96	0.4	<0.2	<10	70	0.08	0.28	1.06	1.22	3.14	6.5	9	0.06
462234		3.89	0.01	0.94	0.2	<0.2	<10	70	0.07	0.01	1.41	0.02	4.17	6.1	12	<0.05
462235		3.96	0.03	1.06	0.1	<0.2	<10	70	0.07	0.02	1.09	2.02	5.67	7.0	12	<0.05
462236		4.36	0.13	1.34	0.6	<0.2	<10	60	0.07	0.35	0.47	1.58	4.67	7.0	8	0.06
462237		4.16	0.66	1.03	0.3	<0.2	<10	40	0.08	0.54	0.69	3.14	7.27	6.9	9	<0.05
462238		4.24	0.71	1.08	0.3	<0.2	<10	50	0.07	0.22	0.88	0.40	7.51	7.4	7	0.08
462239		3.48	0.05	1.00	0.4	<0.2	<10	60	0.08	0.27	1.58	0.71	10.75	4.6	7	0.44
462240		<0.02	0.06	0.99	0.3	<0.2	<10	60	0.09	0.29	1.56	0.70	11.00	4.9	7	0.44
462241		3.22	1.48	0.88	0.3	<0.2	<10	70	0.09	0.47	2.40	1.83	18.30	5.0	5	0.44
462242		3.77	1.69	0.91	1.0	<0.2	<10	60	0.09	0.82	1.62	2.25	12.85	7.1	6	0.36
462243		3.95	0.07	1.35	0.7	<0.2	<10	80	0.09	0.16	0.51	5.13	4.37	7.1	5	0.08
462244		4.18	0.03	1.24	0.2	<0.2	<10	60	0.09	0.21	0.86	6.19	4.98	4.1	6	0.08
462245		4.38	0.10	1.46	0.8	<0.2	<10	70	0.07	0.31	0.44	11.40	4.52	6.2	7	0.08
462246		4.42	0.79	1.69	1.1	<0.2	<10	100	0.07	1.17	0.24	13.70	8.23	5.5	6	0.06
462247		4.63	0.28	1.41	0.7	<0.2	<10	80	0.06	0.44	0.21	28.1	8.59	5.8	5	0.06
462248		4.20	0.25	1.35	1.2	<0.2	<10	90	0.06	0.19	0.89	24.1	3.85	5.9	6	0.07
462249		4.25	0.44	1.15	2.6	<0.2	<10	100	0.06	0.25	1.01	24.0	3.41	6.1	5	0.07
462250		0.04	2.78	1.66	27.7	0.6	10	60	0.33	0.92	0.83	2.13	9.45	11.0	30	3.74
462251		3.97	0.05	0.96	<0.1	<0.2	<10	150	0.09	0.06	1.95	1.58	3.32	1.9	5	0.07
462252		4.14	0.04	0.81	0.1	<0.2	<10	170	0.08	0.05	1.96	1.13	4.80	3.2	5	<0.05



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Page: 2 - B
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 29 - NOV - 2016
Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16202793

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
462213		3570	5.34	3.39	0.06	<0.02	0.01	0.201	0.14	1.8	7.3	0.74	1010	1.27	0.01
462214		>10000	3.70	3.13	0.06	<0.02	0.03	0.393	0.12	1.9	5.9	0.69	1270	0.80	0.01
462215		1230	2.40	4.21	0.06	<0.02	0.01	0.078	0.09	2.4	7.8	0.88	1230	0.97	0.03
462216		31.9	1.94	3.94	0.06	0.02	<0.01	<0.005	0.07	2.5	7.6	0.86	867	1.13	0.03
462217		114.5	1.86	3.48	0.05	<0.02	<0.01	0.030	0.09	2.2	7.0	0.78	1240	0.81	0.03
462218		4570	2.89	2.01	0.06	<0.02	0.02	0.166	0.14	3.1	3.4	0.40	767	1.15	0.02
462219		2630	2.72	2.77	0.05	<0.02	0.02	0.273	0.13	2.2	5.1	0.57	1120	0.83	0.02
462220		2760	2.81	2.93	0.06	<0.02	0.02	0.308	0.13	2.1	5.1	0.57	1120	0.99	0.02
462221		5520	4.23	3.03	0.06	<0.02	0.01	0.380	0.13	2.5	5.4	0.61	1060	1.18	0.02
462222		>10000	4.28	1.69	0.06	<0.02	0.04	0.787	0.16	2.5	2.1	0.22	385	1.32	0.01
462223		2330	1.99	2.68	0.06	<0.02	0.01	0.110	0.12	2.9	5.2	0.54	1040	1.06	0.02
462224		1330	2.01	3.03	0.06	<0.02	0.01	0.112	0.09	2.6	6.3	0.67	1190	1.32	0.03
462225		2110	1.90	2.63	0.06	<0.02	0.01	0.119	0.11	2.6	5.3	0.56	1200	1.13	0.03
462226		5520	7.52	1.31	0.07	<0.02	0.01	0.146	0.17	2.0	2.1	0.20	482	1.38	0.01
462227		7.5	1.61	3.03	0.06	<0.02	<0.01	0.008	0.09	4.4	5.9	0.65	974	0.78	0.03
462228		33.0	1.69	2.92	0.06	<0.02	<0.01	0.018	0.10	4.3	5.6	0.62	1220	1.81	0.02
462229		12.6	1.54	2.84	0.05	<0.02	<0.01	0.007	0.10	2.0	5.0	0.58	1150	0.59	0.03
462230		846	5.64	6.13	0.11	0.04	0.02	0.023	0.70	4.3	4.1	5.58	481	94.2	0.10
462231		2720	2.06	2.70	0.05	<0.02	0.01	0.128	0.13	2.9	4.8	0.57	1220	0.76	0.02
462232		1490	2.18	3.14	0.05	<0.02	0.02	0.108	0.11	1.9	5.5	0.67	978	0.71	0.02
462233		1870	2.45	2.73	0.05	<0.02	0.02	0.214	0.15	1.2	4.8	0.59	1120	1.47	0.02
462234		7.0	1.48	2.91	0.06	<0.02	<0.01	<0.005	0.09	1.4	4.9	0.61	648	1.21	0.03
462235		38.5	1.74	3.24	0.06	0.02	0.01	0.093	0.10	1.8	5.3	0.65	939	1.07	0.03
462236		249	2.95	3.91	0.06	<0.02	0.01	0.165	0.13	1.5	6.2	0.74	1330	0.72	0.02
462237		1780	2.11	3.12	0.07	0.02	0.03	0.321	0.08	2.5	4.7	0.62	849	0.59	0.02
462238		1870	2.10	3.65	0.06	0.02	0.01	0.090	0.09	2.6	6.1	0.66	921	1.16	0.02
462239		91.1	1.95	3.28	0.07	<0.02	0.01	0.071	0.08	3.8	4.3	0.58	1360	1.86	0.02
462240		107.0	1.95	3.23	0.07	<0.02	0.01	0.072	0.08	3.9	4.3	0.58	1360	1.67	0.02
462241		5580	2.41	2.69	0.08	<0.02	0.03	0.231	0.09	6.6	3.7	0.52	2060	0.92	0.02
462242		4300	3.55	2.62	0.07	<0.02	0.02	0.360	0.09	4.8	3.8	0.50	1260	0.92	0.02
462243		88.4	2.45	3.51	0.07	<0.02	0.03	0.241	0.07	1.5	5.9	0.72	872	1.19	0.02
462244		43.3	2.04	3.21	0.07	<0.02	0.03	0.280	0.07	2.1	5.6	0.62	893	0.56	0.02
462245		122.0	3.83	3.72	0.07	<0.02	0.05	0.647	0.11	1.8	7.0	0.66	919	0.91	0.01
462246		996	5.09	5.71	0.07	<0.02	0.07	1.715	0.14	3.4	7.1	0.74	1010	0.67	0.01
462247		332	4.57	4.47	0.08	<0.02	0.16	3.00	0.11	3.4	5.9	0.60	1050	1.73	0.01
462248		322	3.48	3.50	0.06	<0.02	0.16	1.445	0.13	1.4	4.8	0.62	1090	1.15	0.01
462249		618	3.59	3.56	0.06	<0.02	0.16	1.410	0.13	1.2	4.3	0.50	1010	1.08	0.01
462250		2440	4.51	4.74	0.08	0.03	0.05	0.140	0.28	4.8	15.5	0.56	747	202	0.05
462251		74.5	1.46	2.80	0.06	<0.02	0.01	0.105	0.10	1.3	3.7	0.40	1280	0.67	0.01
462252		49.0	1.26	3.37	0.07	<0.02	0.01	0.093	0.07	2.1	2.9	0.36	1040	0.64	0.01



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Page: 2 - C
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 29 - NOV - 2016
Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16202793

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
462213		4.5	460	0.4	2.1	<0.001	4.09	0.08	0.8	0.7	0.3	13.6	<0.01	1.08	0.5
462214		3.8	490	0.5	1.9	<0.001	2.40	0.08	1.1	0.3	0.6	19.1	<0.01	0.91	0.4
462215		4.5	460	0.6	1.5	<0.001	0.54	0.08	1.2	0.2	<0.2	37.1	<0.01	0.31	0.4
462216		4.7	440	0.5	1.2	<0.001	0.02	0.08	1.3	0.3	<0.2	42.3	<0.01	0.02	0.4
462217		4.5	410	0.5	1.5	<0.001	0.13	0.07	1.1	0.2	<0.2	41.1	<0.01	0.04	0.4
462218		2.9	340	0.4	2.2	<0.001	2.17	0.07	0.7	0.2	0.5	20.9	<0.01	0.53	0.9
462219		3.3	450	0.5	2.0	<0.001	1.44	0.08	0.8	<0.2	0.2	23.6	<0.01	0.53	0.8
462220		3.9	460	1.3	2.1	<0.001	1.56	0.09	0.9	0.2	0.2	23.6	<0.01	0.63	0.8
462221		3.7	460	0.7	2.0	<0.001	3.12	0.09	0.9	0.4	0.4	19.7	<0.01	0.58	1.0
462222		3.2	640	0.7	2.3	<0.001	4.08	0.08	0.5	0.3	0.7	10.5	<0.01	1.38	0.9
462223		3.1	370	0.4	1.9	<0.001	0.87	0.09	0.7	0.2	<0.2	23.5	<0.01	1.15	0.5
462224		3.4	370	0.5	1.3	<0.001	0.63	0.09	0.8	0.3	<0.2	32.1	<0.01	0.14	0.5
462225		3.1	350	0.5	1.7	<0.001	0.84	0.08	0.7	0.3	<0.2	31.1	<0.01	0.22	0.8
462226		3.4	390	0.4	2.4	<0.001	8.50	0.08	0.4	0.9	0.4	10.2	<0.01	1.39	0.6
462227		3.1	370	0.7	1.4	<0.001	0.10	0.07	0.9	0.2	<0.2	41.6	<0.01	0.02	0.6
462228		3.1	370	1.6	1.6	<0.001	0.16	0.07	1.4	0.3	<0.2	46.0	<0.01	0.07	0.5
462229		3.0	370	1.0	1.6	<0.001	0.08	0.07	1.1	0.2	<0.2	49.3	<0.01	<0.01	0.4
462230		660	710	4.5	28.2	0.094	3.89	0.68	9.0	3.6	0.4	52.4	<0.01	0.49	0.9
462231		2.7	380	1.0	2.0	<0.001	0.66	0.06	1.1	0.2	<0.2	42.2	<0.01	0.11	0.5
462232		3.1	410	0.7	1.8	<0.001	0.69	0.07	0.9	<0.2	<0.2	37.1	<0.01	0.23	0.4
462233		2.8	410	0.5	2.2	<0.001	1.24	0.06	0.7	0.2	<0.2	25.0	<0.01	0.48	0.2
462234		2.9	370	0.5	1.4	<0.001	<0.01	0.07	0.9	<0.2	<0.2	40.5	<0.01	<0.01	0.2
462235		3.0	380	0.4	1.5	<0.001	0.15	0.07	0.9	0.2	<0.2	36.1	<0.01	0.03	0.3
462236		2.9	390	0.5	1.9	<0.001	0.85	0.07	0.8	<0.2	<0.2	18.5	<0.01	0.22	0.3
462237		3.4	510	0.9	1.2	<0.001	0.70	0.09	0.8	0.3	0.2	28.6	<0.01	0.62	0.4
462238		3.0	390	1.0	1.4	<0.001	0.62	0.09	0.9	0.3	0.2	30.3	<0.01	0.27	0.4
462239		2.4	420	1.6	1.4	<0.001	0.38	0.09	1.6	0.3	0.2	74.6	<0.01	0.07	0.3
462240		2.5	420	1.7	1.4	<0.001	0.39	0.09	1.6	0.3	0.2	73.7	<0.01	0.07	0.4
462241		2.5	370	2.1	1.5	<0.001	0.89	0.11	1.9	0.5	0.3	82.0	<0.01	0.51	0.5
462242		3.3	430	1.6	1.5	<0.001	2.32	0.17	1.6	0.4	0.5	48.6	<0.01	0.74	0.5
462243		3.3	380	0.7	1.0	<0.001	0.63	0.14	1.1	<0.2	0.2	35.3	<0.01	0.16	0.5
462244		2.9	370	0.7	1.0	<0.001	0.27	0.12	1.3	0.2	0.2	42.0	<0.01	0.06	0.3
462245		3.1	390	0.6	1.4	<0.001	1.53	0.08	1.4	0.2	0.3	21.0	<0.01	0.17	0.2
462246		2.6	350	0.3	1.8	<0.001	2.28	0.06	1.5	0.3	0.3	17.9	<0.01	1.01	0.4
462247		2.8	340	0.4	1.5	<0.001	2.41	0.07	1.9	0.5	0.2	12.7	<0.01	0.37	0.4
462248		3.0	360	0.5	1.7	<0.001	1.54	0.07	1.3	0.3	0.2	27.3	<0.01	0.17	0.2
462249		2.6	340	0.5	1.9	<0.001	1.84	0.05	1.1	0.2	0.2	30.0	<0.01	0.37	0.2
462250		20.0	740	72.3	14.1	0.198	2.20	1.62	2.5	4.2	0.6	53.6	<0.01	0.72	3.1
462251		2.4	350	1.2	1.5	<0.001	0.08	0.13	1.0	<0.2	0.2	82.7	<0.01	0.02	0.2
462252		1.6	260	1.1	1.0	<0.001	0.09	0.12	0.8	<0.2	0.2	80.3	<0.01	0.02	0.6



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Page: 2 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 29 - NOV - 2016
 Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16202793

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
462213		<0.02	0.46	9	0.09	3.04	345	<0.5	0.373		0.024
462214		<0.02	1.68	9	0.07	3.93	745	<0.5	1.155		0.048
462215		<0.02	0.21	15	<0.05	5.12	607	<0.5			0.007
462216		<0.02	0.19	15	<0.05	5.36	111	<0.5			<0.005
462217		<0.02	0.15	11	<0.05	4.81	457	<0.5			<0.005
462218		<0.02	0.98	5	0.06	3.92	651	<0.5	0.460		0.024
462219		<0.02	0.78	9	0.09	3.48	980	<0.5	0.260		0.014
462220		<0.02	0.83	9	0.09	3.48	1040	<0.5	0.276		0.021
462221		<0.02	1.19	14	0.05	4.36	475	<0.5	0.538		0.041
462222		<0.02	15.65	4	0.07	4.99	792	<0.5	1.450		0.136
462223		<0.02	0.64	7	<0.05	5.33	375	<0.5	0.227		0.007
462224		<0.02	0.21	10	<0.05	5.50	943	<0.5			0.012
462225		<0.02	0.41	8	<0.05	5.68	886	<0.5	0.210		0.012
462226		<0.02	1.94	3	0.06	4.27	150	<0.5	0.542		0.066
462227		<0.02	0.12	10	<0.05	4.73	209	<0.5			<0.005
462228		<0.02	0.26	9	<0.05	6.74	214	<0.5			<0.005
462229		<0.02	0.11	9	<0.05	4.04	127	<0.5			<0.005
462230		0.58	0.29	74	10.65	5.27	63	1.3			0.023
462231		<0.02	0.25	7	0.05	4.65	264	<0.5	0.272		<0.005
462232		<0.02	0.15	10	<0.05	4.03	578	<0.5			0.012
462233		<0.02	0.21	6	0.05	2.76	762	<0.5	0.187		0.010
462234		<0.02	0.10	9	<0.05	3.94	67	<0.5			<0.005
462235		<0.02	0.11	10	0.07	5.19	1140	<0.5			<0.005
462236		<0.02	0.15	9	0.10	3.87	1030	<0.5			0.005
462237		<0.02	0.49	9	<0.05	4.62	1420	<0.5	0.185		0.015
462238		<0.02	0.19	10	<0.05	5.29	327	<0.5	0.193		0.010
462239		<0.02	0.32	12	0.08	7.64	423	<0.5			<0.005
462240		<0.02	0.35	12	0.09	7.88	425	<0.5			<0.005
462241		<0.02	0.46	12	0.17	10.95	842	<0.5	0.552		0.023
462242		<0.02	2.05	9	0.18	8.56	1080	<0.5	0.433		0.020
462243		<0.02	0.11	10	0.06	3.47	2390	<0.5			<0.005
462244		<0.02	0.11	9	0.06	4.76	2890	<0.5			<0.005
462245		<0.02	0.08	9	0.08	3.62	5060	<0.5			<0.005
462246		<0.02	0.32	8	0.07	5.95	5830	<0.5			0.010
462247		<0.02	0.17	8	0.09	7.68	>10000	<0.5			<0.005
462248		<0.02	0.12	7	0.10	3.12	>10000	<0.5			<0.005
462249		<0.02	0.13	7	0.07	3.11	8470	<0.5			0.006
462250		0.26	0.58	32	2.67	4.86	447	0.9	0.250	0.029	0.327
462251		<0.02	0.07	6	0.05	3.04	727	<0.5			<0.005
462252		<0.02	0.19	8	<0.05	4.53	484	<0.5			<0.005



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Page: 3 - A
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 29-NOV-2016
Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16202793

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
462253		3.53	0.01	0.66	0.1	<0.2	<10	50	0.05	0.04	1.18	0.09	5.24	3.0	5	<0.05
462254		4.33	7.49	0.45	6.1	0.2	<10	60	0.07	1.21	2.76	5.96	6.41	15.8	8	<0.05
462255		3.32	1.49	0.35	1.4	<0.2	<10	60	0.07	0.72	0.41	1.74	15.95	5.7	7	0.06
462256		4.95	1.30	0.42	0.6	<0.2	<10	60	0.05	0.88	0.59	0.73	10.35	4.7	5	0.05
462257		4.81	0.77	0.60	0.7	<0.2	<10	80	0.06	0.49	0.33	1.64	5.39	4.8	6	0.05
462258		2.90	1.00	0.27	3.1	<0.2	<10	10	0.06	1.96	0.05	0.52	7.69	57.9	6	0.05
462259		2.87	0.55	0.33	1.0	<0.2	<10	50	0.05	1.13	0.08	0.24	6.99	16.0	7	0.05
462260		<0.02	0.57	0.33	1.0	<0.2	<10	60	0.06	0.86	0.08	0.25	6.50	15.7	9	0.05
462261		3.77	0.69	0.56	0.3	<0.2	<10	50	0.07	0.37	0.73	0.38	6.35	4.2	6	<0.05
462262		3.59	0.19	0.54	0.2	<0.2	<10	40	0.06	0.16	0.90	1.15	16.80	4.4	7	0.05
462263		4.09	0.06	0.38	0.5	<0.2	<10	40	0.05	0.21	0.57	0.03	10.55	8.6	6	0.06
462264		3.94	0.68	0.58	0.3	<0.2	<10	50	0.07	0.45	0.29	0.20	8.00	5.0	7	<0.05
462265		3.63	0.24	0.74	0.2	<0.2	<10	50	0.08	0.16	0.65	0.40	5.50	4.7	5	<0.05
462266		4.08	0.16	0.51	0.3	<0.2	<10	70	0.06	0.16	0.47	0.91	4.69	5.1	5	<0.05
462267		3.16	0.01	0.67	0.2	<0.2	<10	70	0.07	0.02	0.50	0.43	5.09	3.9	8	<0.05
462268		3.30	0.10	0.73	0.1	<0.2	<10	60	0.07	0.06	0.52	0.46	4.87	3.8	6	<0.05
462269		3.32	0.89	0.62	0.3	<0.2	<10	60	0.07	0.31	0.46	0.93	8.74	4.2	6	<0.05
462270		0.04	0.47	2.11	15.0	<0.2	10	90	0.33	0.43	1.16	0.20	9.97	50.3	274	1.23
462271		3.52	0.23	0.67	0.4	<0.2	<10	60	0.06	0.07	0.67	0.21	6.31	4.3	6	<0.05
462272		3.93	0.43	0.57	0.4	<0.2	<10	50	0.06	0.30	0.37	0.57	13.65	7.2	6	<0.05
462273		4.17	0.08	0.34	0.4	<0.2	<10	60	0.07	0.22	0.10	0.03	8.41	6.4	7	0.05
462274		4.30	0.56	0.53	0.4	<0.2	<10	80	0.07	0.30	0.25	0.23	4.25	6.7	9	0.05
462275		3.44	1.12	0.68	0.3	<0.2	<10	90	0.09	0.30	0.69	0.32	4.63	5.7	5	0.05
462276		3.74	0.35	0.89	<0.1	<0.2	<10	90	0.11	0.15	0.98	0.30	5.22	4.4	7	0.05
462277		3.79	0.75	0.95	0.4	<0.2	<10	80	0.08	0.70	1.04	1.68	3.75	4.7	5	0.05
462278		4.41	0.79	1.03	0.2	<0.2	<10	80	0.08	0.37	0.78	0.27	8.75	4.1	8	0.07
462279		4.25	2.95	1.52	0.1	<0.2	<10	70	0.13	1.34	2.18	0.67	11.10	9.6	123	0.07
462280		<0.02	3.05	1.49	0.2	<0.2	<10	70	0.15	1.31	2.13	0.68	10.95	9.7	121	0.07
462281		3.66	1.17	0.89	0.2	<0.2	<10	60	0.11	0.44	0.71	2.04	7.88	4.5	8	0.05
462282		3.92	0.02	0.89	0.1	<0.2	<10	50	0.07	0.08	1.14	1.60	5.28	5.8	7	0.07
462283		3.78	<0.01	0.84	0.1	<0.2	<10	90	0.07	0.02	1.02	0.81	5.83	4.5	6	<0.05
462284		4.07	0.02	0.81	0.2	<0.2	<10	100	0.09	0.02	0.79	0.18	6.99	4.4	6	<0.05
462285		4.34	0.08	0.79	<0.1	<0.2	<10	70	0.09	0.07	0.73	0.11	6.41	4.3	6	<0.05
462286		3.81	0.05	0.66	<0.1	<0.2	<10	70	0.07	0.08	1.13	0.14	4.64	3.5	6	<0.05
462287		3.93	0.68	0.49	0.4	<0.2	<10	70	0.07	0.22	0.68	0.36	9.08	11.0	5	<0.05
462288		3.97	0.30	0.36	0.4	<0.2	<10	60	0.07	0.30	0.07	0.15	14.35	8.6	6	0.05
462289		3.77	0.39	0.34	0.7	<0.2	<10	40	0.06	0.43	0.05	0.54	8.58	17.1	5	0.05
462290		0.04	0.49	2.18	15.3	<0.2	10	80	0.34	0.47	1.18	0.19	10.25	52.1	282	1.29
462291		3.95	0.55	0.35	0.9	<0.2	<10	50	<0.05	0.22	0.05	0.29	14.10	19.9	6	0.05
462292		4.90	0.36	0.21	2.3	<0.2	<10	10	<0.05	1.18	0.03	1.48	3.57	165.0	4	<0.05



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Page: 3 - B
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 29 - NOV - 2016
Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16202793

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
462253		13.3	1.25	2.57	0.06	<0.02	<0.01	0.008	0.07	2.2	3.2	0.39	800	0.54	0.03
462254		>10000	5.87	1.64	0.06	<0.02	0.09	1.620	0.10	2.8	1.9	0.24	1550	0.91	0.02
462255		3320	4.82	1.26	0.07	<0.02	0.02	0.297	0.18	7.0	0.8	0.08	322	1.56	0.01
462256		3540	3.71	1.21	<0.05	<0.02	0.01	0.139	0.16	4.4	1.3	0.14	620	3.04	0.01
462257		3410	3.18	1.82	<0.05	<0.02	0.03	0.320	0.14	2.1	2.1	0.27	464	1.13	0.01
462258		3460	14.05	0.82	0.06	<0.02	0.02	0.067	0.15	3.0	0.5	0.03	89	7.89	0.01
462259		2680	6.57	0.88	<0.05	<0.02	0.01	0.069	0.20	2.8	0.5	0.04	117	3.02	0.01
462260		2750	6.57	0.81	<0.05	<0.02	0.01	0.073	0.20	2.8	0.5	0.04	118	3.14	0.01
462261		3400	2.26	1.53	<0.05	<0.02	0.01	0.093	0.16	2.5	2.1	0.25	692	1.32	0.02
462262		878	2.58	1.51	<0.05	<0.02	0.04	0.067	0.14	7.6	2.3	0.24	770	1.07	0.02
462263		236	3.59	1.01	<0.05	<0.02	<0.01	0.017	0.15	4.2	1.2	0.12	428	2.93	0.01
462264		3910	3.35	1.69	<0.05	<0.02	0.02	0.108	0.16	3.0	1.9	0.26	420	1.33	0.01
462265		1450	1.65	2.22	<0.05	<0.02	0.02	0.075	0.11	2.0	2.9	0.40	671	0.44	0.03
462266		640	3.85	1.39	<0.05	<0.02	0.03	0.077	0.14	1.8	1.6	0.22	390	0.64	0.02
462267		52.4	1.13	1.98	<0.05	<0.02	0.01	0.018	0.09	1.7	2.2	0.36	484	0.54	0.04
462268		435	1.44	2.12	<0.05	<0.02	0.01	0.045	0.12	1.7	2.1	0.36	512	0.50	0.03
462269		4610	2.37	1.61	<0.05	<0.02	0.04	0.118	0.16	3.5	1.9	0.30	541	0.51	0.01
462270		827	5.58	5.47	0.07	0.04	0.02	0.022	0.69	4.1	4.0	5.51	473	87.8	0.10
462271		881	1.41	2.00	<0.05	<0.02	0.01	0.031	0.11	2.1	2.3	0.37	532	0.41	0.03
462272		1760	3.75	1.51	<0.05	<0.02	0.02	0.065	0.18	6.3	1.4	0.22	394	1.38	0.02
462273		276	3.51	0.86	<0.05	<0.02	<0.01	0.022	0.23	3.5	0.4	0.02	79	3.52	0.01
462274		2590	2.59	1.54	<0.05	<0.02	0.02	0.102	0.25	1.7	1.0	0.14	271	0.79	0.01
462275		4160	2.43	1.91	<0.05	<0.02	0.02	0.108	0.23	1.9	1.8	0.29	725	0.40	0.02
462276		699	1.84	2.70	<0.05	<0.02	0.01	0.065	0.21	2.2	2.9	0.40	1020	0.66	0.03
462277		744	1.99	2.75	<0.05	<0.02	0.01	0.192	0.19	1.5	2.9	0.40	1080	0.61	0.03
462278		1110	2.34	3.63	<0.05	<0.02	0.01	0.152	0.24	3.5	3.4	0.43	955	1.00	0.02
462279		4710	3.38	4.51	<0.05	<0.02	0.02	0.511	0.19	4.3	5.3	1.30	1600	1.84	0.02
462280		4610	3.33	4.56	<0.05	<0.02	0.02	0.503	0.19	4.3	5.2	1.26	1560	2.03	0.02
462281		3210	2.17	2.50	<0.05	<0.02	0.03	0.296	0.19	2.9	2.8	0.42	849	0.65	0.02
462282		19.1	1.54	2.68	<0.05	<0.02	0.01	0.075	0.10	2.0	3.3	0.51	898	0.78	0.04
462283		10.4	1.26	2.53	<0.05	0.02	<0.01	0.044	0.09	1.8	3.0	0.48	763	0.82	0.04
462284		76.3	1.11	2.54	<0.05	0.02	<0.01	0.011	0.09	2.1	2.8	0.45	657	1.12	0.05
462285		429	1.31	2.36	<0.05	0.02	<0.01	0.020	0.11	2.3	2.8	0.44	740	3.63	0.04
462286		297	1.12	1.88	<0.05	<0.02	<0.01	0.018	0.15	2.0	2.0	0.31	970	0.77	0.03
462287		1970	2.44	1.34	<0.05	<0.02	0.02	0.056	0.21	3.5	1.1	0.14	525	0.47	0.02
462288		728	4.05	0.89	<0.05	<0.02	<0.01	0.042	0.23	6.0	0.4	0.02	26	0.73	0.01
462289		512	7.09	0.81	<0.05	<0.02	0.01	0.158	0.22	3.2	0.4	0.02	25	1.45	0.01
462290		859	5.75	5.65	0.07	0.04	0.02	0.024	0.72	4.2	4.2	5.67	486	90.8	0.11
462291		457	5.20	0.86	<0.05	<0.02	0.01	0.105	0.21	5.5	0.3	0.01	21	1.49	0.02
462292		82.0	24.8	0.60	0.08	<0.02	0.01	0.011	0.13	1.4	0.3	0.01	21	13.40	0.01



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Page: 3 - C

Total # Pages: 4 (A - D)

Plus Appendix Pages

Finalized Date: 29 - NOV - 2016

Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16202793

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
462253		1.4	270	0.4	1.1	<0.001	0.09	0.06	0.6	<0.2	<0.2	25.4	<0.01	0.01	1.0
462254		4.2	270	1.4	1.5	<0.001	5.83	0.17	1.0	1.3	1.3	64.5	<0.01	4.64	0.6
462255		2.4	250	0.6	2.5	<0.001	4.87	0.08	0.3	0.6	0.3	12.1	<0.01	1.05	1.1
462256		6.3	310	4.2	2.3	0.003	3.56	<0.05	0.4	0.5	0.4	13.7	<0.01	0.70	1.0
462257		2.2	320	0.9	2.0	<0.001	2.67	<0.05	0.4	0.2	0.3	10.1	<0.01	0.37	0.9
462258		2.2	190	1.1	2.2	<0.001	>10.0	0.08	0.3	3.4	0.5	3.7	<0.01	2.21	0.7
462259		1.8	300	0.7	2.7	<0.001	7.51	<0.05	0.3	1.3	0.3	4.2	<0.01	1.13	1.0
462260		2.0	280	0.8	2.7	<0.001	7.48	<0.05	0.3	1.0	0.3	4.2	<0.01	0.92	1.0
462261		1.7	350	0.7	2.2	<0.001	1.73	<0.05	0.4	<0.2	0.3	11.9	<0.01	0.54	1.1
462262		1.6	330	1.0	2.0	<0.001	2.06	<0.05	0.5	0.3	<0.2	17.5	<0.01	0.27	1.0
462263		1.7	280	0.7	2.1	<0.001	3.52	<0.05	0.3	0.5	<0.2	10.4	<0.01	0.30	1.1
462264		1.7	310	0.5	2.3	<0.001	2.87	<0.05	0.4	0.4	0.3	7.2	<0.01	0.53	0.9
462265		1.7	360	0.5	1.7	<0.001	0.53	<0.05	0.6	<0.2	0.2	18.3	<0.01	0.20	0.9
462266		1.7	300	0.5	2.1	<0.001	3.63	<0.05	0.4	0.5	<0.2	15.2	<0.01	0.23	0.8
462267		1.9	320	0.5	1.4	<0.001	0.11	<0.05	0.6	0.3	<0.2	23.3	<0.01	0.03	0.5
462268		1.6	340	0.5	1.8	<0.001	0.27	<0.05	0.5	<0.2	<0.2	28.4	<0.01	0.06	0.6
462269		1.7	310	0.5	2.3	<0.001	1.64	<0.05	0.5	0.2	0.3	16.6	<0.01	0.27	1.0
462270		652	720	4.8	27.3	0.101	3.85	0.67	8.0	3.3	0.3	51.5	<0.01	0.19	0.9
462271		2.5	300	0.5	1.7	<0.001	0.50	<0.05	0.7	0.2	<0.2	21.5	<0.01	0.13	0.6
462272		2.2	320	0.5	2.4	<0.001	3.37	<0.05	0.6	0.3	0.3	11.2	<0.01	0.45	0.8
462273		1.5	160	0.3	3.1	<0.001	3.75	<0.05	0.3	0.5	0.2	4.0	<0.01	0.20	0.8
462274		2.1	330	0.5	3.6	<0.001	2.47	<0.05	0.4	<0.2	0.3	10.3	<0.01	0.32	0.6
462275		1.7	350	0.5	3.4	<0.001	1.96	<0.05	0.5	0.2	0.3	17.8	<0.01	0.34	0.7
462276		1.7	350	0.6	3.2	<0.001	0.67	<0.05	0.8	0.2	<0.2	24.5	<0.01	0.11	1.1
462277		1.7	340	0.5	3.0	<0.001	0.62	<0.05	0.7	0.2	<0.2	22.7	<0.01	0.45	0.8
462278		1.9	330	0.5	3.7	<0.001	0.86	<0.05	0.7	<0.2	0.2	15.7	<0.01	0.18	1.1
462279		40.1	590	1.0	3.1	<0.001	1.44	<0.05	4.0	0.2	0.3	57.9	<0.01	1.30	0.9
462280		39.5	560	1.0	3.2	<0.001	1.45	<0.05	4.0	0.3	0.3	57.4	<0.01	1.26	0.9
462281		3.3	310	0.6	3.0	<0.001	1.06	<0.05	0.9	0.3	0.3	19.9	<0.01	0.18	0.7
462282		2.8	310	0.6	1.5	<0.001	0.45	<0.05	0.9	<0.2	<0.2	35.1	<0.01	0.10	0.6
462283		2.3	310	0.6	1.4	<0.001	0.24	<0.05	0.8	<0.2	<0.2	33.8	<0.01	0.05	0.6
462284		2.4	310	0.6	1.4	<0.001	0.11	0.05	0.9	0.2	<0.2	37.0	<0.01	0.04	0.5
462285		2.3	280	0.6	1.7	<0.001	0.42	<0.05	0.8	<0.2	<0.2	27.9	<0.01	0.10	0.6
462286		1.8	220	0.7	2.3	<0.001	0.25	<0.05	0.7	0.2	<0.2	21.1	<0.01	0.05	0.7
462287		1.6	260	0.6	3.0	<0.001	2.32	<0.05	0.5	0.5	0.2	10.2	<0.01	0.42	1.1
462288		2.4	260	0.6	3.1	<0.001	4.39	<0.05	0.3	0.8	<0.2	3.4	<0.01	0.37	1.1
462289		1.8	220	1.2	3.0	<0.001	8.44	<0.05	0.3	2.3	<0.2	2.7	<0.01	0.56	0.8
462290		670	720	5.0	27.8	0.103	3.97	0.73	8.3	3.5	0.4	52.7	<0.01	0.23	1.0
462291		2.6	230	1.0	2.6	<0.001	6.06	<0.05	0.3	1.2	0.2	2.6	<0.01	0.53	0.9
462292		2.2	40	7.7	1.6	0.002	>10.0	0.06	0.2	8.5	<0.2	1.3	<0.01	2.51	0.3



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Page: 3 - D
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 29 - NOV - 2016
Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16202793

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
462253		<0.02	0.30	5	<0.05	4.41	157	<0.5			<0.005
462254		<0.02	1.25	3	0.11	8.51	1300	<0.5	1.715		0.197
462255		<0.02	0.98	2	0.15	4.74	427	<0.5	0.335		0.040
462256		<0.02	0.69	3	0.22	3.24	200	<0.5	0.352		0.062
462257		<0.02	0.55	2	0.15	3.22	693	<0.5	0.342		0.028
462258		<0.02	0.79	2	0.20	2.80	199	<0.5	0.330		0.052
462259		<0.02	0.65	2	0.24	2.83	81	<0.5	0.265		0.022
462260		<0.02	0.55	2	0.19	2.74	91	<0.5	0.266		0.023
462261		<0.02	1.06	2	0.12	3.40	169	<0.5	0.343		0.037
462262		<0.02	0.47	3	0.10	5.57	611	<0.5			0.005
462263		<0.02	0.45	2	0.11	4.76	37	<0.5			<0.005
462264		<0.02	0.99	3	0.08	5.14	104	<0.5	0.394		0.033
462265		<0.02	0.88	5	<0.05	4.77	249	<0.5			0.010
462266		<0.02	0.88	3	<0.05	4.43	424	<0.5			0.006
462267		<0.02	0.35	4	<0.05	4.62	255	<0.5			<0.005
462268		<0.02	0.40	4	0.05	4.67	285	<0.5			<0.005
462269		<0.02	1.87	3	0.06	5.07	414	<0.5	0.447		0.034
462270		0.56	0.28	73	10.35	4.78	63	1.2			0.017
462271		<0.02	0.35	5	<0.05	5.66	134	<0.5			<0.005
462272		<0.02	0.94	4	0.07	5.88	282	<0.5	0.176		0.018
462273		<0.02	0.45	2	0.07	4.55	11	<0.5			<0.005
462274		0.02	0.63	3	<0.05	3.09	111	<0.5	0.266		0.020
462275		0.02	1.26	3	0.10	3.46	186	<0.5	0.422		0.030
462276		0.02	0.47	5	0.10	3.22	233	<0.5			<0.005
462277		0.02	0.27	5	0.09	2.47	789	<0.5			<0.005
462278		0.02	0.29	4	0.15	3.80	252	<0.5			0.005
462279		0.02	0.50	26	0.14	7.02	370	<0.5	0.456		0.042
462280		0.02	0.48	26	0.15	7.22	358	<0.5	0.446		0.038
462281		0.02	1.48	5	0.09	6.31	884	<0.5	0.330		0.011
462282		<0.02	0.18	7	<0.05	3.65	732	<0.5			<0.005
462283		<0.02	0.14	7	<0.05	5.12	380	<0.5			<0.005
462284		<0.02	0.15	7	<0.05	6.45	150	<0.5			<0.005
462285		<0.02	0.31	6	<0.05	5.27	156	<0.5			0.006
462286		<0.02	0.39	4	0.18	4.25	127	<0.5			<0.005
462287		<0.02	0.52	3	0.11	4.75	112	<0.5	0.191		0.018
462288		0.02	0.69	2	0.05	6.44	40	<0.5			0.009
462289		0.02	0.36	2	0.12	3.49	177	<0.5			0.010
462290		0.61	0.30	76	11.15	4.97	64	1.2			0.016
462291		<0.02	0.90	2	0.22	3.40	51	<0.5			0.013
462292		<0.02	0.37	2	0.33	1.39	203	<0.5			0.027



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Page: 4 - A
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 29 - NOV - 2016
 Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16202793

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1	ME-MS41 Cs ppm 0.05
462293		4.33	1.34	0.33	1.7	<0.2	<10	20	<0.05	0.52	0.07	3.50	7.60	79.1	7	<0.05
462294		1.25	0.05	0.34	0.2	<0.2	<10	30	0.49	0.16	0.38	0.06	112.0	0.9	10	0.48
462295		3.85	1.45	0.37	0.5	<0.2	<10	50	0.06	0.35	0.08	0.27	14.20	6.3	6	0.06
462296		4.62	1.42	0.39	0.6	<0.2	<10	50	0.09	0.37	0.10	0.32	12.85	9.4	7	0.06
462297		5.13	0.35	0.34	1.0	<0.2	<10	20	0.05	0.96	0.04	0.34	8.23	72.6	5	0.05
462298		4.10	0.84	0.31	1.4	<0.2	<10	20	0.07	1.01	0.03	0.90	9.33	72.7	6	<0.05
462299		3.54	0.89	0.44	0.4	<0.2	<10	50	0.09	0.19	0.61	0.37	14.75	3.3	7	0.06
462300		<0.02	0.84	0.43	0.3	<0.2	<10	50	0.07	0.18	0.63	0.38	14.65	3.5	8	0.06
462301		3.41	0.57	0.44	0.2	<0.2	<10	40	0.06	0.22	0.55	0.09	17.35	3.9	8	0.06
462302		3.58	1.59	0.44	0.5	<0.2	<10	50	0.07	0.33	0.73	0.46	12.80	5.5	7	0.07
462303		3.90	0.67	0.69	0.2	<0.2	<10	40	0.08	0.34	1.23	0.11	7.13	4.8	6	0.05
462304		3.61	0.49	0.68	0.2	<0.2	<10	40	0.08	0.20	1.40	0.74	7.80	4.1	7	0.05
462305		3.79	0.19	0.61	0.1	<0.2	<10	40	0.07	0.05	1.10	0.08	6.50	3.4	10	<0.05
462306		3.92	0.09	0.85	0.1	<0.2	<10	50	0.11	0.05	1.15	0.09	5.75	4.0	7	<0.05
462307		3.85	1.25	0.72	0.3	<0.2	<10	50	0.08	10.20	0.80	0.13	4.95	4.0	8	0.05



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Page: 4 - B
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 29 - NOV - 2016
Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16202793

Sample Description	Method Analyte Units LOR	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01	ME-MS41 Nb ppm 0.05
462293		1820	12.40	0.83	0.06	<0.02	0.04	0.049	0.19	2.8	0.3	0.01	20	10.60	0.01	<0.05
462294		4.2	1.12	2.73	0.10	0.23	<0.01	0.022	0.19	62.9	8.1	0.10	298	1.83	0.07	3.01
462295		2750	4.69	1.17	<0.05	<0.02	0.01	0.084	0.23	6.0	0.4	0.01	26	0.66	0.01	<0.05
462296		3220	4.09	1.04	<0.05	<0.02	0.01	0.119	0.24	5.0	0.7	0.03	47	0.56	0.01	<0.05
462297		601	13.10	0.87	0.05	<0.02	0.01	0.032	0.21	3.1	0.4	0.01	19	58.7	0.01	<0.05
462298		1265	18.85	0.80	0.07	<0.02	0.02	0.067	0.20	3.4	0.3	0.01	21	13.30	0.01	<0.05
462299		1935	1.93	1.31	<0.05	<0.02	0.01	0.133	0.23	5.9	0.9	0.08	419	0.70	0.02	<0.05
462300		1915	1.97	1.30	<0.05	<0.02	0.01	0.136	0.22	5.6	1.0	0.08	424	0.74	0.02	<0.05
462301		2560	2.44	1.37	<0.05	<0.02	<0.01	0.089	0.15	6.8	1.6	0.17	499	4.31	0.01	<0.05
462302		6320	2.86	1.56	<0.05	0.02	0.02	0.409	0.15	4.6	1.5	0.17	471	1.22	0.01	<0.05
462303		2260	2.38	2.20	<0.05	<0.02	<0.01	0.148	0.16	2.5	2.6	0.36	897	2.16	0.01	<0.05
462304		1505	1.88	2.05	<0.05	<0.02	0.01	0.164	0.12	2.9	2.7	0.35	1000	0.98	0.02	<0.05
462305		427	1.45	2.09	<0.05	<0.02	<0.01	0.038	0.09	2.5	2.4	0.29	721	1.57	0.02	<0.05
462306		202	1.66	2.87	<0.05	<0.02	<0.01	0.030	0.09	2.1	3.7	0.49	907	0.70	0.03	<0.05
462307		2800	2.09	2.62	<0.05	<0.02	0.01	0.270	0.13	2.0	2.5	0.36	751	2.63	0.02	<0.05



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Page: 4 - C
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 29 - NOV - 2016
 Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16202793

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
462293		2.4	330	4.6	2.2	0.001	>10.0	<0.05	0.2	2.9	0.7	2.4	<0.01	1.06	0.6
462294		0.9	140	6.5	11.5	<0.001	0.06	<0.05	0.9	0.5	0.6	15.7	<0.01	<0.01	29.7
462295		1.8	330	0.9	2.9	<0.001	5.04	<0.05	0.3	0.6	0.6	3.1	<0.01	0.53	1.1
462296		2.0	360	0.9	3.2	<0.001	4.40	<0.05	0.3	0.6	0.3	3.3	<0.01	0.90	1.1
462297		1.8	200	2.4	2.5	0.003	>10.0	<0.05	0.2	3.1	0.2	2.4	<0.01	1.37	0.8
462298		2.0	130	2.4	2.4	0.002	>10.0	0.05	0.2	4.4	0.2	2.1	<0.01	1.58	0.7
462299		1.4	260	0.9	3.1	<0.001	1.82	<0.05	0.4	0.3	0.2	10.9	<0.01	0.39	1.3
462300		1.4	260	0.9	3.0	<0.001	1.86	<0.05	0.4	0.3	0.2	10.9	<0.01	0.38	1.3
462301		1.8	280	0.7	2.2	0.001	2.09	<0.05	0.5	0.5	0.2	13.1	<0.01	0.31	1.2
462302		1.8	390	0.9	2.2	<0.001	2.55	<0.05	0.6	0.5	0.4	18.0	<0.01	0.63	1.1
462303		1.6	360	0.7	2.3	<0.001	1.49	<0.05	0.8	0.2	0.2	17.6	<0.01	0.27	1.0
462304		1.8	320	0.6	1.8	<0.001	0.84	<0.05	0.8	<0.2	0.2	21.3	<0.01	0.17	1.1
462305		1.3	260	0.5	1.4	0.001	0.46	<0.05	0.5	<0.2	<0.2	23.0	<0.01	0.06	1.0
462306		2.0	340	0.6	1.4	<0.001	0.34	<0.05	1.1	0.2	<0.2	26.6	<0.01	0.05	0.8
462307		1.7	280	0.6	1.9	<0.001	1.03	0.06	0.7	0.2	0.2	18.2	<0.01	9.57	1.1
															0.010



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Page: 4 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 29 - NOV - 2016
 Account: GIBMIN

Project: SGM2016 - 16

CERTIFICATE OF ANALYSIS KL16202793

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
462293		<0.02	0.85	2	0.27	2.90	552	<0.5	0.164		0.024
462294		0.06	3.92	9	0.24	15.85	23	5.6			<0.005
462295		0.02	0.69	2	0.20	4.75	52	<0.5	0.274		0.028
462296		0.02	0.59	2	0.07	5.42	88	<0.5	0.293		0.051
462297		<0.02	0.89	2	0.18	3.17	128	<0.5			0.012
462298		<0.02	0.79	2	0.16	3.85	241	<0.5			0.023
462299		<0.02	0.79	2	0.10	7.47	107	<0.5	0.189		0.015
462300		<0.02	1.07	2	0.09	7.54	110	<0.5	0.186		0.015
462301		<0.02	0.71	2	0.14	9.84	55	<0.5	0.242		0.009
462302		<0.02	1.01	3	0.08	7.94	149	<0.5	0.596		0.021
462303		<0.02	0.45	3	0.06	4.89	100	<0.5	0.221		0.007
462304		<0.02	0.43	3	0.05	4.51	377	<0.5	0.146		0.005
462305		<0.02	0.42	3	<0.05	3.46	75	<0.5			<0.005
462306		<0.02	0.20	6	<0.05	4.36	105	<0.5			<0.005
462307		<0.02	0.58	4	0.07	3.57	93	<0.5	0.262		0.014



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 29 - NOV - 2016
Account: GIBMIN

Project: SGM2016 - 16

CERTIFICATE OF ANALYSIS KL16202793

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
 ME-MS41

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.			
	CRU - 31	CRU - QC	LOG - 21d	LOG - 22
	LOG - 23	PUL - 31	PUL - 31d	PUL - QC
	SPL - 21	SPL - 21d	WEI - 21	
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au - AA23	Cu - OG46	ME - MS41	ME - OG46
	Mo - OG46			



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Page: 1
Total # Pages: 2 (A - D)
Plus Appendix Pages
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CERTIFICATE KL16210378

Project: SGM2016-16

P.O. No.: SO218733

This report is for 7 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 1-DEC-2016.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

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ATTN: ALS MINERALS

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

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

Comments: ***Corrected copy with "TI" reported from ME-MS81***

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 13-DEC-2016
 Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16210378

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2
462126		978	20.4	10	1.09	3.39	2.08	0.66	21.9	3.19	5.0	0.68	8.1	0.31	2.1
462133		514	14.9	20	0.46	2.25	1.42	0.54	16.0	2.35	2.6	0.46	6.1	0.21	4.2
462149		792	17.2	20	1.15	2.34	1.34	0.51	22.1	2.33	4.1	0.48	6.7	0.24	2.1
462161		622	20.3	30	0.38	3.38	2.01	0.87	18.1	3.59	5.0	0.71	7.6	0.31	2.0
462193		507	18.0	30	1.10	2.59	1.56	0.57	21.1	2.52	2.7	0.51	7.3	0.25	2.6
462197		667	18.7	30	0.89	2.15	1.38	0.58	23.3	2.24	3.4	0.47	7.7	0.25	2.2
462208		874	21.4	30	0.75	2.69	1.55	0.68	18.6	2.80	3.3	0.56	8.9	0.26	2.1

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Page: 2 - B
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 13-DEC-2016
 Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16210378

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tm	U	V	W	Y	Yb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.5	0.01	0.05	5	1	0.5	0.03
462126		2.85	33.8	3.37	3	174.0	0.2	0.50	1.36	<0.5	0.30	2.33	107	4	18.3	2.18
462133		2.13	25.3	2.23	3	188.5	0.1	0.37	0.91	<0.5	0.19	1.59	88	3	12.4	1.28
462149		2.44	55.7	2.64	5	51.8	0.2	0.36	1.61	<0.5	0.20	2.17	104	9	12.8	1.39
462161		2.96	16.2	3.55	1	379	0.2	0.55	0.97	<0.5	0.30	0.68	113	1	19.5	2.06
462193		2.36	44.1	2.67	3	143.5	0.2	0.38	1.35	<0.5	0.23	1.93	104	8	14.7	1.57
462197		2.49	42.6	2.81	2	142.0	0.2	0.33	1.74	<0.5	0.22	1.06	104	4	13.2	1.58
462208		2.87	31.6	3.02	2	260	0.2	0.43	0.80	<0.5	0.25	1.69	92	5	16.3	1.77

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Page: 2 - C
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 13-DEC-2016
 Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16210378

Sample Description	Method Analyte Units LOR	ME-MS81 Zr ppm 2	ME-ICP06 SiO2 % 0.01	ME-ICP06 Al2O3 % 0.01	ME-ICP06 Fe2O3 % 0.01	ME-ICP06 CaO % 0.01	ME-ICP06 MgO % 0.01	ME-ICP06 Na2O % 0.01	ME-ICP06 K2O % 0.01	ME-ICP06 Cr2O3 % 0.01	ME-ICP06 TiO2 % 0.01	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01	ME-ICP06 BaO % 0.01	OA-GRA05 LOI % 0.01
462126		184	63.8	14.25	7.41	1.65	2.09	1.00	2.47	<0.01	0.47	0.45	0.12	0.02	0.11	4.89
462133		92	60.3	14.80	9.16	2.75	1.89	2.05	2.30	<0.01	0.44	0.12	0.11	0.03	0.07	4.83
462149		147	62.3	15.60	9.20	0.28	1.16	0.35	4.41	<0.01	0.44	0.06	0.12	<0.01	0.09	6.05
462161		191	65.4	15.80	5.12	4.68	2.21	3.68	0.96	<0.01	0.48	0.16	0.10	0.04	0.07	2.61
462193		101	62.3	15.20	8.43	2.22	1.96	1.36	2.98	<0.01	0.45	0.30	0.13	0.02	0.06	4.83
462197		119	62.7	15.40	7.13	2.41	2.05	1.72	2.71	<0.01	0.42	0.29	0.12	0.02	0.07	3.71
462208		109	52.9	15.50	12.20	3.17	1.49	3.32	2.20	<0.01	0.40	0.18	0.10	0.03	0.10	7.01

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Page: 2 - D
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 13-DEC-2016
Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16210378

Sample Description	Method Analyte Units LOR	TOT-ICP06
		Total % 0.01
462126		98.73
462133		98.85
462149		100.06
462161		101.31
462193		100.24
462197		98.75
462208		98.60

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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 13-DEC-2016
Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16210378

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02
TOT-ICP06

ME-ICP06

ME-MS81

OA-GRA05



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Page: 1
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CERTIFICATE KL16210391

Project: SGM2016-16

P.O. No.: SO218733

This report is for 9 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 1-DEC-2016.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

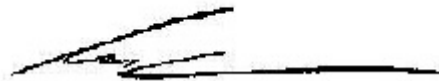
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Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 10-DEC-2016
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Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16210391

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2
462213		725	17.3	30	0.87	2.39	1.40	0.58	20.5	2.38	3.1	0.50	7.0	0.24	1.8
462222		822	15.7	40	0.84	1.92	1.05	0.45	24.0	2.08	3.5	0.40	6.7	0.20	1.9
462224		657	16.5	60	0.43	1.88	1.27	0.52	17.7	1.95	3.0	0.42	7.2	0.23	2.3
462226		891	13.5	50	0.75	1.62	0.83	0.39	17.7	1.65	3.3	0.32	5.6	0.19	1.9
462246		1515	13.1	30	0.57	1.47	0.85	0.25	23.0	1.52	2.6	0.30	5.3	0.14	1.6
462267		942	13.9	30	0.32	1.27	0.87	0.46	15.9	1.33	3.2	0.28	5.8	0.20	1.9
462288		944	15.8	30	0.68	1.59	0.93	0.31	17.1	1.69	2.5	0.33	6.5	0.14	3.3
462297		620	8.3	20	0.47	0.74	0.48	0.18	13.7	0.86	2.3	0.16	3.3	0.09	2.3
462306		663	16.1	20	0.41	1.86	1.33	0.46	16.1	2.01	2.8	0.42	6.4	0.23	3.1

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Finalized Date: 10-DEC-2016
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Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16210391

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tm	U	V	W	Y
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.5	0.01	0.05	5	1	0.5
462213		2.46	42.5	2.78	2	142.5	0.1	0.35	0.77	<0.5	0.19	1.22	86	8	13.3
462222		2.20	46.8	2.30	3	109.5	0.2	0.29	1.35	<0.5	0.18	11.80	64	6	10.8
462224		2.16	21.9	2.22	1	357	0.2	0.32	1.02	<0.5	0.20	1.06	72	2	12.4
462226		1.81	41.4	1.91	3	73.9	0.1	0.26	0.91	<0.5	0.14	2.77	55	5	8.4
462246		1.86	37.3	1.84	3	80.8	0.1	0.22	0.50	<0.5	0.12	0.48	49	3	8.6
462267		1.85	19.0	1.68	<1	280	0.2	0.23	1.39	<0.5	0.17	0.96	39	1	9.1
462288		2.05	54.3	2.14	2	30.9	0.2	0.25	1.18	<0.5	0.13	1.07	41	5	7.4
462297		1.09	37.3	0.87	2	22.6	0.2	0.13	0.89	<0.5	0.08	1.31	36	5	4.1
462306		2.18	22.8	2.07	1	185.0	0.2	0.31	1.05	<0.5	0.21	0.61	40	2	11.5

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 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 10-DEC-2016
 Account: GIBMIN

Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16210391

Sample Description	Method Analyte Units LOR	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05
		Zr	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI
		ppm	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		2	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
462213		103	64.2	14.40	9.16	1.62	1.76	0.81	3.11	<0.01	0.38	0.33	0.09	0.02	0.08	4.90
462222		102	67.6	13.65	6.97	0.94	0.81	1.21	3.40	<0.01	0.27	0.12	0.14	0.01	0.09	4.00
462224		99	67.5	14.45	4.19	3.28	1.37	3.68	1.44	0.01	0.33	0.23	0.08	0.04	0.07	2.03
462226		106	64.7	12.75	11.25	0.82	0.77	1.33	3.20	<0.01	0.27	0.09	0.08	0.01	0.10	6.44
462246		87	68.1	14.40	8.38	0.40	1.54	0.34	3.19	<0.01	0.28	0.23	0.07	0.01	0.17	3.97
462267		98	72.3	14.60	2.87	2.61	0.86	4.39	1.30	<0.01	0.21	0.13	0.07	0.03	0.10	1.33
462288		74	69.8	14.10	6.28	0.10	0.49	0.33	4.25	<0.01	0.24	0.01	0.06	<0.01	0.11	4.79
462297		68	56.9	11.05	17.20	0.07	0.33	0.29	3.27	<0.01	0.19	0.01	0.05	<0.01	0.07	10.45
462306		87	72.7	14.05	3.07	2.37	1.01	4.34	1.49	<0.01	0.24	0.14	0.08	0.02	0.07	2.00

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CERTIFICATE OF ANALYSIS KL16210391

Sample Description	Method Analyte Units LOR	TOT-ICP06
		Total % 0.01
462213		100.86
462222		99.21
462224		98.70
462226		101.81
462246		101.08
462267		100.80
462288		100.56
462297		99.88
462306		101.58

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Project: SGM2016-16

CERTIFICATE OF ANALYSIS KL16210391

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02
TOT-ICP06

ME-ICP06

ME-MS81

OA-GRA05



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CERTIFICATE KL16202794

Project: SGM2016-17

P.O. No.: SO218733

This report is for 64 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 21-NOV-2016.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Mo-OG46	Ore Grade Mo - Aqua Regia	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

To: **GIBRALTAR MINES LTD.**
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Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
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Project: SGM2016-17

CERTIFICATE OF ANALYSIS KL16202794

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
462308		3.74	0.04	0.72	0.2	<0.2	<10	40	0.08	0.08	1.12	0.02	10.50	3.0	6	0.06
462309		4.04	2.82	0.41	2.2	<0.2	<10	60	0.08	0.69	1.03	0.57	13.65	5.0	8	0.06
462310		<0.02	0.28	1.02	70.2	0.4	10	90	4.56	4.06	0.09	0.04	82.1	75.5	23	0.87
462311		3.99	0.68	0.39	0.5	<0.2	<10	60	0.07	0.33	0.63	0.20	11.45	9.1	9	0.07
462312		3.54	0.21	0.53	0.2	<0.2	<10	40	0.07	0.11	0.92	0.07	5.20	13.5	6	0.06
462313		3.00	0.38	0.48	0.3	<0.2	<10	50	0.08	0.14	1.05	0.09	5.73	4.9	7	0.06
462314		3.22	0.07	0.45	0.1	<0.2	<10	40	0.09	0.06	1.24	0.05	5.46	5.2	7	0.06
462315		3.37	0.40	0.36	0.1	<0.2	<10	50	0.06	0.19	0.91	0.06	7.57	7.3	6	0.06
462316		3.98	0.36	0.24	0.6	<0.2	<10	50	0.06	0.19	0.36	0.16	15.10	14.1	7	0.07
462317		4.29	0.36	0.24	0.4	<0.2	<10	60	0.06	0.15	0.62	0.14	8.40	3.3	8	0.06
462318		4.51	0.37	0.24	0.5	<0.2	<10	50	0.05	0.12	0.44	0.16	10.90	23.9	8	0.06
462319		4.18	0.22	0.25	0.3	<0.2	<10	60	0.06	0.10	0.15	0.05	15.35	14.7	6	0.07
462320		<0.02	0.23	0.24	0.3	<0.2	<10	50	0.05	0.10	0.15	0.06	15.75	14.9	9	0.07
462321		4.01	0.22	0.27	0.4	<0.2	<10	50	0.05	0.16	0.07	0.12	13.85	9.7	7	0.07
462322		4.30	0.18	0.27	0.4	<0.2	<10	50	0.05	0.10	0.06	0.03	13.10	35.6	7	0.05
462323		8.24	0.19	0.25	0.3	<0.2	<10	60	<0.05	0.08	0.22	0.09	11.25	11.2	8	0.06
462324		7.89	0.09	0.23	0.3	<0.2	<10	50	0.05	0.08	0.30	0.06	10.95	7.3	8	0.05
462325		8.74	0.31	0.26	0.4	<0.2	<10	70	0.05	0.05	0.16	0.24	7.22	2.6	9	0.05
462326		7.62	0.27	0.27	0.2	<0.2	<10	70	0.07	0.03	0.28	0.25	5.42	1.5	11	0.08
462327		8.31	0.42	0.26	0.5	<0.2	<10	60	0.05	0.07	0.11	0.21	10.50	12.5	8	0.05
462328		8.47	0.11	0.21	0.1	<0.2	<10	60	0.05	0.03	0.64	0.04	4.15	1.8	10	<0.05
462329		8.36	0.50	0.24	0.3	<0.2	<10	60	<0.05	0.11	0.17	0.15	11.60	4.7	9	0.06
462330		0.04	0.89	1.48	5.6	<0.2	10	120	0.25	0.18	0.88	0.32	12.20	10.3	27	0.40
462331		8.22	0.73	0.31	0.5	<0.2	<10	60	0.05	0.23	0.55	0.40	25.0	12.2	8	0.08
462332		5.25	0.34	0.30	0.4	<0.2	<10	50	0.06	0.15	0.10	0.11	25.3	12.6	10	0.07
462333		4.45	0.31	0.26	0.2	<0.2	<10	50	0.05	0.10	0.38	0.12	8.60	3.0	11	<0.05
462334		2.77	0.14	2.99	0.5	<0.2	<10	30	0.30	0.02	2.50	0.06	6.18	26.3	470	1.01
462335		4.39	0.05	1.77	0.5	<0.2	<10	80	0.23	0.05	1.71	0.05	12.65	14.2	168	0.56
462336		8.93	0.53	0.25	0.3	<0.2	<10	50	0.06	0.14	0.32	0.27	15.20	6.5	9	0.07
462337		8.40	0.40	0.26	0.2	<0.2	<10	80	0.06	0.14	1.55	0.05	14.10	3.5	7	0.11
462338		7.86	0.23	0.25	0.1	<0.2	<10	50	0.05	0.06	1.33	0.04	9.87	1.9	7	<0.05
462339		7.94	0.33	0.31	0.1	<0.2	<10	50	<0.05	0.05	0.54	0.02	5.99	2.6	7	0.05
462340		<0.02	0.32	0.33	0.1	<0.2	<10	60	<0.05	0.05	0.54	0.01	6.11	2.5	10	0.05
462341		8.14	0.07	0.46	0.2	<0.2	<10	50	0.07	0.02	1.03	0.01	9.64	1.7	9	0.05
462342		7.20	0.04	0.55	0.2	<0.2	<10	40	0.06	0.01	0.38	<0.01	5.20	2.6	8	<0.05
462343		7.42	0.02	0.52	0.1	<0.2	<10	50	0.07	0.01	0.35	<0.01	5.52	2.3	9	<0.05
462344		7.88	0.13	0.45	0.1	<0.2	<10	80	0.05	0.01	0.56	0.02	5.24	1.4	10	<0.05
462345		7.42	0.02	0.63	0.2	<0.2	<10	60	0.06	0.01	0.46	<0.01	4.11	2.5	9	<0.05
462346		8.23	0.01	0.66	0.2	<0.2	<10	60	0.07	0.01	0.46	<0.01	4.36	2.7	10	<0.05
462347		7.45	0.04	0.66	0.2	<0.2	<10	70	0.07	0.01	0.45	0.02	5.17	3.0	11	<0.05

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CERTIFICATE OF ANALYSIS KL16202794

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	
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
462308		78.1	1.45	2.29	<0.05	<0.02	<0.01	0.017	0.10	4.1	3.2	0.34	926	0.74	0.04	<0.05
462309		>10000	3.69	1.41	<0.05	<0.02	0.06	0.642	0.15	5.7	1.3	0.15	878	2.03	0.03	<0.05
462310		1430	3.65	3.05	0.11	0.49	0.01	0.215	0.52	41.4	2.9	0.12	288	2.90	0.02	<0.05
462311		2610	4.09	1.17	<0.05	<0.02	0.01	0.122	0.20	4.6	0.8	0.09	531	1.60	0.03	<0.05
462312		674	2.62	1.79	<0.05	<0.02	0.01	0.030	0.12	1.9	1.9	0.26	728	1.05	0.02	<0.05
462313		1435	2.07	1.51	<0.05	<0.02	0.02	0.052	0.16	2.1	1.3	0.20	843	0.66	0.02	<0.05
462314		219	1.40	1.43	<0.05	<0.02	0.01	0.012	0.12	2.0	1.5	0.20	815	0.74	0.02	<0.05
462315		1645	2.12	1.08	<0.05	<0.02	0.02	0.042	0.16	2.8	0.9	0.11	500	0.72	0.01	<0.05
462316		1085	2.54	0.76	<0.05	<0.02	0.02	0.048	0.17	6.4	0.2	0.01	211	0.69	0.01	<0.05
462317		1440	1.49	0.71	<0.05	<0.02	0.02	0.067	0.16	3.3	0.3	0.03	388	0.72	0.02	<0.05
462318		939	3.83	0.68	<0.05	<0.02	0.01	0.034	0.17	4.8	0.3	0.02	262	7.84	0.01	<0.05
462319		427	3.31	0.67	<0.05	<0.02	0.01	0.021	0.17	6.5	0.2	0.01	91	2.93	0.01	<0.05
462320		434	3.39	0.68	<0.05	<0.02	0.01	0.022	0.17	6.7	0.2	0.01	88	3.35	0.01	<0.05
462321		330	4.28	0.70	<0.05	<0.02	0.01	0.023	0.19	5.9	0.2	0.01	54	11.00	0.01	<0.05
462322		350	5.46	0.67	<0.05	<0.02	0.01	0.014	0.18	5.7	0.2	0.01	49	3.51	0.01	<0.05
462323		547	3.18	0.71	<0.05	<0.02	0.01	0.020	0.16	4.9	0.3	0.02	159	1.13	0.01	<0.05
462324		283	2.36	0.68	<0.05	<0.02	0.01	0.015	0.14	4.9	0.3	0.03	208	0.83	0.01	<0.05
462325		950	1.78	0.74	<0.05	<0.02	0.01	0.042	0.15	2.8	0.4	0.05	122	0.55	0.02	<0.05
462326		889	0.86	0.86	<0.05	<0.02	0.01	0.041	0.13	2.2	0.4	0.05	170	5.27	0.02	<0.05
462327		1230	3.26	0.75	<0.05	<0.02	<0.01	0.033	0.18	4.7	0.3	0.01	66	2.82	0.01	<0.05
462328		258	0.86	0.70	<0.05	<0.02	0.01	0.006	0.11	1.8	0.3	0.04	348	2.87	0.02	<0.05
462329		1375	2.10	0.74	<0.05	<0.02	0.01	0.048	0.17	5.2	0.4	0.02	103	1.28	0.01	<0.05
462330		3160	3.04	5.33	0.09	0.22	0.04	0.045	0.20	6.3	9.1	0.71	435	215	0.08	0.17
462331		1145	3.87	0.94	0.05	<0.02	0.01	0.050	0.20	9.5	0.3	0.02	197	2.83	0.01	<0.05
462332		373	4.09	0.89	<0.05	<0.02	0.01	0.016	0.21	11.5	0.2	0.01	45	1.06	<0.01	<0.05
462333		825	1.31	0.81	<0.05	<0.02	<0.01	0.025	0.15	3.5	0.5	0.05	236	1.49	0.02	<0.05
462334		405	3.16	5.82	0.12	0.10	0.01	0.010	0.30	2.3	11.2	3.56	1080	1.66	0.02	0.10
462335		154.0	2.47	3.79	<0.05	0.03	<0.01	0.016	0.22	5.5	7.7	1.84	707	1.56	0.01	<0.05
462336		2080	3.69	0.84	<0.05	<0.02	0.01	0.032	0.17	6.8	0.4	0.03	143	1.20	0.01	<0.05
462337		1695	2.67	0.73	<0.05	<0.02	<0.01	0.055	0.17	6.4	0.3	0.02	674	0.56	0.01	<0.05
462338		1195	1.21	0.80	<0.05	<0.02	0.01	0.023	0.11	4.6	0.8	0.07	618	0.47	0.02	<0.05
462339		1410	1.35	1.05	<0.05	<0.02	<0.01	0.029	0.11	2.5	1.2	0.12	315	0.71	0.02	<0.05
462340		1395	1.35	1.13	<0.05	<0.02	0.01	0.031	0.11	2.5	1.2	0.12	314	0.99	0.02	<0.05
462341		199.0	0.81	1.75	<0.05	<0.02	<0.01	0.013	0.05	4.5	1.7	0.20	428	0.63	0.03	<0.05
462342		103.0	0.82	1.75	<0.05	<0.02	<0.01	0.007	0.04	2.1	2.3	0.32	319	0.41	0.03	<0.05
462343		21.5	0.70	1.63	<0.05	<0.02	<0.01	0.005	0.04	2.2	2.0	0.28	269	0.75	0.03	0.08
462344		373	0.69	1.56	<0.05	<0.02	0.01	0.018	0.06	2.1	1.4	0.19	250	0.96	0.03	0.05
462345		22.7	0.88	1.97	<0.05	<0.02	<0.01	0.006	0.05	1.7	2.5	0.33	325	0.63	0.04	<0.05
462346		2.0	0.88	1.95	<0.05	<0.02	<0.01	0.005	0.04	1.7	2.4	0.34	310	0.77	0.03	0.07
462347		28.1	0.95	1.89	<0.05	<0.02	<0.01	0.008	0.05	2.0	2.4	0.34	334	0.80	0.03	0.07

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Page: 2 - C
Total # Pages: 3 (A - G)
Plus Appendix Pages
Finalized Date: 17-DEC-2016
Account: GIBMIN

Project: SGM2016-17

CERTIFICATE OF ANALYSIS KL16202794

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
462308		1.5	300	0.7	1.6	<0.001	0.19	<0.05	0.7	0.2	<0.2	23.3	<0.01	0.03	1.3
462309		2.3	330	0.8	2.2	0.001	3.40	0.11	0.5	0.9	1.1	20.1	<0.01	0.49	1.4
462310		34.1	570	13.6	24.8	0.002	0.04	1.31	4.9	3.3	0.5	22.0	<0.01	0.08	8.6
462311		1.8	330	0.7	2.7	<0.001	4.14	0.05	0.3	0.9	0.4	12.9	<0.01	0.46	1.3
462312		1.6	300	0.9	1.7	<0.001	2.00	0.05	0.5	0.5	<0.2	20.2	<0.01	0.10	0.7
462313		1.7	310	0.7	2.2	<0.001	1.52	0.05	0.5	0.4	<0.2	18.1	<0.01	0.13	1.0
462314		1.5	290	0.7	1.8	<0.001	0.68	<0.05	0.6	0.3	<0.2	21.5	<0.01	0.03	1.0
462315		1.3	280	0.8	2.3	<0.001	1.84	0.05	0.4	0.5	<0.2	13.7	<0.01	0.20	1.2
462316		1.1	150	0.7	2.4	<0.001	2.55	0.05	0.2	0.8	<0.2	7.2	<0.01	0.27	1.9
462317		0.9	150	0.9	2.4	<0.001	1.36	0.05	0.3	0.5	<0.2	11.4	<0.01	0.22	1.5
462318		1.1	160	1.0	2.3	<0.001	3.97	0.05	0.2	1.1	<0.2	8.2	<0.01	0.28	1.2
462319		1.0	100	0.6	2.2	<0.001	3.42	<0.05	0.2	0.8	<0.2	3.5	<0.01	0.21	1.8
462320		1.0	110	0.6	2.0	0.001	3.50	<0.05	0.2	1.1	<0.2	3.5	<0.01	0.22	1.9
462321		0.8	80	0.8	2.2	0.001	4.48	<0.05	0.2	1.2	<0.2	2.3	<0.01	0.30	1.9
462322		1.2	70	0.7	2.2	<0.001	6.17	<0.05	0.1	1.7	<0.2	2.0	<0.01	0.25	1.6
462323		1.1	150	0.6	2.1	<0.001	3.24	0.05	0.3	1.0	<0.2	7.4	<0.01	0.14	1.3
462324		0.9	150	0.6	1.8	<0.001	2.30	<0.05	0.4	0.7	<0.2	9.3	<0.01	0.12	1.2
462325		1.2	190	0.6	1.9	<0.001	1.65	0.05	0.2	0.4	<0.2	9.6	<0.01	0.12	1.2
462326		1.0	200	0.8	1.7	0.002	0.52	0.05	0.4	0.3	<0.2	15.4	<0.01	0.07	0.9
462327		1.1	180	0.6	2.1	0.001	3.32	<0.05	0.2	0.7	0.2	4.9	<0.01	0.17	1.3
462328		0.9	190	0.7	1.5	<0.001	0.53	<0.05	0.3	0.3	<0.2	16.8	<0.01	0.07	0.9
462329		1.3	220	0.6	2.3	<0.001	2.08	0.05	0.3	0.3	<0.2	7.5	<0.01	0.28	1.4
462330		21.7	640	7.9	9.0	0.232	0.45	2.09	4.8	1.5	1.0	42.2	<0.01	0.08	1.7
462331		1.1	1440	0.8	2.7	0.001	4.01	<0.05	0.3	1.3	<0.2	6.6	<0.01	0.33	1.7
462332		1.4	160	0.4	2.6	<0.001	4.22	<0.05	0.2	0.9	<0.2	3.2	<0.01	0.23	1.8
462333		1.1	180	0.4	2.3	<0.001	1.11	<0.05	0.3	0.5	<0.2	11.8	<0.01	0.14	1.3
462334		174.0	1620	0.8	12.6	0.001	0.10	0.07	2.6	0.4	0.2	97.7	<0.01	0.05	0.3
462335		83.9	910	0.8	6.6	<0.001	0.73	0.07	2.0	0.5	0.2	61.9	<0.01	0.10	1.0
462336		1.5	200	0.5	2.5	<0.001	3.79	<0.05	0.3	0.9	0.2	9.0	<0.01	0.23	1.5
462337		1.2	200	0.5	2.6	<0.001	2.76	<0.05	0.4	0.6	0.2	18.6	<0.01	0.18	1.7
462338		0.9	160	0.4	1.6	<0.001	0.92	<0.05	0.3	0.3	<0.2	22.2	<0.01	0.08	1.4
462339		1.1	180	0.4	1.5	<0.001	1.02	<0.05	0.3	0.3	<0.2	14.5	<0.01	0.09	1.1
462340		1.0	180	0.4	1.7	<0.001	1.01	<0.05	0.3	0.3	<0.2	14.9	<0.01	0.12	1.1
462341		1.1	190	1.1	0.7	<0.001	0.10	0.06	0.7	<0.2	<0.2	40.8	<0.01	0.01	1.0
462342		1.2	190	0.4	0.5	<0.001	0.06	0.05	0.5	0.2	<0.2	24.3	<0.01	0.01	0.8
462343		1.2	210	0.3	0.6	<0.001	0.01	0.05	0.5	0.2	<0.2	25.7	<0.01	0.01	0.8
462344		1.2	200	0.4	0.8	<0.001	0.13	0.06	0.6	0.2	<0.2	32.8	<0.01	0.02	0.6
462345		1.6	260	0.4	0.6	<0.001	0.01	0.06	0.8	0.3	<0.2	33.5	<0.01	0.01	0.5
462346		1.5	290	0.4	0.4	<0.001	<0.01	0.06	0.8	0.3	<0.2	32.8	<0.01	<0.01	0.6
462347		1.7	280	0.3	0.5	<0.001	0.05	0.06	0.7	0.2	<0.2	30.2	<0.01	0.02	0.6

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Page: 2 - D
Total # Pages: 3 (A - G)
Plus Appendix Pages
Finalized Date: 17-DEC-2016
Account: GIBMIN

Project: SGM2016-17

CERTIFICATE OF ANALYSIS KL16202794

Sample Description	Method Analyte Units LOR	ME-MS41 TI ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05
462308		<0.02	0.50	4	0.06	4.48	83	<0.5								
462309		0.02	4.71	2	0.07	9.10	234	<0.5	0.934							
462310		0.33	5.82	21	1.06	19.35	19	23.8			0.378					
462311		0.02	1.47	2	0.06	4.83	90	<0.5	0.238							
462312		<0.02	0.89	3	0.06	4.52	78	<0.5								
462313		<0.02	1.11	2	<0.05	6.41	91	<0.5								
462314		<0.02	0.83	2	<0.05	7.20	65	<0.5								
462315		<0.02	0.63	1	0.05	6.01	48	<0.5	0.165							
462316		<0.02	0.68	1	0.05	5.83	50	<0.5								
462317		<0.02	0.43	1	<0.05	4.14	81	<0.5								
462318		<0.02	0.44	1	0.05	4.32	31	<0.5								
462319		<0.02	0.79	1	0.09	4.48	7	<0.5								
462320		<0.02	0.96	1	0.09	4.82	6	<0.5								
462321		<0.02	0.65	1	0.13	3.81	18	<0.5								
462322		<0.02	0.98	1	0.10	3.63	5	<0.5				904	14.7	20	0.47	1.09
462323		<0.02	0.80	1	<0.05	5.41	31	<0.5								
462324		<0.02	1.04	1	<0.05	6.41	43	<0.5								
462325		<0.02	0.49	1	<0.05	3.66	114	<0.5								
462326		<0.02	0.21	1	<0.05	3.58	99	<0.5								
462327		<0.02	0.50	1	<0.05	5.07	18	<0.5								
462328		<0.02	0.22	1	<0.05	3.51	13	<0.5								
462329		<0.02	0.42	1	<0.05	4.40	40	<0.5								
462330		0.09	0.34	59	13.55	7.46	56	5.8	0.308	0.027						
462331		<0.02	0.75	1	0.13	24.9	62	<0.5								
462332		<0.02	0.72	1	0.15	6.83	6	<0.5								
462333		<0.02	0.31	1	<0.05	4.65	19	<0.5								
462334		0.09	0.12	55	0.08	3.96	172	3.0				67.6	39.1	830	0.98	4.69
462335		0.05	0.42	23	<0.05	6.75	123	0.8								
462336		<0.02	1.09	1	0.07	5.96	28	<0.5	0.195							
462337		<0.02	0.93	1	0.06	4.57	12	<0.5	0.162							
462338		<0.02	0.17	1	<0.05	3.69	20	<0.5								
462339		<0.02	0.18	1	<0.05	2.35	18	<0.5								
462340		<0.02	0.18	1	0.05	2.37	18	<0.5								
462341		<0.02	0.17	4	<0.05	4.07	23	<0.5								
462342		<0.02	0.09	3	<0.05	2.80	33	<0.5								
462343		<0.02	0.10	3	<0.05	2.76	29	<0.5								
462344		<0.02	0.07	3	<0.05	2.90	23	<0.5								
462345		<0.02	0.07	4	<0.05	3.34	38	<0.5								
462346		<0.02	0.09	4	<0.05	3.61	38	<0.5				1010	18.8	40	0.15	1.69
462347		<0.02	0.10	4	<0.05	3.88	49	<0.5								

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Page: 2 - E
 Total # Pages: 3 (A - G)
 Plus Appendix Pages
 Finalized Date: 17 - DEC - 2016
 Account: GIBMIN

Project: SGM2016-17

CERTIFICATE OF ANALYSIS KL16202794

Sample Description	Method Analyte Units LOR	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1
462308 462309 462310 462311 462312																
462313 462314 462315 462316 462317																
462318 462319 462320 462321 462322		0.62	0.22	15.4	1.16	2.1	0.21	6.5	0.16	2.4	6.9	1.93	42.5	1.52	2	18.1
462323 462324 462325 462326 462327																
462328 462329 462330 462331 462332																
462333 462334 462335 462336 462337		2.15	1.96	15.3	6.70	6.6	0.95	16.6	0.28	9.1	25.4	5.86	12.5	6.40	2	488
462338 462339 462340 462341 462342																
462343 462344 462345 462346 462347		1.05	0.47	16.6	1.87	2.1	0.40	8.4	0.20	1.7	10.3	2.53	7.3	2.28	<1	396

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Page: 2 - F
Total # Pages: 3 (A - G)
Plus Appendix Pages
Finalized Date: 17 - DEC - 2016
Account: GIBMIN

Project: SGM2016-17

CERTIFICATE OF ANALYSIS KL16202794

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Ta	Tb	Th	Tl	Tm	U	V	W	Y	Yb	Zr	SiO2	Al2O3	Fe2O3	CaO
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%
462308		0.1	0.01	0.05	0.5	0.01	0.05	5	1	0.5	0.03	2	0.01	0.01	0.01	0.01
462309																
462310																
462311																
462312																
462313																
462314																
462315																
462316																
462317																
462318																
462319																
462320																
462321																
462322		0.2	0.19	1.67	<0.5	0.10	1.19	17	4	5.4	0.94	42	69.0	12.50	8.20	0.09
462323																
462324																
462325																
462326																
462327																
462328																
462329																
462330																
462331																
462332																
462333		0.4	0.99	1.68	<0.5	0.32	1.12	205	<1	23.0	1.96	260	45.8	13.15	9.14	10.05
462334																
462335																
462336																
462337																
462338																
462339																
462340																
462341																
462342																
462343																
462344																
462345																
462346		0.1	0.27	1.10	<0.5	0.16	0.42	29	<1	10.2	1.34	57	72.4	14.20	2.36	3.44
462347																

Comments: ***Corrected copy with "TI" reported from ME-MS81***

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Page: 2 - G
 Total # Pages: 3 (A - G)
 Plus Appendix Pages
 Finalized Date: 17 - DEC - 2016
 Account: GIBMIN

Project: SGM2016-17

CERTIFICATE OF ANALYSIS KL16202794

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	K2O	SrO	BaO	LOI
		%	%	%	%	%	%	%	%	%	%	Total
462308		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
462309												
462310												
462311												
462312												
462313												
462314												
462315												
462316												
462317												
462318												
462319												
462320												
462321												
462322		0.35	0.43	3.79	<0.01	0.11	0.01	0.01	<0.01	0.10	5.46	100.05
462323												
462324												
462325												
462326												
462327												
462328												
462329												
462330												
462331												
462332												
462333		11.00	1.55	0.47	0.12	1.03	0.27	0.36	0.06	0.01	5.78	98.79
462334												
462335												
462336												
462337												
462338												
462339												
462340												
462341												
462342												
462343												
462344												
462345												
462346		0.74	4.35	0.70	0.01	0.21	0.09	0.06	0.05	0.11	1.74	100.46
462347												

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Page: 3 - A
 Total # Pages: 3 (A - G)
 Plus Appendix Pages
 Finalized Date: 17-DEC-2016
 Account: GIBMIN

Project: SGM2016-17

CERTIFICATE OF ANALYSIS KL16202794

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
462348		7.16	0.13	0.69	0.2	<0.2	<10	90	0.09	0.02	0.51	0.02	3.68	2.5	12	<0.05
462349		7.59	0.03	0.73	0.2	<0.2	<10	70	0.08	0.01	0.49	0.01	3.85	2.9	12	0.06
462350		0.04	0.63	1.78	6.0	0.4	10	110	0.23	0.11	0.90	0.14	9.68	11.0	33	0.43
462351		7.25	0.02	0.80	0.3	<0.2	<10	50	0.08	0.01	0.47	0.01	4.64	2.9	11	<0.05
462352		7.70	0.04	0.70	0.2	<0.2	<10	40	0.09	0.02	0.65	0.02	3.24	3.4	11	0.05
462353		7.94	0.03	0.69	0.1	<0.2	<10	50	0.08	0.02	0.80	<0.01	3.47	3.9	10	0.06
462354		6.93	0.02	0.76	0.1	<0.2	<10	40	0.07	0.01	0.46	<0.01	5.50	3.0	9	<0.05
462355		7.60	0.02	0.72	0.2	<0.2	<10	50	0.07	0.02	0.59	0.01	5.30	2.8	9	<0.05
462356		7.72	0.04	0.69	0.1	<0.2	<10	50	0.07	0.03	0.71	0.01	5.12	2.6	10	0.06
462357		7.67	0.65	0.63	0.2	<0.2	<10	60	0.05	0.06	0.61	0.07	3.94	3.7	10	0.06
462358		1.31	0.05	0.26	0.1	<0.2	<10	30	0.41	0.29	0.33	0.04	104.0	0.7	8	0.44
462359		7.63	0.19	0.71	0.2	<0.2	<10	40	0.12	0.05	1.67	0.04	7.63	2.4	13	0.33
462360		<0.02	0.22	0.71	0.3	<0.2	<10	40	0.11	0.05	1.63	0.03	7.54	2.3	16	0.32
462361		6.87	0.01	0.84	0.3	<0.2	<10	40	0.09	0.03	2.12	0.01	11.70	2.7	9	0.19
462362		7.85	0.01	0.77	0.1	<0.2	<10	40	0.08	0.01	1.46	0.01	9.87	3.0	9	0.39
462363		7.45	0.03	0.78	0.1	<0.2	<10	50	0.06	0.03	1.21	0.04	7.31	3.2	10	0.08
462364		7.90	1.12	0.89	0.2	<0.2	<10	60	0.10	0.18	0.88	0.18	5.75	13.1	8	0.13
462365		7.87	0.01	0.80	0.2	<0.2	<10	40	0.05	0.02	0.58	0.01	9.70	2.9	8	0.05
462366		8.53	0.01	0.85	0.2	<0.2	<10	50	0.07	0.01	0.78	0.01	11.65	3.2	9	0.06
462367		7.78	0.01	0.79	0.2	<0.2	<10	50	0.07	0.01	1.00	0.01	6.43	3.4	9	0.07
462368		8.51	0.13	0.81	0.1	<0.2	<10	30	0.09	0.06	2.81	0.08	9.14	4.4	9	0.10
462369		8.62	0.21	0.87	0.1	<0.2	<10	30	0.06	0.08	1.50	0.03	7.94	4.4	7	0.10
462371		8.22	0.04	0.91	0.1	<0.2	<10	20	0.09	0.02	2.12	0.02	10.05	3.5	8	0.12
462372		7.91	0.13	0.94	0.1	<0.2	<10	30	0.08	0.05	1.11	0.01	6.13	4.7	8	0.17

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Page: 3 - B
Total # Pages: 3 (A - G)
Plus Appendix Pages
Finalized Date: 17-DEC-2016
Account: GIBMIN

Project: SGM2016-17

CERTIFICATE OF ANALYSIS KL16202794

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
462348		196.0	0.89	1.90	<0.05	<0.02	0.01	0.022	0.04	1.4	2.9	0.37	371	1.39	0.04
462349		29.6	0.95	2.00	<0.05	<0.02	<0.01	0.015	0.03	1.4	3.0	0.35	322	1.13	0.04
462350		4830	3.77	5.48	0.08	0.22	0.03	0.051	0.15	4.7	10.8	0.80	467	205	0.10
462351		18.4	0.99	2.36	<0.05	<0.02	<0.01	0.011	0.05	1.7	3.6	0.50	423	1.06	0.04
462352		48.3	1.15	1.92	<0.05	<0.02	<0.01	0.017	0.05	1.3	3.2	0.42	478	0.88	0.04
462353		21.8	1.05	1.93	<0.05	<0.02	<0.01	0.026	0.05	1.4	3.1	0.37	466	0.96	0.04
462354		20.8	0.98	2.29	<0.05	<0.02	<0.01	0.011	0.05	2.0	3.7	0.45	381	0.59	0.04
462355		28.1	1.00	2.26	<0.05	<0.02	0.01	0.015	0.05	1.9	3.4	0.40	408	0.77	0.03
462356		76.1	0.94	2.13	<0.05	<0.02	<0.01	0.019	0.06	1.8	3.1	0.35	421	0.84	0.04
462357		1530	1.73	1.94	<0.05	<0.02	<0.01	0.038	0.09	1.5	2.7	0.34	430	0.97	0.03
462358		2.5	1.10	2.17	0.07	0.19	<0.01	0.020	0.15	58.8	6.7	0.09	268	2.44	0.04
462359		434	1.19	2.60	<0.05	<0.02	<0.01	0.034	0.05	3.0	2.9	0.35	570	1.14	0.04
462360		425	1.18	2.59	<0.05	<0.02	<0.01	0.034	0.05	3.0	2.9	0.34	550	1.23	0.04
462361		10.0	1.21	2.85	<0.05	<0.02	<0.01	0.023	0.05	5.3	3.2	0.53	716	0.60	0.04
462362		1.6	1.24	2.77	<0.05	<0.02	<0.01	0.012	0.06	4.1	2.9	0.43	566	0.61	0.04
462363		20.8	1.33	2.65	<0.05	<0.02	0.01	0.026	0.07	2.7	3.1	0.42	706	0.72	0.03
462364		1575	3.77	2.66	<0.05	<0.02	0.01	0.128	0.11	2.2	3.3	0.40	839	2.31	0.02
462365		6.5	1.18	2.84	<0.05	<0.02	<0.01	0.019	0.05	3.8	3.5	0.44	360	0.55	0.04
462366		1.8	1.19	2.86	<0.05	<0.02	<0.01	0.015	0.05	5.2	3.7	0.47	439	0.63	0.04
462367		3.8	1.13	2.75	<0.05	<0.02	<0.01	0.006	0.05	2.5	3.1	0.41	453	0.69	0.03
462368		171.5	1.70	2.68	<0.05	<0.02	<0.01	0.045	0.05	3.6	3.1	0.45	1000	1.68	0.04
462369		226	1.64	3.14	<0.05	<0.02	<0.01	0.033	0.05	3.1	3.8	0.49	732	1.35	0.04
462371		66.1	1.66	3.16	<0.05	<0.02	<0.01	0.023	0.05	4.3	4.0	0.48	1200	0.70	0.05
462372		335	1.93	3.17	<0.05	<0.02	<0.01	0.037	0.07	2.3	4.3	0.50	943	1.30	0.04

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Page: 3 - C
Total # Pages: 3 (A - G)
Plus Appendix Pages
Finalized Date: 17-DEC-2016
Account: GIBMIN

Project: SGM2016-17

CERTIFICATE OF ANALYSIS KL16202794

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
462348		4.3	270	2.9	0.5	0.001	0.14	0.07	0.7	<0.2	<0.2	37.5	<0.01	0.03	0.6
462349		1.8	280	0.8	0.4	<0.001	0.10	0.07	0.8	0.4	<0.2	55.1	<0.01	0.01	0.5
462350		31.7	600	4.1	5.1	0.111	0.65	0.75	5.7	1.1	1.4	42.6	<0.01	0.06	0.9
462351		1.8	310	0.6	0.6	<0.001	0.02	0.05	0.9	0.3	<0.2	38.2	<0.01	0.01	0.6
462352		1.8	310	0.6	0.7	<0.001	0.40	0.06	0.8	0.3	<0.2	35.2	<0.01	0.02	0.5
462353		1.6	310	0.7	0.7	<0.001	0.31	0.07	1.0	<0.2	<0.2	56.6	<0.01	0.03	0.6
462354		1.7	300	0.6	0.6	<0.001	0.02	0.06	0.8	<0.2	<0.2	35.9	<0.01	<0.01	0.7
462355		1.7	310	0.7	0.7	<0.001	0.08	0.07	1.0	0.4	<0.2	49.0	<0.01	<0.01	0.6
462356		1.6	310	0.9	0.7	<0.001	0.07	0.07	0.9	0.2	<0.2	36.4	<0.01	0.01	0.6
462357		1.7	320	0.6	1.1	<0.001	1.01	<0.05	0.7	0.2	<0.2	36.2	<0.01	0.12	0.5
462358		0.9	140	5.7	8.3	<0.001	<0.01	<0.05	0.8	0.4	0.5	12.4	<0.01	<0.01	27.2
462359		1.4	280	1.5	0.8	<0.001	0.11	0.09	1.7	0.5	<0.2	80.8	<0.01	0.04	0.6
462360		1.6	260	1.5	0.8	<0.001	0.11	0.10	1.7	0.3	<0.2	79.5	<0.01	0.03	0.6
462361		1.5	300	1.7	0.7	<0.001	0.03	0.12	2.1	0.2	<0.2	140.0	<0.01	0.01	0.7
462362		1.7	300	1.6	0.8	<0.001	0.02	0.08	1.9	0.2	<0.2	80.6	<0.01	<0.01	0.8
462363		1.8	300	1.0	0.9	<0.001	0.05	0.05	1.4	0.3	<0.2	44.2	<0.01	0.03	0.7
462364		2.0	340	0.7	1.7	<0.001	2.55	<0.05	1.1	0.3	0.2	49.8	<0.01	0.16	0.7
462365		1.8	300	1.0	0.7	<0.001	<0.01	0.07	1.1	0.2	<0.2	30.8	<0.01	<0.01	0.7
462366		1.8	320	1.1	0.7	<0.001	<0.01	0.11	1.6	0.5	<0.2	86.1	<0.01	<0.01	0.7
462367		1.9	330	1.1	0.7	<0.001	<0.01	0.06	1.5	0.3	<0.2	98.7	<0.01	0.01	0.5
462368		3.1	350	1.0	0.8	<0.001	0.19	<0.05	1.6	0.2	<0.2	103.0	<0.01	0.05	0.6
462369		2.0	370	0.9	0.8	0.001	0.27	0.08	1.3	0.2	<0.2	42.5	<0.01	0.07	0.6
462371		1.9	380	1.4	0.7	<0.001	0.01	0.08	1.9	0.3	<0.2	67.9	<0.01	0.01	0.7
462372		2.0	350	0.8	1.2	<0.001	0.46	<0.05	1.5	0.2	<0.2	49.6	<0.01	0.03	0.6

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Page: 3 - D
 Total # Pages: 3 (A - G)
 Plus Appendix Pages
 Finalized Date: 17-DEC-2016
 Account: GIBMIN

Project: SGM2016-17

CERTIFICATE OF ANALYSIS KL16202794

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05
462348		<0.02	0.07	4	<0.05	3.44	40	<0.5								
462349		<0.02	0.08	5	<0.05	4.80	40	<0.5								
462350		0.06	0.27	65	0.31	7.65	49	6.7	0.464	0.024	0.553					
462351		<0.02	0.17	5	<0.05	4.53	60	<0.5								
462352		<0.02	0.15	4	<0.05	3.07	40	<0.5								
462353		<0.02	0.16	5	<0.05	4.20	32	<0.5								
462354		<0.02	0.13	5	<0.05	3.34	36	<0.5				530	16.5	20	0.19	1.47
462355		<0.02	0.20	5	<0.05	4.53	34	<0.5								
462356		<0.02	0.11	5	<0.05	3.44	34	<0.5								
462357		<0.02	0.20	3	<0.05	3.29	40	<0.5	0.150							
462358		0.04	3.06	9	0.22	13.70	20	4.6								
462359		<0.02	0.41	8	<0.05	7.25	34	<0.5								
462360		<0.02	0.39	8	<0.05	6.91	34	<0.5								
462361		<0.02	0.70	10	<0.05	9.69	43	<0.5								
462362		<0.02	0.22	10	<0.05	7.93	45	<0.5								
462363		<0.02	0.18	7	<0.05	5.62	82	<0.5								
462364		<0.02	0.34	4	0.06	5.17	146	<0.5	0.146							
462365		<0.02	0.14	7	<0.05	2.91	57	<0.5								
462366		<0.02	0.25	9	<0.05	5.52	42	<0.5								
462367		<0.02	0.21	8	<0.05	5.61	46	<0.5								
462368		<0.02	0.54	6	<0.05	6.38	69	<0.5								
462369		<0.02	0.13	8	<0.05	3.99	56	<0.5								
462371		<0.02	0.43	10	<0.05	8.87	67	<0.5								
462372		<0.02	0.27	6	<0.05	4.64	64	<0.5								

Comments: ***Corrected copy with "Ti" reported from ME-MS81***

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Page: 3 - E
 Total # Pages: 3 (A - G)
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Project: SGM2016-17

CERTIFICATE OF ANALYSIS KL16202794

Sample Description	Method Analyte Units LOR	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1
462348 462349 462350 462351 462352																
462353 462354 462355 462356 462357		0.97	0.47	16.1	1.84	2.1	0.32	7.5	0.19	1.9	9.0	2.25	9.0	2.03	<1	328
462358 462359 462360 462361 462362																
462363 462364 462365 462366 462367																
462368 462369 462371 462372																

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Page: 3 - F
 Total # Pages: 3 (A - G)
 Plus Appendix Pages
 Finalized Date: 17-DEC-2016
 Account: GIBMIN

Project: SGM2016-17

CERTIFICATE OF ANALYSIS KL16202794

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Ta	Tb	Th	Tl	Tm	U	V	W	Y	Yb	Zr	SiO2	Al2O3	Fe2O3	CaO
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%
		0.1	0.01	0.05	0.5	0.01	0.05	5	1	0.5	0.03	2	0.01	0.01	0.01	0.01
462348 462349 462350 462351 462352																
462353 462354 462355 462356 462357		0.1	0.26	1.08	<0.5	0.15	0.52	29	<1	8.7	1.20	58	72.7	14.50	2.43	2.69
462358 462359 462360 462361 462362																
462363 462364 462365 462366 462367																
462368 462369 462371 462372																

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Page: 3 - G
 Total # Pages: 3 (A - G)
 Plus Appendix Pages
 Finalized Date: 17-DEC-2016
 Account: GIBMIN

Project: SGM2016-17

CERTIFICATE OF ANALYSIS KL16202794

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%
462348		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
462349												
462350												
462351												
462352												
462353		0.94	4.64	0.77	<0.01	0.21	0.09	0.06	0.04	0.06	1.43	100.56
462354												
462355												
462356												
462357												
462358												
462359												
462360												
462361												
462362												
462363												
462364												
462365												
462366												
462367												
462368												
462369												
462371												
462372												

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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 17-DEC-2016
Account: GIBMIN

Project: SGM2016-17

CERTIFICATE OF ANALYSIS KL16202794

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.

CRU - 31	CRU - QC	LOG - 21d	LOG - 22
LOG - 23	PUL - 31	PUL - 31d	PUL - QC
SPL - 21	SPL - 21d	WEI - 21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au - AA23	Cu - OG46	ME - ICP06	ME - MS41
ME - MS81	ME - OG46	Mo - OG46	OA - GRA05
TOT - ICP06			



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Page: 1
Total # Pages: 4 (A - G)
Plus Appendix Pages
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16-MAR-2017
Account: GIBMIN

CERTIFICATE KL16207808

Project: SGM2016-19

P.O. No.: SO218733

This report is for 100 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 28-NOV-2016.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Mo-OG46	Ore Grade Mo - Aqua Regia	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

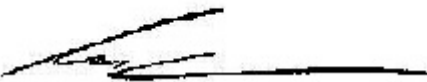
To: **GIBRALTAR MINES LTD.**
ATTN: ALS MINERALS

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.

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Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 20-DEC-2016
Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207808

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
462373		7.23	0.53	0.88	0.5	<0.2	<10	70	0.06	0.25	0.87	0.02	4.82	10.1	6	0.11
462374		7.85	0.11	0.75	0.4	<0.2	<10	50	0.07	0.16	1.15	0.01	9.08	11.1	7	0.19
462375		7.32	0.01	0.82	0.4	<0.2	<10	40	0.08	0.02	1.39	<0.01	7.74	5.8	6	0.10
462376		7.45	0.01	0.88	0.3	<0.2	<10	50	0.06	0.02	1.26	0.01	7.96	4.1	7	0.11
462377		7.79	0.01	0.81	0.2	<0.2	<10	40	0.07	0.02	0.85	<0.01	8.46	4.0	7	0.12
462378		7.65	0.01	0.80	0.3	<0.2	<10	40	0.07	0.02	1.33	0.01	6.87	4.5	4	0.16
462379		7.37	0.01	0.74	0.2	<0.2	<10	50	0.05	0.02	0.95	0.01	6.50	6.5	7	0.11
462380		<0.02	0.01	0.76	0.3	<0.2	<10	50	0.05	0.02	0.97	0.01	6.61	6.6	10	0.11
462381		7.78	0.01	0.81	0.2	<0.2	<10	50	0.07	0.04	1.06	0.01	6.95	11.1	6	0.10
462382		8.24	0.01	0.95	0.4	<0.2	<10	30	0.06	0.01	1.04	0.01	7.92	4.3	5	0.15
462383		7.46	<0.01	0.93	0.4	<0.2	<10	30	0.07	0.02	1.54	0.01	8.58	3.8	6	0.13
462384		7.69	<0.01	0.79	0.1	<0.2	<10	30	0.05	0.01	1.52	0.01	10.40	4.3	5	0.14
462385		7.43	<0.01	0.66	0.1	<0.2	<10	50	0.07	0.01	1.10	<0.01	8.47	3.7	7	0.16
462386		7.16	0.02	0.73	0.3	<0.2	<10	50	0.06	0.01	0.80	0.01	8.05	4.5	7	0.14
462387		7.68	0.01	0.76	0.2	<0.2	<10	40	<0.05	0.01	1.23	0.01	8.10	4.1	7	0.20
462388		7.77	0.02	0.85	0.1	<0.2	<10	50	0.07	0.01	1.55	0.01	11.55	4.6	6	0.29
462389		7.15	0.02	0.87	0.2	<0.2	<10	50	0.12	0.02	1.74	0.01	10.75	4.8	7	0.34
462390		0.04	0.47	2.10	16.5	<0.2	10	90	0.28	0.48	1.17	0.21	10.65	53.2	267	1.52
462391		7.76	1.62	0.63	0.1	<0.2	<10	50	0.07	0.34	1.68	0.05	12.25	5.4	6	0.17
462392		6.47	0.31	0.58	<0.1	<0.2	<10	90	0.14	0.14	2.78	0.03	11.35	3.7	5	0.35
462393		6.43	0.08	1.03	0.1	<0.2	<10	30	0.07	0.02	0.84	0.01	7.88	3.9	7	0.35
462394		7.74	0.29	0.94	0.2	<0.2	<10	30	0.08	0.03	1.00	0.01	7.40	3.4	6	0.24
462395		6.60	0.04	1.01	0.1	<0.2	<10	30	0.07	0.02	1.35	0.01	9.54	3.8	6	0.19
462396		6.94	0.01	0.98	<0.1	<0.2	<10	40	0.06	0.03	1.12	<0.01	7.88	3.7	6	0.12
462397		5.99	0.06	0.94	0.1	<0.2	<10	60	0.11	0.14	1.84	0.01	12.55	4.5	5	0.20
462398		6.31	0.14	1.07	0.1	<0.2	<10	40	0.09	0.05	1.79	0.02	9.80	4.3	6	0.26
462399		8.03	0.01	0.94	0.2	<0.2	<10	40	0.08	0.01	1.07	0.01	6.34	4.9	7	0.11
462400		<0.02	0.02	0.97	<0.1	<0.2	<10	40	0.06	0.01	1.09	<0.01	6.98	5.3	10	0.12
462401		7.70	0.01	0.96	0.2	<0.2	<10	50	0.08	0.01	1.27	0.01	6.69	5.4	7	0.08
462402		8.18	0.03	1.00	0.1	<0.2	<10	50	0.07	0.03	1.12	0.01	6.06	5.6	7	0.09
462403		7.94	0.17	1.07	0.6	<0.2	<10	40	0.07	0.03	1.43	<0.01	7.60	5.4	6	0.11
462404		7.77	0.05	0.92	0.1	<0.2	<10	50	0.07	0.05	1.33	0.01	8.60	10.8	6	0.22
462405		7.57	0.01	0.99	0.1	<0.2	<10	50	0.07	0.01	1.16	<0.01	5.89	5.1	6	0.11
462406		7.69	0.02	0.63	0.1	<0.2	<10	60	0.09	0.02	2.03	0.03	13.35	4.7	6	0.17
462407		7.13	0.76	0.50	0.1	<0.2	<10	80	0.10	0.09	1.82	0.07	13.75	4.7	5	0.16
462408		6.93	0.12	0.91	<0.1	<0.2	<10	70	0.06	0.05	1.37	0.02	11.50	5.3	5	0.24
462409		7.12	0.03	0.60	0.1	<0.2	<10	50	0.05	0.02	0.74	0.01	6.62	3.6	7	0.14
462410		0.04	0.85	1.54	6.0	<0.2	10	120	0.28	0.19	0.95	0.40	13.90	12.2	29	0.48
462411		7.22	0.10	0.79	0.3	<0.2	<10	50	0.08	0.03	1.18	0.03	7.48	4.2	7	0.15
462412		7.22	0.14	0.64	0.6	<0.2	<10	60	0.13	0.02	1.37	0.02	9.56	3.5	6	0.13

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Page: 2 - B
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CERTIFICATE OF ANALYSIS KL16207808

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
462373		739	3.04	2.81	<0.05	<0.02	<0.01	0.060	0.12	1.8	4.3	0.48	968	1.51	0.04
462374		109.5	2.64	2.70	<0.05	<0.02	<0.01	0.036	0.08	4.0	3.6	0.44	541	0.81	0.05
462375		1.0	1.13	2.95	<0.05	<0.02	<0.01	0.022	0.04	3.4	3.4	0.41	389	0.95	0.05
462376		1.4	1.17	2.95	<0.05	0.02	<0.01	0.017	0.04	3.2	3.5	0.44	431	0.58	0.05
462377		2.2	1.07	2.90	<0.05	0.02	<0.01	0.022	0.04	3.5	3.2	0.40	386	0.85	0.05
462378		2.6	1.06	2.61	<0.05	0.02	<0.01	0.033	0.04	2.6	3.1	0.40	469	0.58	0.05
462379		8.3	1.19	2.44	<0.05	<0.02	<0.01	0.018	0.05	2.5	2.9	0.38	405	0.57	0.05
462380		9.7	1.23	2.56	<0.05	0.02	<0.01	0.019	0.05	2.4	2.8	0.40	420	0.74	0.05
462381		12.2	1.52	2.82	<0.05	<0.02	<0.01	0.040	0.06	2.8	3.3	0.50	629	0.69	0.05
462382		6.6	1.39	3.53	<0.05	<0.02	<0.01	0.027	0.05	3.3	4.0	0.54	557	0.46	0.06
462383		4.2	1.31	3.30	<0.05	<0.02	<0.01	0.037	0.05	3.7	4.1	0.57	636	0.60	0.06
462384		0.6	1.31	2.88	<0.05	<0.02	<0.01	0.013	0.06	4.6	3.6	0.47	495	0.50	0.06
462385		1.2	1.09	2.46	<0.05	<0.02	<0.01	0.006	0.06	3.8	3.1	0.35	402	0.53	0.05
462386		6.6	1.13	2.56	<0.05	0.02	<0.01	0.006	0.06	3.2	3.4	0.42	356	1.00	0.05
462387		1.7	1.21	2.76	<0.05	0.02	<0.01	0.005	0.06	3.3	3.3	0.43	416	0.64	0.05
462388		5.6	1.50	3.37	<0.05	<0.02	<0.01	0.011	0.06	5.1	3.8	0.48	606	0.44	0.05
462389		11.6	1.60	3.31	<0.05	<0.02	<0.01	0.026	0.06	4.8	3.8	0.46	680	0.65	0.06
462390		865	5.55	6.18	0.07	0.04	0.01	0.027	0.69	5.0	4.4	5.55	479	95.2	0.11
462391		3160	3.74	2.37	<0.05	<0.02	<0.01	0.216	0.09	5.5	2.8	0.37	889	4.40	0.05
462392		511	2.01	1.95	<0.05	<0.02	<0.01	0.054	0.07	4.9	2.1	0.38	1260	0.87	0.07
462393		113.5	1.79	3.65	<0.05	<0.02	<0.01	0.018	0.06	3.1	4.9	0.51	743	0.79	0.06
462394		553	1.71	3.35	<0.05	<0.02	<0.01	0.030	0.07	3.1	4.4	0.47	737	0.78	0.06
462395		88.3	1.83	3.73	<0.05	<0.02	<0.01	0.028	0.06	4.3	4.7	0.56	846	0.62	0.05
462396		6.8	1.56	3.57	<0.05	<0.02	<0.01	0.019	0.06	3.1	4.4	0.59	603	0.54	0.06
462397		107.5	1.80	3.62	<0.05	0.02	<0.01	0.034	0.08	5.6	4.2	0.45	625	0.43	0.07
462398		219	1.80	3.69	<0.05	<0.02	<0.01	0.040	0.05	4.4	4.8	0.57	798	0.63	0.06
462399		11.2	1.41	3.18	<0.05	<0.02	<0.01	0.006	0.05	2.4	4.3	0.52	535	0.62	0.05
462400		12.1	1.44	3.37	<0.05	<0.02	<0.01	0.009	0.05	2.7	4.6	0.54	551	0.84	0.05
462401		7.2	1.54	3.13	<0.05	<0.02	<0.01	0.012	0.06	2.5	4.3	0.52	577	1.16	0.05
462402		37.6	1.72	3.12	<0.05	<0.02	<0.01	0.013	0.06	2.5	4.6	0.55	610	1.34	0.05
462403		388	2.15	3.59	<0.05	<0.02	<0.01	0.026	0.06	3.0	4.5	0.55	874	0.65	0.06
462404		71.9	2.22	3.32	<0.05	<0.02	<0.01	0.043	0.08	3.7	4.1	0.46	802	0.59	0.05
462405		4.8	1.29	3.17	<0.05	<0.02	<0.01	0.009	0.06	2.4	5.2	0.55	551	0.63	0.07
462406		7.2	1.77	2.48	<0.05	<0.02	<0.01	0.013	0.06	6.3	3.3	0.54	714	0.65	0.07
462407		513	1.96	1.94	<0.05	<0.02	<0.01	0.043	0.07	6.6	2.6	0.57	784	1.17	0.07
462408		85.6	1.84	3.59	<0.05	<0.02	<0.01	0.019	0.07	5.2	4.9	0.53	734	10.05	0.06
462409		24.5	0.99	2.00	<0.05	<0.02	<0.01	0.010	0.06	2.4	2.7	0.33	379	1.13	0.03
462410		3270	3.14	5.87	0.06	0.23	0.02	0.048	0.20	7.5	10.1	0.76	470	240	0.10
462411		105.5	1.52	2.78	<0.05	<0.02	<0.01	0.009	0.08	3.1	2.9	0.43	518	5.92	0.05
462412		115.5	1.56	2.27	<0.05	<0.02	<0.01	0.011	0.08	4.3	2.2	0.35	540	2.10	0.05

Comments: ***Corrected copy with "TI" reported from ME-MS81***

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Page: 2 - C
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 20-DEC-2016
Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207808

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
462373		1.8	380	0.4	2.3	<0.001	1.71	0.05	1.1	<0.2	0.2	29.3	<0.01	0.17	0.6
462374		1.6	360	1.2	1.4	<0.001	1.79	0.06	1.5	0.4	0.2	59.4	<0.01	0.09	0.5
462375		1.5	390	1.5	0.7	<0.001	0.07	0.10	2.0	<0.2	<0.2	157.0	<0.01	0.01	0.6
462376		1.6	380	1.2	0.6	<0.001	0.02	0.07	2.0	<0.2	0.2	187.0	<0.01	<0.01	0.6
462377		1.6	370	1.3	0.6	<0.001	<0.01	<0.05	1.9	<0.2	0.2	136.0	<0.01	0.01	0.6
462378		1.5	390	1.1	0.7	<0.001	0.11	0.06	1.6	0.2	<0.2	126.5	<0.01	0.01	0.5
462379		1.6	350	1.0	0.9	<0.001	0.20	<0.05	1.5	<0.2	<0.2	103.5	<0.01	0.02	0.4
462380		1.7	360	1.0	0.9	<0.001	0.21	<0.05	1.5	0.3	<0.2	107.0	<0.01	0.01	0.4
462381		1.5	360	1.0	1.0	<0.001	0.51	0.05	1.7	0.3	<0.2	212	<0.01	0.07	0.4
462382		1.8	370	1.3	0.8	<0.001	0.01	0.05	2.2	0.2	0.2	106.5	<0.01	0.01	0.5
462383		1.7	390	1.4	0.9	<0.001	0.01	0.08	2.6	<0.2	0.2	100.5	<0.01	<0.01	0.5
462384		1.6	360	1.3	1.0	<0.001	<0.01	0.05	2.5	0.2	0.2	80.5	<0.01	0.01	0.6
462385		1.5	330	1.0	1.2	<0.001	<0.01	<0.05	1.4	0.2	<0.2	70.0	<0.01	0.01	0.5
462386		6.9	380	5.4	1.1	0.001	<0.01	0.05	1.4	<0.2	<0.2	61.3	<0.01	0.01	0.6
462387		2.2	360	1.8	0.9	<0.001	<0.01	<0.05	1.7	<0.2	<0.2	66.1	<0.01	<0.01	0.5
462388		1.8	390	1.5	1.0	<0.001	<0.01	0.06	2.3	0.2	0.2	73.2	<0.01	<0.01	0.6
462389		1.9	390	2.2	1.0	<0.001	0.02	0.11	2.5	<0.2	0.2	80.2	<0.01	<0.01	0.7
462390		649	700	5.4	29.2	0.107	3.85	0.78	9.0	3.2	0.4	54.5	<0.01	0.19	1.1
462391		2.2	470	2.2	1.7	0.001	2.53	0.06	1.9	0.3	0.4	64.2	<0.01	0.23	0.6
462392		1.5	380	1.8	1.3	<0.001	0.41	<0.05	1.9	<0.2	0.2	150.5	<0.01	0.07	0.8
462393		2.0	400	1.1	1.1	<0.001	0.03	0.05	1.6	<0.2	<0.2	40.0	<0.01	<0.01	0.7
462394		1.7	390	1.0	1.3	<0.001	0.12	<0.05	1.6	<0.2	<0.2	50.2	<0.01	0.01	0.6
462395		2.0	390	1.3	1.0	<0.001	0.04	0.05	2.3	0.2	0.2	99.4	<0.01	0.01	0.6
462396		2.1	430	1.6	1.0	<0.001	<0.01	0.06	1.8	<0.2	0.2	50.8	<0.01	<0.01	0.6
462397		1.9	430	2.4	1.4	<0.001	0.05	0.08	2.7	0.2	0.2	521	<0.01	0.02	0.7
462398		2.0	410	2.4	0.9	<0.001	0.03	0.08	2.3	0.3	0.2	193.5	<0.01	0.01	0.6
462399		2.2	410	1.0	0.9	<0.001	<0.01	<0.05	1.4	<0.2	<0.2	65.2	<0.01	<0.01	0.4
462400		2.3	430	1.1	0.9	<0.001	<0.01	<0.05	1.5	<0.2	<0.2	69.9	<0.01	<0.01	0.5
462401		2.2	420	1.0	1.0	<0.001	0.08	<0.05	1.6	<0.2	<0.2	72.2	<0.01	<0.01	0.5
462402		2.0	410	0.8	0.9	<0.001	0.21	0.11	1.3	<0.2	<0.2	67.5	<0.01	0.02	0.4
462403		2.3	410	0.9	1.0	<0.001	0.25	0.05	1.8	<0.2	0.2	63.1	<0.01	0.03	0.4
462404		2.1	380	0.9	1.4	<0.001	0.60	0.05	1.5	0.2	0.3	70.2	<0.01	0.03	0.6
462405		1.9	410	1.0	1.0	<0.001	0.01	0.08	1.4	<0.2	<0.2	83.6	<0.01	<0.01	0.4
462406		2.0	420	0.6	1.2	<0.001	0.04	<0.05	1.3	<0.2	<0.2	52.9	<0.01	<0.01	0.6
462407		1.9	400	0.5	1.3	<0.001	0.27	<0.05	1.0	0.2	<0.2	59.5	<0.01	0.02	0.8
462408		1.6	380	1.6	1.2	0.004	0.20	0.06	1.9	<0.2	<0.2	64.0	<0.01	0.02	0.6
462409		1.2	300	1.1	0.9	<0.001	0.08	0.05	1.1	<0.2	<0.2	54.9	<0.01	0.01	0.4
462410		23.7	660	9.8	10.7	0.259	0.46	2.42	5.6	1.1	1.1	47.6	<0.01	0.10	2.1
462411		1.7	390	1.3	1.3	0.007	0.14	0.05	1.8	0.2	0.2	65.4	<0.01	0.02	0.4
462412		1.4	330	1.3	1.2	0.002	0.06	0.07	1.3	0.2	<0.2	55.4	<0.01	<0.01	0.8

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Page: 2 - D
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 20-DEC-2016
Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207808

Sample Description	Method Analyte Units LOR	ME-MS41 TI ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05
462373		<0.02	0.22	5	0.08	3.87	80	<0.5								
462374		0.02	0.36	9	0.05	4.91	44	<0.5								
462375		<0.02	0.28	12	<0.05	5.20	33	<0.5								
462376		<0.02	0.30	12	<0.05	4.71	42	<0.5								
462377		<0.02	0.38	12	<0.05	4.98	37	<0.5				649	13.9	20	0.31	1.44
462378		<0.02	0.23	9	<0.05	5.62	37	<0.5								
462379		<0.02	0.23	9	<0.05	4.66	42	<0.5								
462380		<0.02	0.23	9	<0.05	4.77	44	<0.5								
462381		<0.02	0.17	9	<0.05	4.75	48	<0.5								
462382		<0.02	0.23	14	<0.05	4.44	52	<0.5				517	11.9	20	0.42	1.07
462383		<0.02	0.18	13	<0.05	5.74	42	<0.5								
462384		<0.02	0.29	11	<0.05	6.31	39	<0.5								
462385		<0.02	0.26	8	<0.05	5.49	34	<0.5								
462386		<0.02	0.25	7	<0.05	6.69	45	<0.5								
462387		<0.02	0.28	9	<0.05	6.99	38	<0.5								
462388		<0.02	0.26	14	0.05	6.76	46	<0.5								
462389		<0.02	0.32	16	0.05	6.33	50	<0.5								
462390		0.62	0.34	72	11.70	5.58	63	1.5								
462391		<0.02	1.00	7	0.14	6.87	53	<0.5	0.294							
462392		<0.02	0.99	8	0.08	6.71	53	<0.5								
462393		<0.02	0.14	11	<0.05	4.51	53	<0.5								
462394		<0.02	0.22	10	<0.05	4.35	50	<0.5								
462395		<0.02	0.22	12	<0.05	6.09	54	<0.5				569	16.4	20	0.60	1.47
462396		<0.02	0.32	13	0.05	4.21	51	<0.5								
462397		<0.02	0.71	15	0.08	7.00	46	<0.5								
462398		<0.02	0.24	15	0.05	6.77	55	<0.5								
462399		<0.02	0.20	10	<0.05	4.16	44	<0.5								
462400		<0.02	0.16	10	<0.05	4.43	47	<0.5								
462401		<0.02	0.14	10	<0.05	4.41	43	<0.5								
462402		<0.02	0.14	9	<0.05	3.69	47	<0.5								
462403		<0.02	0.31	10	<0.05	4.98	55	<0.5								
462404		<0.02	0.41	9	0.06	5.66	49	<0.5								
462405		<0.02	0.15	10	<0.05	3.81	44	<0.5								
462406		<0.02	0.16	8	<0.05	4.58	42	<0.5								
462407		<0.02	0.22	6	2.16	3.58	55	<0.5				786	14.8	20	0.70	1.44
462408		<0.02	0.25	9	0.10	5.39	46	<0.5								
462409		<0.02	0.16	6	<0.05	5.57	29	<0.5								
462410		0.10	0.43	62	14.75	8.45	59	7.3	0.310	0.028						
462411		<0.02	0.34	9	<0.05	4.79	41	<0.5								
462412		<0.02	0.94	7	0.06	6.99	38	<0.5								

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Page: 2 - E
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 20-DEC-2016
 Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207808

Sample Description	Method Analyte Units LOR	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1
462373 462374 462375 462376 462377		0.88	0.52	17.4	1.51	2.5	0.23	6.1	0.16	3.2	7.8	1.86	8.0	1.79	1	366
462378 462379 462380 462381 462382		0.61	0.36	16.4	1.36	2.2	0.19	5.3	0.11	1.9	6.5	1.49	9.9	1.44	<1	257
462383 462384 462385 462386 462387																
462388 462389 462390 462391 462392																
462393 462394 462395 462396 462397		0.89	0.58	18.1	1.63	2.9	0.29	7.1	0.19	2.0	8.2	2.08	18.0	2.01	<1	282
462398 462399 462400 462401 462402																
462403 462404 462405 462406 462407		0.85	0.48	18.5	1.60	2.5	0.30	6.5	0.19	1.9	8.1	1.85	19.2	2.07	1	352
462408 462409 462410 462411 462412																

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Page: 2 - F
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 20-DEC-2016
 Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207808

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Ta	Tb	Th	Tl	Tm	U	V	W	Y	Yb	Zr	SiO2	Al2O3	Fe2O3	CaO
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%
462373 462374 462375 462376 462377		0.1	0.01	0.05	0.5	0.01	0.05	5	1	0.5	0.03	2	0.01	0.01	0.01	0.01
462378 462379 462380 462381 462382		0.1	0.23	0.72	<0.5	0.11	0.62	40	<1	7.1	0.99	84	70.6	15.30	2.73	3.32
462383 462384 462385 462386 462387																
462388 462389 462390 462391 462392		0.1	0.18	0.56	<0.5	0.08	0.29	39	<1	5.5	0.61	71	69.4	15.15	2.82	2.51
462393 462394 462395 462396 462397		0.1	0.23	0.77	<0.5	0.12	0.41	44	2	8.8	1.03	93	68.2	15.10	3.44	2.71
462398 462399 462400 462401 462402																
462403 462404 462405 462406 462407		0.1	0.25	0.79	<0.5	0.12	0.50	42	5	8.5	1.05	86	67.8	14.85	3.17	2.60
462408 462409 462410 462411 462412																

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Page: 2 - G
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 20-DEC-2016
 Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207808

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%
462373		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
462374												
462375												
462376												
462377		0.93	4.42	0.71	<0.01	0.26	0.09	0.09	0.04	0.07	2.60	101.16
462378												
462379												
462380												
462381												
462382		1.14	4.70	0.87	<0.01	0.26	0.09	0.08	0.03	0.06	3.02	100.13
462383												
462384												
462385												
462386												
462387												
462388												
462389												
462390												
462391												
462392												
462393												
462394												
462395		1.08	4.55	1.13	<0.01	0.26	0.13	0.08	0.03	0.06	3.17	99.94
462396												
462397												
462398												
462399												
462400												
462401												
462402												
462403												
462404												
462405												
462406												
462407		1.03	4.35	1.24	<0.01	0.26	0.10	0.09	0.04	0.08	4.35	99.96
462408												
462409												
462410												
462411												
462412												

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10251 GIBALTAR MINE ROAD
MCLEESE LAKE BC V0L 1P0

Page: 3 - A
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 20-DEC-2016
Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207808

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
462413		7.42	0.03	0.82	0.1	<0.2	<10	60	0.05	0.01	1.01	0.01	7.01	3.1	7	0.16
462414		7.02	0.23	0.87	<0.1	<0.2	<10	40	0.08	0.04	1.30	0.03	7.29	3.7	6	0.33
462415		7.56	0.06	0.89	1.6	<0.2	<10	50	0.07	0.02	0.84	0.01	5.58	5.5	6	0.19
462416		7.57	0.01	0.72	0.2	<0.2	<10	60	0.07	0.01	0.83	<0.01	6.37	3.9	7	0.13
462417		7.54	0.01	0.68	0.2	<0.2	<10	80	0.06	0.01	0.55	<0.01	3.94	4.6	8	<0.05
462418		7.42	0.03	0.72	0.1	<0.2	<10	70	0.07	0.02	0.83	<0.01	3.76	5.8	9	0.05
462419		8.01	0.09	0.68	0.1	<0.2	<10	60	0.06	0.03	1.02	0.01	7.14	7.1	7	0.14
462420		<0.02	0.10	0.73	0.2	<0.2	<10	60	0.08	0.03	1.07	0.01	7.34	7.2	9	0.15
462421		4.70	0.11	0.85	0.3	<0.2	<10	70	0.06	0.02	1.04	0.03	6.81	14.0	6	0.30
462422		1.98	0.61	0.29	2.9	<0.2	<10	60	0.05	0.11	0.86	0.08	21.0	3.7	8	0.10
462423		4.29	0.04	0.55	0.2	<0.2	<10	60	0.07	0.02	1.94	0.01	11.25	2.9	5	0.66
462424		3.46	0.02	0.63	0.2	<0.2	<10	50	0.08	0.03	1.96	0.01	9.89	3.2	8	0.43
462425		7.43	0.09	0.54	1.0	<0.2	<10	70	0.09	0.12	1.93	0.16	8.82	11.5	4	0.37
462426		7.17	0.11	0.78	0.7	<0.2	<10	50	0.09	0.04	1.67	0.03	8.52	5.8	4	0.94
462427		6.77	0.01	0.70	0.1	<0.2	<10	40	0.07	0.01	1.45	0.01	7.91	3.8	4	0.68
462428		6.92	0.12	0.80	0.2	<0.2	<10	60	0.06	0.03	1.65	0.01	11.20	6.6	5	1.15
462429		7.52	0.09	0.65	0.4	<0.2	<10	80	0.12	0.05	1.81	0.02	10.05	3.7	3	0.88
462430		0.04	0.65	1.65	6.7	0.4	10	100	0.23	0.12	0.86	0.15	9.23	10.7	32	0.42
462431		7.18	0.11	0.35	0.2	<0.2	<10	90	0.08	0.04	1.79	0.03	11.80	2.6	4	0.66
462432		7.45	0.06	0.66	0.2	<0.2	<10	50	0.08	0.02	0.72	0.01	4.26	5.5	5	0.30
462433		2.95	0.03	0.84	<0.1	<0.2	<10	60	0.08	0.01	0.92	0.01	4.69	3.4	4	0.40
462434		5.06	0.18	1.03	0.5	<0.2	<10	60	0.07	0.22	4.22	1.29	17.10	11.7	5	0.10
462435		7.12	0.10	1.01	0.2	<0.2	<10	50	0.08	0.06	2.89	1.29	16.10	9.2	5	0.12
462436		7.39	0.04	1.45	0.2	<0.2	<10	50	0.13	0.02	1.97	0.09	5.77	9.9	12	0.05
462437		7.14	0.14	1.56	0.3	<0.2	<10	50	0.13	0.03	1.78	1.52	5.57	10.6	7	0.06
462438		5.97	0.22	1.59	0.4	<0.2	<10	40	0.11	0.10	2.58	4.74	6.11	10.2	9	0.15
462439		7.06	0.26	1.63	0.5	<0.2	<10	40	0.10	0.12	1.80	4.03	7.75	12.3	7	0.09
462440		<0.02	0.27	1.67	0.5	<0.2	<10	40	0.12	0.13	1.81	4.30	7.38	12.0	7	0.09
462441		7.57	0.19	1.33	0.4	<0.2	<10	50	0.09	0.06	1.71	3.86	5.29	8.6	6	0.07
462442		7.27	0.12	1.37	0.1	<0.2	<10	60	0.09	0.03	1.61	1.70	3.87	8.9	7	0.07
462443		7.59	0.79	1.45	0.9	<0.2	<10	50	0.10	0.32	1.89	5.27	3.94	14.2	6	0.08
462444		7.44	0.22	1.54	0.5	<0.2	<10	50	0.10	0.05	1.86	2.11	4.12	11.0	6	0.09
462445		7.55	0.28	1.60	0.2	<0.2	<10	50	0.10	0.09	2.29	4.29	3.87	10.1	6	0.09
462446		6.39	0.29	1.58	0.1	<0.2	<10	60	0.11	0.09	1.86	2.15	5.52	10.2	6	0.09
462447		6.44	1.54	1.34	0.7	<0.2	<10	60	0.10	0.52	1.89	5.47	3.75	33.8	6	0.08
462448		6.24	0.07	1.57	0.3	<0.2	<10	50	0.11	0.02	1.78	1.48	5.02	10.5	9	0.06
462449		6.96	0.15	1.48	0.3	<0.2	<10	50	0.09	0.03	1.65	2.93	4.36	9.4	8	0.09
462450		0.04	2.51	1.53	25.7	0.3	<10	60	0.29	0.82	0.79	2.11	9.05	9.9	27	3.13
462451		5.70	0.39	1.56	0.4	<0.2	<10	50	0.09	0.12	1.66	3.32	4.27	10.4	8	0.08
462452		6.40	0.16	1.67	0.8	<0.2	<10	50	0.12	0.04	1.82	1.89	5.07	10.6	12	0.06

Comments: ***Corrected copy with "TI" reported from ME-MS81***

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To: GIBRALTAR MINES LTD.
P.O. BOX 130
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MCLEESE LAKE BC V0L 1P0

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CERTIFICATE OF ANALYSIS KL16207808

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
462413		22.3	1.45	2.85	<0.05	<0.02	<0.01	0.013	0.08	2.8	3.7	0.44	513	0.59	0.05
462414		415	1.59	3.13	<0.05	<0.02	<0.01	0.035	0.07	3.1	3.1	0.42	591	0.98	0.06
462415		120.5	1.61	2.94	<0.05	<0.02	<0.01	0.014	0.07	2.2	3.3	0.46	437	0.87	0.05
462416		7.9	1.10	2.43	<0.05	<0.02	<0.01	0.005	0.08	2.4	2.7	0.38	339	0.72	0.05
462417		12.0	1.15	2.04	<0.05	<0.02	<0.01	<0.005	0.09	1.6	2.2	0.37	277	1.07	0.05
462418		74.9	1.39	2.27	<0.05	<0.02	<0.01	0.006	0.10	1.5	2.3	0.37	336	1.58	0.05
462419		181.5	1.51	2.42	<0.05	<0.02	<0.01	0.014	0.08	2.9	2.6	0.36	370	6.49	0.04
462420		182.0	1.58	2.57	<0.05	<0.02	<0.01	0.014	0.09	3.0	2.7	0.38	390	6.57	0.05
462421		209	1.63	2.89	<0.05	<0.02	<0.01	0.020	0.08	2.7	3.4	0.45	447	3.77	0.05
462422		683	0.87	1.22	<0.05	<0.02	<0.01	0.047	0.07	8.7	1.1	0.11	312	2.04	0.05
462423		6.3	1.36	2.04	<0.05	<0.02	<0.01	0.012	0.08	4.5	2.4	0.30	440	0.36	0.06
462424		14.1	1.38	2.26	<0.05	<0.02	<0.01	0.010	0.07	4.1	2.8	0.34	555	0.78	0.06
462425		100.5	2.37	2.23	<0.05	<0.02	0.01	0.027	0.06	3.6	2.6	0.33	576	2.41	0.06
462426		190.5	1.78	2.66	<0.05	<0.02	0.01	0.016	0.06	3.4	3.8	0.44	512	3.24	0.06
462427		4.5	1.28	2.26	<0.05	<0.02	<0.01	0.012	0.05	3.0	3.3	0.42	518	0.17	0.05
462428		192.5	1.65	2.83	<0.05	<0.02	<0.01	0.026	0.05	4.6	4.0	0.47	685	0.58	0.06
462429		122.5	1.81	2.47	<0.05	<0.02	<0.01	0.018	0.06	3.8	3.2	0.39	601	0.25	0.08
462430		4660	3.60	5.37	0.08	0.25	0.04	0.053	0.14	4.2	11.6	0.78	458	202	0.10
462431		258	1.27	1.24	<0.05	<0.02	<0.01	0.013	0.07	4.6	1.5	0.31	444	0.40	0.06
462432		142.0	1.18	2.18	<0.05	<0.02	<0.01	0.005	0.07	1.9	3.0	0.38	249	0.33	0.05
462433		32.5	1.13	2.72	<0.05	<0.02	<0.01	0.006	0.08	2.0	3.2	0.42	350	0.10	0.06
462434		84.4	2.62	2.51	<0.05	<0.02	0.03	0.070	0.13	6.8	9.4	0.64	3010	1.66	0.04
462435		52.1	2.13	2.69	<0.05	<0.02	0.02	0.060	0.14	6.3	8.0	0.80	2510	0.93	0.03
462436		21.8	1.98	4.54	<0.05	<0.02	<0.01	0.008	0.08	2.4	12.8	0.97	950	0.60	0.05
462437		64.6	2.23	4.61	<0.05	<0.02	0.01	0.041	0.10	2.2	12.5	1.04	1260	0.57	0.04
462438		90.5	2.76	4.39	<0.05	<0.02	0.06	0.175	0.13	2.4	11.0	1.01	3320	1.71	0.04
462439		91.8	2.99	4.03	<0.05	<0.02	0.03	0.126	0.14	2.9	11.7	1.02	2530	2.59	0.03
462440		92.0	3.09	3.94	<0.05	<0.02	0.04	0.141	0.15	2.9	11.4	1.03	2610	3.35	0.03
462441		60.8	2.16	3.40	<0.05	<0.02	0.03	0.173	0.14	2.1	9.6	0.83	2160	0.50	0.03
462442		62.7	1.99	3.62	<0.05	<0.02	0.01	0.046	0.13	1.6	9.8	0.91	2090	0.53	0.04
462443		370	3.00	3.59	<0.05	<0.02	0.02	0.461	0.15	1.6	10.3	0.91	2550	1.33	0.03
462444		102.5	2.55	3.97	<0.05	<0.02	0.01	0.096	0.14	1.7	11.5	0.99	2650	0.88	0.04
462445		103.0	2.70	3.97	<0.05	<0.02	0.02	0.154	0.15	1.5	11.8	1.03	3180	1.00	0.03
462446		109.5	2.56	3.93	<0.05	<0.02	0.01	0.086	0.14	2.3	11.3	0.98	2710	0.70	0.04
462447		809	3.69	3.49	<0.05	<0.02	0.02	0.428	0.15	1.5	9.5	0.81	2350	7.72	0.04
462448		27.1	2.31	4.37	<0.05	<0.02	0.01	0.032	0.10	2.1	10.7	1.02	2020	3.25	0.05
462449		80.9	2.24	3.85	<0.05	<0.02	0.01	0.141	0.10	1.8	9.4	0.96	1790	0.55	0.04
462450		2370	4.17	4.26	<0.05	0.02	0.04	0.124	0.26	4.3	14.9	0.53	710	203	0.05
462451		218	2.62	4.01	<0.05	<0.02	0.01	0.223	0.11	1.7	9.8	0.99	1870	3.42	0.04
462452		67.2	2.48	4.48	<0.05	<0.02	0.01	0.100	0.09	2.0	11.8	1.09	1820	0.57	0.04

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		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
462413		1.7	390	0.8	1.2	<0.001	<0.01	0.05	1.3	<0.2	0.2	52.8	<0.01	<0.01	0.5
462414		1.7	360	1.6	1.1	<0.001	0.18	0.06	1.5	<0.2	0.2	74.0	<0.01	0.02	0.5
462415		1.8	390	1.1	1.1	<0.001	0.23	0.07	1.5	<0.2	0.2	76.1	<0.01	<0.01	0.5
462416		1.7	380	0.8	1.4	<0.001	0.04	<0.05	1.0	<0.2	<0.2	62.5	<0.01	<0.01	0.3
462417		1.6	370	0.4	1.5	<0.001	0.10	<0.05	0.6	<0.2	<0.2	69.5	<0.01	0.01	0.3
462418		1.7	380	0.6	1.9	0.001	0.22	<0.05	0.9	<0.2	<0.2	35.9	<0.01	0.02	0.6
462419		1.6	330	0.7	1.5	0.007	0.28	0.05	1.2	<0.2	0.2	43.6	<0.01	0.01	0.6
462420		1.7	350	0.8	1.5	0.005	0.28	<0.05	1.2	<0.2	0.2	45.8	<0.01	0.03	0.6
462421		1.8	380	1.4	1.4	0.003	0.17	0.05	1.8	<0.2	0.2	55.9	<0.01	0.01	0.4
462422		1.2	90	3.6	1.1	0.001	0.20	0.26	1.0	0.4	<0.2	46.7	<0.01	0.07	2.3
462423		1.3	360	2.1	1.2	<0.001	0.01	0.27	1.8	0.2	0.2	77.9	<0.01	0.01	0.6
462424		1.4	350	1.9	1.1	<0.001	<0.01	0.27	1.8	0.3	0.2	70.3	<0.01	<0.01	0.6
462425		2.2	350	2.1	1.0	0.001	1.51	0.26	1.6	0.4	0.2	99.1	<0.01	0.06	0.6
462426		1.7	410	1.7	1.1	0.003	0.31	0.28	2.0	0.3	0.2	78.6	<0.01	0.03	0.3
462427		1.6	380	1.2	0.9	<0.001	<0.01	0.31	1.5	0.3	0.2	72.7	<0.01	<0.01	0.3
462428		1.9	390	1.9	0.9	<0.001	0.23	0.35	2.4	0.3	0.2	725	<0.01	0.01	0.5
462429		1.7	410	2.1	1.0	<0.001	0.25	0.34	1.9	0.3	0.2	174.5	<0.01	0.02	0.6
462430		32.6	580	4.0	5.0	0.101	0.63	0.88	5.4	1.2	1.5	41.4	<0.01	0.06	0.9
462431		1.2	290	1.6	1.1	<0.001	0.21	0.36	1.3	0.3	<0.2	349	<0.01	0.02	0.8
462432		1.5	360	0.9	1.2	<0.001	0.27	0.12	1.1	<0.2	<0.2	46.3	<0.01	<0.01	0.4
462433		1.6	370	1.0	1.4	<0.001	0.02	0.13	1.4	0.2	<0.2	49.7	<0.01	<0.01	0.4
462434		8.3	420	1.8	2.1	<0.001	0.11	0.10	1.6	0.4	<0.2	61.4	<0.01	0.22	1.3
462435		8.2	400	1.3	2.3	<0.001	0.11	0.08	1.7	0.3	<0.2	45.2	<0.01	0.06	0.9
462436		11.9	380	1.7	1.3	<0.001	<0.01	0.13	2.1	0.3	<0.2	58.7	<0.01	0.02	0.8
462437		8.6	460	1.2	1.6	<0.001	0.08	0.11	1.9	0.2	<0.2	51.2	<0.01	0.03	1.1
462438		9.7	400	1.5	2.2	0.001	0.56	0.11	1.8	0.2	<0.2	45.6	<0.01	0.14	0.5
462439		9.1	440	1.5	2.1	<0.001	0.66	0.09	1.6	0.3	<0.2	35.2	<0.01	0.17	1.2
462440		9.1	440	1.8	2.2	<0.001	0.78	0.10	1.7	<0.2	<0.2	34.8	<0.01	0.18	0.9
462441		7.3	370	1.3	2.3	<0.001	0.29	0.08	1.3	0.2	<0.2	33.2	<0.01	0.06	0.7
462442		8.4	390	1.5	2.1	<0.001	0.15	0.11	1.2	0.2	<0.2	34.6	<0.01	0.04	0.7
462443		8.6	410	1.8	2.3	0.001	1.17	0.09	1.3	0.2	<0.2	30.8	<0.01	0.57	0.7
462444		8.8	440	2.2	2.2	<0.001	0.50	0.09	1.3	<0.2	<0.2	30.6	<0.01	0.12	0.7
462445		9.4	410	2.6	2.4	<0.001	0.45	0.10	1.5	0.2	<0.2	32.6	<0.01	0.16	0.5
462446		7.0	420	1.5	2.2	0.001	0.36	0.09	1.4	0.2	<0.2	31.3	<0.01	0.16	0.9
462447		7.7	430	1.1	2.3	0.001	2.23	0.09	1.2	0.3	0.2	27.7	<0.01	0.84	0.8
462448		9.7	380	0.9	1.5	0.001	0.10	0.10	1.6	0.2	<0.2	35.9	<0.01	0.02	0.6
462449		8.9	380	0.8	1.6	<0.001	0.17	0.10	1.5	0.3	<0.2	33.5	<0.01	0.06	0.4
462450		19.3	690	74.6	12.9	0.195	2.05	1.46	2.2	3.8	0.6	50.6	<0.01	0.65	2.9
462451		9.2	380	0.7	1.7	0.001	0.42	0.11	1.6	0.2	0.2	33.0	<0.01	0.19	0.4
462452		9.7	430	0.9	1.3	0.001	0.14	0.12	1.8	0.2	<0.2	40.6	<0.01	0.06	1.0

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Page: 3 - D
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 20-DEC-2016
Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207808

Sample Description	Method Analyte Units LOR	ME-MS41 TI ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05
462413		<0.02	0.25	8	<0.05	4.86	47	<0.5								
462414		<0.02	0.25	10	<0.05	4.80	41	<0.5								
462415		<0.02	0.28	9	<0.05	4.64	39	<0.5								
462416		<0.02	0.17	7	<0.05	5.40	32	<0.5								
462417		<0.02	0.16	5	<0.05	2.94	28	<0.5								
462418		<0.02	0.51	6	<0.05	3.45	32	<0.5								
462419		<0.02	0.25	7	<0.05	4.68	32	<0.5								
462420		<0.02	0.25	7	<0.05	4.74	35	<0.5								
462421		<0.02	0.18	9	<0.05	4.82	33	<0.5								
462422		<0.02	0.20	2	<0.05	4.50	22	<0.5				713	24.5	20	0.47	1.90
462423		<0.02	0.31	14	0.08	5.22	31	<0.5								
462424		<0.02	0.33	12	<0.05	5.69	29	<0.5								
462425		<0.02	0.82	10	0.07	5.90	65	<0.5								
462426		<0.02	0.24	14	0.06	5.85	38	<0.5								
462427		<0.02	0.19	13	0.05	5.42	38	<0.5								
462428		<0.02	0.35	16	0.13	5.94	48	<0.5								
462429		<0.02	0.30	17	0.20	5.64	48	<0.5								
462430		0.06	0.27	62	0.37	7.61	48	6.6	0.460	0.023	0.579					
462431		<0.02	0.43	10	0.41	5.22	26	<0.5								
462432		<0.02	0.18	7	<0.05	3.49	26	<0.5								
462433		<0.02	0.16	10	<0.05	4.17	35	<0.5								
462434		<0.02	0.49	10	0.14	10.70	567	<0.5								
462435		0.02	0.55	10	<0.05	7.84	528	<0.5								
462436		<0.02	0.32	20	<0.05	4.15	93	<0.5				603	20.2	20	0.53	2.63
462437		<0.02	0.44	20	<0.05	3.81	792	<0.5								
462438		<0.02	0.34	18	0.05	4.10	2320	<0.5								
462439		0.02	0.35	17	0.05	3.47	2040	<0.5								
462440		0.02	0.29	17	0.07	3.48	2180	<0.5								
462441		<0.02	0.26	12	0.19	3.10	1770	<0.5								
462442		<0.02	0.18	14	<0.05	2.59	851	<0.5								
462443		0.02	0.19	13	0.08	2.74	2370	<0.5								
462444		<0.02	0.19	16	0.05	2.68	1090	<0.5				638	22.7	20	1.06	2.77
462445		0.02	0.18	16	0.08	3.08	2060	<0.5								
462446		<0.02	0.23	15	0.10	3.21	1200	<0.5								
462447		0.02	0.21	13	0.08	2.75	2540	<0.5								
462448		<0.02	0.20	18	<0.05	3.35	784	<0.5								
462449		<0.02	0.14	17	0.05	2.95	1300	<0.5								
462450		0.25	0.56	29	1.27	4.29	418	0.8	0.243	0.027	0.354					
462451		<0.02	0.17	18	0.39	2.88	1560	<0.5								
462452		<0.02	0.29	23	<0.05	3.39	935	<0.5								

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Page: 3 - E
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 20-DEC-2016
Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207808

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb	Nd	Pr	Rb	Sm	Sn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
462413		0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2	0.1	0.03	0.2	0.03	1
462414															
462415															
462416															
462417															
462418															
462419															
462420															
462421															
462422		1.32	0.35	15.7	1.90	2.5	0.39	10.0	0.30	3.1	12.2	3.07	14.2	2.93	<1
462423															
462424															
462425															
462426															
462427															
462428															
462429															
462430															
462431															
462432															
462433															
462434															
462435															
462436		1.82	0.64	17.2	3.12	4.7	0.56	8.5	0.27	2.2	12.8	2.78	16.8	3.04	1
462437															
462438															
462439															
462440															
462441															
462442															
462443															
462444		2.06	0.65	17.7	3.07	5.0	0.64	9.2	0.31	2.5	13.5	3.10	33.9	3.22	1
462445															
462446															
462447															
462448															
462449															
462450															
462451															
462452															

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Page: 3 - F
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 20-DEC-2016
 Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207808

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Ta	Tb	Th	Tl	Tm	U	V	W	Y	Yb	Zr	SiO2	Al2O3	Fe2O3	CaO
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%
		0.1	0.01	0.05	0.5	0.01	0.05	5	1	0.5	0.03	2	0.01	0.01	0.01	0.01
462413																
462414																
462415																
462416																
462417																
462418																
462419																
462420																
462421																
462422		0.4	0.30	2.53	<0.5	0.21	0.64	14	1	11.1	1.87	42	74.7	13.35	1.57	1.45
462423																
462424																
462425																
462426																
462427																
462428																
462429																
462430																
462431																
462432																
462433																
462434																
462435																
462436		0.1	0.48	1.15	<0.5	0.24	0.94	88	<1	15.6	1.62	162	65.0	14.75	4.07	4.35
462437																
462438																
462439																
462440																
462441																
462442																
462443																
462444		0.2	0.49	1.16	<0.5	0.29	0.87	95	3	17.3	1.88	162	64.8	14.70	5.16	3.65
462445																
462446																
462447																
462448																
462449																
462450																
462451																
462452																

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Page: 3 - G
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 20-DEC-2016
 Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207808

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%
462413		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
462414												
462415												
462416												
462417												
462418												
462419												
462420												
462421												
462422		0.33	5.35	1.00	<0.01	0.11	0.04	<0.01	0.02	0.07	1.75	99.74
462423												
462424												
462425												
462426												
462427												
462428												
462429												
462430												
462431												
462432												
462433												
462434												
462435												
462436		1.85	4.12	1.02	<0.01	0.44	0.15	0.08	0.04	0.06	3.71	99.64
462437												
462438												
462439												
462440												
462441												
462442												
462443												
462444		1.98	2.54	2.04	<0.01	0.50	0.61	0.10	0.02	0.07	3.92	100.09
462445												
462446												
462447												
462448												
462449												
462450												
462451												
462452												

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Page: 4 - A
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 20-DEC-2016
 Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207808

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
462453		6.21	0.20	1.68	0.4	<0.2	<10	40	0.11	0.07	1.64	2.69	6.68	11.3	9	0.09
462454		5.75	0.59	0.76	0.5	<0.2	<10	40	0.07	1.03	2.62	3.89	16.35	9.8	3	0.13
462455		4.45	0.16	0.66	0.2	<0.2	<10	40	0.06	0.05	3.31	1.05	16.35	10.5	3	0.12
462456		6.54	0.10	1.19	0.1	<0.2	<10	50	0.08	0.05	2.91	1.13	12.90	10.0	4	0.09
462457		6.20	0.10	1.66	0.2	<0.2	<10	50	0.10	0.03	1.91	2.39	4.66	10.7	8	0.07
462458		6.30	0.39	1.52	0.5	<0.2	<10	60	0.12	0.06	1.66	2.24	4.76	11.1	4	0.10
462459		7.46	0.13	1.51	0.4	<0.2	<10	70	0.11	0.04	1.19	5.71	4.95	12.5	6	0.12
462460		<0.02	0.13	1.48	0.2	<0.2	<10	70	0.12	0.04	1.19	5.92	4.63	12.2	6	0.11
462461		6.89	0.18	1.39	0.3	<0.2	<10	70	0.11	0.04	1.34	0.85	4.21	8.5	7	0.07
462462		7.41	0.43	1.66	0.3	0.2	<10	70	0.09	0.14	1.36	5.35	4.59	10.3	5	0.11
462463		7.21	0.03	1.41	0.3	<0.2	<10	80	0.09	0.02	1.51	0.09	4.64	9.3	3	0.07
462464		7.34	0.04	1.49	0.3	<0.2	<10	60	0.11	0.01	1.50	0.08	5.81	9.8	4	0.06
462465		6.68	0.05	1.38	0.3	<0.2	<10	60	0.11	0.01	1.30	0.06	6.01	9.3	4	0.07
462466		6.61	0.05	1.58	0.3	<0.2	<10	50	0.12	0.02	2.42	0.11	8.95	10.1	4	0.10
462467		7.00	0.16	1.53	0.2	<0.2	<10	60	0.11	0.07	2.48	1.00	6.63	9.7	4	0.09
462468		6.90	0.16	1.58	0.3	<0.2	<10	50	0.10	0.06	2.05	1.51	6.18	10.7	4	0.07
462469		6.10	1.00	1.73	0.9	<0.2	<10	50	0.08	0.39	1.11	4.76	5.57	11.2	3	0.10
462470		0.04	0.60	1.68	5.9	0.4	10	100	0.21	0.12	0.88	0.18	9.45	10.0	32	0.45
462471		6.36	0.34	1.59	0.4	<0.2	<10	70	0.11	0.02	1.50	1.18	7.31	10.1	4	0.07
462472		6.40	0.09	1.65	0.4	<0.2	<10	80	0.16	0.02	1.29	0.17	7.60	11.3	4	0.06

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Page: 4 - B
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 20-DEC-2016
 Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207808

Sample Description	Method Analyte Units LOR	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01	ME-MS41 Nb ppm 0.05
462453		88.4	2.75	5.13	<0.05	<0.02	0.03	0.139	0.09	2.8	12.9	1.03	1480	0.83	0.05	<0.05
462454		230	3.05	1.96	<0.05	<0.02	0.22	0.289	0.12	6.5	5.1	0.94	3940	3.80	0.06	<0.05
462455		85.4	2.59	1.75	<0.05	<0.02	<0.01	0.051	0.10	6.4	4.4	1.18	2280	1.49	0.07	<0.05
462456		52.0	2.60	3.20	<0.05	<0.02	0.01	0.035	0.12	5.0	8.3	1.08	2690	0.62	0.06	<0.05
462457		52.5	2.43	4.61	<0.05	<0.02	0.03	0.081	0.12	1.9	11.1	1.09	2020	0.95	0.05	<0.05
462458		278	2.39	3.91	<0.05	0.02	0.02	0.085	0.13	2.2	10.0	0.97	1910	2.45	0.03	<0.05
462459		72.3	2.31	3.70	<0.05	0.02	0.03	0.103	0.14	2.1	8.9	0.98	1630	0.76	0.03	<0.05
462460		70.5	2.27	3.59	<0.05	0.02	0.03	0.109	0.13	1.9	8.4	0.97	1640	0.54	0.03	<0.05
462461		107.0	1.92	3.70	<0.05	0.02	0.01	0.026	0.11	1.7	7.5	0.93	1620	1.05	0.04	<0.05
462462		200	2.89	4.04	<0.05	<0.02	0.04	0.192	0.16	1.9	9.0	0.98	2090	3.58	0.02	<0.05
462463		12.8	1.88	3.88	<0.05	0.02	<0.01	0.014	0.12	2.0	8.2	0.88	1330	3.42	0.03	<0.05
462464		22.6	1.93	4.25	<0.05	0.03	<0.01	0.013	0.09	2.3	8.6	1.07	825	0.67	0.04	<0.05
462465		25.3	1.78	4.00	<0.05	0.05	<0.01	0.011	0.11	2.4	7.4	0.96	673	1.66	0.04	0.11
462466		35.7	2.20	4.86	<0.05	0.02	<0.01	0.015	0.12	3.6	8.5	1.09	1190	1.69	0.04	<0.05
462467		87.5	2.29	4.50	<0.05	<0.02	0.01	0.058	0.12	2.8	8.2	0.99	1820	8.17	0.03	<0.05
462468		54.4	2.64	4.89	<0.05	<0.02	0.01	0.064	0.12	2.5	8.3	1.07	1610	1.52	0.04	<0.05
462469		306	3.54	5.07	<0.05	<0.02	0.03	0.355	0.15	2.4	8.9	1.03	1840	3.91	0.03	<0.05
462470		4500	3.53	5.72	0.08	0.25	0.04	0.058	0.14	4.6	10.2	0.77	458	200	0.09	0.22
462471		143.5	2.40	4.56	<0.05	<0.02	<0.01	0.041	0.14	3.1	7.6	1.07	1100	1.59	0.04	<0.05
462472		86.3	2.11	4.69	<0.05	0.07	<0.01	0.026	0.13	3.0	7.3	1.16	798	2.24	0.04	0.13

Comments: ***Corrected copy with "TI" reported from ME-MS81***

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Page: 4 - C
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 20-DEC-2016
 Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207808

Sample Description	Method Analyte Units LOR	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2	ME-MS41 Ti % 0.005
462453		9.0	430	1.0	1.6	0.001	0.29	0.11	2.3	0.2	<0.2	38.4	<0.01	0.09	0.5	0.006
462454		6.9	380	1.1	2.0	0.002	0.44	0.08	1.3	0.4	<0.2	50.0	<0.01	0.92	1.4	<0.005
462455		6.7	410	1.4	1.7	0.001	0.23	0.08	1.8	0.4	<0.2	65.6	<0.01	0.05	1.1	0.009
462456		7.1	390	1.3	1.9	<0.001	0.12	0.07	2.0	0.2	<0.2	46.4	<0.01	0.02	0.9	0.005
462457		7.7	390	1.0	1.9	<0.001	0.14	0.09	1.9	<0.2	<0.2	45.7	<0.01	0.04	0.8	0.007
462458		8.7	410	2.7	2.2	0.002	0.44	0.08	1.5	0.3	0.2	31.6	<0.01	0.17	1.2	0.010
462459		6.5	400	0.8	2.3	0.001	0.48	0.07	1.5	0.3	<0.2	32.4	<0.01	0.10	1.0	0.016
462460		6.2	400	0.8	2.2	0.001	0.48	0.07	1.4	0.2	<0.2	31.2	<0.01	0.10	0.9	0.016
462461		5.3	340	0.7	1.8	0.001	0.13	0.07	1.5	0.2	<0.2	37.9	<0.01	0.07	0.5	0.011
462462		5.2	430	0.8	2.6	0.002	0.63	0.05	1.5	0.3	0.2	33.6	<0.01	0.19	1.0	0.020
462463		4.7	440	0.8	2.2	0.002	0.01	0.07	1.6	0.2	<0.2	51.6	<0.01	0.03	1.1	0.006
462464		5.6	450	0.8	1.7	<0.001	0.02	0.08	1.7	0.2	<0.2	52.1	<0.01	0.01	1.2	0.030
462465		5.5	420	0.8	2.1	0.001	0.05	0.12	1.7	0.2	0.2	49.0	<0.01	0.03	0.9	0.094
462466		6.8	440	1.3	2.3	0.001	0.01	0.06	2.4	0.3	<0.2	64.9	<0.01	0.02	1.4	0.017
462467		5.8	430	1.8	2.2	0.002	0.20	0.07	2.2	0.2	<0.2	68.0	<0.01	0.11	1.1	0.009
462468		5.8	460	2.6	2.3	<0.001	0.47	0.06	2.2	0.3	<0.2	54.4	<0.01	0.08	0.8	0.013
462469		5.5	440	3.7	2.7	0.001	1.00	0.08	1.6	0.3	<0.2	33.2	<0.01	0.67	1.1	0.014
462470		31.0	560	4.2	5.4	0.102	0.63	0.91	5.5	1.2	1.5	42.1	<0.01	0.06	1.0	0.151
462471		5.6	550	2.2	2.6	0.001	0.28	0.10	1.6	0.2	<0.2	48.9	<0.01	0.07	0.9	0.025
462472		6.0	560	1.4	2.3	0.001	0.02	0.20	2.2	0.3	0.2	62.1	<0.01	0.04	0.7	0.105

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Page: 4 - D
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 20-DEC-2016
 Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207808

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05
462453		<0.02	0.29	22	0.05	4.03	1280	<0.5								
462454		<0.02	0.59	12	0.09	3.71	1440	<0.5								
462455		<0.02	0.51	15	<0.05	3.83	173	<0.5								
462456		<0.02	0.45	17	<0.05	5.47	319	<0.5								
462457		<0.02	0.37	19	<0.05	3.63	1130	<0.5								
462458		0.02	0.43	15	0.06	3.06	964	<0.5								
462459		0.02	0.29	15	<0.05	3.06	2010	<0.5								
462460		0.02	0.29	14	<0.05	2.98	2070	<0.5								
462461		<0.02	0.17	15	<0.05	3.19	551	<0.5								
462462		0.02	0.32	14	0.09	3.36	2430	<0.5			0.033					
462463		0.02	0.46	14	<0.05	3.57	125	<0.5				990	23.0	10	0.78	3.58
462464		<0.02	0.49	19	<0.05	3.98	131	<0.5								
462465		0.02	0.33	19	0.05	4.49	120	0.5				613	21.1	10	0.73	3.10
462466		<0.02	0.40	20	0.10	5.88	148	<0.5								
462467		<0.02	0.50	18	0.07	4.71	548	<0.5								
462468		<0.02	0.37	21	0.06	5.00	625	<0.5								
462469		0.02	0.33	19	0.20	3.27	2030	<0.5								
462470		0.08	0.31	64	0.39	7.65	48	6.9	0.472	0.024	0.536					
462471		0.02	0.28	18	0.09	3.79	465	<0.5								
462472		0.02	0.45	23	0.16	5.81	213	0.7								

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Page: 4 - E
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 20-DEC-2016
Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207808

Sample Description	Method Analyte Units LOR	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1
462453 462454 462455 462456 462457																
462458 462459 462460 462461 462462																
462463 462464 462465 462466 462467		1.87 1.95	0.78 0.70	18.8 18.3	3.33 3.28	5.5 4.9	0.68 0.67	9.2 8.4	0.34 0.31	2.5 2.3	14.5 13.8	3.30 2.85	26.3 23.1	3.61 3.29	1 1	319 348
462468 462469 462470 462471 462472																

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Page: 4 - F
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 20-DEC-2016
 Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207808

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Ta	Tb	Th	Tl	Tm	U	V	W	Y	Yb	Zr	SiO2	Al2O3	Fe2O3	CaO
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%
		0.1	0.01	0.05	0.5	0.01	0.05	5	1	0.5	0.03	2	0.01	0.01	0.01	0.01
462453																
462454																
462455																
462456																
462457																
462458																
462459																
462460																
462461																
462462																
462463		0.2	0.50	1.94	<0.5	0.31	1.21	91	1	18.4	2.11	179	64.8	15.25	4.59	4.38
462464																
462465		0.2	0.53	1.40	<0.5	0.30	1.11	99	<1	17.7	2.04	151	64.4	15.55	4.58	4.43
462466																
462467																
462468																
462469																
462470																
462471																
462472																

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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 20 - DEC - 2016
Account: GIBMIN

Project: SGM2016 - 19

CERTIFICATE OF ANALYSIS KL16207808

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
 ME-MS41

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.			
	CRU - 31	CRU - QC	LOG - 21d	LOG - 22
	LOG - 23	PUL - 31	PUL - 31d	PUL - QC
	SPL - 21	SPL - 21d	WEI - 21	
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au - AA23	Cu - OG46	ME - ICP06	ME - MS41
	ME - MS81	ME - OG46	Mo - OG46	OA - GRA05
	TOT - ICP06			



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Page: 1
Total # Pages: 3 (A - D)
Plus Appendix Pages
Finalized Date: 20-DEC-2016
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16-MAR-2017
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CERTIFICATE KL16207809

Project: SGM2016-19

P.O. No.: SO218733

This report is for 70 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 28-NOV-2016.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Mo-OG46	Ore Grade Mo - Aqua Regia	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **GIBRALTAR MINES LTD.**
ATTN: ALS MINERALS

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.

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Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 3 (A - D)
Plus Appendix Pages
Finalized Date: 20-DEC-2016
Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207809

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
462473		6.26	0.15	1.21	0.3	<0.2	<10	50	0.08	0.01	1.35	0.77	5.58	10.3	5	0.06
462474		6.65	0.12	1.18	0.2	<0.2	<10	40	0.07	0.01	1.14	0.17	5.81	10.0	6	0.05
462475		6.06	0.05	1.17	0.4	<0.2	<10	50	0.06	0.02	2.62	0.87	4.83	8.7	4	0.09
462476		5.99	0.04	1.18	0.4	<0.2	<10	40	0.08	0.01	1.46	0.12	5.11	9.3	4	0.05
462477		6.17	0.30	1.31	0.2	<0.2	<10	40	0.09	0.02	1.66	0.10	4.90	10.3	5	0.06
462370		0.04	0.09	1.39	4.6	<0.2	<10	100	0.19	0.06	1.08	0.14	11.05	9.2	35	0.41
462478		4.96	0.78	1.20	0.3	<0.2	<10	40	0.06	0.21	2.30	2.63	3.28	12.3	6	0.09
462479		7.05	0.14	1.23	0.3	<0.2	<10	40	0.06	0.06	2.16	1.67	4.21	9.8	6	0.09
462480		<0.02	0.14	1.24	0.3	<0.2	<10	40	0.07	0.06	2.23	1.58	4.32	10.1	8	0.08
462481		7.20	0.27	1.38	0.1	<0.2	<10	30	0.09	0.09	1.93	1.52	5.66	12.2	10	0.07
462482		7.12	0.44	1.43	0.6	<0.2	<10	30	0.07	0.16	1.75	6.42	5.50	14.2	7	0.08
462483		6.25	0.48	1.47	0.5	<0.2	<10	30	0.08	0.37	2.25	5.84	10.55	13.0	8	0.21
462484		5.65	0.72	1.21	0.5	<0.2	<10	40	0.07	0.16	2.30	3.84	4.96	13.5	7	0.08
462485		6.65	0.12	1.22	0.2	<0.2	<10	30	0.07	0.08	2.43	1.31	4.49	8.9	6	0.07
462486		5.76	0.40	1.32	0.3	<0.2	<10	40	0.07	0.17	2.65	5.20	3.81	10.2	6	0.09
462487		7.43	0.13	1.37	0.3	<0.2	<10	30	0.08	0.02	1.55	1.52	5.28	10.6	8	0.05
462488		7.69	0.13	1.39	0.4	<0.2	<10	30	0.09	0.02	1.45	2.44	5.05	11.0	9	0.05
462489		5.61	0.08	1.20	0.2	<0.2	<10	40	0.16	0.01	1.54	1.22	5.57	8.5	7	0.07
462490		0.04	0.48	2.05	14.0	<0.2	10	70	0.32	0.43	1.17	0.20	9.96	48.8	261	1.28
462491		6.77	0.09	1.17	0.3	<0.2	<10	50	0.08	0.03	1.49	0.92	5.11	9.5	8	0.07
462492		6.70	0.22	1.55	0.5	<0.2	<10	40	0.09	0.10	2.03	3.43	4.54	11.5	9	0.07
462493		6.41	0.22	1.32	0.2	<0.2	<10	40	0.09	0.04	1.78	2.56	4.78	10.3	9	0.06
462494		6.42	0.94	1.21	0.6	<0.2	<10	50	0.08	0.07	1.99	3.59	4.17	13.9	10	0.08
462495		6.72	0.40	1.34	0.5	<0.2	<10	40	0.09	0.12	1.90	0.82	7.36	11.9	9	0.07
462496		4.02	0.07	1.13	0.2	<0.2	<10	40	0.10	0.08	2.31	0.55	8.16	8.0	12	0.08
462497		6.20	0.85	1.41	0.3	<0.2	<10	40	0.09	1.12	1.88	2.71	8.23	11.0	8	0.09
462498		7.31	1.14	1.24	0.7	<0.2	<10	40	0.07	1.14	2.04	1.35	5.62	12.9	7	0.09
462499		6.47	0.46	1.52	0.4	<0.2	<10	40	0.10	0.51	2.18	2.94	12.30	11.9	7	0.11
462500		<0.02	0.42	1.43	0.3	<0.2	<10	30	0.08	0.58	2.05	2.92	11.85	10.8	7	0.10
462501		6.79	0.77	1.59	0.6	<0.2	<10	30	0.08	0.36	1.79	4.34	11.90	12.3	9	0.10
462502		7.70	0.52	1.23	0.3	<0.2	<10	40	0.10	0.51	2.07	3.50	15.45	10.3	5	0.11
462503		4.65	0.78	1.28	0.8	<0.2	<10	40	0.08	0.44	2.34	17.05	13.85	10.9	5	0.10
462504		3.70	0.22	1.06	0.2	<0.2	<10	50	0.07	0.07	2.51	2.60	13.40	9.8	7	0.08
462505		5.18	0.20	0.72	0.2	<0.2	<10	50	0.07	0.09	3.10	1.61	10.30	10.2	4	0.12
462506		5.91	0.02	1.47	0.2	<0.2	<10	50	0.09	0.01	2.17	0.09	6.51	9.7	8	0.07
462507		5.22	0.05	1.46	0.2	<0.2	<10	60	0.10	0.02	1.65	1.07	4.75	9.8	8	0.07
462508		7.33	0.05	1.38	0.4	<0.2	<10	50	0.11	0.01	1.56	0.58	6.78	9.9	10	0.06
462509		7.77	0.03	1.36	0.4	<0.2	<10	60	0.11	<0.01	1.42	0.02	5.59	9.6	12	0.06
462510		0.04	2.69	1.73	29.0	0.3	10	60	0.32	0.92	0.88	2.22	10.95	10.8	29	4.02
462511		7.64	0.03	1.19	0.2	<0.2	<10	60	0.10	<0.01	1.59	0.03	5.33	7.9	7	0.07



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Page: 2 - B
Total # Pages: 3 (A - D)
Plus Appendix Pages
Finalized Date: 20-DEC-2016
Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207809

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
462473		147.0	1.84	3.83	<0.05	0.04	0.01	0.012	0.09	2.1	6.8	0.97	1120	2.36	0.02
462474		149.0	1.76	3.72	<0.05	0.04	<0.01	0.008	0.08	2.5	6.9	0.94	991	23.9	0.03
462475		50.9	2.12	3.61	<0.05	<0.02	0.01	0.043	0.14	1.9	6.9	0.82	2250	0.73	0.02
462476		42.8	1.82	3.89	<0.05	0.03	<0.01	0.009	0.08	2.0	6.7	0.90	1060	0.96	0.03
462477		879	2.33	4.65	<0.05	0.02	<0.01	0.014	0.09	1.9	7.3	1.03	989	11.50	0.03
462370		50.1	2.72	5.39	0.06	0.30	0.02	0.018	0.10	5.5	8.6	0.72	484	5.88	0.08
462478		423	2.48	3.42	<0.05	<0.02	0.03	0.116	0.15	1.3	8.8	0.85	2900	1.61	0.01
462479		76.6	2.13	3.57	<0.05	<0.02	0.02	0.041	0.14	1.8	8.7	0.86	2500	0.57	0.02
462480		80.1	2.18	3.65	<0.05	<0.02	0.01	0.036	0.12	1.9	8.8	0.88	2550	0.66	0.02
462481		131.0	2.58	4.64	<0.05	<0.02	0.01	0.054	0.09	2.3	9.5	0.98	2080	0.79	0.02
462482		131.0	3.08	4.29	<0.05	<0.02	0.08	0.304	0.10	2.3	9.7	0.95	2300	2.34	0.02
462483		163.5	3.06	4.48	<0.05	<0.02	0.08	0.390	0.12	4.5	9.0	0.96	2910	1.38	0.02
462484		288	2.49	3.46	<0.05	<0.02	0.06	0.230	0.14	2.0	7.9	0.83	2710	1.00	0.02
462485		41.2	2.15	3.60	<0.05	<0.02	0.02	0.089	0.12	1.8	7.9	0.82	2890	0.74	0.02
462486		188.5	2.53	3.70	<0.05	<0.02	0.18	0.307	0.14	1.6	8.7	0.85	3260	1.51	0.02
462487		45.2	2.17	4.34	<0.05	<0.02	0.03	0.026	0.07	2.3	9.3	0.98	1940	0.90	0.03
462488		65.2	2.09	4.07	<0.05	<0.02	0.04	0.039	0.08	2.1	9.4	1.03	1840	1.02	0.03
462489		29.6	1.67	3.47	<0.05	0.03	0.01	0.031	0.09	2.3	7.3	0.85	1360	1.85	0.02
462490		801	5.28	6.00	0.12	0.04	0.02	0.024	0.66	4.4	4.5	5.48	455	91.7	0.09
462491		25.5	1.93	3.34	0.05	0.02	0.01	0.052	0.12	2.0	8.9	0.84	1720	1.04	0.02
462492		80.6	3.01	4.57	0.06	<0.02	0.02	0.149	0.13	1.7	12.2	1.08	2620	0.89	0.01
462493		100.5	2.28	4.15	0.06	<0.02	0.01	0.116	0.09	1.9	10.6	0.97	2200	1.47	0.02
462494		522	2.99	3.35	0.05	<0.02	0.01	0.118	0.12	1.6	8.8	0.83	2430	1.32	0.01
462495		164.0	2.57	4.18	0.05	<0.02	<0.01	0.059	0.10	2.8	10.4	0.93	2190	1.87	0.01
462496		11.1	2.01	3.38	0.05	<0.02	<0.01	0.021	0.11	3.3	8.4	0.74	2540	1.13	0.01
462497		211	3.01	3.96	0.06	<0.02	0.01	0.184	0.13	3.3	10.7	0.87	2530	0.99	0.01
462498		437	2.75	3.45	0.05	<0.02	0.01	0.108	0.15	2.2	8.8	0.79	2610	2.25	0.02
462499		173.0	3.09	4.11	0.07	<0.02	0.02	0.133	0.17	4.9	10.8	0.95	3720	1.24	0.01
462500		163.5	2.86	3.99	0.07	<0.02	0.02	0.136	0.16	4.7	10.4	0.89	3510	1.25	0.01
462501		386	3.36	4.47	0.08	<0.02	0.04	0.294	0.15	4.6	11.2	0.95	3300	0.80	0.01
462502		204	2.90	3.52	0.07	<0.02	0.06	0.195	0.16	6.3	8.0	0.86	4600	0.84	0.02
462503		438	3.76	3.75	0.07	<0.02	0.83	0.972	0.13	5.7	9.7	1.07	4810	6.99	0.03
462504		97.3	2.87	3.57	0.06	<0.02	0.04	0.155	0.10	5.5	8.4	1.14	2570	0.83	0.05
462505		90.6	2.62	2.27	0.05	<0.02	0.04	0.083	0.11	4.2	5.3	1.07	2770	1.45	0.04
462506		6.1	2.22	5.30	0.05	0.04	<0.01	0.007	0.08	2.8	12.5	1.00	756	0.71	0.04
462507		26.4	2.17	4.44	0.05	<0.02	0.02	0.025	0.11	1.9	10.2	1.01	1260	1.20	0.03
462508		34.3	1.82	4.18	0.06	0.05	<0.01	0.010	0.08	2.8	8.8	0.98	998	1.23	0.03
462509		19.6	1.78	3.97	0.06	0.05	<0.01	<0.005	0.11	2.4	8.3	0.98	767	1.00	0.03
462510		2470	4.48	5.10	0.11	0.03	0.05	0.134	0.31	5.5	17.2	0.59	772	230	0.05
462511		14.4	1.53	3.70	0.06	0.04	<0.01	<0.005	0.12	2.2	7.3	0.81	711	1.45	0.03



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Page: 2 - C
Total # Pages: 3 (A - D)
Plus Appendix Pages
Finalized Date: 20-DEC-2016
Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207809

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
462473		5.1	400	0.7	1.8	0.001	0.07	0.13	1.4	<0.2	<0.2	42.9	<0.01	0.02	0.8
462474		4.9	420	0.7	1.5	0.004	0.06	0.14	1.2	0.2	<0.2	40.3	<0.01	0.01	1.0
462475		4.2	450	0.7	2.6	<0.001	0.14	<0.05	1.3	0.2	<0.2	53.9	<0.01	0.02	1.0
462476		4.4	420	0.6	1.7	<0.001	0.05	0.11	1.2	<0.2	<0.2	44.9	<0.01	0.02	0.9
462477		5.1	400	0.6	1.9	0.002	0.07	0.07	1.3	0.2	<0.2	38.0	<0.01	<0.01	0.9
462370		30.4	560	3.7	4.4	0.001	0.07	0.57	4.7	0.4	1.0	44.7	<0.01	0.02	1.2
462478		8.0	400	1.7	3.0	0.001	0.86	0.05	1.2	0.2	<0.2	31.7	<0.01	0.34	0.8
462479		8.2	390	1.3	2.6	<0.001	0.36	0.05	1.2	<0.2	<0.2	33.7	<0.01	0.07	0.7
462480		8.3	410	1.3	2.4	<0.001	0.38	0.06	1.2	0.2	<0.2	34.3	<0.01	0.07	0.7
462481		9.3	500	1.1	1.8	<0.001	0.22	0.08	1.5	0.2	<0.2	37.2	<0.01	0.13	1.4
462482		8.3	400	1.2	1.9	0.001	0.89	<0.05	1.4	0.3	<0.2	31.2	<0.01	0.34	1.0
462483		8.7	470	2.7	2.6	<0.001	0.73	0.06	2.2	0.3	<0.2	42.1	<0.01	0.28	1.0
462484		8.3	400	1.7	2.7	0.001	0.81	<0.05	1.3	0.2	<0.2	36.8	<0.01	0.39	1.1
462485		7.3	410	1.6	2.3	<0.001	0.22	<0.05	1.2	0.2	<0.2	40.5	<0.01	0.09	0.7
462486		7.9	400	1.4	2.6	0.001	0.53	<0.05	1.2	0.2	<0.2	45.3	<0.01	0.23	1.0
462487		8.9	410	0.9	1.3	<0.001	0.15	0.08	1.3	<0.2	<0.2	37.0	<0.01	0.04	0.8
462488		9.3	430	0.7	1.5	<0.001	0.17	0.08	1.2	<0.2	<0.2	34.1	<0.01	0.04	0.9
462489		7.5	390	0.9	1.7	<0.001	0.08	0.10	1.1	<0.2	<0.2	36.3	<0.01	0.03	0.7
462490		595	640	4.3	27.3	0.096	3.68	0.75	8.2	3.4	0.4	51.0	<0.01	0.23	0.9
462491		7.2	390	1.0	2.1	<0.001	0.23	0.08	1.4	<0.2	<0.2	33.3	<0.01	0.07	0.6
462492		9.7	440	1.3	2.4	<0.001	0.61	<0.05	2.0	0.4	<0.2	33.3	<0.01	0.20	0.5
462493		8.4	370	1.0	1.7	<0.001	0.28	0.06	1.7	0.2	<0.2	35.1	<0.01	0.08	0.7
462494		7.6	390	0.9	2.1	0.001	1.26	0.05	1.6	0.4	<0.2	31.3	<0.01	0.28	0.5
462495		8.7	400	1.3	1.8	<0.001	0.48	0.05	2.2	0.3	<0.2	37.5	<0.01	0.25	0.6
462496		6.8	330	1.6	2.0	<0.001	0.18	0.05	1.9	0.2	<0.2	40.8	<0.01	0.10	0.6
462497		7.6	360	1.6	2.3	<0.001	0.70	0.05	2.1	0.3	<0.2	34.6	<0.01	1.25	0.4
462498		7.8	350	1.7	2.7	0.001	1.04	<0.05	1.7	0.3	<0.2	34.2	<0.01	1.63	0.4
462499		9.2	420	2.0	3.0	0.001	0.66	<0.05	2.2	0.4	<0.2	33.6	<0.01	0.42	0.8
462500		8.7	380	1.9	2.8	<0.001	0.59	<0.05	2.2	0.4	<0.2	32.9	<0.01	0.43	0.5
462501		9.1	380	1.6	2.6	0.001	0.68	<0.05	2.7	0.4	<0.2	30.6	<0.01	0.33	0.5
462502		7.4	360	1.1	2.9	<0.001	0.57	<0.05	2.1	0.5	<0.2	35.8	<0.01	0.45	0.7
462503		8.2	380	1.1	2.3	0.001	0.99	<0.05	2.1	0.7	<0.2	50.3	<0.01	0.47	0.8
462504		8.9	420	0.7	1.7	<0.001	0.20	<0.05	2.7	0.4	<0.2	51.2	<0.01	0.08	0.9
462505		7.0	410	1.0	2.0	0.001	0.27	<0.05	1.8	0.3	<0.2	70.0	<0.01	0.09	0.9
462506		7.8	390	0.9	1.6	<0.001	<0.01	0.07	2.5	<0.2	<0.2	64.5	<0.01	0.01	0.6
462507		8.1	370	0.6	2.0	<0.001	0.15	0.07	1.8	0.2	<0.2	47.5	<0.01	0.03	0.5
462508		7.9	370	0.6	1.4	<0.001	0.07	0.13	1.9	0.3	0.2	60.0	<0.01	0.01	1.0
462509		7.5	350	0.4	1.9	<0.001	0.06	0.14	1.9	0.3	0.2	51.3	<0.01	0.01	0.7
462510		20.6	710	73.0	15.5	0.224	2.18	1.73	2.8	4.3	0.7	57.7	<0.01	0.77	3.4
462511		5.8	360	0.6	2.1	<0.001	0.04	0.10	1.6	0.2	0.2	60.0	<0.01	<0.01	0.8



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Page: 2 - D
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 20-DEC-2016
 Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207809

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46	Mo-OG46	Au-AA23
		Tl	U	V	W	Y	Zn	Zr	Cu	Mo	Au
		ppm 0.02	ppm 0.05	ppm 1	ppm 0.05	ppm 0.05	ppm 2	ppm 0.5	% 0.001	% 0.001	ppm 0.005
462473		<0.02	0.24	15	0.12	4.85	345	<0.5			
462474		<0.02	0.27	15	0.07	3.99	226	<0.5			
462475		<0.02	0.30	12	0.07	4.71	518	<0.5			
462476		<0.02	0.25	15	0.05	3.68	144	<0.5			
462477		<0.02	0.23	22	<0.05	3.60	60	<0.5			
462370		0.06	0.31	59	0.48	8.29	42	8.9			
462478		0.02	0.18	10	0.11	3.51	1120	<0.5			
462479		0.02	0.18	11	0.05	3.23	730	<0.5			
462480		<0.02	0.20	11	0.05	3.25	722	<0.5			
462481		<0.02	0.45	29	<0.05	4.08	634	<0.5			
462482		<0.02	0.32	14	0.06	3.74	2680	<0.5			
462483		0.02	0.85	19	0.21	7.27	2440	<0.5			
462484		0.02	0.50	12	0.10	3.91	1680	<0.5			
462485		<0.02	0.32	12	0.06	4.09	773	<0.5			
462486		<0.02	0.29	10	0.06	4.30	2190	<0.5			
462487		<0.02	0.22	16	<0.05	3.28	740	<0.5			
462488		<0.02	0.20	16	0.05	3.17	932	<0.5			
462489		<0.02	0.34	13	0.13	3.74	589	<0.5			
462490		0.57	0.28	70	10.50	5.09	61	1.3			
462491		<0.02	0.22	12	0.11	3.35	565	<0.5			
462492		0.02	0.18	21	0.11	3.45	1600	<0.5			
462493		<0.02	0.20	14	0.09	3.21	1200	<0.5			
462494		<0.02	0.19	14	0.10	2.84	1620	<0.5			
462495		<0.02	0.28	18	0.07	4.73	472	<0.5			
462496		<0.02	0.30	12	0.20	5.11	360	<0.5			
462497		<0.02	0.24	14	0.13	4.79	1240	<0.5			
462498		0.02	0.18	11	0.10	3.51	724	<0.5			
462499		0.02	0.44	13	0.11	5.75	1440	<0.5			
462500		0.02	0.35	12	0.11	5.47	1370	<0.5			
462501		0.02	0.32	17	0.11	5.33	2090	<0.5			
462502		0.02	0.47	12	0.12	6.08	1600	<0.5			
462503		0.02	0.37	18	0.09	5.75	5410	<0.5			
462504		<0.02	0.35	22	0.07	6.21	444	<0.5			
462505		<0.02	0.32	14	0.07	5.65	342	<0.5			
462506		<0.02	0.26	23	<0.05	5.20	85	<0.5			
462507		<0.02	0.32	19	0.07	3.71	490	<0.5			
462508		<0.02	0.54	18	0.06	5.22	254	0.5			
462509		<0.02	0.20	19	0.07	4.61	64	<0.5			
462510		0.27	0.61	32	2.13	5.27	447	0.9	0.237	0.027	0.284
462511		<0.02	0.24	15	0.05	3.86	68	<0.5			



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Page: 3 - A
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 20-DEC-2016
 Account: GIBMIN

Project: SGM2016-19

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		Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
462512		7.58	0.04	1.31	0.2	<0.2	<10	70	0.09	0.01	1.95	0.13	3.84	8.9	9	0.09
462513		6.45	0.19	1.34	<0.1	<0.2	<10	50	0.07	0.07	2.13	1.78	4.70	9.8	6	0.09
462514		6.99	0.54	1.44	<0.1	<0.2	<10	60	0.09	0.13	1.41	1.45	5.59	9.7	6	0.07
462515		6.61	0.19	1.46	0.2	<0.2	<10	50	0.10	0.03	1.77	0.55	5.34	10.4	5	0.06
462516		6.73	0.08	1.52	0.2	<0.2	<10	40	0.09	0.04	1.61	0.98	5.67	9.2	5	0.06
462517		6.62	0.27	1.61	0.4	<0.2	<10	60	0.09	0.05	1.45	2.07	5.48	10.7	5	0.07
462518		3.50	0.11	1.67	0.2	<0.2	<10	50	0.13	0.02	1.36	0.35	6.28	11.0	4	<0.05
462519		3.98	1.69	1.68	0.4	<0.2	<10	60	0.10	0.16	0.82	5.09	4.72	14.2	4	0.08
462520		<0.02	1.86	1.71	0.4	<0.2	<10	60	0.10	0.16	0.82	4.90	4.72	14.4	5	0.09
462521		6.55	0.08	0.96	0.4	<0.2	<10	60	0.08	0.04	1.17	0.52	4.04	5.5	6	0.05
462522		6.96	0.04	1.44	0.2	<0.2	<10	50	0.09	0.05	0.75	0.07	3.52	9.7	11	0.05
462523		7.99	0.12	1.74	0.4	<0.2	<10	70	0.15	0.04	1.24	0.20	5.50	12.4	5	0.08
462524		6.78	0.36	1.56	0.2	<0.2	<10	50	0.10	0.02	1.52	1.59	5.67	10.4	5	0.06
462525		6.42	1.41	1.78	0.5	<0.2	<10	50	0.08	0.24	1.49	2.81	5.46	14.8	4	0.08
462526		6.23	3.92	1.54	0.6	<0.2	<10	50	0.08	0.40	2.73	0.69	12.75	17.2	4	0.09
462527		6.76	0.54	1.73	0.1	<0.2	<10	50	0.10	0.06	3.10	0.33	13.65	11.9	4	0.10
462528		5.37	0.11	1.54	0.2	<0.2	<10	40	0.12	0.04	2.41	0.39	10.80	9.8	4	0.34
462529		2.24	1.97	1.36	0.2	<0.2	<10	30	0.16	0.03	3.31	0.16	19.90	14.3	5	0.38
462530		<0.02	0.30	0.49	556	<0.2	10	10	0.97	8.64	3.97	0.02	26.8	888	22	0.25
462531		7.06	0.04	1.55	0.8	<0.2	<10	30	0.12	0.03	2.97	0.05	20.1	10.6	6	0.31
462532		6.93	0.11	1.56	0.5	<0.2	<10	40	0.10	0.09	1.59	4.10	17.30	11.2	5	0.31
462533		6.02	0.08	1.53	0.3	<0.2	<10	50	0.13	0.02	0.78	0.10	12.55	10.3	5	0.13
462534		8.10	0.06	1.56	0.2	<0.2	<10	130	0.10	0.01	1.83	0.11	6.78	10.6	6	0.05
462535		6.95	0.08	1.23	0.3	<0.2	<10	50	0.10	0.03	1.46	0.10	15.95	10.8	4	0.10
462536		6.79	0.07	1.59	0.2	<0.2	<10	60	0.10	0.02	1.68	0.12	11.80	10.4	5	0.19
462537		3.92	0.03	1.65	0.1	<0.2	<10	50	0.09	0.03	1.11	0.15	11.75	10.5	4	0.10
462538		6.57	0.07	0.58	0.2	<0.2	<10	50	0.09	0.03	3.00	0.29	15.95	9.0	5	0.09
462539		3.93	0.03	0.62	0.5	<0.2	<10	40	0.07	0.06	3.53	0.47	12.80	9.2	8	0.10
462540		<0.02	0.04	0.63	0.5	<0.2	<10	40	0.07	0.05	3.52	0.51	12.65	9.5	10	0.11
462541		7.96	1.13	0.55	0.4	0.2	<10	40	0.09	3.28	3.35	0.70	12.20	20.4	6	0.13



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Page: 3 - B
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 20-DEC-2016
 Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207809

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
462512		22.7	1.88	3.85	<0.05	<0.02	<0.01	0.006	0.16	1.5	8.9	0.92	1120	1.00	0.02
462513		99.6	2.15	4.03	0.05	<0.02	0.01	0.073	0.14	1.9	8.7	0.91	1560	2.61	0.02
462514		707	2.17	4.05	0.07	<0.02	<0.01	0.162	0.12	2.3	8.9	0.98	1330	2.49	0.03
462515		99.1	2.15	4.28	0.06	<0.02	<0.01	0.018	0.10	2.2	9.2	0.99	1610	7.84	0.03
462516		41.3	2.28	4.35	0.06	<0.02	<0.01	0.029	0.12	2.4	9.2	0.99	1780	1.36	0.03
462517		161.0	2.50	4.34	0.07	0.02	0.01	0.102	0.12	2.1	9.8	1.09	1540	2.07	0.02
462518		59.8	2.30	4.72	0.08	0.04	<0.01	0.017	0.09	2.4	9.3	1.20	1200	1.31	0.03
462519		1480	3.57	4.72	0.09	<0.02	0.03	0.371	0.15	1.7	9.5	1.12	1470	0.96	0.01
462520		1665	3.69	4.62	0.08	<0.02	0.03	0.363	0.17	1.8	9.4	1.16	1580	1.09	0.02
462521		52.5	1.32	2.57	0.06	0.02	<0.01	0.015	0.13	1.6	4.6	0.58	791	1.17	0.03
462522		23.1	2.03	3.51	0.05	0.02	<0.01	0.008	0.09	1.3	8.4	1.06	736	1.52	0.03
462523		63.3	2.36	4.52	0.05	0.03	<0.01	0.026	0.14	2.1	9.8	1.22	1200	4.44	0.03
462524		410	2.38	4.14	0.05	0.02	0.01	0.106	0.14	2.3	9.2	1.07	1460	0.86	0.03
462525		1010	3.82	4.54	0.05	<0.02	0.03	0.403	0.17	2.1	10.4	1.12	2220	5.77	0.02
462526		2840	3.42	4.56	0.06	<0.02	0.01	0.256	0.15	5.1	8.1	0.98	1680	3.13	0.04
462527		487	2.96	5.28	0.07	<0.02	<0.01	0.056	0.12	5.5	10.3	1.18	1620	0.64	0.04
462528		70.8	2.44	4.29	0.06	<0.02	0.01	0.023	0.13	4.4	9.3	1.02	1880	11.85	0.03
462529		2450	2.60	3.84	0.08	<0.02	<0.01	0.034	0.07	7.7	8.8	0.88	1520	10.60	0.04
462530		3000	2.90	1.46	0.08	0.49	0.05	0.208	0.26	12.7	3.4	2.17	444	11.80	0.01
462531		39.5	2.75	4.52	0.07	0.02	<0.01	0.022	0.08	7.8	9.8	1.07	1860	1.17	0.03
462532		66.0	3.03	4.47	0.07	<0.02	0.06	0.097	0.10	6.5	8.7	1.06	1440	3.53	0.03
462533		100.5	2.38	4.31	0.06	0.04	<0.01	0.022	0.10	4.8	7.6	1.09	960	1.52	0.03
462534		54.6	2.17	4.47	0.05	0.04	<0.01	0.012	0.09	2.6	8.0	1.14	940	0.86	0.04
462535		45.3	2.80	3.95	0.07	<0.02	<0.01	0.028	0.10	6.3	7.0	1.07	1570	0.62	0.05
462536		69.0	2.43	4.47	0.06	0.02	<0.01	0.024	0.10	4.6	8.7	1.09	586	6.60	0.04
462537		28.3	2.52	4.97	0.07	<0.02	<0.01	0.027	0.10	4.6	9.2	1.15	649	1.19	0.04
462538		46.3	2.63	1.53	0.07	<0.02	<0.01	0.025	0.13	6.4	2.0	1.05	2140	1.05	0.06
462539		21.4	3.49	1.65	0.06	<0.02	<0.01	0.079	0.11	5.2	2.4	1.12	3790	2.45	0.06
462540		22.1	3.53	1.66	0.06	<0.02	<0.01	0.081	0.11	5.2	2.4	1.12	3770	2.44	0.06
462541		824	3.80	1.46	0.06	<0.02	0.01	0.205	0.10	4.9	1.9	1.01	3360	163.5	0.08



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Page: 3 - C
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 20-DEC-2016
 Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207809

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
462512		7.1	360	0.5	2.8	<0.001	0.04	<0.05	1.7	<0.2	<0.2	44.7	<0.01	0.01	0.7
462513		6.1	380	0.6	2.5	0.001	0.12	<0.05	1.9	0.2	<0.2	42.4	<0.01	0.08	0.7
462514		5.3	400	0.6	2.0	<0.001	0.24	0.05	1.7	0.2	<0.2	39.6	<0.01	0.26	1.3
462515		5.1	410	0.7	1.8	0.001	0.14	0.06	1.9	0.2	<0.2	46.4	<0.01	0.06	1.0
462516		4.9	390	0.7	2.0	<0.001	0.12	0.05	1.9	0.2	<0.2	40.6	<0.01	0.04	1.3
462517		5.3	420	0.7	2.0	<0.001	0.28	0.07	1.8	0.3	<0.2	38.1	<0.01	0.10	1.0
462518		5.6	410	0.7	1.5	<0.001	0.06	0.09	2.0	0.2	0.2	48.7	<0.01	0.02	1.2
462519		5.6	460	0.4	2.7	<0.001	0.76	0.05	1.7	0.3	<0.2	26.5	<0.01	0.55	0.8
462520		5.6	470	0.5	2.9	<0.001	0.82	0.05	1.7	0.4	<0.2	24.9	<0.01	0.62	0.8
462521		3.0	320	0.4	2.1	<0.001	0.08	0.07	1.0	<0.2	<0.2	35.9	<0.01	0.04	0.8
462522		6.0	290	0.5	1.5	<0.001	0.02	0.08	1.0	<0.2	<0.2	30.6	<0.01	0.01	0.5
462523		6.4	490	0.7	2.3	0.001	0.11	0.10	1.5	<0.2	<0.2	46.3	<0.01	0.04	0.7
462524		5.7	440	0.9	2.2	<0.001	0.37	0.06	1.4	<0.2	<0.2	38.3	<0.01	0.07	0.9
462525		5.9	450	1.0	2.6	0.001	1.15	<0.05	1.6	0.2	<0.2	35.5	<0.01	0.36	1.7
462526		5.0	480	1.5	2.4	0.001	1.13	<0.05	2.3	0.3	<0.2	72.7	<0.01	0.54	1.3
462527		5.8	470	1.9	2.1	<0.001	0.20	0.06	3.5	0.3	<0.2	86.3	<0.01	0.04	1.4
462528		5.2	470	1.6	2.3	0.003	0.30	0.05	2.6	0.4	<0.2	66.3	<0.01	0.03	1.0
462529		11.8	400	2.3	1.5	0.005	0.23	0.10	4.1	0.6	0.2	104.0	<0.01	0.07	1.3
462530		154.0	650	10.2	9.1	0.005	1.68	0.82	2.6	2.3	0.3	20.9	<0.01	0.03	4.9
462531		5.7	460	3.7	1.6	<0.001	0.01	0.22	5.7	0.5	0.3	114.5	<0.01	<0.01	1.4
462532		5.5	460	2.5	1.9	<0.001	0.67	0.13	4.0	0.3	0.2	60.0	<0.01	0.09	1.3
462533		5.5	500	1.7	1.8	<0.001	0.04	0.11	3.4	0.3	0.2	37.1	<0.01	<0.01	1.1
462534		5.0	480	0.7	1.6	<0.001	0.09	0.08	1.9	0.2	<0.2	56.4	<0.01	0.01	0.8
462535		5.5	430	0.9	1.8	<0.001	0.06	<0.05	3.4	0.4	<0.2	38.8	<0.01	<0.01	0.9
462536		5.2	520	1.4	1.8	0.001	0.02	0.10	2.9	0.3	0.2	61.1	<0.01	<0.01	0.8
462537		5.4	490	0.9	1.7	<0.001	0.02	0.05	2.6	0.2	<0.2	43.9	<0.01	<0.01	1.0
462538		4.0	420	0.8	2.1	<0.001	0.12	<0.05	1.7	0.3	<0.2	59.4	<0.01	0.03	1.1
462539		4.5	610	0.9	1.7	<0.001	0.33	<0.05	2.1	0.4	<0.2	83.1	<0.01	0.07	0.7
462540		4.7	640	0.9	1.7	<0.001	0.34	<0.05	2.2	0.3	<0.2	85.3	<0.01	0.06	0.7
462541		7.2	530	0.9	1.5	0.014	1.11	<0.05	2.2	0.4	<0.2	78.1	<0.01	3.55	0.8



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Page: 3 - D
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 20-DEC-2016
 Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207809

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
462512		0.02	0.20	13	0.05	3.17	221	<0.5			
462513		<0.02	0.22	14	0.06	3.35	960	<0.5			
462514		<0.02	0.51	16	0.09	3.32	807	<0.5			
462515		<0.02	0.48	17	0.05	3.38	469	<0.5			
462516		<0.02	0.26	18	0.09	3.37	675	<0.5			
462517		<0.02	0.35	20	0.08	3.80	1060	<0.5			
462518		<0.02	0.37	23	0.06	4.52	361	<0.5			
462519		<0.02	0.28	22	0.13	2.97	1800	<0.5			
462520		0.02	0.27	22	0.15	2.75	1840	<0.5	0.159		
462521		<0.02	0.26	10	0.08	2.26	272	<0.5			
462522		<0.02	0.24	16	0.07	2.24	325	<0.5			
462523		<0.02	0.26	20	0.09	3.77	403	<0.5			
462524		<0.02	0.40	19	0.09	3.59	824	<0.5			
462525		<0.02	0.47	18	0.15	3.69	1440	<0.5			
462526		0.02	0.51	20	0.06	8.06	423	<0.5	0.265		
462527		<0.02	0.47	27	0.05	8.65	329	<0.5			
462528		<0.02	0.40	23	0.10	6.85	269	<0.5			
462529		<0.02	0.59	34	0.08	10.60	81	<0.5	0.227		
462530		0.24	2.12	9	2.02	7.38	6	14.8	0.295		
462531		<0.02	0.63	45	0.13	12.70	110	<0.5			
462532		<0.02	0.80	35	0.16	9.28	1320	<0.5			
462533		<0.02	0.74	35	0.10	7.47	108	<0.5			
462534		<0.02	0.34	27	<0.05	5.46	136	<0.5			
462535		<0.02	0.53	25	0.10	8.27	164	<0.5			
462536		<0.02	0.38	34	<0.05	8.83	105	<0.5			
462537		<0.02	0.41	27	0.05	6.31	246	<0.5			
462538		<0.02	0.62	9	0.10	5.75	144	<0.5			
462539		<0.02	0.59	8	0.12	5.41	216	<0.5			
462540		<0.02	0.53	8	0.12	5.54	216	<0.5			
462541		<0.02	0.67	8	0.17	6.32	244	<0.5		0.017	0.250



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 20-DEC-2016
Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16207809

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.

CRU - 31	CRU - QC	LOG - 21d	LOG - 22
LOG - 23	PUL - 31	PUL - 31d	PUL - QC
SPL - 21	SPL - 21d	WEI - 21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au - AA23	Cu - OG46	ME - MS41	ME - OG46
Mo - OG46			



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Page: 1
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 9-JAN-2017
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Project: SGM2016-19

P.O. No.: SO218733

This report is for 5 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 28-DEC-2016.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

To: **GIBRALTAR MINES LTD.**
ATTN: ALS MINERALS

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

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

Comments: ***Corrected copy with "TI" reported from ME-MS81***

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 9-JAN-2017
 Account: GIBMIN

Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16228771

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2
462487		438	20.0	40	0.58	2.70	1.72	0.73	17.1	2.88	5.0	0.58	8.0	0.28	2.4
462501		539	18.7	20	1.35	2.74	1.72	0.65	18.0	2.89	5.0	0.60	7.4	0.27	2.4
462509		591	20.4	20	0.69	2.93	1.83	0.66	16.9	2.90	4.6	0.61	8.2	0.29	2.2
462518		564	22.5	20	0.50	3.18	1.93	0.90	18.2	3.37	5.2	0.63	8.2	0.33	2.7
462538		743	21.0	20	0.93	3.25	1.77	0.75	16.9	3.13	4.6	0.69	8.4	0.31	2.1

Comments: ***Corrected copy with "TI" reported from ME-MS81***

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Page: 2 - B
 Total # Pages: 2 (A - D)
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Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16228771

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tm	U	V	W	Y
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.5	0.01	0.05	5	1	0.5
462487		2.76	20.4	3.15	1	313	0.1	0.48	1.13	<0.5	0.28	1.01	87	2	17.3
462501		2.62	45.7	2.97	1	98.4	0.1	0.48	0.69	<0.5	0.25	0.61	90	5	17.1
462509		2.86	19.7	3.26	1	346	0.1	0.44	1.59	<0.5	0.27	0.80	93	1	18.7
462518		3.24	18.5	3.44	1	353	0.1	0.54	1.66	<0.5	0.30	1.34	108	1	20.4
462538		3.08	39.2	3.43	1	237	0.1	0.52	1.36	<0.5	0.31	0.99	96	2	19.8

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Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16228771

Sample Description	Method Analyte Units LOR	ME-MS81 Zr ppm 2	ME-ICP06 SiO2 % 0.01	ME-ICP06 Al2O3 % 0.01	ME-ICP06 Fe2O3 % 0.01	ME-ICP06 CaO % 0.01	ME-ICP06 MgO % 0.01	ME-ICP06 Na2O % 0.01	ME-ICP06 K2O % 0.01	ME-ICP06 Cr2O3 % 0.01	ME-ICP06 TiO2 % 0.01	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01	ME-ICP06 BaO % 0.01	OA-GRA05 LOI % 0.01
462487		152	63.7	14.85	4.87	4.05	1.94	3.40	1.24	<0.01	0.42	0.36	0.09	0.03	0.05	3.19
462501		168	63.5	14.60	6.59	2.82	1.88	1.39	2.68	<0.01	0.46	1.05	0.10	0.01	0.06	3.46
462509		146	64.0	15.60	4.57	4.63	1.92	4.14	1.17	<0.01	0.43	0.15	0.09	0.04	0.06	2.73
462518		166	63.5	15.60	5.29	4.48	2.22	3.72	1.05	<0.01	0.47	0.22	0.10	0.04	0.06	2.99
462538		161	60.3	14.75	4.80	4.18	1.92	2.26	2.25	<0.01	0.46	0.28	0.10	0.03	0.08	7.86

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Total # Pages: 2 (A - D)
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Project: SGM2016-19

CERTIFICATE OF ANALYSIS KL16228771

Sample Description	Method Analyte Units LOR	TOT-ICP06
		Total % 0.01
462487		98.19
462501		98.60
462509		99.53
462518		99.74
462538		99.27

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CERTIFICATE OF ANALYSIS KL16228771

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02
TOT-ICP06

ME-ICP06

ME-MS81

OA-GRA05



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CERTIFICATE KL16215259

Project: SGM2016-21

P.O. No.: SO218733

This report is for 125 Drill Core samples submitted to our lab in Kamloops, BC,
Canada on 8-DEC-2016.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Mo-OG46	Ore Grade Mo - Aqua Regia	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

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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.

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Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS KL16215259

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
462582		3.01	0.29	2.50	0.3	<0.2	<10	20	0.18	0.03	0.46	0.66	10.35	19.9	20	0.41
462583		2.39	0.24	2.21	0.2	<0.2	<10	40	0.09	0.01	1.48	0.13	2.55	16.8	14	0.11
462584		6.31	0.29	2.06	0.5	<0.2	<10	30	0.09	0.01	0.72	0.19	2.52	15.7	15	0.07
462585		6.11	0.18	2.01	0.6	<0.2	<10	30	0.11	0.07	0.88	1.94	3.08	17.1	17	0.09
462586		6.48	0.16	2.73	0.6	<0.2	<10	40	0.13	0.03	1.18	2.71	2.34	21.3	17	0.09
462587		6.98	0.67	1.96	4.0	<0.2	<10	40	0.10	0.10	1.92	14.45	2.61	17.4	12	0.11
462588		6.45	0.15	0.86	2.1	<0.2	<10	40	<0.05	0.05	1.85	3.16	2.52	5.6	5	0.09
462589		6.50	0.56	2.13	0.8	<0.2	<10	40	0.10	0.10	1.54	10.65	3.15	14.3	13	0.09
462590		<0.02	0.83	1.40	4.7	0.2	10	110	0.23	0.15	0.84	0.37	11.50	9.5	26	0.36
462591		6.52	0.70	2.53	0.7	<0.2	<10	30	0.08	0.16	1.82	15.35	4.31	17.9	13	0.08
462592		7.40	0.32	2.43	0.5	<0.2	<10	30	0.11	0.05	2.31	2.71	3.71	18.2	16	0.10
462593		7.06	0.79	2.37	0.4	<0.2	<10	30	0.10	0.06	2.95	13.30	3.10	17.8	16	0.08
462594		5.83	0.94	2.68	1.8	<0.2	<10	20	0.12	0.09	2.56	15.30	3.64	23.9	18	0.08
462595		7.08	1.19	1.96	0.7	<0.2	<10	30	0.09	0.23	2.15	5.75	11.50	16.8	13	0.08
462596		7.68	3.66	1.45	3.2	<0.2	<10	40	0.05	1.07	0.58	40.5	9.93	17.5	8	0.10
462597		7.46	4.10	1.94	5.0	<0.2	<10	40	0.05	1.02	0.87	37.3	9.44	17.4	10	0.10
462598		7.49	2.16	1.02	3.7	<0.2	<10	40	0.05	0.78	1.60	22.5	10.65	10.7	6	0.12
462599		7.10	1.50	1.49	4.0	<0.2	<10	40	0.07	0.45	1.42	20.0	7.72	12.0	7	0.11
462600		<0.02	1.43	1.55	3.9	<0.2	<10	40	0.07	0.45	1.46	20.1	8.15	12.5	8	0.11
462601		7.35	0.42	1.22	0.5	<0.2	<10	40	0.09	0.10	2.14	5.14	6.08	9.5	7	0.09
462602		8.01	0.36	1.29	1.6	<0.2	<10	40	0.07	0.12	2.33	7.23	6.21	9.6	7	0.11
462603		7.22	0.14	1.18	0.3	<0.2	<10	40	0.08	0.02	1.68	1.27	5.79	9.5	8	0.08
462604		7.22	0.19	1.33	0.6	<0.2	<10	50	0.09	0.06	2.26	3.58	6.99	9.2	9	0.10
462605		8.16	0.30	1.32	0.4	<0.2	<10	40	0.06	0.11	2.66	3.28	8.55	9.0	8	0.10
462606		7.44	0.48	1.51	0.6	<0.2	<10	40	0.10	0.13	2.51	6.50	7.05	8.3	8	0.09
462607		7.18	0.57	1.52	0.5	<0.2	<10	40	0.07	0.15	1.03	7.60	6.44	9.1	10	0.08
462608		7.29	1.35	1.52	1.1	<0.2	<10	50	0.06	0.45	0.15	20.2	5.47	12.3	7	0.10
462609		3.40	2.18	1.29	1.6	<0.2	<10	50	0.06	1.39	0.22	32.5	5.90	13.6	5	0.13
462610		0.05	0.66	1.70	6.4	0.6	10	100	0.23	0.12	0.87	0.22	9.80	11.9	32	0.54
462611		6.70	3.38	1.30	1.1	<0.2	<10	40	0.08	1.41	1.10	40.5	17.10	14.8	6	0.21
462612		4.06	2.74	1.31	0.7	<0.2	<10	40	0.08	0.52	2.28	16.85	15.55	11.2	9	0.13
462613		7.45	2.69	1.54	0.5	<0.2	<10	40	0.07	0.28	1.38	20.1	8.59	12.2	10	0.09
462614		6.82	0.43	1.67	0.4	<0.2	<10	40	0.09	0.15	2.03	3.73	4.90	11.2	9	0.07
462615		6.82	0.31	1.69	0.4	<0.2	<10	40	0.09	0.15	1.54	3.92	6.09	12.6	11	0.09
462616		7.24	0.14	1.49	0.2	<0.2	<10	30	0.08	0.05	1.30	1.05	6.09	10.5	10	0.07
462617		7.29	0.16	1.47	0.3	<0.2	<10	40	0.09	0.10	2.17	0.64	7.13	10.3	9	0.08
462618		6.86	0.13	1.38	0.1	<0.2	<10	40	0.07	0.09	2.61	0.27	6.18	11.3	10	0.07
462619		6.74	0.30	1.33	0.4	<0.2	<10	50	0.07	0.10	2.12	2.01	14.25	13.7	8	0.09
462620		<0.02	0.25	1.27	0.3	<0.2	<10	40	0.06	0.09	2.12	2.08	14.00	13.4	8	0.09
462621		5.78	0.17	1.54	0.3	<0.2	<10	40	0.10	0.05	1.64	0.16	6.55	10.4	10	0.07



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Project: SGM2016-21

CERTIFICATE OF ANALYSIS KL16215259

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
462582		65.0	4.10	5.75	<0.05	0.02	0.01	0.027	0.08	4.0	16.0	2.17	4950	1.74	0.01
462583		128.0	3.10	5.12	<0.05	<0.02	<0.01	0.006	0.08	1.0	13.9	1.79	937	0.70	0.02
462584		123.0	2.60	4.56	<0.05	0.02	0.01	0.005	0.06	1.0	13.3	1.77	776	1.35	0.02
462585		66.8	3.00	4.30	<0.05	0.02	0.03	0.020	0.08	1.3	13.1	1.73	996	0.81	0.02
462586		56.7	4.37	5.63	<0.05	0.03	0.04	0.065	0.09	1.0	16.9	2.39	1820	1.42	0.02
462587		365	3.83	4.03	<0.05	<0.02	0.11	0.519	0.14	1.0	12.6	1.51	2400	0.73	0.01
462588		34.7	1.72	1.94	<0.05	<0.02	0.03	0.077	0.15	1.0	5.2	0.53	1840	0.65	0.02
462589		128.0	3.85	4.77	<0.05	<0.02	0.06	0.382	0.12	1.3	12.8	1.57	2470	1.12	0.02
462590		3030	2.91	4.84	0.08	0.20	0.03	0.041	0.18	5.6	8.5	0.69	429	0.08	0.19
462591		195.5	4.88	5.08	<0.05	<0.02	0.08	0.529	0.12	1.8	14.2	1.83	3030	0.82	0.01
462592		88.3	3.71	5.07	<0.05	0.02	0.01	0.060	0.09	1.5	13.5	1.98	3130	0.59	0.01
462593		290	3.89	4.95	<0.05	<0.02	0.09	0.608	0.09	1.3	12.2	1.90	3230	1.13	0.01
462594		221	4.61	5.70	<0.05	<0.02	0.10	0.444	0.08	1.5	13.1	2.14	3210	0.77	0.01
462595		281	3.92	4.59	<0.05	<0.02	0.03	0.354	0.10	4.3	10.0	1.46	2890	3.17	0.01
462596		737	5.47	3.26	<0.05	<0.02	0.14	2.97	0.15	3.8	7.2	0.87	2490	7.09	0.01
462597		1060	5.73	4.52	<0.05	<0.02	0.11	2.35	0.14	3.5	10.0	1.18	2750	17.60	0.01
462598		491	3.38	2.77	0.06	<0.02	0.06	1.500	0.15	4.7	6.5	0.66	2960	4.23	0.01
462599		346	4.15	3.75	0.06	<0.02	0.08	1.105	0.17	3.4	9.2	0.93	2530	1.88	0.01
462600		333	4.27	3.79	0.07	0.02	0.08	1.075	0.17	3.6	9.5	0.97	2610	2.34	0.01
462601		110.5	2.16	3.19	0.05	<0.02	0.02	0.095	0.15	2.8	8.3	0.78	2600	1.32	0.02
462602		87.4	2.71	3.18	0.05	<0.02	0.03	0.122	0.15	2.6	8.5	0.81	2890	0.98	0.01
462603		42.9	1.90	3.34	0.05	<0.02	<0.01	0.013	0.09	2.5	8.1	0.83	1990	1.12	0.02
462604		50.4	2.42	3.86	0.06	<0.02	0.02	0.062	0.12	2.9	9.0	0.84	2710	1.64	0.02
462605		93.6	2.58	3.97	0.06	<0.02	0.03	0.077	0.12	3.6	8.8	0.90	3740	0.80	0.02
462606		169.5	2.70	4.20	0.07	<0.02	0.04	0.155	0.11	2.9	10.4	0.93	3460	4.90	0.02
462607		186.0	2.84	4.32	0.06	<0.02	0.04	0.147	0.11	2.9	9.5	0.94	2670	1.19	0.02
462608		392	3.67	3.68	0.05	<0.02	0.09	0.935	0.15	2.4	9.2	0.86	1540	2.30	0.01
462609		603	4.88	3.09	0.06	<0.02	0.13	1.700	0.16	2.4	7.3	0.72	1580	9.80	0.01
462610		4650	3.72	6.03	0.10	0.24	0.03	0.058	0.14	5.2	11.1	0.80	462	197.5	0.10
462611		1140	4.63	3.52	0.07	<0.02	0.24	1.895	0.14	6.8	7.1	0.81	4270	24.2	0.01
462612		749	3.07	3.67	0.07	<0.02	0.08	0.378	0.11	6.4	8.8	0.91	4020	2.83	0.02
462613		772	3.30	4.24	0.06	<0.02	0.07	0.376	0.10	3.9	9.5	1.00	2330	2.14	0.02
462614		130.0	3.02	4.86	0.06	<0.02	0.03	0.020	0.07	2.1	9.8	1.22	3000	2.61	0.03
462615		96.6	2.94	4.99	0.06	<0.02	0.04	0.026	0.06	2.6	10.0	1.16	2050	1.35	0.03
462616		39.3	2.24	4.39	0.06	<0.02	0.01	0.012	0.05	2.8	8.8	1.04	1400	1.10	0.03
462617		52.9	2.42	4.32	0.06	<0.02	0.01	0.009	0.08	3.2	9.4	1.04	2590	0.97	0.03
462618		50.1	2.58	4.03	0.05	<0.02	0.01	0.010	0.08	2.7	9.0	1.09	3300	1.17	0.03
462619		101.5	3.26	3.73	0.05	<0.02	0.01	0.024	0.11	5.8	8.9	1.32	3090	0.97	0.04
462620		84.9	3.22	3.63	0.07	<0.02	0.02	0.023	0.09	6.2	8.8	1.31	3080	1.08	0.04
462621		78.0	2.37	4.81	0.06	<0.02	<0.01	0.006	0.06	2.9	9.7	1.07	1440	1.07	0.04



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Page: 2 - C
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 28-DEC-2016
Account: GIBMIN

Project: SGM2016-21

CERTIFICATE OF ANALYSIS KL16215259

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
462582		19.5	380	2.2	1.5	0.001	0.09	0.21	3.6	0.5	<0.2	17.8	<0.01	0.01	1.4
462583		18.1	390	0.9	1.6	<0.001	0.04	0.06	2.3	<0.2	<0.2	29.0	<0.01	0.02	0.8
462584		15.4	420	0.7	1.2	<0.001	0.05	0.12	1.8	0.3	<0.2	30.6	<0.01	0.03	0.8
462585		15.9	370	0.7	1.6	<0.001	0.46	0.10	1.8	<0.2	<0.2	24.8	<0.01	0.10	1.7
462586		20.4	430	0.6	1.7	0.001	0.88	0.11	1.9	0.2	<0.2	25.9	<0.01	0.05	0.9
462587		14.5	370	1.1	2.2	<0.001	1.35	0.07	1.7	0.4	<0.2	25.6	<0.01	0.16	1.3
462588		4.1	370	0.7	2.3	0.001	0.61	<0.05	0.7	<0.2	<0.2	26.2	<0.01	0.04	0.3
462589		18.7	340	4.7	2.1	0.001	0.76	0.07	2.3	0.4	<0.2	29.7	<0.01	0.10	1.2
462590		20.6	630	7.5	8.0	0.214	0.42	2.06	4.5	1.1	0.9	39.4	<0.01	0.09	1.6
462591		17.4	350	1.1	2.0	0.001	1.31	0.05	2.6	0.4	<0.2	32.4	<0.01	0.21	1.5
462592		18.0	330	1.1	1.5	<0.001	0.35	0.08	2.9	0.2	<0.2	40.2	<0.01	0.04	1.2
462593		16.8	360	1.1	1.5	<0.001	0.69	0.05	2.6	0.3	<0.2	39.7	<0.01	0.09	1.3
462594		20.5	320	1.6	1.4	<0.001	1.13	0.07	3.4	0.4	<0.2	41.6	<0.01	0.10	1.1
462595		12.6	370	1.6	1.6	0.001	0.96	0.05	2.9	0.3	<0.2	36.0	<0.01	0.18	1.2
462596		8.0	300	1.3	2.4	0.002	3.43	<0.05	1.4	0.6	<0.2	7.5	<0.01	1.11	1.2
462597		11.5	340	1.3	2.3	0.005	2.76	<0.05	2.1	0.8	<0.2	10.0	<0.01	0.79	1.3
462598		7.8	330	3.7	3.0	0.001	1.78	0.05	1.2	0.5	<0.2	16.4	0.01	0.56	1.8
462599		8.9	360	2.0	3.3	0.001	1.76	0.05	1.6	0.4	<0.2	19.0	0.01	0.34	1.7
462600		8.8	370	1.7	3.3	<0.001	1.79	<0.05	1.6	0.4	<0.2	19.6	<0.01	0.30	1.8
462601		7.8	380	1.4	2.8	<0.001	0.45	0.05	1.3	0.2	<0.2	36.8	<0.01	0.09	2.0
462602		8.1	350	1.4	2.9	0.001	0.75	0.05	1.3	0.2	<0.2	36.0	<0.01	0.09	1.2
462603		8.0	390	1.1	1.8	<0.001	0.11	0.06	1.3	0.2	<0.2	40.6	<0.01	0.03	0.9
462604		7.8	380	1.4	2.3	<0.001	0.33	0.05	1.7	<0.2	<0.2	47.4	<0.01	0.04	1.0
462605		8.4	450	1.7	2.3	<0.001	0.27	<0.05	2.1	0.3	<0.2	49.8	<0.01	0.05	0.9
462606		9.0	400	1.4	2.2	<0.001	0.36	0.05	2.2	0.2	<0.2	49.6	<0.01	0.07	0.8
462607		9.1	390	1.1	2.2	<0.001	0.45	<0.05	1.7	0.3	<0.2	23.9	<0.01	0.13	1.0
462608		8.5	420	1.6	2.8	<0.001	1.50	<0.05	1.3	0.5	<0.2	7.4	<0.01	0.28	0.9
462609		7.9	340	2.1	3.1	0.002	3.40	0.06	1.2	0.8	<0.2	6.4	<0.01	1.00	0.9
462610		33.4	580	4.6	6.4	0.103	0.66	0.88	6.0	0.9	1.6	44.3	<0.01	0.07	1.1
462611		8.3	400	2.0	2.6	0.002	3.12	0.06	2.1	0.8	<0.2	17.5	<0.01	0.87	1.3
462612		8.8	380	1.5	2.0	<0.001	0.98	0.05	2.4	0.6	<0.2	39.7	<0.01	0.34	1.1
462613		9.8	400	1.1	1.8	<0.001	1.24	0.05	1.8	0.6	<0.2	30.9	<0.01	0.42	1.0
462614		9.9	460	1.5	1.3	<0.001	0.48	<0.05	1.9	0.2	<0.2	42.5	<0.01	0.23	0.6
462615		10.3	480	1.5	1.2	<0.001	0.47	0.06	2.1	0.2	<0.2	43.7	<0.01	0.18	0.9
462616		9.3	480	1.3	0.8	<0.001	0.17	0.07	1.5	<0.2	<0.2	44.0	<0.01	0.11	1.0
462617		9.1	460	1.4	1.5	<0.001	0.17	<0.05	2.0	0.2	<0.2	50.3	<0.01	0.08	1.1
462618		9.4	470	1.3	1.6	<0.001	0.16	<0.05	2.2	<0.2	<0.2	52.9	<0.01	0.06	1.0
462619		11.6	470	1.0	1.9	<0.001	0.30	<0.05	2.3	0.2	<0.2	41.4	<0.01	0.10	1.4
462620		11.5	460	1.0	1.7	<0.001	0.29	<0.05	2.3	0.2	<0.2	39.6	<0.01	0.10	1.4
462621		9.1	480	1.4	1.2	<0.001	0.08	0.06	2.0	0.2	<0.2	53.8	<0.01	0.04	0.8



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Page: 2 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 28-DEC-2016
 Account: GIBMIN

Project: SGM2016-21

CERTIFICATE OF ANALYSIS KL16215259

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
462582		<0.02	0.45	50	0.31	13.85	1060	<0.5			
462583		<0.02	0.19	37	<0.05	2.47	180	<0.5			
462584		<0.02	0.23	31	<0.05	1.98	185	<0.5			
462585		<0.02	0.30	32	0.06	2.37	940	<0.5			
462586		<0.02	0.20	35	0.06	1.99	1630	<0.5			
462587		0.02	0.28	22	0.11	2.29	6380	<0.5			
462588		0.02	0.13	7	0.05	1.62	1650	<0.5			
462589		<0.02	0.35	27	0.06	2.22	4880	<0.5			
462590		0.08	0.31	57	11.55	6.82	57	5.3	0.317	0.029	NSS
462591		0.02	0.33	29	0.06	3.40	6600	<0.5			
462592		<0.02	0.31	33	0.05	3.30	1600	<0.5			
462593		<0.02	0.25	34	<0.05	2.79	6070	<0.5			
462594		<0.02	0.31	41	0.06	3.30	6630	<0.5			
462595		<0.02	0.42	29	0.06	5.58	2690	<0.5			
462596		0.02	0.89	15	0.13	3.58	>10000	<0.5			
462597		0.02	0.42	22	0.19	4.42	>10000	<0.5			
462598		0.02	0.82	9	0.12	5.72	9130	<0.5			
462599		0.02	0.52	13	0.15	5.82	8360	<0.5			
462600		0.02	0.53	13	0.17	6.00	8490	<0.5			
462601		<0.02	0.69	9	0.07	4.51	2210	<0.5			
462602		<0.02	0.46	10	0.11	4.27	3250	<0.5			
462603		<0.02	0.25	12	0.06	3.59	620	<0.5			
462604		<0.02	0.33	12	0.06	5.44	1630	<0.5			
462605		<0.02	0.34	15	0.09	6.88	1640	<0.5			
462606		<0.02	0.34	15	0.06	5.98	2670	<0.5			
462607		<0.02	0.29	14	0.07	4.73	3170	<0.5			
462608		<0.02	0.29	12	0.15	3.58	8730	<0.5			
462609		0.02	0.32	11	0.25	3.56	>10000	<0.5			
462610		0.08	0.34	64	0.38	8.15	64	7.9	0.467	0.024	0.534
462611		0.02	0.77	13	0.14	8.33	>10000	<0.5			
462612		<0.02	0.58	13	0.05	9.38	6230	<0.5			
462613		<0.02	0.27	15	0.05	5.02	8060	<0.5			
462614		<0.02	0.16	21	<0.05	3.64	1620	<0.5			
462615		<0.02	0.24	24	0.05	4.02	1650	<0.5			
462616		<0.02	0.22	21	0.05	3.14	604	<0.5			
462617		<0.02	0.27	18	0.05	5.10	415	<0.5			
462618		<0.02	0.47	18	0.08	5.54	251	<0.5			
462619		<0.02	0.43	17	0.10	7.70	577	<0.5			
462620		<0.02	0.44	16	0.09	7.58	581	<0.5			
462621		<0.02	0.25	22	<0.05	3.91	283	<0.5			



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Page: 3 - A
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 28-DEC-2016
Account: GIBMIN

Project: SGM2016-21

CERTIFICATE OF ANALYSIS KL16215259

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
462622		7.04	0.11	1.44	0.5	<0.2	<10	40	0.09	0.05	2.04	1.71	7.40	11.2	9	0.07
462623		7.51	0.05	1.44	0.1	<0.2	<10	50	0.10	0.02	1.84	0.07	5.89	10.3	9	0.05
462624		7.60	0.07	1.42	0.2	<0.2	<10	50	0.10	0.01	1.47	0.43	6.37	11.3	8	0.07
462625		7.26	0.14	1.46	0.3	<0.2	<10	40	0.10	0.02	1.79	1.70	5.40	10.7	8	0.05
462626		3.97	0.33	1.42	0.7	<0.2	<10	30	0.10	0.05	1.35	3.10	5.36	11.5	8	0.07
462627		3.85	0.28	1.52	0.2	<0.2	<10	30	0.09	0.06	1.99	4.40	5.84	12.6	7	0.08
462628		7.84	0.61	1.84	0.5	<0.2	<10	40	0.09	0.11	1.35	9.11	7.32	13.5	8	0.12
462629		7.44	0.18	1.70	0.4	<0.2	<10	40	0.12	0.02	1.54	2.14	4.57	13.0	8	0.05
462630		0.04	0.44	2.16	14.7	<0.2	10	80	0.32	0.51	1.20	0.21	10.25	49.5	265	1.48
462631		7.24	0.18	1.65	0.3	<0.2	<10	40	0.08	0.03	1.00	2.12	4.96	12.3	9	<0.05
462632		6.97	0.23	1.81	0.4	<0.2	<10	40	0.10	0.05	1.19	6.10	4.29	13.2	9	0.07
462633		7.58	0.18	1.72	0.5	<0.2	<10	30	0.07	0.04	1.90	1.30	4.89	13.6	9	0.06
462634		7.65	0.15	1.86	0.5	<0.2	<10	40	0.08	0.05	1.22	1.82	6.33	14.1	9	0.07
462635		3.79	0.03	1.40	0.4	<0.2	<10	20	0.09	0.05	3.54	0.33	10.50	10.3	6	0.09
462636		3.72	0.04	1.43	0.4	<0.2	<10	30	0.12	0.17	4.55	0.42	19.65	9.3	6	0.16
462637		7.79	0.39	1.64	0.7	<0.2	<10	40	0.08	0.06	1.88	0.81	5.07	12.1	10	0.07
462638		7.93	0.16	1.55	0.5	<0.2	<10	30	0.08	0.03	2.09	0.86	4.82	11.4	8	0.05
462639		7.84	0.21	1.53	0.7	<0.2	<10	30	0.08	0.06	1.91	1.20	4.36	11.8	7	0.06
462640		<0.02	0.18	1.52	0.6	<0.2	<10	30	0.08	0.06	1.88	1.25	4.36	12.4	7	0.06
462641		7.73	0.35	1.30	2.5	<0.2	<10	40	0.07	0.07	1.14	6.97	3.85	8.9	7	0.11
462642		3.46	0.22	1.42	0.6	<0.2	<10	50	0.07	0.06	0.64	4.83	4.61	11.1	11	0.06
462643		3.76	0.26	1.30	0.5	<0.2	<10	40	0.09	0.03	0.88	5.72	5.46	10.2	13	<0.05
462644		7.15	0.11	1.62	0.4	<0.2	<10	50	0.09	0.03	0.87	1.04	5.74	12.0	13	0.08
462645		7.54	0.20	1.71	0.6	<0.2	<10	40	0.08	0.06	1.39	2.58	5.02	14.1	14	0.07
462646		7.42	0.10	1.75	0.4	<0.2	<10	40	0.07	0.04	1.08	1.08	4.70	12.1	13	0.06
462647		8.01	0.16	1.64	2.1	<0.2	<10	60	0.10	0.08	1.24	4.05	5.99	10.8	10	0.09
462648		7.27	0.12	1.66	0.3	<0.2	<10	80	0.10	0.09	1.59	2.81	8.11	11.2	12	0.17
462649		7.63	0.11	1.62	0.4	<0.2	<10	40	0.08	0.14	2.25	1.81	13.25	12.3	14	0.11
462650		0.04	1.06	1.52	5.8	0.2	<10	120	0.27	0.20	0.93	0.45	13.90	11.7	28	0.47
462651		7.52	0.13	1.30	0.5	<0.2	<10	40	0.09	0.13	1.79	3.15	23.1	12.3	9	0.13
462652		7.87	0.58	1.29	0.3	<0.2	<10	40	0.12	0.36	1.63	4.34	22.2	13.4	7	0.16
462653		3.85	0.60	1.41	0.4	<0.2	<10	30	0.15	0.40	1.41	4.24	18.35	15.5	6	0.57
462654		3.84	0.32	1.50	0.5	<0.2	<10	30	0.15	0.27	2.93	6.60	23.0	11.5	7	0.25
462655		2.58	0.10	1.44	0.3	<0.2	<10	30	0.09	0.08	2.08	1.07	11.10	10.5	11	0.30
462656		4.03	0.47	1.64	0.6	<0.2	<10	50	0.07	0.31	2.05	10.00	10.60	11.7	9	0.15
462657		8.20	0.36	1.74	0.6	<0.2	<10	50	0.06	0.32	1.88	6.75	15.35	13.9	9	0.17
462658		7.55	0.80	1.89	0.6	<0.2	<10	40	0.08	0.38	0.71	13.40	21.2	15.2	6	0.19
462659		7.88	1.16	1.60	0.8	<0.2	<10	40	0.09	0.49	1.66	17.30	24.0	14.3	4	0.15
462660		<0.02	1.27	1.59	0.7	<0.2	<10	40	0.11	0.42	1.66	17.20	23.7	15.6	4	0.16
462661		7.47	2.16	1.72	0.8	<0.2	<10	40	0.07	0.53	0.89	6.05	19.40	16.8	5	0.14



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Page: 3 - B
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 28-DEC-2016
Account: GIBMIN

Project: SGM2016-21

CERTIFICATE OF ANALYSIS KL16215259

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
462622		51.7	2.38	4.37	0.05	<0.02	<0.01	0.014	0.08	3.4	9.4	1.01	2150	0.96	0.03
462623		16.0	2.06	4.05	0.05	<0.02	<0.01	<0.005	0.08	2.5	9.3	1.06	1460	0.79	0.03
462624		33.1	1.95	3.92	0.06	<0.02	<0.01	0.007	0.07	2.8	8.8	1.07	1140	0.76	0.03
462625		73.1	2.18	4.24	0.06	<0.02	0.01	0.013	0.07	2.3	8.9	1.11	1740	0.61	0.03
462626		130.0	2.25	3.57	0.06	<0.02	0.02	0.037	0.07	2.4	8.5	1.04	1760	13.60	0.02
462627		99.0	2.51	3.78	0.05	<0.02	0.02	0.031	0.08	2.7	9.3	1.13	2680	0.90	0.02
462628		235	3.20	4.56	0.07	<0.02	0.03	0.205	0.09	3.2	10.3	1.27	2390	1.61	0.02
462629		65.0	2.49	4.22	0.07	<0.02	0.02	0.017	0.06	1.8	9.9	1.30	2040	0.74	0.03
462630		869	5.79	5.95	0.10	0.04	<0.01	0.022	0.73	4.8	4.4	5.56	480	88.1	0.11
462631		67.7	2.38	3.96	0.06	<0.02	0.01	0.019	0.05	2.0	8.9	1.24	1580	2.22	0.03
462632		92.5	2.93	4.50	0.06	<0.02	0.02	0.089	0.08	1.7	11.5	1.26	2210	3.98	0.02
462633		68.5	3.04	4.53	0.05	<0.02	<0.01	0.020	0.06	2.0	9.5	1.22	2450	5.46	0.03
462634		64.7	2.99	5.44	0.07	<0.02	<0.01	0.022	0.07	2.9	10.9	1.29	2270	1.00	0.03
462635		6.3	2.38	4.31	0.07	<0.02	<0.01	0.020	0.05	4.7	9.4	0.83	2680	0.20	0.04
462636		15.5	2.64	4.10	0.07	<0.02	<0.01	0.037	0.06	7.9	10.1	0.94	3830	0.83	0.03
462637		175.5	2.56	4.23	0.06	<0.02	<0.01	0.013	0.07	2.1	11.0	1.17	2550	1.85	0.02
462638		66.3	2.42	4.43	0.06	<0.02	<0.01	0.014	0.05	2.0	10.9	1.07	2540	1.30	0.03
462639		84.0	2.44	3.94	0.06	<0.02	<0.01	0.011	0.06	1.8	10.5	1.10	2370	1.20	0.02
462640		79.6	2.41	4.07	0.06	<0.02	<0.01	0.011	0.06	1.7	10.5	1.10	2310	1.42	0.02
462641		109.5	2.42	3.19	0.06	<0.02	0.04	0.075	0.08	1.6	8.2	0.83	1640	0.76	0.02
462642		53.5	2.41	3.49	0.06	<0.02	0.02	0.144	0.08	1.9	9.3	1.00	1460	0.77	0.03
462643		47.6	1.81	3.32	0.06	0.02	0.04	0.246	0.05	2.3	8.0	0.95	897	1.02	0.03
462644		39.5	2.49	4.12	0.07	0.02	<0.01	0.013	0.07	2.2	10.4	1.19	1520	0.89	0.03
462645		84.6	2.74	4.28	0.05	<0.02	<0.01	0.026	0.07	1.9	11.7	1.27	2040	1.31	0.02
462646		35.8	2.63	4.88	0.06	<0.02	<0.01	0.010	0.06	1.8	11.0	1.36	1720	0.91	0.03
462647		68.9	2.71	4.39	0.07	<0.02	0.02	0.126	0.08	2.4	10.5	1.11	1660	0.89	0.03
462648		41.4	2.70	4.73	0.08	<0.02	0.02	0.076	0.07	3.3	11.2	1.11	2000	1.41	0.03
462649		36.9	2.80	4.99	0.07	<0.02	0.02	0.075	0.06	5.6	12.9	1.11	1800	1.41	0.03
462650		3160	3.12	5.63	0.10	0.23	0.03	0.049	0.20	7.0	9.9	0.75	451	232	0.09
462651		66.8	3.15	3.29	0.07	<0.02	0.06	0.173	0.13	9.6	9.6	1.04	6050	4.09	0.03
462652		295	3.52	3.11	0.08	<0.02	0.04	0.332	0.19	9.2	8.5	1.02	8170	1.86	0.02
462653		278	4.21	3.71	0.07	<0.02	0.07	0.328	0.14	6.9	8.7	0.97	6380	6.38	0.01
462654		125.0	3.76	4.40	0.08	<0.02	0.11	0.278	0.09	8.5	10.1	1.10	5520	1.07	0.02
462655		34.3	2.46	4.42	0.07	<0.02	<0.01	0.034	0.06	4.5	10.4	1.02	2070	1.45	0.03
462656		208	3.31	4.37	0.07	<0.02	0.09	0.636	0.13	4.3	11.0	1.00	3230	1.73	0.02
462657		135.5	3.68	4.60	0.07	<0.02	0.03	0.383	0.15	6.4	12.0	1.07	3560	1.56	0.02
462658		414	4.33	4.52	0.08	<0.02	0.05	0.861	0.19	8.2	12.0	1.13	4730	2.17	0.02
462659		587	4.49	4.22	0.08	<0.02	0.10	1.360	0.17	9.3	9.4	1.03	6120	1.58	0.02
462660		581	4.42	4.27	0.09	<0.02	0.07	1.390	0.17	9.1	10.0	1.01	6110	2.27	0.02
462661		1645	4.82	4.62	0.08	<0.02	0.03	0.601	0.16	7.3	10.1	1.04	3810	173.5	0.02



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Page: 3 - C
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 28-DEC-2016
 Account: GIBMIN

Project: SGM2016-21

CERTIFICATE OF ANALYSIS KL16215259

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
462622		8.7	470	1.2	1.6	<0.001	0.16	0.05	2.2	0.2	<0.2	51.6	<0.01	0.05	1.1
462623		8.4	450	0.9	1.4	<0.001	0.09	0.05	1.6	0.2	<0.2	54.2	<0.01	0.02	1.2
462624		9.1	440	1.1	1.5	<0.001	0.06	0.06	1.5	<0.2	<0.2	45.7	<0.01	0.02	0.9
462625		8.7	440	0.8	1.2	<0.001	0.21	0.05	1.5	<0.2	<0.2	46.7	<0.01	0.05	0.8
462626		8.4	430	0.8	1.2	0.001	0.42	0.06	1.3	0.2	<0.2	34.1	<0.01	0.11	0.8
462627		9.3	470	1.0	1.4	<0.001	0.56	<0.05	1.4	<0.2	<0.2	36.6	<0.01	0.12	1.2
462628		10.2	520	1.0	1.6	<0.001	0.67	0.07	1.8	0.3	<0.2	31.8	<0.01	0.16	0.8
462629		10.2	490	0.7	1.0	<0.001	0.29	0.06	1.5	0.2	<0.2	38.7	<0.01	0.06	0.7
462630		671	720	5.1	28.5	0.098	3.94	0.70	8.7	3.6	0.4	53.7	<0.01	0.21	1.1
462631		10.0	490	0.7	0.8	<0.001	0.27	0.07	1.2	<0.2	<0.2	31.8	<0.01	0.08	0.6
462632		11.6	510	0.8	1.4	<0.001	0.50	0.05	1.5	0.3	<0.2	31.2	<0.01	0.10	0.6
462633		9.5	530	0.9	1.1	<0.001	0.53	<0.05	1.6	0.2	<0.2	41.4	<0.01	0.09	0.9
462634		10.8	480	1.0	1.3	<0.001	0.24	0.05	2.4	<0.2	<0.2	33.0	<0.01	0.07	1.1
462635		8.0	510	2.1	1.0	<0.001	0.05	0.08	3.3	0.2	0.2	77.3	<0.01	0.01	0.9
462636		7.8	440	4.3	1.3	<0.001	0.05	0.17	4.9	0.2	0.3	99.6	<0.01	0.01	1.1
462637		9.7	450	0.9	1.3	<0.001	0.35	0.07	1.9	<0.2	<0.2	43.1	<0.01	0.13	0.5
462638		8.7	410	0.8	1.0	<0.001	0.23	<0.05	1.7	<0.2	<0.2	44.3	<0.01	0.07	0.6
462639		8.7	440	0.8	1.1	<0.001	0.34	0.05	1.5	<0.2	<0.2	39.2	<0.01	0.11	0.7
462640		8.9	430	0.9	1.1	<0.001	0.35	0.05	1.5	<0.2	<0.2	40.5	<0.01	0.10	0.7
462641		6.9	360	1.1	1.6	<0.001	0.68	0.05	1.0	<0.2	<0.2	32.8	<0.01	0.09	0.7
462642		9.7	400	0.8	1.4	<0.001	0.60	0.05	1.2	<0.2	<0.2	25.9	<0.01	0.09	0.5
462643		9.4	390	0.5	0.9	<0.001	0.29	0.08	1.2	<0.2	<0.2	40.1	<0.01	0.08	0.4
462644		11.2	500	0.6	1.4	<0.001	0.21	0.08	1.6	<0.2	<0.2	33.6	<0.01	0.04	0.5
462645		11.0	450	0.7	1.4	<0.001	0.40	0.07	1.7	0.2	<0.2	37.7	<0.01	0.10	0.3
462646		11.4	400	0.7	1.1	<0.001	0.26	0.08	1.4	<0.2	<0.2	35.3	<0.01	0.08	0.3
462647		8.5	460	1.1	1.5	<0.001	0.33	0.08	1.8	<0.2	<0.2	39.7	<0.01	0.09	0.4
462648		10.3	410	1.6	1.4	<0.001	0.23	0.09	2.8	0.2	<0.2	54.3	<0.01	0.05	0.5
462649		10.7	430	1.2	1.3	<0.001	0.35	0.08	2.7	<0.2	<0.2	57.1	<0.01	0.07	0.8
462650		22.9	640	9.1	10.8	0.247	0.46	2.57	5.4	1.2	1.1	47.6	<0.01	0.10	2.1
462651		9.0	420	1.5	2.7	0.001	0.32	<0.05	2.0	<0.2	<0.2	36.0	<0.01	0.06	1.6
462652		9.3	430	1.6	4.0	<0.001	0.69	<0.05	1.9	0.3	<0.2	24.3	<0.01	0.17	1.8
462653		8.7	380	2.3	3.0	0.001	0.76	<0.05	3.2	0.3	<0.2	44.1	<0.01	0.21	1.5
462654		8.5	350	3.3	1.9	<0.001	0.46	<0.05	4.6	0.2	<0.2	85.1	<0.01	0.09	1.4
462655		8.1	360	2.4	1.3	<0.001	0.11	0.13	3.5	0.2	0.2	60.7	<0.01	0.03	1.1
462656		8.9	390	1.5	2.7	0.001	0.83	<0.05	2.2	0.3	<0.2	37.9	<0.01	0.25	0.9
462657		9.1	430	1.6	3.1	<0.001	0.93	<0.05	2.2	0.2	<0.2	34.9	<0.01	0.26	1.3
462658		7.5	470	1.8	3.8	0.001	1.15	<0.05	2.4	0.4	<0.2	14.1	<0.01	0.24	1.8
462659		6.6	470	1.7	3.3	0.001	1.59	<0.05	2.2	0.5	<0.2	25.7	<0.01	0.35	1.4
462660		6.7	470	1.8	3.5	<0.001	1.55	<0.05	2.4	0.5	<0.2	26.2	<0.01	0.29	1.3
462661		6.2	440	1.5	3.2	0.058	1.47	<0.05	2.3	0.6	<0.2	18.1	<0.01	0.44	1.4



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Page: 3 - D
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 28-DEC-2016
Account: GIBMIN

Project: SGM2016-21

CERTIFICATE OF ANALYSIS KL16215259

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
462622		<0.02	0.40	18	0.08	5.33	369	<0.5			
462623		<0.02	0.25	18	<0.05	3.36	106	<0.5			
462624		<0.02	0.25	18	<0.05	3.23	220	<0.5			
462625		<0.02	0.21	19	<0.05	3.00	821	<0.5			
462626		<0.02	0.18	16	0.05	2.57	1500	<0.5			
462627		<0.02	0.23	16	0.05	2.83	2050	<0.5			
462628		<0.02	0.23	22	0.08	4.06	4070	<0.5			
462629		<0.02	0.37	20	<0.05	2.58	1200	<0.5			
462630		0.60	0.32	74	10.55	5.49	65	1.3			
462631		<0.02	0.16	20	<0.05	2.61	1100	<0.5			
462632		<0.02	0.16	19	0.06	2.54	2770	<0.5			
462633		<0.02	0.16	24	0.06	2.90	733	<0.5			
462634		<0.02	0.19	31	0.06	3.65	820	<0.5			
462635		<0.02	0.43	25	<0.05	7.11	238	0.9			
462636		<0.02	0.56	31	0.08	10.45	330	<0.5			
462637		<0.02	0.17	22	0.09	2.90	554	<0.5			
462638		<0.02	0.19	20	0.09	2.77	513	<0.5			
462639		<0.02	0.16	17	0.08	2.50	872	<0.5			
462640		<0.02	0.17	17	0.08	2.61	888	<0.5			
462641		<0.02	0.16	12	0.13	2.30	3720	<0.5			
462642		<0.02	0.13	15	0.06	2.36	2410	<0.5			
462643		<0.02	0.17	16	<0.05	3.18	2920	<0.5			
462644		<0.02	0.21	25	<0.05	3.55	689	<0.5			
462645		<0.02	0.12	21	<0.05	3.32	1460	<0.5			
462646		<0.02	0.14	24	<0.05	2.69	789	<0.5			
462647		<0.02	0.16	21	<0.05	4.15	1950	<0.5			
462648		<0.02	0.20	24	0.07	5.24	1380	<0.5			
462649		<0.02	0.30	25	0.06	5.78	853	<0.5			
462650		0.10	0.42	61	14.00	8.14	57	7.2	0.315	0.028	NSS
462651		<0.02	0.57	12	0.20	10.30	1360	<0.5			
462652		0.02	0.63	11	0.17	11.45	2000	<0.5			
462653		<0.02	0.92	19	0.40	9.87	2060	<0.5			
462654		<0.02	1.62	23	0.58	10.90	3040	<0.5			
462655		<0.02	0.36	28	0.05	6.91	555	<0.5			
462656		<0.02	0.35	15	0.08	5.69	4440	<0.5			
462657		0.02	0.45	16	0.16	7.71	3180	<0.5			
462658		0.02	0.67	17	0.22	10.80	6210	<0.5			
462659		<0.02	0.68	17	0.19	12.20	7900	<0.5			
462660		<0.02	0.69	17	0.19	12.55	7740	<0.5			
462661		0.02	0.44	20	0.37	9.26	2780	<0.5	0.161	0.018	



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Page: 4 - A
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Plus Appendix Pages
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Project: SGM2016-21

CERTIFICATE OF ANALYSIS KL16215259

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
462662		7.41	0.31	1.65	0.1	<0.2	<10	40	0.08	0.11	1.60	1.86	7.12	12.0	5	0.08
462663		7.30	0.11	1.58	0.3	<0.2	<10	60	0.09	0.06	1.27	0.44	6.34	10.2	7	0.06
462664		3.74	0.31	1.45	0.5	<0.2	<10	50	0.08	0.26	2.11	0.99	9.77	10.3	6	0.08
462665		5.18	0.15	1.24	0.3	<0.2	<10	40	0.10	0.20	2.93	0.47	17.75	14.7	5	0.17
462666		4.51	0.03	1.44	0.3	<0.2	<10	40	0.16	0.06	5.45	0.39	25.3	9.1	3	0.47
462667		3.96	0.05	1.91	0.2	<0.2	<10	40	0.08	0.06	2.73	0.13	20.4	13.1	4	0.16
462668		3.95	0.03	1.74	0.2	<0.2	<10	110	0.09	0.04	2.50	0.10	10.65	11.5	4	0.21
462669		7.39	0.08	1.61	0.3	<0.2	<10	40	0.12	0.02	1.51	0.06	9.18	11.6	7	0.12
462670		0.03	2.80	1.82	29.6	0.4	10	70	0.32	1.08	0.88	2.40	10.65	11.3	30	4.53
462671		7.89	0.10	1.61	0.4	<0.2	<10	60	0.10	0.02	0.94	0.93	7.78	12.6	6	0.06
462672		7.36	0.02	1.68	0.3	<0.2	<10	50	0.10	0.01	1.02	0.27	7.34	13.1	7	0.06
462673		8.28	0.10	1.70	0.9	<0.2	<10	50	0.11	0.02	1.15	1.47	7.13	13.8	6	0.05
462674		7.69	0.16	1.79	0.7	<0.2	<10	60	0.12	0.02	0.91	0.06	7.80	13.5	7	0.07
462675		5.01	0.11	1.93	0.3	<0.2	<10	40	0.09	0.05	0.35	2.05	8.23	12.8	6	0.08
462676		6.41	0.20	2.14	0.3	<0.2	<10	50	0.09	0.13	0.29	1.83	16.45	13.9	5	0.13
462677		5.79	0.23	1.70	0.1	<0.2	<10	50	0.13	0.09	0.41	1.49	24.4	11.2	4	0.11
462678		7.28	0.31	1.34	0.1	<0.2	<10	50	0.09	0.04	1.45	1.27	13.40	10.7	5	0.13
462679		7.14	0.45	1.52	0.6	<0.2	<10	60	0.09	0.07	0.73	0.37	10.15	14.9	6	0.11
462680		<0.02	0.44	1.47	0.8	<0.2	<10	60	0.10	0.08	0.75	0.34	10.15	14.6	7	0.10
462681		3.70	0.10	1.81	1.2	<0.2	<10	50	0.09	0.05	0.50	1.31	8.86	11.4	6	0.08
462682		2.98	0.10	1.63	0.3	<0.2	<10	50	0.09	0.01	0.34	0.66	6.95	10.7	6	0.06
462683		7.19	0.12	1.80	1.3	<0.2	<10	60	0.08	0.03	0.31	1.10	6.49	12.1	6	0.06
462684		6.71	0.40	1.74	0.3	<0.2	<10	60	0.10	0.04	1.37	1.28	8.04	13.0	6	0.06
462685		2.40	0.10	1.40	0.3	<0.2	<10	60	0.06	0.02	0.17	0.03	6.26	10.8	6	0.09
462686		3.80	0.05	1.52	0.4	<0.2	<10	70	0.09	0.02	1.13	0.22	7.86	11.3	6	0.05
462687		7.03	0.27	1.58	1.1	<0.2	<10	90	0.10	0.01	1.19	0.28	8.07	12.0	6	0.55
462688		7.40	0.07	1.54	0.5	<0.2	<10	160	0.16	0.01	0.75	0.03	8.35	11.6	8	1.03
462689		7.17	0.15	1.52	0.2	<0.2	<10	80	0.11	0.06	0.73	0.28	7.39	11.3	7	0.43
462690		0.06	0.95	1.62	6.6	0.3	<10	130	0.26	0.19	1.00	0.44	13.50	11.9	30	0.49
462691		7.54	0.12	1.51	0.1	<0.2	<10	150	0.15	0.01	0.92	0.04	9.19	11.4	11	0.98
462692		3.23	0.09	1.50	0.3	<0.2	<10	130	0.13	0.01	0.87	0.03	7.87	11.0	9	0.91
462693		3.45	0.11	1.50	0.4	<0.2	<10	120	0.10	0.01	1.17	0.07	9.15	11.6	9	0.75
462694		6.99	0.19	1.50	0.2	<0.2	<10	50	0.08	0.10	1.98	0.13	11.55	11.2	7	0.08
462695		7.78	0.17	1.44	0.2	<0.2	<10	70	0.11	0.05	1.16	0.04	12.70	9.8	6	0.09
462696		7.95	0.50	1.46	0.2	<0.2	<10	60	0.09	0.08	1.14	0.11	9.09	10.9	6	0.11
462697		3.29	3.32	0.46	3.1	<0.2	<10	40	<0.05	0.95	0.32	0.65	8.05	15.2	7	0.08
462698		5.06	0.14	1.71	0.2	<0.2	<10	40	0.07	0.08	1.40	0.08	6.15	10.8	7	0.05
462699		8.05	0.83	1.51	0.5	<0.2	<10	60	0.09	0.15	1.60	0.36	6.96	10.1	6	0.09
462700		<0.02	0.85	1.52	0.3	<0.2	<10	70	0.08	0.16	1.59	0.41	6.99	10.2	7	0.09
462701		7.91	0.06	1.34	0.3	<0.2	<10	50	0.08	0.08	1.80	0.10	10.75	8.9	7	0.07



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Page: 4 - B
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 28-DEC-2016
Account: GIBMIN

Project: SGM2016-21

CERTIFICATE OF ANALYSIS KL16215259

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
462662		146.5	2.87	4.82	0.07	<0.02	<0.01	0.059	0.07	3.1	10.5	1.10	2280	38.1	0.03
462663		46.5	2.33	4.53	0.07	<0.02	<0.01	0.015	0.06	2.7	10.3	1.06	1760	0.93	0.04
462664		185.5	2.60	4.93	0.06	<0.02	<0.01	0.022	0.07	4.4	10.2	1.04	3010	1.06	0.04
462665		85.8	3.07	3.54	0.07	<0.02	<0.01	0.059	0.09	7.0	8.8	1.10	3340	79.9	0.06
462666		19.9	2.63	3.97	0.07	<0.02	<0.01	0.062	0.08	10.3	10.3	0.75	4210	19.40	0.03
462667		26.5	3.24	6.56	0.09	<0.02	<0.01	0.018	0.07	8.0	11.3	1.25	1980	11.60	0.04
462668		15.8	2.75	5.73	0.07	<0.02	<0.01	0.012	0.08	4.7	9.1	1.16	2060	1.11	0.04
462669		47.8	2.33	4.69	0.07	0.02	<0.01	0.008	0.05	4.1	8.3	1.17	1460	2.26	0.03
462670		2650	4.77	5.23	0.08	0.03	0.04	0.140	0.33	5.9	16.5	0.60	789	233	0.06
462671		51.5	2.24	4.27	0.07	0.05	<0.01	0.024	0.09	3.9	8.0	1.19	1170	1.97	0.03
462672		6.2	2.33	4.69	0.06	0.05	<0.01	0.007	0.08	3.5	7.5	1.32	892	5.24	0.03
462673		45.4	2.40	4.54	0.07	0.04	0.01	0.051	0.08	3.5	8.0	1.33	1340	0.78	0.03
462674		76.8	2.42	4.73	0.07	0.04	<0.01	<0.005	0.07	3.8	8.7	1.41	1180	0.54	0.03
462675		58.7	3.09	5.73	0.07	<0.02	0.02	0.117	0.07	3.9	11.2	1.35	1280	2.00	0.04
462676		119.5	3.84	7.09	0.09	<0.02	0.02	0.155	0.09	6.9	12.1	1.30	1250	7.12	0.04
462677		145.0	3.48	5.67	0.08	<0.02	0.02	0.105	0.10	10.4	9.2	1.02	2370	13.85	0.04
462678		119.0	2.84	4.08	0.07	<0.02	0.01	0.106	0.11	6.1	7.1	0.91	2190	1.93	0.03
462679		314	3.35	4.57	0.07	<0.02	<0.01	0.104	0.15	4.6	8.0	0.98	1930	16.40	0.04
462680		325	3.33	4.48	0.07	<0.02	<0.01	0.107	0.13	4.6	7.8	0.99	1970	9.10	0.04
462681		51.8	3.16	5.48	0.07	<0.02	0.01	0.088	0.11	4.0	10.6	1.19	882	2.53	0.04
462682		57.6	2.34	4.55	0.06	<0.02	<0.01	0.018	0.09	3.2	8.1	1.09	511	0.96	0.04
462683		62.0	2.88	5.04	0.06	<0.02	0.02	0.060	0.10	2.9	8.7	1.16	744	1.89	0.03
462684		246	2.88	5.07	0.06	0.02	0.01	0.084	0.11	3.6	8.5	1.21	1060	8.32	0.04
462685		56.3	2.33	4.13	0.06	<0.02	<0.01	0.011	0.13	2.9	7.0	0.97	462	8.96	0.04
462686		33.6	2.35	4.52	0.06	0.05	<0.01	0.009	0.13	3.3	6.6	1.08	977	0.90	0.04
462687		203	2.31	4.45	0.07	0.06	<0.01	0.016	0.28	3.4	6.6	1.15	870	2.09	0.03
462688		44.0	2.08	3.79	0.07	0.05	<0.01	0.005	0.54	3.7	6.8	1.15	527	23.8	0.04
462689		65.4	2.22	3.87	0.07	0.05	<0.01	0.014	0.29	3.2	5.8	1.11	687	1.05	0.04
462690		3270	3.29	6.07	0.11	0.24	0.03	0.052	0.21	7.4	11.4	0.79	476	252	0.10
462691		105.5	2.12	3.96	0.07	0.06	<0.01	0.005	0.45	3.9	6.7	1.12	492	13.45	0.04
462692		90.6	2.10	3.99	0.07	0.05	<0.01	0.005	0.40	3.4	6.3	1.09	556	2.67	0.04
462693		132.0	2.12	4.17	0.08	0.04	<0.01	0.008	0.28	3.7	6.6	1.10	580	10.15	0.04
462694		224	2.35	4.54	0.06	0.03	<0.01	0.017	0.10	5.1	6.4	1.10	941	77.8	0.04
462695		213	1.99	4.27	0.07	0.05	<0.01	0.009	0.10	5.4	5.9	1.06	728	9.33	0.05
462696		950	2.37	4.26	0.07	0.04	<0.01	0.029	0.11	3.7	5.5	1.10	748	19.10	0.04
462697		6070	8.98	1.41	0.08	<0.02	0.02	0.145	0.25	3.6	0.6	0.09	200	32.0	0.02
462698		244	3.02	4.71	0.06	0.02	<0.01	0.027	0.12	2.7	6.9	1.18	1460	1.82	0.03
462699		1455	2.64	4.05	0.06	0.02	0.01	0.047	0.17	3.1	5.4	0.98	1340	5.66	0.02
462700		1465	2.69	4.10	0.06	0.02	0.01	0.044	0.17	3.1	5.6	0.99	1330	5.01	0.02
462701		69.4	2.08	3.92	0.06	0.02	0.01	0.018	0.08	4.9	5.9	0.99	891	1.41	0.04



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Page: 4 - C

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CERTIFICATE OF ANALYSIS KL16215259

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	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
462662		5.7	450	1.2	1.4	0.015	0.35	0.05	2.1	0.2	<0.2	44.1	<0.01	0.12	1.5	0.007
462663		5.6	430	1.1	1.2	<0.001	0.19	0.10	1.9	<0.2	<0.2	51.7	<0.01	0.08	0.9	<0.005
462664		5.6	400	1.4	1.4	<0.001	0.42	0.05	2.8	0.3	<0.2	53.2	<0.01	0.15	1.6	<0.005
462665		5.9	480	1.2	1.7	0.021	0.41	<0.05	2.6	0.2	<0.2	67.4	<0.01	0.14	2.3	<0.005
462666		5.2	460	2.1	1.7	0.002	0.03	<0.05	3.3	0.3	<0.2	160.5	<0.01	0.01	2.2	<0.005
462667		5.4	500	1.8	1.3	0.001	0.07	0.05	4.4	0.3	<0.2	79.8	<0.01	0.03	1.7	<0.005
462668		6.0	540	1.2	1.6	<0.001	0.06	0.07	3.0	<0.2	<0.2	73.2	<0.01	0.03	1.5	<0.005
462669		6.4	530	1.0	1.0	<0.001	0.08	0.11	2.2	0.2	<0.2	63.4	<0.01	0.02	1.4	0.017
462670		21.6	750	75.5	15.8	0.245	2.27	1.82	2.7	4.4	0.7	60.2	<0.01	0.72	3.6	0.049
462671		6.9	530	1.0	1.6	<0.001	0.14	0.13	1.6	0.2	0.2	48.8	<0.01	0.03	1.6	0.069
462672		7.7	450	0.8	1.4	<0.001	0.04	0.12	2.0	0.2	0.2	50.2	<0.01	0.02	1.3	0.076
462673		6.8	510	0.8	1.3	<0.001	0.16	0.13	1.7	0.2	<0.2	53.2	<0.01	0.02	1.3	0.063
462674		6.6	470	1.2	1.2	<0.001	0.17	0.14	1.9	<0.2	<0.2	55.1	<0.01	0.05	1.4	0.036
462675		7.5	470	1.1	1.2	<0.001	0.12	0.06	2.5	0.2	<0.2	32.3	<0.01	0.05	0.9	0.005
462676		7.1	540	1.0	1.6	0.001	0.18	<0.05	3.5	0.3	<0.2	17.9	<0.01	0.03	1.3	0.005
462677		6.1	520	1.2	2.0	0.007	0.12	<0.05	3.9	0.2	<0.2	18.9	<0.01	0.02	1.6	0.005
462678		5.7	470	1.2	2.3	<0.001	0.13	<0.05	2.5	0.4	<0.2	41.1	<0.01	0.01	1.5	0.009
462679		5.7	480	1.5	3.0	0.003	0.38	<0.05	3.0	0.3	<0.2	27.6	<0.01	0.07	1.3	0.010
462680		5.9	490	1.5	2.7	0.002	0.36	<0.05	3.0	0.2	<0.2	26.8	<0.01	0.08	1.3	0.010
462681		6.5	470	1.3	2.2	<0.001	0.15	<0.05	2.9	<0.2	<0.2	30.0	<0.01	0.02	1.1	0.006
462682		6.2	500	1.3	1.8	<0.001	0.04	0.05	1.8	0.2	<0.2	41.8	<0.01	0.01	1.3	0.005
462683		6.0	500	1.4	2.1	<0.001	0.14	0.05	1.9	<0.2	<0.2	35.2	<0.01	0.03	1.0	0.010
462684		6.6	480	1.4	2.3	0.002	0.25	0.06	2.3	0.2	0.2	53.5	<0.01	0.03	1.2	0.016
462685		5.3	410	1.0	2.4	<0.001	0.08	<0.05	1.9	<0.2	<0.2	17.3	<0.01	0.01	0.9	0.012
462686		5.4	440	0.8	2.4	<0.001	0.10	0.08	2.0	0.4	0.2	43.7	<0.01	0.01	0.8	0.037
462687		6.3	450	0.8	8.6	<0.001	0.10	0.11	2.1	0.2	0.2	46.3	<0.01	0.01	0.9	0.070
462688		5.6	450	0.5	14.2	0.004	0.02	0.10	2.2	0.2	0.2	45.6	<0.01	0.02	1.0	0.099
462689		5.6	480	0.6	8.1	<0.001	0.19	0.08	1.6	0.2	0.2	41.1	<0.01	0.15	0.7	0.071
462690		23.4	680	9.9	11.1	0.263	0.49	2.41	5.9	1.5	1.2	49.7	<0.01	0.11	2.3	0.149
462691		5.6	490	0.6	12.8	0.001	0.03	0.08	1.9	0.2	0.2	51.0	<0.01	<0.01	0.7	0.086
462692		5.6	510	0.5	11.3	<0.001	0.04	0.07	2.0	0.2	0.2	53.7	<0.01	<0.01	0.6	0.083
462693		5.7	510	0.6	9.6	0.001	0.04	0.09	2.0	0.2	<0.2	59.9	<0.01	<0.01	0.6	0.051
462694		5.7	530	0.8	2.4	0.009	0.06	0.07	2.3	0.3	<0.2	70.9	<0.01	0.03	0.9	0.017
462695		5.0	530	0.8	2.5	0.001	0.07	0.09	1.9	0.3	0.2	65.8	<0.01	<0.01	1.2	0.021
462696		5.2	460	0.7	2.1	<0.001	0.40	0.09	1.7	0.3	0.2	48.9	<0.01	0.09	1.1	0.018
462697		5.3	460	0.6	3.9	0.001	>10.0	0.06	0.6	1.5	0.6	7.7	<0.01	1.36	0.7	0.005
462698		6.6	490	0.7	2.2	<0.001	0.35	0.05	1.6	0.3	<0.2	35.1	<0.01	0.07	0.8	0.032
462699		4.5	510	0.7	3.1	<0.001	0.42	0.05	1.5	0.3	0.2	38.6	<0.01	0.28	0.9	0.018
462700		4.8	500	0.7	3.0	<0.001	0.42	0.05	1.5	0.2	0.2	40.3	<0.01	0.29	1.0	0.018
462701		4.1	480	0.9	1.7	<0.001	0.10	0.08	2.3	0.4	<0.2	67.4	<0.01	0.01	0.9	0.012



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Page: 4 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 28-DEC-2016
 Account: GIBMIN

Project: SGM2016-21

CERTIFICATE OF ANALYSIS KL16215259

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46	Mo-OG46	Au-AA23
		Tl	U	V	W	Y	Zn	Zr	Cu	Mo	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001	0.005
462662		<0.02	0.28	25	0.05	5.72	993	<0.5			
462663		<0.02	0.16	21	<0.05	5.33	365	<0.5			
462664		<0.02	0.43	23	<0.05	7.03	415	<0.5			
462665		<0.02	0.80	16	0.05	7.39	325	<0.5			
462666		<0.02	1.60	18	0.16	23.7	311	<0.5			
462667		<0.02	0.53	38	<0.05	7.45	186	<0.5			
462668		<0.02	0.47	27	<0.05	5.91	136	<0.5			
462669		<0.02	0.40	23	<0.05	5.20	143	<0.5			
462670		0.31	0.72	34	1.66	5.76	458	1.1	0.255	0.028	NSS
462671		<0.02	0.60	20	<0.05	5.10	565	0.7			
462672		<0.02	0.46	24	<0.05	5.11	212	0.6			
462673		<0.02	0.43	25	<0.05	4.52	674	0.6			
462674		<0.02	0.61	26	<0.05	4.68	112	<0.5			
462675		<0.02	0.22	31	0.07	4.01	613	<0.5			
462676		<0.02	0.31	36	0.07	6.23	819	<0.5			
462677		<0.02	0.49	27	0.08	11.70	691	<0.5			
462678		<0.02	0.57	17	0.92	10.15	521	<0.5			
462679		0.02	0.55	20	0.12	8.01	282	<0.5			
462680		<0.02	0.60	20	0.12	7.99	269	<0.5			
462681		<0.02	0.30	25	0.05	4.99	521	<0.5			
462682		<0.02	0.32	19	<0.05	4.01	307	<0.5			
462683		<0.02	0.30	22	<0.05	4.17	614	<0.5			
462684		<0.02	0.53	22	<0.05	5.31	565	<0.5			
462685		<0.02	0.49	17	0.09	4.34	112	<0.5			
462686		<0.02	0.73	21	<0.05	7.19	198	0.6			
462687		0.05	0.69	24	<0.05	6.85	209	0.7			
462688		0.08	0.57	26	<0.05	6.25	60	0.6			
462689		0.05	0.25	21	<0.05	5.81	236	0.6			
462690		0.11	0.45	66	15.50	8.47	58	7.6	0.323	0.028	0.315
462691		0.08	0.41	25	<0.05	7.05	65	0.7			
462692		0.07	0.41	25	<0.05	6.27	49	0.7			
462693		0.06	0.43	23	<0.05	7.97	93	0.5			
462694		<0.02	0.62	20	<0.05	8.94	130	<0.5			
462695		0.02	0.26	20	<0.05	9.59	93	0.6			
462696		<0.02	0.40	19	<0.05	8.18	121	<0.5			
462697		0.02	0.95	6	0.09	4.81	78	<0.5	0.591		
462698		<0.02	0.30	18	<0.05	5.77	163	<0.5			
462699		<0.02	0.27	13	<0.05	5.80	263	<0.5			
462700		<0.02	0.32	14	<0.05	5.85	265	<0.5			
462701		<0.02	0.30	20	<0.05	8.34	136	<0.5			



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Page: 5 - A
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 28-DEC-2016
Account: GIBMIN

Project: SGM2016-21

CERTIFICATE OF ANALYSIS KL16215259

Sample Description	Method Analyte Units LOR	WEI-21	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.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
462702		7.85	0.07	1.37	0.2	<0.2	<10	80	0.13	0.02	2.24	0.15	14.15	8.9	5
462703		7.32	0.08	1.40	0.2	<0.2	<10	70	0.12	0.01	1.17	0.04	12.55	9.7	7
462704		6.74	0.06	1.32	0.3	<0.2	<10	80	0.09	0.03	1.57	0.13	9.89	9.1	8
462705		6.91	0.04	1.49	0.2	<0.2	<10	70	0.09	0.01	1.30	0.03	9.60	10.8	8
462706		7.46	0.08	1.31	0.3	<0.2	<10	70	0.12	0.01	0.92	0.11	10.65	9.1	6



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Page: 5 - B
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 28-DEC-2016
Account: GIBMIN

Project: SGM2016-21

CERTIFICATE OF ANALYSIS KL16215259

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	
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
462702		60.0	2.29	4.26	0.06	0.03	<0.01	0.014	0.13	5.9	7.1	1.00	902	0.56	0.04	<0.05
462703		61.3	2.00	3.94	0.07	0.05	<0.01	0.008	0.19	5.5	6.4	1.00	609	0.72	0.04	<0.05
462704		63.3	2.18	3.62	0.05	0.04	0.01	0.021	0.15	4.3	5.9	0.92	834	2.00	0.03	<0.05
462705		42.1	2.21	4.03	0.06	0.05	<0.01	0.008	0.19	4.0	6.9	1.16	762	1.41	0.03	<0.05
462706		46.6	1.81	3.64	0.10	0.05	<0.01	0.010	0.21	3.8	5.6	0.91	563	1.27	0.04	<0.05



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Page: 5 - C
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 28-DEC-2016
Account: GIBMIN

Project: SGM2016-21

CERTIFICATE OF ANALYSIS KL16215259

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
462702		4.0	490	1.5	3.5	<0.001	0.15	0.08	2.7	0.2	0.2	75.1	<0.01	0.01	1.2
462703		4.5	490	0.9	5.4	<0.001	0.03	0.10	2.0	0.3	0.2	65.0	<0.01	0.01	1.4
462704		4.0	450	0.8	3.9	<0.001	0.17	0.08	1.9	0.2	0.2	60.0	<0.01	0.02	1.6
462705		4.8	470	0.5	5.9	<0.001	0.09	0.08	1.5	<0.2	0.2	54.5	<0.01	0.01	1.2
462706		6.3	490	2.2	5.7	0.001	0.07	0.12	1.6	0.3	0.2	52.9	<0.01	0.02	1.1



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Page: 5 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 28-DEC-2016
 Account: GIBMIN

Project: SGM2016-21

CERTIFICATE OF ANALYSIS KL16215259

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
462702		0.02	0.59	25	<0.05	11.10	132	<0.5			
462703		0.03	0.29	22	<0.05	8.63	80	0.5			
462704		0.02	0.41	18	<0.05	8.08	136	<0.5			
462705		0.03	0.28	18	<0.05	6.63	87	0.5			
462706		0.04	0.39	18	<0.05	6.58	96	0.5			



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 28-DEC-2016
Account: GIBMIN

Project: SGM2016-21

CERTIFICATE OF ANALYSIS KL16215259

	CERTIFICATE COMMENTS			
	ANALYTICAL COMMENTS			
Applies to Method:	NSS is non-sufficient sample. ALL METHODS			
Applies to Method:	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). ME-MS41			
	LABORATORY ADDRESSES			
Applies to Method:	Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.			
	CRU-31	CRU-QC	LOG-21d	LOG-22
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au-AA23	Cu-OG46	ME-MS41	ME-OG46
	Mo-OG46			



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Page: 1
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 14-JAN-2017
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CERTIFICATE KL16228774

Project: SGM2016-21

P.O. No.: SO218733

This report is for 6 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 28-DEC-2016.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

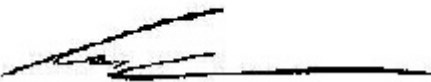
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ATTN: ALS MINERALS

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

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

Comments: ***Corrected copy with "TI" reported from ME-MS81***

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 14-JAN-2017
Account: GIBMIN

Project: SGM2016-21

CERTIFICATE OF ANALYSIS KL16228774

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Page: 2 - B
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-JAN-2017
 Account: GIBMIN

Project: SGM2016-21

CERTIFICATE OF ANALYSIS KL16228774

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tm	U	V	W	Y	Yb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.5	0.01	0.05	5	1	0.5	0.03
462591		2.02	42.8	2.52	1	149.0	0.2	0.43	2.20	<0.5	0.24	1.25	148	2	14.6	1.67
462599		2.74	53.8	2.93	1	73.5	0.2	0.48	2.18	<0.5	0.26	1.24	85	3	15.8	1.71
462616		2.96	12.5	3.11	1	404	0.2	0.45	1.62	<0.5	0.26	0.74	99	1	16.4	1.61
462627		2.97	24.0	2.79	1	247	0.2	0.48	1.63	<0.5	0.30	0.89	99	1	16.0	1.78
462643		3.00	11.5	3.29	1	425	0.1	0.51	0.83	<0.5	0.27	0.58	97	<1	16.3	1.70
462652		3.11	64.5	3.28	1	97.2	0.1	0.48	1.66	0.5	0.25	0.87	101	4	19.8	2.12

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Page: 2 - C
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-JAN-2017
 Account: GIBMIN

Project: SGM2016-21

CERTIFICATE OF ANALYSIS KL16228774

Sample Description	Method Analyte Units LOR	ME-MS81 Zr ppm 2	ME-ICP06 SiO2 % 0.01	ME-ICP06 Al2O3 % 0.01	ME-ICP06 Fe2O3 % 0.01	ME-ICP06 CaO % 0.01	ME-ICP06 MgO % 0.01	ME-ICP06 Na2O % 0.01	ME-ICP06 K2O % 0.01	ME-ICP06 Cr2O3 % 0.01	ME-ICP06 TiO2 % 0.01	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01	ME-ICP06 BaO % 0.01	OA-GRA05 LOI % 0.01
462591		90	56.4	15.80	9.65	4.21	3.73	0.76	2.50	<0.01	0.51	0.84	0.07	0.02	0.06	4.26
462599		136	63.3	14.40	7.96	2.42	1.97	0.54	3.27	<0.01	0.40	0.73	0.08	0.01	0.08	3.50
462616		147	64.3	14.90	4.75	4.22	1.87	3.79	0.76	<0.01	0.48	0.32	0.11	0.05	0.05	2.81
462627		124	63.1	14.65	5.18	4.53	2.15	2.49	1.63	<0.01	0.44	0.81	0.09	0.03	0.06	3.63
462643		137	64.3	15.30	4.87	5.00	1.83	3.72	0.74	<0.01	0.44	0.19	0.09	0.05	0.06	2.06
462652		124	61.4	15.45	6.42	2.29	1.99	0.58	3.71	<0.01	0.47	1.13	0.09	0.01	0.07	5.33

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Page: 2 - D
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 14-JAN-2017
Account: GIBMIN

Project: SGM2016-21

CERTIFICATE OF ANALYSIS KL16228774

Sample Description	Method Analyte Units LOR	TOT-ICP06
		Total % 0.01
462591		98.81
462599		98.66
462616		98.41
462627		98.79
462643		98.65
462652		98.94

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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 14-JAN-2017
Account: GIBMIN

Project: SGM2016-21

CERTIFICATE OF ANALYSIS KL16228774

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02
TOT-ICP06

ME-ICP06

ME-MS81

OA-GRA05



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Page: 1
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 28-FEB-2017
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Project: SGM2016-21

P.O. No.: SO221599

This report is for 4 Pulp samples submitted to our lab in Kamloops, BC, Canada on 9-FEB-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

To: **GIBRALTAR MINES LTD.**
ATTN: ALS MINERALS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 2 (A - D)
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Project: SGM2016-21

CERTIFICATE OF ANALYSIS KL17024257

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2
462665		743	22.5	40	0.97	3.71	2.25	0.81	17.6	3.75	5.1	0.79	9.1	0.34	2.5
462682		581	20.8	10	0.57	2.87	1.72	0.70	17.0	2.84	6.1	0.59	8.8	0.25	2.0
462692		689	19.3	30	0.99	3.29	1.95	0.72	16.7	3.23	5.0	0.69	7.7	0.33	1.9
462697		773	13.3	30	0.74	1.71	0.95	0.38	19.1	2.15	3.7	0.35	5.4	0.17	1.3



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Page: 2 - B
Total # Pages: 2 (A - D)
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Finalized Date: 28-FEB-2017
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Project: SGM2016-21

CERTIFICATE OF ANALYSIS KL17024257

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	Y	Yb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1	0.5	0.03
462665		3.43	28.0	3.88	1	402	0.2	0.63	2.11	0.32	1.36	105	3	22.7	2.14
462682		2.99	22.3	2.99	1	383	0.2	0.46	1.52	0.25	0.90	99	1	16.8	1.67
462692		2.95	22.4	3.28	1	398	0.1	0.53	0.97	0.27	0.67	102	1	19.4	2.09
462697		2.00	49.9	2.15	4	40.3	0.1	0.32	0.75	0.12	1.69	83	9	8.9	0.92



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Page: 2 - C
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 28-FEB-2017
Account: GIBMIN

Project: SGM2016-21

CERTIFICATE OF ANALYSIS KL17024257

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
462665		58.4	16.25	4.96	4.18	1.94	2.84	1.81	<0.01	0.54	0.43	0.10	0.05	0.09	6.43	98.02
462682		65.4	15.85	4.99	2.87	2.03	3.81	1.30	<0.01	0.49	0.10	0.10	0.04	0.07	2.08	99.13
462692		62.6	15.80	4.99	5.04	1.95	3.84	1.24	<0.01	0.45	0.12	0.10	0.04	0.08	1.82	98.07
462697		58.3	12.60	13.70	0.49	0.63	0.29	3.76	<0.01	0.35	0.03	0.09	<0.01	0.09	7.68	98.01



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Total # Pages: 2 (A - D)
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Finalized Date: 28-FEB-2017
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Project: SGM2016-21

CERTIFICATE OF ANALYSIS KL17024257

Sample Description	Method Analyte Units LOR	ME-MS81 TI ppm 0.5
462665		<0.5
462682		<0.5
462692		<0.5
462697		<0.5



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CERTIFICATE OF ANALYSIS KL17024257

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02
TOT-ICP06

ME-ICP06

ME-MS81

OA-GRA05



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This copy reported on
16-MAR-2017
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CERTIFICATE KL16225571

Project: SGM2016-22

P.O. No.: SO218733

This report is for 100 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 22-DEC-2016.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Mo-OG46	Ore Grade Mo - Aqua Regia	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

To: **GIBRALTAR MINES LTD.**
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***** See Appendix Page for comments regarding this certificate *****

Comments: ***Corrected copy with "TI" reported from ME-MS81***

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225571

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
459455		6.20	0.51	1.61	0.3	<0.2	<10	60	0.09	0.02	1.14	3.18	7.45	10.8	10	0.06
459456		7.55	0.13	1.58	0.3	<0.2	<10	60	0.13	0.01	1.22	0.50	5.37	9.5	14	0.05
459457		7.25	0.34	1.66	0.3	<0.2	<10	50	0.09	0.10	1.40	2.58	4.46	9.9	9	0.06
459458		3.28	0.35	1.86	0.4	<0.2	<10	40	0.09	0.08	1.17	7.85	6.03	10.3	8	0.07
459459		3.53	0.83	2.16	1.8	<0.2	<10	60	0.07	0.22	0.82	11.15	9.42	15.5	8	0.09
459460		<0.02	0.83	2.19	2.1	<0.2	<10	60	0.08	0.23	0.84	11.40	9.67	15.2	8	0.10
459461		7.04	0.88	1.77	0.5	<0.2	<10	50	0.09	0.34	1.58	7.36	15.15	12.3	7	0.13
459462		6.86	1.57	1.46	0.4	<0.2	<10	60	0.11	0.24	1.26	5.72	8.27	11.8	6	0.15
459463		6.95	0.28	1.75	0.3	<0.2	<10	50	0.10	0.08	2.12	2.38	10.55	11.3	8	0.11
459464		6.95	0.14	1.84	0.3	<0.2	<10	50	0.10	0.18	2.85	2.66	15.50	12.5	6	0.16
459465		7.67	0.06	0.86	0.1	<0.2	<10	50	0.07	0.06	3.20	0.59	17.40	8.8	9	0.10
459466		3.13	0.02	0.42	0.2	<0.2	<10	40	0.06	0.01	2.64	0.09	16.45	8.7	6	0.06
459467		6.25	0.03	0.72	0.2	<0.2	<10	40	0.05	0.01	3.02	0.13	17.00	8.4	4	0.08
459468		7.14	0.14	0.54	<0.1	<0.2	<10	40	0.07	0.03	3.30	0.34	20.0	9.3	3	0.16
459469		4.61	0.06	1.34	0.3	<0.2	<10	60	0.08	0.01	1.92	0.03	8.87	8.9	5	0.10
459470		0.06	0.74	1.98	19.2	0.2	<10	370	0.45	1.45	0.98	0.09	61.1	13.1	86	9.77
459471		7.91	0.04	1.34	0.4	<0.2	<10	100	0.15	<0.01	0.76	0.01	6.40	8.9	5	0.95
459472		7.75	0.03	1.33	0.3	<0.2	<10	90	0.13	<0.01	0.86	0.01	6.48	9.0	5	0.67
459473		7.26	0.04	1.55	0.3	<0.2	<10	90	0.11	<0.01	2.17	0.03	6.46	9.9	6	0.29
459474		7.99	0.03	1.57	0.3	<0.2	<10	140	0.20	<0.01	0.98	0.02	6.76	10.9	5	0.65
459475		6.86	0.02	1.46	0.2	<0.2	<10	110	0.18	0.01	0.75	0.01	6.39	9.5	5	0.54
459476		7.71	0.04	1.34	0.4	<0.2	<10	240	0.18	0.01	0.90	0.02	7.02	9.7	6	0.68
459477		6.48	0.06	1.33	0.3	<0.2	<10	60	0.13	0.02	1.19	0.68	7.86	10.3	5	0.27
459478		6.12	0.48	1.29	0.7	<0.2	<10	70	0.06	0.12	1.17	7.02	9.41	9.0	4	0.32
459479		7.00	0.14	1.29	0.4	<0.2	<10	100	0.11	0.01	1.42	4.91	5.25	9.6	5	0.23
459480		<0.02	0.13	1.35	0.2	<0.2	<10	100	0.14	0.03	1.45	4.60	5.51	10.0	5	0.24
459481		7.44	0.06	1.26	0.4	<0.2	<10	70	0.14	0.01	1.02	0.03	5.75	9.6	5	0.50
459482		7.03	0.06	1.36	0.3	<0.2	<10	90	0.14	0.01	1.11	0.05	7.05	9.6	4	0.85
459483		7.14	0.13	1.35	0.2	<0.2	<10	70	0.13	0.01	0.74	0.06	6.78	8.9	4	0.40
459484		4.06	0.08	1.37	0.2	<0.2	<10	70	0.12	<0.01	0.73	0.04	6.55	9.0	6	0.35
459485		4.31	0.08	1.31	0.3	<0.2	<10	70	0.14	0.02	0.65	2.49	5.56	10.9	5	0.63
459486		7.04	0.06	1.25	0.4	<0.2	<10	60	0.09	0.02	0.61	0.49	6.73	9.0	4	0.24
459487		7.75	0.06	1.20	0.4	<0.2	<10	50	0.11	0.01	0.43	0.04	6.87	8.7	5	0.12
459488		6.77	0.06	1.16	0.3	<0.2	<10	50	0.12	0.01	0.60	0.05	10.45	8.0	4	0.14
459489		6.14	0.16	1.33	0.4	<0.2	<10	70	0.12	0.07	0.24	2.56	10.55	10.2	5	0.21
459490		<0.02	0.27	1.03	68.1	0.4	10	90	4.42	4.07	0.09	0.05	77.9	70.2	23	0.85
459491		6.13	0.12	1.07	0.2	<0.2	<10	60	0.10	0.08	0.79	2.88	17.65	8.5	4	0.11
459492		7.06	0.12	1.52	0.5	<0.2	<10	60	0.09	0.06	0.60	3.36	7.04	11.8	5	0.08
459493		7.21	0.37	1.24	0.4	<0.2	<10	40	0.09	0.04	0.43	4.42	5.70	6.7	6	0.06
459494		7.71	0.07	1.43	0.3	<0.2	<10	50	0.09	0.03	1.00	1.65	7.04	8.3	5	0.05

Comments: ***Corrected copy with "TI" reported from ME-MS81***

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Page: 2 - B
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Plus Appendix Pages
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Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225571

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
459455		230	2.30	4.14	<0.05	0.03	0.02	0.051	0.13	3.0	7.8	1.16	1360	1.42	0.03
459456		49.1	2.06	4.45	<0.05	0.06	0.01	0.009	0.10	2.1	7.3	1.16	1280	0.76	0.04
459457		113.0	2.67	4.41	<0.05	0.02	0.01	0.136	0.13	1.9	8.0	1.14	1760	1.36	0.03
459458		126.5	3.12	4.88	0.06	<0.02	0.03	0.405	0.13	2.6	9.7	1.16	2270	1.02	0.03
459459		316	4.98	5.23	0.06	<0.02	0.05	0.603	0.17	3.5	12.0	1.24	2840	2.49	0.02
459460		323	5.04	5.41	0.06	0.02	0.05	0.612	0.17	3.6	12.2	1.26	2890	2.56	0.02
459461		383	4.03	4.73	0.06	<0.02	0.05	0.467	0.13	5.9	9.9	1.07	3240	3.55	0.02
459462		749	3.03	3.74	0.05	<0.02	0.05	0.552	0.16	3.2	7.5	0.82	2170	6.65	0.02
459463		113.0	2.76	5.11	0.05	<0.02	0.03	0.084	0.11	4.0	9.6	1.12	2640	1.19	0.03
459464		53.3	3.08	5.75	0.06	<0.02	0.06	0.093	0.09	6.4	10.7	1.17	2960	1.41	0.03
459465		26.0	2.67	2.72	0.06	<0.02	0.01	0.029	0.09	7.4	5.0	1.12	2490	0.37	0.05
459466		9.3	2.12	1.52	0.06	<0.02	<0.01	0.007	0.07	6.5	2.8	0.94	611	0.38	0.07
459467		9.5	2.21	2.35	0.05	<0.02	<0.01	0.011	0.09	6.4	4.9	0.90	1050	0.42	0.06
459468		73.2	2.37	1.81	0.06	<0.02	<0.01	0.013	0.08	7.9	3.4	0.94	1280	33.0	0.06
459469		40.1	2.17	4.45	0.05	0.02	<0.01	0.007	0.09	3.5	8.7	1.00	720	1.49	0.04
459470		2660	4.02	8.54	0.18	0.41	0.01	0.178	1.07	30.9	31.9	1.18	377	94.7	0.16
459471		43.6	1.77	3.71	0.05	0.05	<0.01	<0.005	0.32	2.6	7.5	0.94	401	1.11	0.04
459472		26.6	1.80	3.72	0.05	0.05	<0.01	0.005	0.30	2.6	6.9	0.95	403	1.13	0.04
459473		27.3	2.44	4.44	0.05	0.04	<0.01	0.005	0.30	2.6	7.3	1.08	592	0.76	0.04
459474		51.2	2.08	4.19	0.06	0.07	<0.01	0.006	0.58	2.7	8.3	1.15	479	3.47	0.05
459475		22.7	1.86	3.84	0.06	0.07	<0.01	0.005	0.51	2.5	7.5	1.06	455	0.81	0.05
459476		21.1	1.68	3.93	0.06	0.06	<0.01	<0.005	0.48	2.9	7.6	1.03	611	0.93	0.04
459477		19.0	1.81	3.92	0.05	0.06	<0.01	0.018	0.17	3.2	6.8	0.98	994	14.60	0.04
459478		128.5	2.80	3.35	0.06	0.02	0.04	0.626	0.20	3.5	6.3	0.84	1760	3.45	0.02
459479		52.4	1.83	3.69	<0.05	0.04	0.02	0.216	0.19	2.1	6.7	1.03	1090	0.76	0.03
459480		51.4	1.88	3.88	0.05	0.06	0.02	0.196	0.19	2.2	6.9	1.06	1120	1.02	0.04
459481		29.3	1.69	3.74	0.05	0.06	<0.01	0.006	0.30	2.2	6.9	1.01	627	1.00	0.04
459482		49.2	1.78	4.21	0.05	0.06	<0.01	0.008	0.45	3.0	8.0	1.08	739	0.87	0.04
459483		170.0	1.70	3.81	0.05	0.05	<0.01	0.007	0.26	2.7	6.9	1.01	560	4.00	0.04
459484		82.7	1.69	3.72	0.05	0.06	<0.01	0.005	0.25	2.5	6.8	1.00	486	0.89	0.04
459485		68.1	1.97	3.37	<0.05	0.05	0.01	0.034	0.38	2.2	7.3	0.93	1010	0.72	0.03
459486		41.7	1.69	3.45	<0.05	0.04	<0.01	0.011	0.24	2.8	6.9	0.88	1130	1.28	0.03
459487		56.3	1.59	3.60	0.05	0.05	<0.01	<0.005	0.14	2.7	6.5	0.89	579	1.05	0.04
459488		33.5	1.59	3.45	<0.05	0.04	<0.01	0.007	0.14	3.8	6.3	0.84	616	0.56	0.04
459489		104.0	2.79	3.42	0.06	0.02	0.03	0.127	0.21	3.8	6.8	0.88	1160	0.41	0.03
459490		1390	3.52	3.13	0.13	0.42	0.02	0.202	0.52	38.7	3.0	0.12	289	2.99	0.02
459491		63.4	2.06	2.79	0.06	0.02	0.02	0.147	0.22	6.7	6.0	0.63	1960	0.50	0.02
459492		74.6	2.69	4.15	0.05	0.04	0.02	0.114	0.14	2.9	8.1	1.01	1140	4.12	0.04
459493		279	1.93	3.54	<0.05	0.04	0.02	0.082	0.09	2.3	6.4	0.81	850	0.68	0.04
459494		38.7	2.05	4.22	0.05	0.04	0.01	0.026	0.11	2.8	8.0	0.96	1220	0.75	0.04

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Page: 2 - C
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 14-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225571

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
459455		10.0	470	0.5	1.9	<0.001	0.31	0.10	1.4	<0.2	0.2	36.4	<0.01	0.05	0.9
459456		9.4	450	0.6	1.5	<0.001	0.08	0.13	1.6	0.2	0.2	45.9	<0.01	0.02	0.7
459457		9.8	440	1.5	1.8	0.001	0.47	0.09	1.5	0.2	<0.2	35.7	<0.01	0.20	1.0
459458		9.4	440	0.7	1.9	0.001	0.46	0.07	1.6	0.3	<0.2	28.1	<0.01	0.14	1.2
459459		9.7	470	0.8	2.5	0.002	1.85	0.06	2.1	0.4	0.2	22.9	<0.01	0.34	1.7
459460		9.9	480	0.8	2.5	0.002	1.86	0.06	2.1	0.5	0.2	23.2	<0.01	0.34	1.8
459461		8.7	410	1.2	2.0	0.001	1.05	0.08	2.8	0.5	<0.2	35.5	<0.01	0.28	1.4
459462		7.3	370	0.8	2.4	0.001	0.86	0.07	1.4	0.2	<0.2	30.7	<0.01	0.30	1.8
459463		9.6	460	1.3	1.8	0.001	0.12	0.18	2.4	<0.2	<0.2	55.3	<0.01	0.02	1.1
459464		9.3	450	1.8	1.6	<0.001	0.07	0.18	3.2	0.4	0.2	82.4	<0.01	0.06	1.1
459465		9.9	390	1.1	1.4	<0.001	0.06	0.06	2.2	<0.2	<0.2	68.5	<0.01	0.04	0.8
459466		8.0	390	0.7	1.2	<0.001	0.02	<0.05	1.8	0.3	<0.2	52.0	<0.01	0.01	1.0
459467		6.3	380	1.0	1.5	<0.001	0.03	0.05	1.9	0.2	<0.2	65.2	<0.01	0.01	1.0
459468		5.2	420	1.0	1.5	0.009	0.08	0.05	1.7	0.2	<0.2	73.4	<0.01	0.05	1.1
459469		5.0	470	0.9	1.7	<0.001	0.02	0.13	2.0	0.3	<0.2	61.3	<0.01	<0.01	1.0
459470		37.7	1030	8.4	122.5	0.003	0.37	0.46	6.9	3.5	4.7	60.5	0.01	0.09	17.5
459471		5.2	460	0.6	10.6	<0.001	0.02	0.30	1.6	<0.2	0.2	41.8	<0.01	0.01	0.9
459472		5.4	460	0.5	10.0	<0.001	0.02	0.22	1.6	0.3	0.2	43.8	<0.01	0.01	1.0
459473		6.3	490	0.4	8.1	<0.001	0.02	0.11	1.8	0.3	0.2	54.8	<0.01	0.01	0.9
459474		6.3	450	0.5	18.0	0.001	0.07	0.17	1.9	0.2	0.2	41.8	<0.01	0.01	1.2
459475		5.9	450	0.4	15.6	<0.001	0.03	0.16	1.8	0.2	0.2	40.2	<0.01	0.01	1.0
459476		6.5	460	0.6	14.1	<0.001	0.12	0.14	1.8	0.2	0.2	48.1	<0.01	0.02	1.8
459477		5.5	440	0.8	4.8	0.003	0.13	0.11	1.6	0.2	0.2	50.9	<0.01	0.03	1.5
459478		5.2	430	1.3	3.6	0.001	0.79	0.08	1.7	0.4	0.2	32.8	<0.01	0.12	1.2
459479		5.5	390	0.8	5.3	<0.001	0.21	0.12	1.4	0.2	0.2	39.1	<0.01	0.04	0.8
459480		5.5	400	0.8	5.5	0.001	0.22	0.13	1.5	0.2	<0.2	42.7	<0.01	0.04	0.8
459481		5.2	440	0.6	9.2	<0.001	0.10	0.13	1.4	0.3	0.2	38.3	<0.01	0.01	0.9
459482		5.2	470	0.6	15.6	<0.001	0.15	0.13	1.7	<0.2	0.2	44.7	<0.01	0.01	1.1
459483		5.1	480	0.6	7.9	0.001	0.08	0.15	1.5	<0.2	0.2	44.4	<0.01	0.02	0.7
459484		5.2	480	0.6	7.5	<0.001	0.04	0.18	1.6	<0.2	0.2	47.6	<0.01	0.01	0.8
459485		5.2	460	0.6	12.6	<0.001	0.41	0.13	1.3	0.2	0.2	31.3	<0.01	0.03	0.9
459486		5.0	410	0.6	6.4	<0.001	0.16	0.14	1.4	<0.2	<0.2	30.5	<0.01	0.03	0.8
459487		5.2	430	0.6	3.3	<0.001	0.07	0.17	1.4	0.2	0.2	36.2	<0.01	0.01	0.7
459488		4.7	450	0.8	3.1	<0.001	0.07	0.16	1.4	<0.2	0.2	35.4	<0.01	0.01	1.3
459489		5.0	440	1.2	4.5	<0.001	0.75	0.13	1.7	0.3	0.2	18.8	<0.01	0.05	1.1
459490		32.1	580	13.3	24.0	0.002	0.05	1.27	4.9	2.9	0.6	20.3	<0.01	0.07	9.1
459491		4.6	490	1.0	3.6	<0.001	0.51	0.08	1.8	0.5	0.2	20.1	<0.01	0.05	1.3
459492		5.9	440	0.9	2.4	0.001	0.67	0.12	1.6	0.3	0.2	32.6	<0.01	0.10	0.9
459493		4.6	420	0.7	1.5	<0.001	0.18	0.12	1.5	0.3	0.2	33.7	<0.01	0.06	0.7
459494		5.6	410	0.7	1.9	<0.001	0.09	0.13	1.6	0.2	0.2	41.8	<0.01	0.03	0.7

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Page: 2 - D
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 14-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225571

Sample Description	Method Analyte Units LOR	ME-MS41 TI ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05
459455		<0.02	0.33	19	0.22	3.71	1630	<0.5								
459456		<0.02	0.32	21	0.10	4.17	364	0.5								
459457		<0.02	0.34	19	0.10	3.02	1390	<0.5								
459458		<0.02	0.47	19	0.11	3.46	3490	<0.5								
459459		<0.02	0.59	20	0.14	4.96	5230	<0.5								
459460		<0.02	0.59	20	0.13	5.04	5320	<0.5								
459461		<0.02	0.68	21	0.13	7.46	3380	<0.5								
459462		<0.02	0.59	12	0.16	4.09	2510	<0.5								
459463		<0.02	0.49	22	<0.05	6.23	1130	<0.5								
459464		<0.02	0.57	27	0.06	9.30	1100	<0.5								
459465		<0.02	0.31	17	<0.05	5.58	253	<0.5								
459466		<0.02	0.46	15	<0.05	6.23	69	<0.5								
459467		<0.02	0.55	13	<0.05	6.98	91	<0.5								
459468		<0.02	0.60	15	0.12	5.29	121	<0.5								
459469		<0.02	0.88	19	0.09	6.01	59	<0.5								
459470		0.63	4.39	110	2.28	16.65	79	9.7	0.263		0.240					
459471		0.08	0.57	22	<0.05	3.96	40	0.5								
459472		0.07	0.29	22	<0.05	3.96	39	<0.5								
459473		0.05	0.54	25	0.05	5.14	52	<0.5								
459474		0.09	0.55	28	0.06	4.51	47	0.6								
459475		0.08	0.56	25	<0.05	4.38	53	0.6								
459476		0.08	1.74	24	0.07	4.89	71	0.6								
459477		0.03	0.44	19	0.09	5.44	307	0.6								
459478		0.02	0.38	13	0.40	5.56	3060	<0.5								
459479		0.04	0.37	19	0.07	4.04	1920	0.5								
459480		0.04	0.39	20	0.07	4.42	1830	0.5								
459481		0.06	0.54	21	<0.05	4.33	64	0.5								
459482		0.09	0.41	24	0.05	4.91	147	0.6								
459483		0.06	0.31	21	<0.05	4.87	87	0.5								
459484		0.06	0.28	21	<0.05	4.81	92	0.5								
459485		0.10	0.41	17	<0.05	4.36	850	<0.5								
459486		0.05	0.34	15	<0.05	5.30	387	<0.5								
459487		0.03	0.31	17	<0.05	5.43	106	<0.5								
459488		0.02	0.36	18	<0.05	5.22	141	<0.5								
459489		0.04	0.41	18	<0.05	4.92	1100	<0.5								
459490		0.32	5.79	21	0.97	18.00	20	17.7			0.362					
459491		0.02	0.39	14	0.06	9.02	1240	<0.5								
459492		0.02	0.32	19	0.05	4.33	1400	0.5								
459493		<0.02	0.27	17	<0.05	4.04	1880	<0.5								
459494		<0.02	0.19	18	<0.05	4.99	852	0.5								

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Page: 2 - E
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 14-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225571

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb	Nd	Pr	Rb	Sm	Sn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
459455		0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2	0.1	0.03	0.2	0.03	1
459456															
459457															
459458															
459459															
459460															
459461															
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Page: 2 - F
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 14-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225571

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Ta	Tb	Th	Tl	Tm	U	V	W	Y	Yb	Zr	SiO2	Al2O3	Fe2O3	CaO
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%
		0.1	0.01	0.05	0.5	0.01	0.05	5	1	0.5	0.03	2	0.01	0.01	0.01	0.01
459455																
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459459																
459460																
459461																
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Page: 2 - G
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 14-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225571

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	K2O	SrO	BaO	LOI
		%	%	%	%	%	%	%	%	%	%	Total
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
459455												
459456												
459457												
459458												
459459												
459460												
459461												
459462												
459463												
459464												
459465												
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Page: 3 - A
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 14-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225571

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
459495		8.07	0.48	1.89	2.0	<0.2	<10	70	0.10	0.39	0.23	7.32	6.05	20.3	4	0.09
459496		2.99	0.10	1.78	0.2	<0.2	<10	50	0.12	0.13	0.22	1.38	22.8	10.8	5	0.09
459497		2.79	0.10	1.52	0.3	<0.2	<10	40	0.13	0.01	1.23	0.06	7.52	9.8	4	0.07
459498		6.25	0.15	1.55	0.2	<0.2	<10	50	0.13	0.02	1.65	0.24	9.77	9.8	4	0.09
459499		4.17	0.07	1.63	0.1	<0.2	<10	40	0.12	0.02	0.51	0.37	16.10	9.2	6	0.25
459500		<0.02	0.06	1.59	0.3	<0.2	<10	30	0.09	0.02	0.50	0.22	15.10	9.1	6	0.26
459501		4.29	0.09	1.71	0.3	<0.2	<10	40	0.13	0.03	0.58	0.16	16.20	11.3	4	0.25
459502		3.10	0.08	1.55	0.4	<0.2	<10	50	0.12	0.01	0.76	0.02	9.48	10.1	4	0.05
459503		6.48	0.14	1.57	0.3	<0.2	<10	60	0.10	0.02	0.37	2.04	7.29	10.4	4	0.10
459504		6.92	0.31	1.66	0.4	<0.2	<10	60	0.10	0.12	0.31	1.33	8.94	9.9	4	0.09
459505		5.52	0.35	1.32	0.4	<0.2	<10	40	0.07	0.05	0.29	0.31	7.15	8.1	5	0.07
459506		3.54	0.19	1.39	0.3	<0.2	<10	40	0.08	0.04	0.24	0.27	12.60	9.9	4	0.08
459507		2.58	0.17	1.45	0.3	<0.2	<10	50	0.11	0.04	0.28	0.34	18.90	8.7	4	0.14
459508		5.27	0.17	1.61	0.4	<0.2	<10	80	0.12	0.06	0.34	0.09	16.65	8.9	4	0.16
459509		4.45	0.14	1.65	0.5	<0.2	<10	50	0.10	0.06	0.35	0.05	17.55	10.1	4	0.13
459510		<0.02	0.26	1.04	66.4	0.4	10	90	4.81	4.05	0.09	0.05	77.5	70.3	24	0.87
459511		3.96	0.35	1.54	0.6	<0.2	<10	50	0.08	0.06	0.28	0.05	10.75	9.6	4	0.09
459512		3.22	0.83	1.72	0.5	<0.2	<10	50	0.13	0.07	1.89	0.42	11.35	10.3	4	0.06
459513		5.45	0.12	1.91	0.5	<0.2	<10	40	0.10	0.05	0.34	0.12	10.45	10.0	4	0.08
459514		3.96	0.09	1.80	0.3	<0.2	<10	40	0.09	0.06	0.17	0.26	10.50	9.7	4	0.08
459515		5.78	0.15	1.77	0.6	<0.2	<10	60	0.12	0.04	0.41	2.21	8.13	10.1	5	0.08
459516		7.37	0.12	1.55	1.5	<0.2	<10	50	0.11	0.09	0.78	2.47	6.34	9.8	5	0.05
459517		6.28	0.17	1.65	0.9	<0.2	<10	60	0.11	0.05	0.84	4.37	8.00	10.5	4	0.06
459518		6.10	0.28	1.73	1.2	<0.2	<10	60	0.14	0.09	0.40	3.18	7.16	12.0	4	<0.05
459519		6.77	0.26	1.70	0.6	<0.2	<10	50	0.14	0.07	0.58	1.86	6.74	9.9	5	0.06
459520		<0.02	0.26	1.69	0.6	<0.2	<10	50	0.10	0.06	0.57	1.72	6.37	9.1	5	0.06
459521		6.91	0.08	1.80	1.0	<0.2	<10	50	0.12	0.06	0.64	1.40	6.56	9.8	5	<0.05
459522		6.24	0.17	1.71	1.0	<0.2	<10	60	0.08	0.05	0.42	1.01	8.13	9.9	4	<0.05
459523		6.16	0.23	1.90	0.6	<0.2	<10	60	0.15	0.09	0.45	0.59	8.90	9.9	3	0.13
459524		6.46	0.31	1.55	0.9	<0.2	<10	70	0.09	0.06	0.30	1.33	7.69	10.1	5	<0.05
459525		6.88	0.32	1.57	1.1	<0.2	<10	60	0.09	0.05	0.33	2.43	6.86	9.8	4	<0.05
459526		3.48	0.20	1.62	1.1	<0.2	<10	60	0.09	0.13	0.28	4.76	5.64	10.9	4	0.06
459527		4.76	13.45	1.47	4.8	<0.2	<10	50	0.08	2.35	0.23	4.05	6.45	11.9	4	0.10
459528		1.04	0.09	0.27	0.1	<0.2	<10	30	0.40	0.22	0.31	0.17	95.5	0.7	6	0.47
459529		2.00	9.41	0.54	5.6	<0.2	<10	30	<0.05	2.30	0.11	1.94	9.51	10.4	3	0.09
459530		0.04	0.11	1.49	4.7	<0.2	10	110	0.23	0.06	1.16	0.15	10.60	7.9	36	0.35
459531		2.07	0.22	1.65	0.3	<0.2	<10	20	0.07	0.38	0.40	0.19	9.15	5.5	5	0.05
459532		7.36	0.92	1.81	0.7	<0.2	<10	50	0.11	0.64	0.56	1.29	4.67	11.4	5	0.06
459533		6.42	0.42	1.59	0.2	<0.2	<10	60	0.11	0.05	0.61	0.14	8.44	11.4	5	0.05
459534		5.74	1.01	1.80	0.5	<0.2	<10	50	0.12	0.04	0.54	0.84	6.39	13.4	5	0.06

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Page: 3 - B
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 14-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225571

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
459495		201	5.16	5.01	0.05	<0.02	0.05	0.279	0.20	2.5	10.7	1.24	1880	1.13	0.02
459496		32.9	3.49	6.20	0.07	0.02	0.02	0.074	0.11	9.0	10.7	1.28	1730	0.63	0.04
459497		116.0	2.16	4.62	0.05	0.04	<0.01	0.009	0.10	2.8	8.0	1.16	955	3.99	0.04
459498		182.0	2.21	4.75	<0.05	0.04	<0.01	0.014	0.11	3.4	8.5	1.13	1280	4.73	0.04
459499		40.4	2.75	5.33	0.06	<0.02	<0.01	0.016	0.10	5.7	9.8	1.07	835	1.17	0.03
459500		38.7	2.68	5.23	0.07	<0.02	<0.01	0.014	0.10	5.2	9.8	1.05	828	1.31	0.03
459501		44.7	2.64	5.68	0.05	<0.02	0.01	0.015	0.12	5.7	10.4	1.13	1240	1.32	0.04
459502		78.1	2.12	4.75	0.05	0.06	<0.01	<0.005	0.10	3.1	9.5	1.20	706	0.86	0.04
459503		110.5	2.42	4.58	<0.05	0.03	0.01	0.075	0.15	2.6	9.9	1.10	1160	2.32	0.03
459504		223	3.35	5.17	0.05	0.02	0.01	0.085	0.14	2.9	9.7	1.08	1480	3.40	0.03
459505		350	2.36	4.31	0.05	0.03	<0.01	0.038	0.08	2.6	8.2	0.86	971	1.10	0.03
459506		168.5	2.67	4.15	0.06	0.02	<0.01	0.054	0.10	4.3	8.8	0.90	1100	1.12	0.03
459507		166.0	2.65	4.53	0.07	0.02	<0.01	0.031	0.08	6.6	9.1	0.96	510	0.66	0.04
459508		143.5	2.71	4.91	0.06	0.02	<0.01	0.020	0.10	5.9	9.6	0.99	603	0.68	0.04
459509		60.1	2.92	5.14	0.06	0.02	<0.01	0.023	0.07	6.2	11.2	1.09	841	2.45	0.04
459510		1425	3.58	3.20	0.12	0.34	0.01	0.210	0.53	37.7	3.0	0.12	295	2.90	0.02
459511		238	2.46	4.83	0.05	<0.02	<0.01	0.014	0.06	3.8	10.0	1.06	722	6.18	0.04
459512		477	2.85	5.78	0.07	<0.02	<0.01	0.029	0.06	4.0	11.4	1.24	2760	9.99	0.03
459513		45.4	3.08	6.55	0.06	<0.02	<0.01	0.027	0.06	3.8	13.0	1.22	1040	31.0	0.04
459514		48.0	3.02	6.18	0.06	<0.02	<0.01	0.054	0.06	3.7	12.4	1.09	1260	1.43	0.05
459515		78.9	2.74	4.71	0.05	0.06	0.01	0.117	0.08	3.1	9.0	1.16	1170	3.09	0.04
459516		57.6	2.74	4.55	<0.05	0.05	0.01	0.093	0.09	2.4	7.9	1.01	1130	1.91	0.03
459517		80.7	2.63	4.75	0.05	0.06	0.02	0.104	0.09	3.0	7.7	1.11	1160	5.75	0.04
459518		218	2.87	4.51	0.06	0.05	0.01	0.094	0.08	2.7	8.0	1.11	1090	0.83	0.04
459519		328	2.73	4.52	0.05	0.05	0.02	0.083	0.08	2.7	8.5	1.07	1060	1.64	0.04
459520		341	2.71	4.26	<0.05	0.04	0.01	0.079	0.08	2.5	8.1	1.05	1060	1.91	0.04
459521		44.4	2.95	4.92	0.05	0.06	0.02	0.076	0.06	2.5	8.8	1.19	1180	2.75	0.04
459522		124.0	2.74	4.53	0.05	0.06	0.01	0.062	0.07	3.2	8.3	1.08	1030	0.58	0.04
459523		155.5	3.08	5.29	0.06	0.05	0.01	0.054	0.10	3.4	9.9	1.17	2380	30.5	0.04
459524		193.5	2.52	4.26	0.06	0.06	0.01	0.042	0.08	3.0	7.7	1.01	1060	71.9	0.04
459525		217	2.62	3.82	0.05	0.06	0.02	0.075	0.07	2.6	7.2	1.04	1100	11.85	0.03
459526		219	2.95	3.92	0.05	0.04	0.02	0.147	0.11	2.1	7.4	1.02	1310	73.9	0.03
459527		>10000	6.63	4.83	0.06	<0.02	0.03	1.325	0.16	2.5	6.4	0.87	816	15.80	0.02
459528		30.9	1.07	2.20	0.09	0.21	<0.01	0.048	0.16	52.6	6.4	0.09	253	1.78	0.05
459529		>10000	12.10	1.75	0.08	<0.02	0.02	0.916	0.16	3.4	1.8	0.20	189	13.40	0.02
459530		53.3	2.92	5.08	0.09	0.26	0.02	0.019	0.10	4.5	8.9	0.72	489	5.35	0.09
459531		283	2.27	4.67	0.06	0.07	<0.01	0.041	0.05	3.3	8.6	1.12	937	1465	0.03
459532		1295	3.72	5.14	0.05	0.04	0.01	0.219	0.12	1.9	9.2	1.23	1160	33.5	0.03
459533		431	2.22	4.32	<0.05	0.09	0.01	0.012	0.09	2.9	8.3	1.12	738	39.3	0.05
459534		891	2.87	4.94	<0.05	0.04	0.02	0.023	0.10	2.5	10.8	1.26	1190	2.34	0.04

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10251 GIBALTAR MINE ROAD
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Page: 3 - C
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Plus Appendix Pages
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CERTIFICATE OF ANALYSIS KL16225571

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
459495		6.1	430	0.7	3.3	<0.001	2.15	0.06	1.5	0.2	0.2	18.9	<0.01	0.74	0.7
459496		6.1	500	1.2	2.0	<0.001	0.43	0.10	2.5	0.4	0.2	19.0	<0.01	0.03	1.1
459497		5.5	480	0.9	1.7	0.001	0.04	0.13	1.9	0.3	0.2	42.5	<0.01	0.01	0.7
459498		5.6	470	0.9	1.8	0.001	0.10	0.14	2.5	0.3	0.2	59.0	<0.01	0.01	0.8
459499		5.9	520	2.1	1.8	<0.001	0.03	0.12	2.9	<0.2	0.2	29.5	<0.01	<0.01	1.0
459500		5.8	520	2.0	1.7	<0.001	0.03	0.11	2.8	<0.2	0.2	28.6	<0.01	<0.01	1.0
459501		5.9	550	1.2	2.1	<0.001	0.07	0.06	2.4	<0.2	<0.2	46.3	<0.01	0.01	0.9
459502		5.7	560	0.6	1.6	<0.001	0.02	0.12	1.8	0.2	0.2	41.0	<0.01	<0.01	0.7
459503		5.8	570	0.9	2.5	<0.001	0.18	0.09	1.6	<0.2	0.2	29.6	<0.01	0.02	0.6
459504		5.3	560	0.8	2.2	<0.001	0.41	0.07	1.9	0.2	0.3	25.9	<0.01	0.12	0.6
459505		4.4	480	0.7	1.4	<0.001	0.14	0.08	1.7	0.2	0.2	28.8	<0.01	0.05	0.7
459506		4.3	510	1.1	1.5	<0.001	0.34	0.23	2.0	0.2	0.2	22.7	<0.01	0.04	0.9
459507		4.4	540	2.5	1.3	<0.001	0.07	0.13	1.8	0.3	0.3	28.8	<0.01	<0.01	1.0
459508		4.7	560	1.4	1.7	<0.001	0.03	0.12	2.1	0.2	0.2	41.2	<0.01	<0.01	1.0
459509		5.2	550	2.4	1.2	<0.001	0.04	0.15	2.3	0.2	0.3	44.0	<0.01	0.01	1.0
459510		32.0	580	12.6	23.7	0.002	0.04	1.26	5.1	2.9	0.5	20.1	<0.01	0.06	8.1
459511		4.7	530	1.3	1.0	0.003	0.09	0.10	2.2	0.2	<0.2	33.2	<0.01	0.01	0.7
459512		5.6	530	1.2	1.0	0.002	0.24	0.07	3.1	0.2	<0.2	51.0	<0.01	0.06	0.8
459513		6.2	470	0.5	1.0	0.005	0.11	<0.05	2.7	<0.2	<0.2	19.9	<0.01	0.04	0.7
459514		5.3	480	0.8	1.0	<0.001	0.11	<0.05	2.9	0.2	<0.2	16.8	<0.01	0.02	0.7
459515		5.4	540	0.8	1.1	0.001	0.26	0.10	1.7	0.2	0.2	37.8	<0.01	0.07	0.8
459516		5.0	480	0.6	1.2	0.001	0.47	0.07	1.3	0.2	0.2	37.6	<0.01	0.12	0.8
459517		5.1	520	0.6	1.3	0.001	0.29	0.09	1.6	0.2	0.2	47.6	<0.01	0.08	0.8
459518		4.8	530	0.5	1.1	<0.001	0.38	0.11	1.4	<0.2	0.2	39.2	<0.01	0.16	0.8
459519		5.0	490	0.5	1.1	<0.001	0.26	0.11	1.4	<0.2	0.2	42.9	<0.01	0.13	0.8
459520		4.6	490	0.5	1.1	<0.001	0.25	0.10	1.3	<0.2	0.2	41.4	<0.01	0.10	0.8
459521		5.6	490	0.6	0.9	<0.001	0.26	0.08	1.5	0.3	0.2	38.3	<0.01	0.09	1.0
459522		4.9	520	0.7	1.0	<0.001	0.28	0.11	1.4	0.3	0.2	38.8	<0.01	0.09	1.1
459523		5.1	490	0.8	1.4	0.005	0.26	0.08	1.8	0.2	0.2	35.6	<0.01	0.12	1.0
459524		5.4	440	0.6	1.1	0.009	0.37	0.08	1.6	0.2	0.2	29.9	<0.01	0.11	1.0
459525		4.8	450	0.5	1.0	0.003	0.47	0.09	1.4	0.2	0.2	28.9	<0.01	0.06	1.0
459526		5.3	430	0.6	1.4	0.004	0.73	0.09	1.5	0.3	0.2	25.3	<0.01	0.16	0.6
459527		5.7	890	0.5	2.1	0.003	4.85	0.08	1.3	0.4	1.8	7.7	<0.01	4.41	0.8
459528		1.0	120	5.9	8.6	<0.001	0.04	<0.05	0.8	0.3	0.6	10.6	<0.01	0.01	25.6
459529		6.3	480	0.5	2.1	0.003	>10.0	0.08	0.8	1.7	3.5	4.9	<0.01	4.17	0.8
459530		29.1	580	3.3	3.5	0.001	0.09	0.55	4.7	0.4	1.0	44.6	<0.01	0.02	1.0
459531		4.5	500	0.8	0.7	0.252	0.28	0.21	1.9	0.3	0.3	36.4	<0.01	0.25	0.8
459532		5.6	500	0.3	1.6	0.005	1.39	0.07	1.6	<0.2	0.3	25.4	<0.01	0.86	0.7
459533		7.4	480	2.3	1.7	0.010	0.17	0.14	1.9	0.4	0.3	44.8	<0.01	0.06	1.0
459534		7.0	530	0.8	1.7	0.001	0.37	0.11	1.8	0.3	<0.2	34.2	<0.01	0.05	1.0

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Page: 3 - D
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 14-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225571

Sample Description	Method Analyte Units LOR	ME-MS41 TI ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05
459495		0.02	0.18	20	0.09	4.14	3160	<0.5								
459496		<0.02	0.53	30	<0.05	9.76	657	<0.5								
459497		<0.02	0.31	22	0.05	5.78	69	<0.5								
459498		<0.02	0.32	22	0.06	6.87	210	<0.5								
459499		<0.02	0.43	33	0.11	5.28	204	<0.5								
459500		<0.02	0.40	32	0.10	5.18	199	<0.5								
459501		<0.02	0.70	22	0.10	7.52	321	<0.5								
459502		<0.02	0.22	21	<0.05	6.58	91	0.5								
459503		0.02	0.20	18	<0.05	5.35	977	<0.5								
459504		0.02	0.20	21	0.05	6.54	716	<0.5								
459505		<0.02	0.17	18	0.05	5.55	350	<0.5								
459506		<0.02	0.20	21	0.08	6.84	320	<0.5								
459507		<0.02	0.25	36	0.06	7.54	172	<0.5								
459508		<0.02	0.26	37	0.14	6.35	160	<0.5								
459509		<0.02	0.41	48	0.22	6.03	160	<0.5								
459510		0.34	5.81	22	0.94	17.95	20	13.6			0.365					
459511		<0.02	0.26	29	0.08	5.06	98	<0.5								
459512		<0.02	0.26	30	0.08	6.82	276	<0.5								
459513		<0.02	0.19	31	0.16	4.04	258	<0.5								
459514		<0.02	0.26	29	0.12	4.44	328	<0.5				666	18.3	20	0.60	2.86
459515		<0.02	0.36	24	0.05	5.37	1040	0.5								
459516		<0.02	0.27	18	<0.05	4.49	1160	0.5								
459517		<0.02	0.44	20	<0.05	6.19	1800	0.5								
459518		<0.02	0.29	21	<0.05	5.14	1530	0.5								
459519		<0.02	0.26	19	<0.05	4.52	880	<0.5								
459520		<0.02	0.25	18	<0.05	4.29	883	<0.5								
459521		<0.02	0.29	23	<0.05	4.96	801	0.6								
459522		<0.02	0.42	21	<0.05	5.76	528	0.6								
459523		<0.02	0.54	25	<0.05	8.73	451	0.5								
459524		<0.02	0.31	20	<0.05	6.67	749	0.5								
459525		<0.02	0.29	20	<0.05	5.88	1400	0.5								
459526		<0.02	0.24	18	<0.05	4.88	2380	<0.5								
459527		0.02	1.69	13	0.30	3.69	1480	<0.5	2.01							
459528		0.05	2.94	9	0.23	13.05	48	4.4								
459529		<0.02	3.11	6	0.21	4.71	526	<0.5	1.605			613	14.3	20	0.82	2.13
459530		0.06	0.32	63	0.51	6.80	45	7.3								
459531		<0.02	0.71	25	<0.05	7.92	399	0.6		0.154						
459532		<0.02	0.30	24	0.08	3.34	749	<0.5								
459533		<0.02	0.39	26	<0.05	6.04	144	0.7								
459534		<0.02	0.32	26	<0.05	4.95	472	<0.5								

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Page: 3 - E
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 14-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225571

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb	Nd	Pr	Rb	Sm	Sn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
459495		0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2	0.1	0.03	0.2	0.03	1
459496															
459497															
459498															
459499															
459500															
459501															
459502															
459503															
459504															
459505															
459506															
459507															
459508															
459509															
459510															
459511															
459512															
459513															
459514		1.71	0.65	19.2	2.94	3.9	0.61	7.0	0.22	2.3	12.4	2.61	20.1	3.10	247
459515															
459516															
459517															
459518															
459519															
459520															
459521															
459522															
459523															
459524															
459525															
459526															
459527															
459528															
459529		1.32	0.48	19.1	2.14	2.7	0.45	5.6	0.22	1.5	9.9	2.09	38.5	2.66	48.3
459530															
459531															
459532															
459533															
459534															

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Page: 3 - F
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 14-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225571

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Ta	Tb	Th	Tl	Tm	U	V	W	Y	Yb	Zr	SiO2	Al2O3	Fe2O3	CaO
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%
459495		0.1	0.01	0.05	0.5	0.01	0.05	5	1	0.5	0.03	2	0.01	0.01	0.01	0.01
459496																
459497																
459498																
459499																
459500																
459501																
459502																
459503																
459504																
459505																
459506																
459507																
459508																
459509																
459510																
459511																
459512																
459513																
459514		0.2	0.48	1.12	<0.5	0.26	0.77	119	1	16.4	1.60	135	66.3	16.20	5.08	0.66
459515																
459516																
459517																
459518																
459519																
459520																
459521																
459522																
459523																
459524																
459525																
459526																
459527																
459528																
459529		0.2	0.36	0.88	<0.5	0.22	4.00	99	8	12.9	1.38	99	53.0	11.75	14.50	0.18
459530																
459531																
459532																
459533																
459534																

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Page: 3 - G
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 14-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225571

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%
459495		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
459496												
459497												
459498												
459499												
459500												
459501												
459502												
459503												
459504												
459505												
459506												
459507												
459508												
459509												
459510												
459511												
459512												
459513												
459514		2.06	4.09	1.32	<0.01	0.48	0.17	0.10	0.03	0.07	2.40	98.96
459515												
459516												
459517												
459518												
459519												
459520												
459521												
459522												
459523												
459524												
459525												
459526												
459527												
459528												
459529		0.67	0.28	3.24	<0.01	0.38	0.04	0.11	<0.01	0.07	9.44	93.66
459530												
459531												
459532												
459533												
459534												

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Page: 4 - A
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 14-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225571

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
459535		5.66	2.21	2.58	0.7	<0.2	<10	50	0.10	0.27	1.52	2.48	14.15	16.6	4	0.07
459536		3.52	0.47	1.42	1.0	<0.2	<10	50	0.10	1.21	0.24	0.74	12.15	29.2	4	0.09
459537		4.53	0.06	1.72	0.4	<0.2	<10	40	0.08	0.06	0.90	0.05	5.43	11.1	4	0.05
459538		6.53	0.97	1.72	1.3	<0.2	<10	50	0.09	0.07	1.14	1.90	4.35	12.7	4	0.06
459539		6.13	0.11	1.39	0.3	<0.2	<10	60	0.09	0.02	0.53	0.04	7.09	9.1	4	<0.05
459540		<0.02	0.12	1.38	0.3	<0.2	<10	60	0.12	0.02	0.53	0.04	7.16	9.3	5	<0.05
459541		6.83	0.02	1.43	0.3	<0.2	<10	50	0.12	0.01	0.92	0.02	6.09	9.5	4	<0.05
459542		6.01	0.07	1.57	0.5	<0.2	<10	50	0.10	0.03	0.63	0.94	5.23	10.5	4	<0.05
459543		6.63	0.04	1.59	0.3	<0.2	<10	40	0.11	0.03	0.73	0.78	5.72	8.4	4	<0.05
459544		5.89	0.04	1.75	0.1	<0.2	<10	30	0.07	0.04	0.77	0.71	6.01	9.6	5	<0.05
459545		5.58	0.10	1.58	0.6	<0.2	<10	50	0.09	0.07	0.74	2.52	6.13	8.8	4	<0.05
459546		4.55	0.05	1.59	0.2	<0.2	<10	50	0.09	0.01	0.68	0.39	7.22	10.8	5	<0.05
459547		6.80	0.26	1.68	0.6	<0.2	<10	50	0.08	0.03	0.83	0.55	5.61	11.2	5	<0.05
459548		6.61	0.20	1.55	0.3	<0.2	<10	50	0.07	0.02	1.78	0.42	5.14	10.1	4	<0.05
459549		7.68	1.17	1.48	0.5	<0.2	<10	50	0.08	0.04	0.66	0.33	7.26	9.8	5	0.05
459550		0.04	0.46	2.06	14.8	<0.2	10	80	0.31	0.43	1.16	0.22	9.66	50.2	265	1.22
459551		3.29	0.08	1.47	0.8	<0.2	<10	50	0.10	0.04	0.32	0.80	7.69	11.2	4	0.05
459552		4.08	3.28	1.38	2.9	<0.2	<10	40	0.07	0.47	0.29	3.28	13.40	12.6	4	0.07
459553		1.14	0.05	0.26	0.1	<0.2	<10	20	0.35	0.15	0.36	0.04	96.0	0.7	6	0.41
459554		6.96	0.09	1.46	0.6	<0.2	<10	50	0.06	0.03	0.87	0.20	5.73	9.6	6	<0.05

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Page: 4 - B
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 14-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225571

Sample Description	Method Analyte Units LOR	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01	ME-MS41 Nb ppm 0.05
459535		2380	6.08	8.74	0.06	<0.02	0.06	0.229	0.13	5.2	16.9	2.12	2870	4.11	0.03	<0.05
459536		536	10.10	4.15	0.07	0.02	0.02	0.077	0.15	4.4	8.6	0.78	3120	6.43	0.03	<0.05
459537		52.5	2.74	5.48	<0.05	<0.02	0.01	0.012	0.09	2.2	13.7	1.16	670	0.88	0.04	<0.05
459538		971	3.29	4.77	<0.05	<0.02	0.04	0.202	0.12	1.8	11.8	1.11	1460	0.81	0.03	<0.05
459539		103.5	1.98	3.63	<0.05	0.05	0.01	0.007	0.09	2.6	8.5	1.00	723	0.38	0.04	<0.05
459540		118.5	1.96	3.68	<0.05	0.05	0.01	0.006	0.09	2.6	8.6	0.98	703	0.33	0.04	<0.05
459541		17.0	1.88	3.60	<0.05	0.06	<0.01	0.005	0.07	2.3	7.9	1.08	741	1.20	0.04	<0.05
459542		53.1	2.27	3.52	<0.05	0.05	0.01	0.033	0.09	2.0	8.2	1.10	927	0.43	0.04	<0.05
459543		30.7	2.37	3.81	<0.05	0.06	0.01	0.041	0.10	2.1	8.8	1.03	1200	0.29	0.03	<0.05
459544		59.3	2.71	4.60	<0.05	0.04	0.01	0.040	0.07	2.3	10.0	1.15	1170	0.47	0.04	<0.05
459545		220	2.55	3.88	<0.05	0.06	0.03	0.108	0.08	2.5	8.0	1.00	872	0.51	0.04	0.05
459546		46.9	2.25	4.01	<0.05	0.03	<0.01	0.016	0.07	2.7	8.1	1.11	585	0.58	0.04	<0.05
459547		285	2.91	4.43	<0.05	0.03	0.01	0.047	0.09	2.1	8.5	1.11	1000	0.67	0.03	<0.05
459548		214	2.44	3.83	<0.05	0.03	0.01	0.030	0.08	1.9	8.0	1.07	1120	0.66	0.04	0.05
459549		927	2.61	3.95	<0.05	0.02	0.01	0.069	0.10	2.7	7.5	0.96	1050	0.51	0.04	<0.05
459550		848	5.45	5.56	0.08	0.03	0.02	0.023	0.67	3.9	4.2	5.41	470	91.7	0.11	<0.05
459551		45.3	2.43	3.68	<0.05	0.02	0.01	0.022	0.07	2.9	7.8	1.01	1860	0.32	0.03	<0.05
459552		5580	4.21	3.70	<0.05	0.03	0.01	0.466	0.08	4.6	7.0	0.89	2560	1.26	0.03	<0.05
459553		13.2	1.08	2.11	0.08	0.20	<0.01	0.016	0.14	53.8	6.8	0.09	277	1.70	0.05	3.27
459554		126.0	2.22	3.77	<0.05	0.03	<0.01	0.012	0.07	2.0	7.8	1.03	987	0.50	0.03	<0.05

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Page: 4 - C
Total # Pages: 4 (A - G)
Plus Appendix Pages
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Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225571

Sample Description	Method Analyte Units LOR	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2	ME-MS41 Ti % 0.005
459535		8.7	550	1.1	2.1	0.001	1.27	<0.05	4.5	0.7	<0.2	56.1	<0.01	0.38	1.3	0.007
459536		6.4	460	1.1	2.4	0.002	9.04	<0.05	2.6	1.7	<0.2	14.0	<0.01	0.84	1.0	<0.005
459537		5.3	530	0.5	1.4	<0.001	0.20	0.05	2.0	0.4	<0.2	34.9	<0.01	0.02	0.9	0.005
459538		5.7	490	0.6	1.9	<0.001	0.73	0.07	1.4	0.3	<0.2	33.9	<0.01	0.10	0.4	0.012
459539		4.8	490	0.5	1.4	<0.001	0.09	0.10	1.2	0.2	0.2	36.2	<0.01	0.02	1.0	0.039
459540		4.9	480	0.5	1.4	<0.001	0.09	0.11	1.2	0.3	0.2	37.4	<0.01	0.01	1.0	0.038
459541		4.8	470	0.6	1.1	0.001	0.04	0.13	1.3	0.2	0.2	47.6	<0.01	<0.01	0.8	0.072
459542		4.6	440	0.5	1.4	<0.001	0.25	0.11	1.2	0.3	0.2	35.5	<0.01	0.03	0.7	0.054
459543		5.7	440	0.4	1.6	<0.001	0.16	0.13	1.3	0.5	0.2	31.4	<0.01	0.02	0.8	0.039
459544		5.3	480	0.5	1.1	<0.001	0.20	0.14	1.5	0.4	0.2	38.0	<0.01	0.02	0.6	0.039
459545		4.8	500	0.5	1.2	<0.001	0.41	0.15	1.2	0.4	0.2	38.5	<0.01	0.07	0.7	0.055
459546		5.4	530	0.4	1.2	<0.001	0.06	0.07	1.3	0.4	<0.2	43.1	<0.01	0.01	0.6	0.022
459547		5.2	520	0.4	1.5	<0.001	0.44	0.06	1.2	0.2	<0.2	31.4	<0.01	0.05	0.4	0.025
459548		4.8	550	0.4	1.4	<0.001	0.22	0.05	1.2	0.3	<0.2	43.7	<0.01	0.03	0.3	0.047
459549		4.9	480	0.5	1.5	<0.001	0.54	0.06	1.3	0.5	0.2	33.3	<0.01	0.06	0.6	0.015
459550		633	700	4.6	27.9	0.099	3.84	0.78	7.9	3.8	0.3	49.5	<0.01	0.21	0.9	0.059
459551		5.7	480	0.8	1.1	<0.001	0.23	0.07	2.1	0.4	<0.2	30.7	<0.01	0.05	0.4	0.008
459552		5.5	490	1.1	1.2	<0.001	2.15	0.10	2.9	0.7	0.6	24.7	<0.01	0.77	0.4	0.006
459553		0.9	120	5.6	8.2	<0.001	0.03	<0.05	0.8	0.5	0.6	13.1	<0.01	0.01	27.0	0.013
459554		5.1	470	0.3	1.0	<0.001	0.23	0.06	1.1	<0.2	<0.2	31.2	<0.01	0.03	0.3	0.022

Comments: ***Corrected copy with "TI" reported from ME-MS81***

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CERTIFICATE OF ANALYSIS KL16225571

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05
459535		0.02	0.44	37	0.12	9.96	1230	<0.5	0.230							
459536		0.02	1.52	18	0.14	19.05	401	<0.5								
459537		<0.02	0.29	26	0.06	3.79	153	<0.5								
459538		<0.02	0.13	20	0.12	3.36	929	<0.5								
459539		<0.02	0.27	18	<0.05	5.66	128	<0.5								
459540		<0.02	0.27	18	<0.05	5.63	126	<0.5								
459541		<0.02	0.28	20	<0.05	5.11	111	0.5								
459542		<0.02	0.41	19	<0.05	4.74	534	0.5								
459543		<0.02	0.26	17	<0.05	5.54	520	0.5								
459544		<0.02	0.29	24	<0.05	4.81	518	<0.5								
459545		<0.02	0.28	21	0.05	4.48	1080	0.6								
459546		<0.02	0.17	20	<0.05	3.98	208	<0.5								
459547		<0.02	0.13	19	0.06	3.57	297	<0.5								
459548		<0.02	0.19	19	0.05	3.75	315	<0.5								
459549		<0.02	0.36	17	<0.05	5.09	280	<0.5								
459550		0.60	0.27	71	10.60	4.67	62	1.1				732	18.0	20	0.45	3.25
459551		<0.02	0.15	20	<0.05	10.10	413	<0.5								
459552		<0.02	1.12	20	0.07	14.15	880	<0.5	0.565							
459553		0.05	3.11	8	0.23	14.10	20	4.3								
459554		<0.02	0.11	17	<0.05	4.12	209	<0.5								

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Page: 4 - E
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Plus Appendix Pages
Finalized Date: 14-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225571

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb	Nd	Pr	Rb	Sm	Sn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
459535		0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2	0.1	0.03	0.2	0.03	1
459536															0.1
459537															
459538															
459539															
459540															
459541															
459542															
459543															
459544															
459545															
459546															
459547															
459548															
459549															
459550		2.26	0.67	19.4	2.93	4.3	0.75	7.1	0.45	2.0	11.4	2.52	17.8	3.20	1
459551															309
459552															
459553															
459554															

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Finalized Date: 14-JAN-2017
Account: GIBMIN

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CERTIFICATE OF ANALYSIS KL16225571[illegible]

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Page: 4 - G
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 14-JAN-2017
Account: GIBMIN

Project: SGM2016-22

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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 14-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225571

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
 ME-MS41

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.			
	CRU - 31	CRU - QC	LOG - 21d	LOG - 22
	LOG - 23	PUL - 31	PUL - 31d	PUL - QC
	SPL - 21	SPL - 21d	WEI - 21	
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au - AA23	Cu - OG46	ME - ICP06	ME - MS41
	ME - MS81	ME - OG46	Mo - OG46	OA - GRA05
	TOT - ICP06			



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16-MAR-2017
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CERTIFICATE KL16225580

Project: SGM2016-22

P.O. No.: SO218733

This report is for 100 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 22-DEC-2016.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Mo-OG46	Ore Grade Mo - Aqua Regia	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

To: **GIBRALTAR MINES LTD.**
ATTN: ALS MINERALS

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.

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Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 14-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225580

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
459555		7.58	0.02	1.23	0.1	<0.2	<10	80	0.07	0.01	0.84	0.01	7.14	8.6	7	0.23
459556		6.82	0.08	0.83	0.4	<0.2	<10	70	0.08	0.03	0.66	0.25	6.74	6.3	7	0.05
459557		8.15	0.50	1.27	0.8	<0.2	<10	50	0.09	0.08	0.47	1.13	7.14	7.6	9	<0.05
459558		7.88	0.78	1.41	1.2	<0.2	<10	50	0.06	0.81	0.52	2.32	6.95	7.7	8	<0.05
459559		6.98	0.02	1.15	0.4	<0.2	<10	60	0.07	0.02	0.78	0.04	5.03	8.3	8	0.06
459560		<0.02	0.02	1.13	0.4	<0.2	<10	60	0.08	0.02	0.79	0.05	5.18	8.3	10	0.07
459561		8.31	0.03	1.45	0.5	<0.2	<10	60	0.09	0.01	1.15	0.02	5.93	10.3	7	0.08
459562		6.03	0.02	1.19	0.1	<0.2	<10	60	0.09	0.01	0.68	0.08	5.59	7.8	8	<0.05
459563		4.94	1.00	1.20	1.6	<0.2	<10	50	0.07	0.28	0.25	0.64	5.19	7.0	7	<0.05
459564		5.69	1.31	1.19	2.0	<0.2	<10	60	0.08	1.74	0.16	3.32	4.39	7.2	7	0.05
459565		1.10	0.05	0.25	<0.1	<0.2	<10	20	0.40	0.25	0.34	0.04	101.5	0.6	5	0.43
459566		5.10	0.01	0.97	0.2	<0.2	<10	50	0.07	0.02	0.79	0.02	6.35	6.4	7	<0.05
459567		7.21	0.01	0.87	0.1	<0.2	<10	60	0.08	0.01	0.62	0.01	9.59	5.8	9	<0.05
459568		6.75	0.01	1.05	0.3	<0.2	<10	80	0.11	0.01	0.76	0.03	6.43	8.2	9	0.24
459569		4.45	0.04	0.51	0.2	<0.2	<10	40	0.06	0.01	0.64	0.05	8.24	4.2	10	0.10
459570		0.04	2.38	1.76	26.9	0.3	10	60	0.35	1.04	0.85	2.26	9.90	11.1	30	3.83
459571		4.56	0.08	0.91	0.2	<0.2	<10	60	0.09	0.03	0.60	0.92	6.16	5.4	9	0.05
459572		3.29	1.43	0.38	0.8	<0.2	<10	50	0.06	0.75	0.26	0.20	4.65	10.7	7	0.07
459573		2.58	0.06	1.04	0.3	<0.2	<10	50	0.08	0.02	0.50	0.02	8.45	6.9	8	<0.05
459574		6.95	0.06	1.08	0.4	<0.2	<10	60	0.07	0.01	0.60	1.67	8.92	8.3	10	<0.05
459575		7.65	0.19	1.21	0.2	<0.2	<10	50	0.07	0.02	0.56	1.44	8.25	8.5	8	<0.05
459576		7.38	0.23	1.14	0.4	<0.2	<10	50	0.06	0.17	0.44	3.02	6.63	7.8	10	<0.05
459577		3.28	0.18	0.94	0.3	<0.2	<10	50	0.06	0.11	0.46	0.64	7.64	9.7	8	0.05
459578		3.99	2.44	1.28	0.7	<0.2	<10	50	0.07	0.96	0.58	3.01	5.73	7.5	5	0.06
459579		7.13	0.25	1.32	0.5	<0.2	<10	40	0.07	0.11	0.43	1.59	6.09	7.5	6	<0.05
459580		<0.02	0.24	1.32	0.4	<0.2	<10	40	0.07	0.09	0.44	1.49	6.04	7.3	7	0.05
459581		7.24	0.07	1.12	0.1	<0.2	<10	50	0.07	0.03	0.66	0.68	7.00	6.4	7	<0.05
459582		7.10	0.76	1.11	0.4	<0.2	<10	50	0.06	0.41	0.91	0.37	5.63	7.2	6	0.05
459583		7.02	1.02	1.19	0.5	<0.2	<10	40	0.09	0.92	0.57	0.57	5.44	7.1	6	0.05
459584		6.58	1.03	1.31	0.6	<0.2	<10	40	0.08	0.32	0.55	2.04	3.72	7.2	5	<0.05
459585		8.42	0.14	1.40	0.6	<0.2	<10	40	0.09	0.79	0.62	4.85	4.01	7.8	5	<0.05
459586		8.22	0.53	1.60	0.6	<0.2	<10	80	0.09	1.00	0.54	16.05	4.15	8.5	5	<0.05
459587		6.28	0.78	1.01	0.3	<0.2	<10	80	0.08	0.19	0.67	2.43	4.16	4.7	5	<0.05
459588		4.80	1.99	0.50	0.5	<0.2	<10	70	0.08	1.68	0.23	1.03	5.19	5.1	6	0.05
459589		3.51	0.03	0.65	0.1	<0.2	<10	70	0.08	0.04	0.76	0.05	6.20	3.8	8	<0.05
459590		0.04	0.93	1.57	5.7	<0.2	10	120	0.29	0.19	0.96	0.43	12.90	11.7	29	0.43
459591		6.98	0.03	0.55	0.2	<0.2	<10	50	0.07	0.05	0.64	0.10	7.36	4.7	11	<0.05
459592		4.13	0.02	0.81	<0.1	<0.2	<10	50	0.10	0.02	0.45	0.06	10.85	5.5	13	<0.05
459593		7.04	0.01	0.75	0.2	<0.2	<10	70	0.08	0.15	0.64	0.66	12.40	5.3	6	<0.05
459594		7.80	0.01	0.64	0.3	<0.2	<10	80	0.08	0.02	0.73	0.68	6.80	4.1	8	<0.05

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Plus Appendix Pages
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Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225580

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
459555		12.6	1.76	3.40	<0.05	0.03	<0.01	<0.005	0.13	2.6	6.8	0.89	524	0.48	0.04
459556		91.1	1.36	2.32	<0.05	0.02	<0.01	0.010	0.10	2.5	4.2	0.54	568	1.20	0.03
459557		532	2.28	3.49	<0.05	<0.02	0.01	0.099	0.08	2.5	6.0	0.80	840	0.76	0.03
459558		752	3.08	4.47	<0.05	0.02	0.01	0.291	0.10	2.5	5.8	0.83	1130	1.21	0.03
459559		9.0	1.74	3.18	<0.05	0.02	<0.01	<0.005	0.08	2.0	5.7	0.84	522	0.74	0.04
459560		9.1	1.70	3.19	<0.05	0.02	<0.01	0.005	0.09	2.1	5.8	0.82	510	0.85	0.04
459561		18.4	2.00	3.85	<0.05	0.04	<0.01	<0.005	0.08	2.1	7.3	1.18	547	1.54	0.04
459562		18.5	1.67	3.12	<0.05	0.03	<0.01	0.008	0.08	2.0	5.4	0.85	549	0.99	0.04
459563		1295	3.29	3.70	<0.05	<0.02	<0.01	0.393	0.16	2.0	4.7	0.64	763	0.93	0.02
459564		2380	3.20	3.59	<0.05	<0.02	0.01	0.345	0.18	1.7	4.5	0.62	752	0.89	0.02
459565		7.6	1.03	2.16	0.08	0.20	<0.01	0.015	0.14	58.0	7.1	0.09	268	1.07	0.05
459566		6.0	1.44	2.77	<0.05	0.02	<0.01	0.005	0.08	2.4	4.7	0.64	488	0.51	0.04
459567		6.3	1.21	2.54	<0.05	0.03	<0.01	<0.005	0.09	3.0	4.4	0.59	357	0.68	0.04
459568		6.5	1.43	2.91	<0.05	0.04	<0.01	0.005	0.17	2.3	6.0	0.77	549	0.71	0.03
459569		57.1	0.84	1.80	<0.05	0.03	<0.01	<0.005	0.08	3.1	2.7	0.34	407	0.77	0.04
459570		2540	4.58	4.74	0.05	0.03	0.05	0.139	0.31	5.1	17.8	0.57	769	213	0.05
459571		170.5	1.47	2.57	<0.05	<0.02	0.01	0.054	0.14	2.6	4.7	0.55	767	0.94	0.02
459572		2790	4.81	0.99	<0.05	<0.02	<0.01	0.069	0.21	2.0	1.2	0.10	230	1.22	0.01
459573		105.0	1.44	2.80	<0.05	0.02	<0.01	0.006	0.08	3.5	5.6	0.72	512	0.56	0.03
459574		36.0	1.65	2.90	<0.05	0.02	0.01	0.074	0.09	3.7	5.6	0.74	574	1.18	0.03
459575		122.5	1.72	3.09	<0.05	0.02	<0.01	0.126	0.08	3.3	6.3	0.88	579	2.23	0.03
459576		427	2.12	2.96	<0.05	0.02	0.01	0.273	0.12	2.8	6.5	0.73	823	0.92	0.02
459577		418	2.07	2.51	<0.05	0.02	<0.01	0.026	0.10	3.0	5.0	0.62	557	0.59	0.03
459578		3400	2.93	4.02	<0.05	<0.02	0.02	0.514	0.13	2.3	6.8	0.77	1090	0.94	0.02
459579		318	2.34	4.07	<0.05	<0.02	0.01	0.080	0.10	2.3	7.6	0.95	1080	0.57	0.03
459580		315	2.34	4.04	<0.05	<0.02	0.01	0.075	0.11	2.3	7.5	0.94	1100	0.66	0.02
459581		121.5	1.70	3.14	<0.05	<0.02	0.01	0.038	0.09	2.7	6.0	0.80	869	0.58	0.03
459582		2900	2.31	3.25	<0.05	<0.02	0.01	0.107	0.11	2.3	5.6	0.73	895	0.69	0.03
459583		3280	2.90	3.51	<0.05	<0.02	0.01	0.176	0.12	2.2	5.1	0.67	921	0.49	0.02
459584		3090	2.94	3.59	<0.05	<0.02	0.02	0.172	0.11	1.6	5.6	0.75	947	0.54	0.02
459585		54.7	2.22	3.38	<0.05	<0.02	0.03	0.069	0.05	1.6	6.9	0.79	1080	0.52	0.03
459586		345	3.24	3.81	<0.05	<0.02	0.06	0.519	0.09	1.6	6.2	0.87	1180	0.66	0.02
459587		998	2.12	3.08	<0.05	<0.02	0.01	0.250	0.12	1.8	3.7	0.52	777	0.82	0.02
459588		5930	2.64	1.62	<0.05	<0.02	0.04	0.255	0.22	2.2	1.4	0.19	312	0.79	0.01
459589		68.8	1.05	2.13	<0.05	<0.02	<0.01	0.008	0.11	2.2	2.5	0.40	463	0.47	0.03
459590		3190	3.17	5.71	0.07	0.25	0.03	0.051	0.21	7.2	10.2	0.75	466	234	0.09
459591		96.1	1.20	1.87	<0.05	<0.02	<0.01	0.037	0.10	3.0	2.1	0.34	719	1.17	0.02
459592		23.6	1.50	2.72	<0.05	<0.02	<0.01	0.016	0.10	4.6	3.5	0.63	770	0.92	0.03
459593		16.7	1.47	2.57	<0.05	0.02	0.01	0.043	0.11	5.3	3.2	0.45	820	0.45	0.02
459594		8.9	1.03	2.05	<0.05	0.02	<0.01	0.020	0.12	2.6	2.5	0.36	567	0.36	0.03

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Page: 2 - C
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 14-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225580

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
459555		5.2	440	0.4	3.4	<0.001	0.02	0.06	1.2	0.4	<0.2	40.1	<0.01	<0.01	0.4
459556		2.9	360	0.4	1.5	<0.001	0.21	0.05	0.7	0.3	<0.2	29.0	<0.01	0.03	0.5
459557		3.9	400	0.3	1.2	<0.001	0.44	0.05	0.8	0.2	<0.2	24.3	<0.01	0.16	0.4
459558		3.9	410	0.3	1.5	<0.001	0.79	0.06	1.1	0.2	0.2	22.8	<0.01	0.84	0.4
459559		3.6	440	0.3	1.8	<0.001	0.05	0.05	0.9	0.2	<0.2	33.1	<0.01	0.02	0.3
459560		3.7	440	0.3	1.9	<0.001	0.05	0.05	0.9	0.4	<0.2	33.6	<0.01	0.01	0.3
459561		4.9	550	0.4	2.0	<0.001	0.02	0.06	1.3	0.2	<0.2	48.1	<0.01	0.01	0.4
459562		3.8	450	0.3	1.3	<0.001	0.06	0.05	1.0	0.3	<0.2	36.1	<0.01	0.01	0.3
459563		3.3	380	0.2	2.2	<0.001	1.53	<0.05	0.8	0.3	0.2	13.5	<0.01	0.33	0.6
459564		3.3	350	0.3	2.5	<0.001	1.58	0.05	0.7	0.2	0.2	13.3	<0.01	1.61	0.8
459565		0.7	120	5.7	8.4	<0.001	0.03	<0.05	0.8	0.6	0.5	12.9	<0.01	0.01	26.8
459566		3.1	390	0.4	1.2	<0.001	0.05	0.05	0.8	0.3	<0.2	34.1	<0.01	0.02	0.5
459567		3.0	360	0.3	1.5	<0.001	0.03	0.05	0.8	0.4	<0.2	31.7	<0.01	0.01	0.5
459568		4.2	370	0.6	4.5	<0.001	0.04	0.06	1.2	0.2	<0.2	36.1	<0.01	0.01	0.5
459569		2.4	150	0.4	1.9	<0.001	0.05	0.05	0.7	0.2	<0.2	23.4	<0.01	0.02	2.1
459570		20.8	750	76.6	15.2	0.228	2.23	1.56	2.6	4.1	0.6	56.6	<0.01	0.62	3.4
459571		3.2	330	0.5	2.3	<0.001	0.18	<0.05	0.7	0.2	<0.2	31.9	<0.01	0.04	0.5
459572		3.1	320	0.5	3.0	<0.001	4.94	0.05	0.3	0.4	0.2	6.5	<0.01	0.61	0.5
459573		3.6	450	0.4	1.2	<0.001	0.12	0.05	0.8	0.2	<0.2	33.0	<0.01	0.03	0.5
459574		3.9	450	0.4	1.5	<0.001	0.26	0.05	0.8	<0.2	<0.2	32.4	<0.01	0.04	0.6
459575		4.2	450	0.4	1.3	<0.001	0.17	0.05	0.9	<0.2	<0.2	33.3	<0.01	0.09	0.5
459576		3.7	420	0.4	1.8	<0.001	0.72	<0.05	0.7	<0.2	<0.2	23.2	<0.01	0.21	0.5
459577		3.5	390	0.4	1.5	<0.001	1.02	<0.05	0.7	0.3	<0.2	23.7	<0.01	0.13	0.4
459578		3.2	400	0.5	1.9	<0.001	1.14	0.05	0.8	0.2	0.2	20.9	<0.01	1.24	0.4
459579		3.4	410	0.4	1.6	<0.001	0.51	<0.05	0.9	<0.2	<0.2	19.1	<0.01	0.14	0.4
459580		3.4	400	0.4	1.7	<0.001	0.51	<0.05	0.9	0.2	<0.2	19.5	<0.01	0.13	0.4
459581		3.1	380	0.4	1.4	<0.001	0.27	<0.05	0.7	<0.2	<0.2	29.0	<0.01	0.06	0.4
459582		3.4	430	0.5	1.7	<0.001	0.93	0.06	0.8	0.2	0.4	29.0	<0.01	0.32	0.4
459583		3.6	420	0.4	2.0	<0.001	1.25	0.05	0.9	0.2	0.4	24.7	<0.01	0.57	0.5
459584		3.6	420	0.5	1.8	<0.001	1.26	0.06	0.9	<0.2	0.3	22.0	<0.01	0.53	0.3
459585		3.8	430	0.6	0.7	<0.001	0.44	0.08	0.9	0.2	<0.2	29.6	<0.01	0.86	0.3
459586		4.1	450	0.6	1.3	<0.001	1.17	0.07	1.0	<0.2	<0.2	26.1	<0.01	0.85	0.2
459587		2.5	320	0.7	1.7	<0.001	0.78	0.06	0.7	0.2	0.2	30.6	<0.01	0.20	0.6
459588		2.2	340	0.4	3.2	<0.001	2.30	<0.05	0.3	<0.2	0.2	7.6	<0.01	1.78	0.6
459589		2.4	260	0.6	1.7	<0.001	0.08	<0.05	0.7	<0.2	<0.2	28.3	<0.01	0.02	0.6
459590		24.2	670	9.1	10.2	0.254	0.47	2.12	5.6	1.3	1.1	48.9	<0.01	0.10	1.9
459591		4.0	240	0.7	1.7	<0.001	0.10	<0.05	1.0	0.2	<0.2	22.2	<0.01	0.02	0.7
459592		14.6	230	0.5	1.7	<0.001	0.06	<0.05	1.5	<0.2	<0.2	17.2	<0.01	<0.01	1.0
459593		2.9	300	0.8	1.9	<0.001	0.12	<0.05	1.3	0.3	<0.2	22.8	<0.01	0.08	1.1
459594		2.3	280	1.0	1.9	<0.001	0.09	0.05	0.7	0.2	<0.2	30.3	<0.01	0.01	0.7

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Page: 2 - D
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 14-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225580

Sample Description	Method Analyte Units LOR	ME-MS41 TI ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05
459555		0.03	0.12	17	<0.05	5.16	46	<0.5								
459556		<0.02	0.19	8	<0.05	4.28	194	<0.5								
459557		<0.02	0.09	11	0.05	4.43	607	<0.5								
459558		<0.02	0.44	12	0.18	6.04	1160	<0.5								
459559		<0.02	0.15	14	<0.05	3.71	86	<0.5								
459560		0.02	0.15	14	0.05	3.74	88	<0.5								
459561		<0.02	0.22	23	<0.05	4.51	46	0.5								
459562		<0.02	0.30	15	<0.05	4.07	127	<0.5								
459563		<0.02	0.21	8	0.17	3.41	396	<0.5								
459564		<0.02	0.35	7	0.48	2.88	1480	<0.5	0.239							
459565		0.05	3.18	8	0.23	14.55	21	4.4								
459566		<0.02	0.18	9	<0.05	4.13	75	<0.5								
459567		<0.02	0.23	9	<0.05	6.59	36	<0.5				740	19.6	40	0.32	2.30
459568		0.03	0.32	13	<0.05	5.71	82	<0.5								
459569		0.02	1.04	6	<0.05	6.47	51	<0.5								
459570		0.29	0.68	33	1.76	4.94	439	0.9	0.247	0.027	0.310					
459571		<0.02	0.17	9	<0.05	3.47	495	<0.5								
459572		0.02	1.87	3	0.06	2.64	74	<0.5	0.276							
459573		<0.02	0.24	10	<0.05	5.09	100	<0.5								
459574		<0.02	0.24	10	<0.05	5.30	714	<0.5								
459575		<0.02	0.19	14	<0.05	5.08	659	<0.5								
459576		<0.02	0.17	9	0.06	4.04	1340	<0.5								
459577		<0.02	0.19	8	0.05	4.62	358	<0.5								
459578		<0.02	0.18	9	0.08	4.08	1280	<0.5	0.342							
459579		<0.02	0.10	12	0.05	4.06	717	<0.5								
459580		<0.02	0.10	12	0.05	4.08	702	<0.5								
459581		<0.02	0.12	9	<0.05	3.78	424	<0.5								
459582		<0.02	0.34	10	<0.05	4.02	214	<0.5	0.287							
459583		<0.02	0.82	10	0.09	4.10	361	<0.5	0.321							
459584		<0.02	0.27	10	0.11	2.66	982	<0.5	0.318							
459585		<0.02	0.06	12	<0.05	3.06	2240	<0.5								
459586		<0.02	0.08	12	0.05	3.16	7130	<0.5								
459587		<0.02	0.29	6	<0.05	3.72	1070	<0.5								
459588		0.02	0.70	2	0.09	3.65	332	<0.5	0.583							
459589		<0.02	0.23	6	<0.05	4.64	125	<0.5								
459590		0.10	0.45	64	13.30	8.47	57	6.4	0.313	0.029						
459591		<0.02	0.20	6	<0.05	5.67	135	<0.5								
459592		<0.02	0.26	11	0.10	6.40	168	<0.5								
459593		<0.02	0.29	7	<0.05	7.55	343	<0.5								
459594		<0.02	0.20	5	<0.05	5.89	194	<0.5								

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Page: 2 - E
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 14-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225580

Sample Description	Method Analyte Units LOR	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1
459555 459556 459557 459558 459559																
459560 459561 459562 459563 459564																
459565 459566 459567 459568 459569		1.57	0.58	17.3	2.30	4.1	0.48	7.9	0.28	2.3	11.7	2.63	17.5	2.70	1	366
459570 459571 459572 459573 459574																
459575 459576 459577 459578 459579																
459580 459581 459582 459583 459584																
459585 459586 459587 459588 459589																
459590 459591 459592 459593 459594																

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Page: 2 - F
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 Plus Appendix Pages
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 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225580

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Ta	Tb	Th	Tl	Tm	U	V	W	Y	Yb	Zr	SiO2	Al2O3	Fe2O3	CaO
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%
459555		0.1	0.01	0.05	0.5	0.01	0.05	5	1	0.5	0.03	2	0.01	0.01	0.01	0.01
459556																
459557																
459558																
459559																
459560																
459561																
459562																
459563																
459564																
459565																
459566		0.3	0.37	1.35	<0.5	0.23	0.82	72	1	14.3	1.61	141	68.9	15.00	3.57	3.65
459567																
459568																
459569																
459570																
459571																
459572																
459573																
459574																
459575																
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Page: 2 - G
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 14-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225580

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
459555												
459556												
459557												
459558												
459559												
459560												
459561												
459562												
459563												
459564												
459565												
459566		1.38	4.36	1.26	<0.01	0.31	0.08	0.08	0.04	0.08	1.65	100.36
459567												
459568												
459569												
459570												
459571												
459572												
459573												
459574												
459575												
459576												
459577												
459578												
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Page: 3 - A
Total # Pages: 4 (A - G)
Plus Appendix Pages
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Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225580

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
459595		7.00	0.16	0.61	2.4	<0.2	<10	70	0.07	0.05	0.77	0.57	5.96	12.2	7	<0.05
459596		3.71	0.28	0.44	<0.1	<0.2	<10	70	0.07	0.13	1.15	0.26	6.93	3.9	7	0.05
459597		5.50	0.74	0.36	0.6	<0.2	<10	50	0.10	0.54	0.29	0.34	16.60	45.5	5	0.05
459598		6.32	0.01	0.62	0.2	<0.2	<10	70	0.08	0.03	1.35	0.11	7.22	4.3	6	<0.05
459599		7.63	0.02	0.62	0.2	<0.2	<10	80	0.07	0.09	0.71	0.14	4.97	4.1	9	0.09
459600		<0.02	0.02	0.64	0.2	<0.2	<10	80	0.06	0.02	0.72	0.17	5.57	4.1	9	0.08
459601		7.25	0.02	0.54	0.3	<0.2	<10	90	0.08	0.01	0.70	0.07	7.79	3.8	7	0.28
459602		3.68	0.01	0.58	0.3	<0.2	<10	70	0.08	0.01	0.61	0.01	6.54	4.1	11	<0.05
459603		3.71	0.01	0.64	0.4	<0.2	<10	70	0.07	0.03	0.79	1.23	5.39	3.9	7	<0.05
459604		8.20	0.03	0.58	0.3	<0.2	<10	60	0.08	0.03	0.95	0.57	4.95	2.9	7	<0.05
459605		7.85	0.18	0.42	0.1	<0.2	<10	70	0.07	0.15	0.72	0.10	6.77	2.5	7	0.05
459606		5.03	0.15	0.61	0.1	<0.2	<10	50	0.11	0.15	1.24	0.81	14.30	3.4	5	0.06
459607		2.44	0.47	0.29	0.4	<0.2	<10	50	<0.05	0.13	0.20	0.06	11.10	11.4	5	0.05
459608		8.13	0.10	0.63	0.2	<0.2	<10	40	0.09	0.03	0.73	0.01	7.24	3.7	6	0.05
459609		7.56	0.05	0.64	0.2	<0.2	<10	30	0.09	0.03	0.74	0.03	9.14	4.1	6	0.15
459610		0.04	0.86	1.42	6.0	0.2	10	110	0.28	0.21	0.84	0.36	11.60	10.2	26	0.38
459611		8.43	0.64	0.31	1.5	<0.2	<10	10	0.07	0.45	0.22	0.87	10.50	60.4	5	0.09
459612		7.23	0.85	0.53	0.5	<0.2	<10	50	0.07	0.17	0.50	0.10	12.00	5.2	6	0.23
459613		4.89	0.53	0.28	0.5	<0.2	<10	40	0.07	0.26	1.17	0.55	16.80	2.5	5	0.14
459614		5.34	0.43	0.35	0.4	<0.2	<10	80	0.12	0.29	1.50	0.26	13.70	3.2	5	0.18
459615		6.05	0.28	0.26	0.5	<0.2	<10	60	0.07	0.33	0.75	0.31	16.70	5.3	5	0.11
459616		8.06	0.30	0.37	0.3	<0.2	<10	50	0.08	0.12	0.70	0.28	15.00	4.2	7	0.13
459617		7.70	0.23	0.26	0.4	<0.2	<10	70	0.09	0.13	0.60	0.12	19.35	2.0	8	0.17
459618		6.57	0.09	0.18	0.3	<0.2	<10	70	0.05	0.06	0.35	0.03	11.75	1.2	6	0.09
459619		2.84	0.12	0.17	<0.1	<0.2	<10	80	0.05	0.04	0.39	0.01	16.05	0.7	8	0.08
459620		<0.02	0.12	0.16	0.1	<0.2	<10	80	0.06	0.06	0.39	0.02	15.95	0.7	10	0.08
459621		5.19	0.34	0.19	0.1	<0.2	<10	70	0.07	0.12	0.43	0.06	14.30	1.3	7	0.15
459622		7.22	0.35	0.18	0.5	<0.2	<10	60	0.06	0.11	0.29	0.09	15.80	1.6	6	0.09
459623		6.45	0.30	0.20	0.1	<0.2	<10	80	0.08	0.08	0.46	0.20	9.03	2.2	9	0.09
459624		6.28	0.17	0.22	0.1	<0.2	<10	60	0.07	0.17	0.48	0.20	6.85	2.4	7	0.07
459625		6.27	0.17	0.22	0.2	<0.2	<10	60	0.07	0.05	0.56	0.15	5.71	1.9	8	0.05
459626		6.31	0.53	0.21	0.3	<0.2	<10	50	0.05	0.20	0.48	0.30	6.34	3.2	7	<0.05
459627		6.30	0.37	0.29	0.3	<0.2	<10	50	0.06	0.13	0.40	0.20	10.90	4.1	8	0.10
459628		5.62	0.19	0.29	0.4	<0.2	<10	50	0.07	0.11	0.23	0.30	14.80	2.5	6	0.12
459629		6.76	0.13	0.72	0.4	<0.2	<10	70	0.20	0.08	1.00	0.23	7.28	7.0	87	0.37
459630		0.04	0.88	1.47	5.6	0.2	10	120	0.21	0.19	0.87	0.37	12.10	10.6	28	0.39
459631		7.53	0.23	0.43	0.3	<0.2	<10	60	0.11	0.07	0.85	0.36	4.95	3.7	28	0.14
459632		6.79	0.43	0.28	0.2	<0.2	<10	60	0.07	0.13	0.32	0.10	7.63	3.5	7	0.06
459633		8.01	0.57	0.26	0.1	<0.2	<10	50	0.06	0.22	0.49	0.09	7.95	4.3	9	0.06
459634		8.53	0.28	0.31	0.3	<0.2	<10	50	0.06	0.15	0.23	0.06	14.10	7.4	15	0.07

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Page: 3 - B
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 14-JAN-2017
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Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225580

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
459595		349	1.90	1.81	<0.05	<0.02	0.01	0.048	0.13	2.5	2.3	0.37	665	0.63	0.02
459596		930	1.54	1.30	<0.05	<0.02	0.01	0.078	0.17	2.9	1.3	0.29	1280	0.54	0.01
459597		1850	6.27	1.10	<0.05	<0.02	0.01	0.083	0.20	7.5	0.6	0.07	919	2.01	0.01
459598		13.5	1.20	2.12	<0.05	<0.02	<0.01	0.010	0.10	2.9	2.5	0.36	781	0.64	0.02
459599		22.8	1.04	2.06	<0.05	<0.02	<0.01	0.007	0.12	1.8	2.3	0.36	539	1.08	0.03
459600		20.5	1.05	2.17	<0.05	0.02	<0.01	0.008	0.12	1.9	2.4	0.37	548	1.21	0.03
459601		4.4	0.86	1.84	<0.05	0.03	<0.01	0.007	0.17	2.6	2.2	0.28	466	0.76	0.02
459602		3.7	0.93	1.85	<0.05	0.02	<0.01	<0.005	0.10	2.0	2.0	0.32	374	5.48	0.03
459603		9.9	1.14	1.99	<0.05	<0.02	0.02	0.041	0.11	2.0	2.2	0.34	604	0.92	0.03
459604		38.5	1.25	1.91	<0.05	0.02	<0.01	0.038	0.10	1.7	2.7	0.30	632	2.85	0.02
459605		512	1.30	1.31	<0.05	<0.02	0.01	0.024	0.13	2.8	1.8	0.19	425	1.02	0.01
459606		346	1.61	2.03	<0.05	<0.02	0.04	0.073	0.10	5.5	2.8	0.31	1440	0.48	0.02
459607		1790	3.75	0.83	<0.05	<0.02	0.01	0.040	0.17	4.3	0.5	0.04	121	0.85	<0.01
459608		419	1.31	2.23	<0.05	0.02	<0.01	0.013	0.07	2.5	3.0	0.34	488	0.51	0.02
459609		81.2	1.32	2.29	<0.05	0.02	<0.01	0.024	0.07	3.8	3.0	0.36	492	0.47	0.02
459610		3050	2.95	5.19	0.08	0.21	0.03	0.047	0.19	5.4	10.2	0.69	425	211	0.07
459611		1405	11.30	0.90	0.06	<0.02	0.01	0.062	0.16	4.2	0.6	0.06	215	16.80	<0.01
459612		3540	2.53	1.65	<0.05	<0.02	0.01	0.090	0.16	4.7	1.6	0.24	576	0.64	0.01
459613		1355	1.36	0.92	<0.05	<0.02	0.01	0.097	0.11	6.6	0.8	0.09	951	0.79	0.01
459614		1435	2.45	1.08	<0.05	<0.02	0.01	0.073	0.12	5.2	1.1	0.12	1650	0.96	0.01
459615		772	2.39	0.77	<0.05	<0.02	0.01	0.043	0.16	6.7	0.4	0.04	567	1.10	0.01
459616		1070	1.82	1.20	<0.05	<0.02	0.03	0.062	0.14	6.1	0.9	0.12	593	1.29	0.01
459617		784	1.08	0.87	<0.05	<0.02	0.01	0.050	0.18	7.7	0.5	0.04	419	0.66	0.02
459618		141.5	0.51	0.57	<0.05	<0.02	<0.01	0.012	0.14	4.6	0.3	0.01	166	0.45	0.02
459619		193.5	0.48	0.56	<0.05	<0.02	<0.01	0.014	0.15	6.1	0.3	0.01	202	0.67	0.02
459620		185.0	0.44	0.51	<0.05	<0.02	<0.01	0.014	0.14	6.1	0.3	0.01	197	0.70	0.02
459621		807	0.88	0.55	<0.05	<0.02	<0.01	0.056	0.16	5.5	0.2	0.01	198	1.02	0.02
459622		1205	1.02	0.57	<0.05	<0.02	<0.01	0.056	0.13	6.1	0.3	0.01	167	0.73	0.02
459623		1070	1.22	0.71	<0.05	<0.02	<0.01	0.050	0.14	3.4	0.3	0.01	306	2.27	0.02
459624		364	1.12	0.65	<0.05	<0.02	<0.01	0.031	0.14	2.9	0.3	0.02	264	0.56	0.02
459625		329	0.88	0.70	<0.05	<0.02	<0.01	0.022	0.14	2.4	0.4	0.02	265	1.07	0.03
459626		2150	1.58	0.65	<0.05	<0.02	<0.01	0.074	0.15	2.6	0.3	0.02	274	0.50	0.01
459627		1565	1.35	0.91	<0.05	0.22	0.01	0.078	0.18	4.3	0.5	0.04	292	1.37	0.02
459628		596	1.19	0.90	<0.05	<0.02	0.01	0.033	0.14	6.0	0.6	0.06	202	0.68	0.02
459629		480	1.25	1.57	<0.05	0.02	<0.01	0.038	0.30	3.0	2.9	0.59	350	1.24	0.02
459630		3110	3.06	5.43	0.07	0.22	0.03	0.046	0.20	5.6	10.8	0.72	442	223	0.07
459631		658	1.02	1.19	<0.05	<0.02	0.01	0.078	0.22	2.1	1.5	0.24	473	2.26	0.02
459632		1960	1.55	0.86	<0.05	<0.02	<0.01	0.062	0.20	3.2	0.5	0.03	225	0.67	0.01
459633		2900	1.82	0.80	<0.05	<0.02	<0.01	0.074	0.18	3.5	0.4	0.02	347	0.67	0.01
459634		1200	3.29	0.86	<0.05	<0.02	<0.01	0.044	0.19	5.7	0.7	0.05	171	1.55	0.01

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Page: 3 - C
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Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225580

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
459595		2.8	270	0.7	1.9	<0.001	1.11	<0.05	0.5	<0.2	<0.2	25.4	<0.01	0.54	0.9
459596		1.7	300	0.7	2.6	<0.001	0.60	<0.05	0.5	0.3	<0.2	33.1	<0.01	0.12	1.1
459597		3.0	260	0.7	2.8	<0.001	6.74	<0.05	0.5	1.3	0.2	12.4	<0.01	0.54	1.4
459598		2.0	260	0.7	1.5	<0.001	0.09	<0.05	1.0	<0.2	<0.2	41.0	<0.01	0.02	0.7
459599		2.3	280	0.6	2.2	<0.001	0.07	0.05	0.9	<0.2	<0.2	31.5	<0.01	0.06	0.5
459600		2.2	270	0.6	2.2	<0.001	0.06	0.05	1.0	0.2	<0.2	33.8	<0.01	0.03	0.5
459601		2.1	270	0.8	4.1	<0.001	0.07	0.07	1.0	0.2	<0.2	33.7	<0.01	0.02	0.7
459602		2.2	280	0.5	1.7	0.002	0.06	0.05	0.9	0.2	<0.2	32.7	<0.01	0.01	0.4
459603		1.9	330	0.6	1.7	<0.001	0.15	<0.05	0.7	0.2	<0.2	26.6	<0.01	0.04	0.5
459604		3.1	280	2.1	1.5	0.001	0.19	0.05	0.6	0.3	<0.2	27.7	<0.01	0.02	0.7
459605		1.5	290	0.8	1.9	<0.001	0.67	<0.05	0.4	0.4	<0.2	19.5	<0.01	0.09	1.0
459606		1.6	310	0.9	1.4	<0.001	0.27	<0.05	0.8	0.4	<0.2	31.7	<0.01	0.12	1.0
459607		1.5	250	0.5	2.1	<0.001	3.84	<0.05	0.2	0.5	0.2	6.6	<0.01	0.23	1.1
459608		1.8	310	0.9	1.0	<0.001	0.25	0.08	0.8	0.3	<0.2	29.7	<0.01	0.04	0.8
459609		1.8	350	1.2	1.0	<0.001	0.24	0.11	0.9	0.2	<0.2	32.9	<0.01	0.03	0.9
459610		21.5	630	8.1	8.5	0.208	0.44	2.38	4.6	1.4	1.0	41.4	<0.01	0.08	1.6
459611		1.9	240	1.2	2.0	0.002	>10.0	0.09	0.3	2.4	0.2	9.0	<0.01	0.66	0.8
459612		1.7	340	0.9	2.2	<0.001	1.92	0.08	0.5	0.6	0.3	20.5	<0.01	0.26	1.0
459613		1.0	180	1.6	1.6	<0.001	0.76	0.11	0.5	0.2	<0.2	30.2	<0.01	0.15	1.5
459614		1.4	270	1.4	1.9	<0.001	1.60	0.05	0.6	0.4	<0.2	38.3	<0.01	0.27	1.4
459615		1.3	190	1.4	2.3	<0.001	2.23	0.06	0.3	0.5	<0.2	19.2	<0.01	0.21	1.6
459616		1.5	240	1.4	2.0	<0.001	1.30	0.05	0.5	0.2	<0.2	18.3	<0.01	0.17	1.4
459617		1.3	180	1.5	2.5	<0.001	0.69	0.05	0.4	0.4	<0.2	18.9	<0.01	0.09	2.0
459618		0.8	110	1.9	2.2	<0.001	0.18	0.06	0.3	0.4	<0.2	13.5	<0.01	0.06	1.6
459619		0.6	80	1.8	2.4	<0.001	0.14	0.05	0.3	0.2	<0.2	10.8	<0.01	0.03	2.4
459620		0.7	80	1.8	2.3	<0.001	0.14	0.06	0.3	0.4	<0.2	10.4	<0.01	0.04	2.3
459621		0.9	100	1.9	2.2	<0.001	0.61	0.07	0.2	0.3	<0.2	17.3	<0.01	0.12	1.9
459622		0.7	130	1.8	1.8	<0.001	0.77	0.05	0.3	0.4	<0.2	15.1	<0.01	0.10	1.7
459623		1.0	150	1.3	1.9	<0.001	0.91	0.07	0.3	0.4	<0.2	16.9	<0.01	0.13	1.0
459624		1.4	190	1.6	1.9	<0.001	0.91	0.06	0.3	0.4	<0.2	19.3	<0.01	0.14	1.1
459625		1.0	180	1.1	1.9	<0.001	0.63	0.05	0.3	<0.2	<0.2	19.2	<0.01	0.07	1.1
459626		1.2	210	0.8	2.1	<0.001	1.48	0.05	0.3	0.5	0.2	11.5	<0.01	0.18	1.1
459627		2.1	180	0.9	2.9	<0.001	1.06	0.05	0.4	0.4	<0.2	16.1	<0.01	0.14	1.3
459628		1.4	190	1.6	2.2	<0.001	0.75	0.05	0.6	0.5	<0.2	20.7	<0.01	0.07	1.4
459629		31.3	450	0.7	7.7	<0.001	0.48	0.06	0.8	0.3	<0.2	50.3	<0.01	0.12	0.9
459630		22.1	650	8.7	8.7	0.234	0.45	2.37	4.8	1.1	1.0	42.8	<0.01	0.10	1.7
459631		11.0	290	0.5	4.5	<0.001	0.46	0.05	0.6	0.4	<0.2	20.4	<0.01	0.10	1.2
459632		1.2	180	0.5	2.9	<0.001	1.40	<0.05	0.3	0.2	<0.2	9.9	<0.01	0.20	1.3
459633		1.2	220	0.5	2.6	<0.001	1.75	<0.05	0.2	0.4	0.2	8.9	<0.01	0.23	1.1
459634		3.3	200	0.4	2.5	<0.001	3.38	<0.05	0.3	0.8	0.2	5.5	<0.01	0.24	1.3

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Page: 3 - D
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 14-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225580

Sample Description	Method Analyte Units LOR	ME-MS41 TI ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05
459595		<0.02	0.21	4	<0.05	4.39	252	<0.5								
459596		<0.02	0.52	4	0.08	5.52	131	<0.5								
459597		0.02	2.56	3	0.16	8.16	104	<0.5	0.186							
459598		<0.02	0.17	7	<0.05	5.25	68	<0.5								
459599		0.02	0.24	6	<0.05	6.38	87	<0.5								
459600		0.02	0.26	7	<0.05	6.84	96	<0.5								
459601		0.03	0.34	6	<0.05	7.04	80	<0.5								
459602		<0.02	0.26	5	<0.05	7.50	55	<0.5								
459603		<0.02	0.35	5	<0.05	5.19	628	<0.5								
459604		<0.02	0.20	4	<0.05	4.82	282	<0.5								
459605		<0.02	0.50	2	0.06	4.14	97	<0.5								
459606		<0.02	1.23	4	0.10	12.70	457	<0.5								
459607		<0.02	0.74	1	0.14	3.38	17	<0.5	0.179							
459608		<0.02	0.26	6	<0.05	5.49	36	<0.5								
459609		<0.02	0.29	8	0.07	4.70	59	<0.5								
459610		0.09	0.34	58	13.60	6.73	53	5.9	0.312	0.029	0.276					
459611		<0.02	0.77	2	0.20	2.57	101	<0.5								
459612		<0.02	1.29	2	0.21	4.75	56	<0.5	0.361							
459613		<0.02	1.89	1	0.26	6.90	255	<0.5								
459614		<0.02	2.63	2	0.41	14.55	156	<0.5								
459615		<0.02	1.23	1	0.19	6.57	121	<0.5								
459616		<0.02	0.45	2	0.13	5.39	131	<0.5								
459617		0.02	0.44	1	0.11	7.22	59	<0.5								
459618		<0.02	0.73	1	<0.05	4.83	7	<0.5								
459619		<0.02	0.76	1	<0.05	6.60	4	<0.5								
459620		<0.02	0.59	1	<0.05	6.47	4	<0.5								
459621		<0.02	0.53	1	0.10	5.20	11	<0.5								
459622		<0.02	0.52	1	0.10	5.66	20	<0.5								
459623		<0.02	0.59	1	<0.05	5.13	59	<0.5								
459624		<0.02	0.60	1	<0.05	4.09	54	<0.5								
459625		<0.02	0.34	1	<0.05	4.23	41	<0.5								
459626		<0.02	1.00	1	<0.05	3.60	78	<0.5	0.220							
459627		0.02	0.66	1	0.06	5.41	82	<0.5	0.158							
459628		<0.02	0.61	2	0.08	7.23	114	<0.5								
459629		0.05	0.49	12	0.06	4.54	88	0.6								
459630		0.10	0.34	60	14.60	6.92	55	6.0	0.315	0.029	0.261					
459631		0.03	0.58	5	0.05	3.94	174	<0.5								
459632		0.02	0.45	1	<0.05	4.63	45	<0.5	0.204							
459633		<0.02	0.51	1	0.06	4.43	36	<0.5	0.295							
459634		<0.02	0.62	1	0.08	4.60	17	<0.5								

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Page: 3 - E
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 14-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225580

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb	Nd	Pr	Rb	Sm	Sn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
459595		0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2	0.1	0.03	0.2	0.03	1
459596															
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459601															
459602															
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Page: 3 - F
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 14-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225580

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Ta	Tb	Th	Tl	Tm	U	V	W	Y	Yb	Zr	SiO2	Al2O3	Fe2O3	CaO
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%
		0.1	0.01	0.05	0.5	0.01	0.05	5	1	0.5	0.03	2	0.01	0.01	0.01	0.01
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Page: 3 - G
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 14-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225580

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
459595												
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Page: 4 - A
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 14-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225580

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
459635		5.73	0.24	0.30	0.3	<0.2	<10	40	<0.05	0.24	0.06	0.03	19.35	19.1	8	0.06
459636		2.44	0.02	0.37	<0.1	<0.2	<10	40	0.05	0.02	0.35	0.01	5.53	1.9	8	<0.05
459637		6.92	0.11	0.44	0.2	<0.2	<10	40	0.06	0.02	0.34	0.12	4.81	2.1	10	<0.05
459638		7.73	0.04	0.49	0.1	<0.2	<10	50	0.07	0.01	0.27	0.01	4.98	2.3	9	<0.05
459639		2.57	0.01	0.39	0.2	<0.2	<10	30	0.06	0.02	0.37	<0.01	4.79	2.3	8	<0.05
459640		<0.02	0.01	0.43	0.1	<0.2	<10	30	0.05	0.03	0.40	<0.01	5.85	2.7	11	<0.05
459641		5.85	1.10	0.46	0.3	<0.2	<10	60	0.08	0.30	0.98	0.17	8.95	8.1	10	0.09
459642		7.40	0.02	0.50	0.3	<0.2	<10	70	0.07	0.02	0.48	0.17	6.28	1.8	9	<0.05
459643		7.65	0.02	0.46	0.3	<0.2	<10	50	0.05	0.01	0.39	0.25	5.51	1.9	13	<0.05
459644		7.28	0.02	0.38	0.2	<0.2	<10	80	0.06	0.01	0.41	0.10	5.24	1.6	11	<0.05
459645		7.55	0.16	0.46	0.4	<0.2	<10	60	0.08	0.01	0.49	0.28	4.50	2.2	10	<0.05
459646		7.88	0.04	0.63	0.6	<0.2	<10	70	0.11	0.01	0.46	0.26	3.10	4.6	8	<0.05
459647		8.09	0.03	0.58	0.2	<0.2	<10	50	0.08	0.02	0.46	0.07	4.10	2.7	9	<0.05
459648		8.21	0.10	0.68	0.2	<0.2	<10	50	0.08	0.03	0.46	0.03	4.11	3.1	10	<0.05
459649		4.86	0.12	0.60	0.4	<0.2	<10	90	0.10	0.08	1.23	0.09	4.47	4.2	6	0.06
459650		0.04	2.89	1.74	30.3	0.3	<10	60	0.35	0.99	0.84	2.19	9.84	11.8	29	3.91
462707		7.77	0.05	1.40	0.2	<0.2	<10	70	0.21	0.01	0.99	0.08	13.00	10.4	7	0.57
462708		6.73	0.18	1.38	0.1	<0.2	<10	80	0.15	0.01	0.74	0.05	11.60	10.6	7	0.45
462709		7.22	0.24	1.40	0.3	<0.2	<10	40	0.10	0.02	1.48	0.22	12.30	9.5	7	0.08
462710		0.06	0.78	2.03	18.9	0.2	<10	380	0.59	1.67	0.97	0.10	65.2	16.2	88	11.00

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Page: 4 - B
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 14-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225580

Sample Description	Method Analyte Units LOR	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01	ME-MS41 Nb ppm 0.05
459635		1355	5.45	0.88	0.05	<0.02	<0.01	0.034	0.20	8.7	0.3	0.01	43	3.66	<0.01	<0.05
459636		99.2	0.73	1.23	<0.05	<0.02	<0.01	0.007	0.09	2.4	1.3	0.15	367	0.49	0.03	<0.05
459637		161.0	0.84	1.50	<0.05	<0.02	<0.01	0.010	0.07	2.1	1.6	0.20	362	0.62	0.03	<0.05
459638		63.6	0.82	1.60	<0.05	<0.02	<0.01	<0.005	0.07	2.2	1.9	0.22	296	0.63	0.03	<0.05
459639		29.4	0.73	1.38	<0.05	<0.02	<0.01	0.006	0.06	2.1	1.7	0.18	282	0.49	0.03	<0.05
459640		33.3	0.75	1.61	0.09	<0.02	<0.01	0.008	0.07	2.6	2.0	0.19	296	0.58	0.04	<0.05
459641		4330	3.17	1.80	0.07	<0.02	0.02	0.124	0.18	3.8	1.3	0.16	614	3.04	0.01	<0.05
459642		25.0	0.70	1.72	0.07	<0.02	0.01	0.019	0.06	2.7	2.2	0.23	338	0.55	0.04	<0.05
459643		20.8	0.75	1.53	0.08	<0.02	0.01	0.016	0.05	2.4	2.1	0.21	260	1.04	0.04	0.06
459644		17.4	0.60	1.28	0.07	<0.02	0.01	0.005	0.08	2.3	1.4	0.14	201	1.09	0.04	0.09
459645		179.5	0.83	1.40	0.05	<0.02	0.01	0.021	0.07	1.9	2.0	0.22	338	1.11	0.04	0.07
459646		44.4	1.04	2.09	0.06	<0.02	0.01	0.019	0.08	1.2	3.1	0.30	343	0.49	0.04	0.05
459647		39.9	0.80	2.01	0.07	<0.02	0.01	0.008	0.07	1.7	3.4	0.31	357	0.79	0.04	<0.05
459648		154.5	1.02	2.34	0.06	<0.02	0.01	0.020	0.07	1.7	4.4	0.40	458	0.72	0.04	<0.05
459649		157.0	2.43	1.95	0.07	<0.02	0.02	0.128	0.10	1.7	3.0	0.24	409	0.64	0.03	<0.05
459650		2590	4.56	5.16	0.09	0.03	0.06	0.143	0.31	4.8	20.5	0.58	761	227	0.05	0.26
462707		55.6	1.98	4.03	0.08	0.05	0.01	0.009	0.25	4.5	8.6	0.99	762	1.06	0.04	<0.05
462708		217	1.76	3.91	0.08	0.06	0.01	0.009	0.22	4.2	7.6	1.00	499	0.58	0.04	<0.05
462709		242	2.08	4.36	0.07	0.03	0.01	0.016	0.09	4.7	7.3	1.00	856	4.54	0.03	<0.05
462710		2730	4.07	9.60	0.21	0.43	0.03	0.200	1.16	32.7	40.4	1.20	374	95.9	0.16	0.94

Comments: ***Corrected copy with "TI" reported from ME-MS81***

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Page: 4 - C
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 14-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225580

Sample Description	Method Analyte Units LOR	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2	ME-MS41 Ti % 0.005
459635		1.3	170	0.3	2.4	<0.001	6.14	<0.05	0.2	1.0	0.4	3.2	<0.01	0.24	1.3	<0.005
459636		1.2	200	0.4	1.1	<0.001	0.18	0.05	0.4	0.2	<0.2	15.2	<0.01	0.01	0.8	<0.005
459637		1.3	190	0.5	0.9	<0.001	0.11	0.06	0.5	0.2	<0.2	19.3	<0.01	0.01	0.8	0.007
459638		1.2	200	0.5	0.9	<0.001	0.06	0.05	0.5	0.2	<0.2	20.6	<0.01	<0.01	0.7	0.010
459639		1.3	200	0.5	0.8	<0.001	0.16	0.06	0.6	<0.2	<0.2	20.0	<0.01	0.02	0.7	0.007
459640		1.5	210	0.8	1.0	<0.001	0.17	0.10	0.7	<0.2	<0.2	22.9	<0.01	0.02	0.8	0.008
459641		1.5	320	0.8	2.6	<0.001	2.93	0.06	0.7	0.5	0.5	19.8	<0.01	0.41	0.8	<0.005
459642		1.2	180	0.5	0.9	<0.001	0.05	0.08	0.9	<0.2	<0.2	30.1	<0.01	0.01	0.9	0.010
459643		1.4	170	0.4	0.7	<0.001	0.04	0.07	0.8	0.2	<0.2	19.9	<0.01	0.01	0.7	0.008
459644		1.1	170	0.6	1.0	<0.001	0.02	0.07	0.7	0.2	<0.2	21.9	<0.01	0.01	0.7	0.010
459645		1.6	210	0.4	0.9	<0.001	0.18	0.07	0.6	0.2	<0.2	20.3	<0.01	0.02	0.7	0.012
459646		1.9	280	0.5	1.1	<0.001	0.21	0.07	1.0	0.2	<0.2	31.0	<0.01	0.02	0.6	0.018
459647		1.4	270	0.5	1.0	<0.001	0.05	0.06	1.0	<0.2	<0.2	27.7	<0.01	<0.01	0.7	0.011
459648		1.6	270	0.5	1.0	<0.001	0.21	0.05	0.8	<0.2	<0.2	29.6	<0.01	0.04	0.7	<0.005
459649		2.0	330	0.7	1.5	<0.001	2.18	0.10	1.1	0.4	0.2	167.0	<0.01	0.12	0.9	<0.005
459650		21.4	740	78.0	15.6	0.245	2.22	1.55	2.7	4.6	0.6	58.4	<0.01	0.63	3.2	0.043
462707		5.0	530	0.9	7.3	<0.001	0.03	0.08	2.1	0.3	0.2	61.5	<0.01	0.01	1.1	0.028
462708		5.2	490	0.6	6.9	<0.001	0.04	0.10	1.8	0.2	0.2	54.0	<0.01	0.01	1.7	0.033
462709		5.0	430	0.7	1.8	0.001	0.06	0.08	1.8	0.4	0.2	56.9	<0.01	0.01	0.9	0.011
462710		43.0	1030	9.5	139.5	0.003	0.37	0.46	8.5	3.9	4.7	64.7	0.01	0.09	19.0	0.345

Comments: ***Corrected copy with "Ti" reported from ME-MS81***

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Page: 4 - D
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 Plus Appendix Pages
 Finalized Date: 14-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225580

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05
459635		<0.02	0.74	1	0.12	4.89	10	<0.5								
459636		<0.02	0.21	2	<0.05	3.68	35	<0.5								
459637		<0.02	0.30	3	<0.05	3.40	87	<0.5								
459638		<0.02	0.27	3	<0.05	3.01	39	<0.5								
459639		<0.02	0.27	3	<0.05	4.21	25	<0.5								
459640		<0.02	0.38	3	<0.05	4.87	26	<0.5								
459641		<0.02	1.60	2	0.06	5.57	77	<0.5	0.421							
459642		<0.02	0.25	3	<0.05	4.44	103	<0.5								
459643		<0.02	0.28	3	<0.05	4.21	158	<0.5								
459644		<0.02	0.58	3	<0.05	4.01	66	<0.5				863	21.6	50	0.25	1.61
459645		<0.02	0.19	2	<0.05	3.22	187	<0.5								
459646		<0.02	0.22	4	<0.05	4.45	161	<0.5								
459647		<0.02	0.20	4	<0.05	4.20	71	<0.5								
459648		<0.02	0.29	4	<0.05	4.25	78	<0.5								
459649		<0.02	0.75	3	<0.05	5.88	77	<0.5								
459650		0.27	0.79	32	1.74	5.18	452	0.9	0.247	0.028	0.264					
462707		0.04	0.63	22	<0.05	12.25	101	<0.5								
462708		0.04	0.35	21	<0.05	9.75	75	0.5								
462709		<0.02	0.30	17	<0.05	8.72	153	<0.5								
462710		0.69	4.85	110	1.79	18.95	79	10.7	0.258		0.241					

Comments: ***Corrected copy with "Ti" reported from ME-MS81***

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Page: 4 - E
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 14-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225580

Sample Description	Method Analyte Units LOR	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1
459635 459636 459637 459638 459639																
459640 459641 459642 459643 459644		1.09	0.45	17.2	1.63	1.8	0.36	9.6	0.22	2.3	10.2	2.63	10.9	2.01	<1	287
459645 459646 459647 459648 459649																
459650 462707 462708 462709 462710																

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Page: 4 - F
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 14-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225580

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Ta	Tb	Th	Tl	Tm	U	V	W	Y	Yb	Zr	SiO2	Al2O3	Fe2O3	CaO
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%
		0.1	0.01	0.05	0.5	0.01	0.05	5	1	0.5	0.03	2	0.01	0.01	0.01	0.01
459635 459636 459637 459638 459639																
459640 459641 459642 459643 459644		0.2	0.26	1.30	<0.5	0.18	1.01	26	<1	10.9	1.33	45	74.2	14.15	1.82	2.86
459645 459646 459647 459648 459649																
459650 462707 462708 462709 462710																

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Page: 4 - G
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 14-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225580[illegible]

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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 14-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225580

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
 ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.
 CRU - 31 CRU - QC LOG - 21d
 LOG - 23 PUL - 31 PUL - 31d
 SPL - 21 SPL - 21d WEI - 21

LOG - 22
 PUL - QC

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
 Au - AA23 Cu - OG46 ME - ICP06
 ME - MS81 ME - OG46 Mo - OG46
 TOT - ICP06

ME - MS41
 OA - GRA05



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Page: **1**
Total # Pages: **4 (A - D)**
Plus Appendix Pages
Finalized Date: **11 - JAN - 2017**
This copy reported on
16 - MAR - 2017
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CERTIFICATE KL16225585

Project: SGM2016-22

P.O. No.: SO218733

This report is for 100 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 22-DEC-2016.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Mo-OG46	Ore Grade Mo - Aqua Regia	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **GIBRALTAR MINES LTD.**
ATTN: ALS MINERALS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 11-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225585

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
462711		6.90	0.08	1.47	0.2	<0.2	<10	70	0.12	0.03	1.71	0.04	9.25	10.4	3	0.08
462712		7.87	2.62	1.28	1.3	<0.2	<10	70	0.13	0.28	1.55	0.82	14.45	13.2	3	0.19
462713		7.99	0.33	1.54	0.2	<0.2	<10	60	0.11	0.08	0.88	0.14	5.46	10.0	4	<0.05
462714		7.27	0.20	1.38	0.2	<0.2	<10	60	0.12	0.05	0.97	0.07	7.68	11.5	4	<0.05
462715		7.00	0.08	1.58	0.3	<0.2	<10	70	0.13	0.02	1.22	0.02	9.32	11.0	5	<0.05
462716		7.24	0.32	1.75	0.5	<0.2	<10	60	0.10	0.10	0.85	0.64	6.54	11.7	4	<0.05
462717		7.01	0.13	1.48	0.2	<0.2	<10	60	0.11	0.04	0.98	1.04	8.55	9.1	6	<0.05
462718		7.81	1.79	1.63	0.9	<0.2	<10	50	0.08	0.30	0.98	1.74	12.20	12.7	3	0.07
462719		7.62	0.23	1.35	0.5	<0.2	<10	50	0.10	0.03	1.13	0.54	10.40	10.2	4	<0.05
462720		<0.02	0.21	1.38	0.5	<0.2	<10	60	0.11	0.03	1.16	0.52	10.85	10.7	5	<0.05
462721		7.75	0.12	1.74	0.6	<0.2	<10	60	0.11	0.03	1.07	0.87	7.58	12.3	5	<0.05
462722		7.70	0.65	1.68	<0.1	<0.2	<10	70	0.09	0.05	1.18	0.47	6.94	10.3	4	0.06
462723		7.22	0.99	1.47	0.7	<0.2	<10	70	0.10	0.08	0.76	0.86	6.36	13.7	4	0.05
462724		4.43	0.50	1.47	0.6	<0.2	<10	70	0.11	0.13	0.58	0.30	6.08	10.5	4	0.05
462725		2.13	3.46	1.00	1.9	<0.2	<10	80	0.07	0.50	0.13	1.13	5.47	11.0	3	0.10
462726		6.72	0.12	1.44	0.5	<0.2	<10	80	0.11	0.06	0.93	0.52	7.55	10.4	3	0.05
462727		0.98	0.11	0.29	0.1	<0.2	<10	30	0.47	1.01	0.36	0.06	97.3	0.7	4	0.45
462728		5.88	0.34	1.50	0.4	<0.2	<10	70	0.11	0.11	0.68	0.82	9.09	10.3	4	0.07
462729		1.64	0.92	1.63	0.4	<0.2	<10	60	0.10	44.6	0.47	0.44	7.89	10.1	3	0.07
462730		0.04	0.65	1.64	5.8	0.3	10	100	0.23	0.12	0.81	0.15	8.88	10.3	31	0.46
462731		2.92	1.10	0.55	5.5	<0.2	<10	30	0.05	0.88	0.53	0.77	11.75	33.3	3	0.11
462732		1.82	0.96	1.34	3.3	<0.2	<10	40	0.12	4.72	0.51	2.79	13.00	8.9	3	0.24
462733		7.73	0.04	1.49	1.2	<0.2	<10	70	0.10	0.07	1.04	0.89	8.65	11.6	4	<0.05
462734		7.90	0.12	1.44	0.6	<0.2	<10	80	0.10	0.04	0.93	0.71	8.82	10.7	5	0.09
462735		7.31	0.08	1.38	0.9	<0.2	<10	70	0.11	0.04	0.70	0.83	8.72	10.3	7	0.14
462736		3.11	0.30	1.88	0.6	<0.2	<10	60	0.09	0.55	0.39	1.92	7.01	10.3	4	0.05
462737		6.34	2.52	1.60	1.0	<0.2	<10	70	0.21	4.24	2.87	2.41	18.90	10.8	3	0.49
462738		7.29	0.06	1.55	0.2	<0.2	<10	70	0.10	0.04	1.05	0.09	9.23	9.8	6	0.11
462739		5.58	0.81	1.18	1.1	<0.2	<10	110	0.12	0.15	0.94	13.95	7.77	9.5	7	0.73
462740		<0.02	0.72	1.19	2.0	<0.2	<10	110	0.12	0.14	0.93	13.15	7.84	9.5	8	0.73
462741		1.21	0.08	0.15	0.2	<0.2	<10	40	<0.05	0.02	0.37	0.06	5.84	0.7	4	0.05
462742		4.67	0.08	1.52	0.3	<0.2	<10	190	0.15	0.02	0.67	0.03	7.43	11.0	7	0.80
462743		8.13	0.03	1.34	0.3	<0.2	<10	170	0.14	0.01	0.57	0.01	5.73	9.5	6	0.40
462744		8.24	0.02	1.49	0.1	<0.2	<10	210	0.16	0.01	0.55	0.01	6.05	10.9	8	0.51
462745		8.11	0.06	1.51	0.6	<0.2	<10	130	0.12	0.06	0.80	1.27	8.43	12.3	7	0.34
462746		8.36	0.05	1.46	0.5	<0.2	<10	90	0.08	0.05	0.72	1.36	8.58	12.1	8	0.15
462747		8.53	0.14	1.61	0.4	<0.2	<10	60	0.09	0.13	1.22	3.29	8.69	10.4	5	0.07
462748		8.63	0.11	1.49	0.7	<0.2	<10	70	0.08	0.04	0.77	0.32	6.08	9.5	8	<0.05
462749		7.72	0.07	1.47	1.0	<0.2	<10	60	0.10	0.06	0.68	1.22	6.72	11.6	9	<0.05
462750		0.04	0.49	1.99	14.7	<0.2	10	100	0.32	0.48	1.13	0.19	9.62	49.0	251	1.27



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Page: 2 - B
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 11-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225585

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
462711		67.7	2.01	4.39	0.07	0.02	0.01	0.012	0.09	3.5	8.2	1.03	964	27.3	0.04
462712		3830	4.17	3.84	0.08	0.02	0.02	0.141	0.18	5.5	6.7	0.75	1660	13.40	0.03
462713		351	2.63	4.16	0.06	<0.02	0.01	0.020	0.13	2.2	7.9	1.00	1060	14.30	0.03
462714		284	2.25	3.89	0.06	0.02	<0.01	0.016	0.11	2.9	7.1	0.94	767	1.34	0.03
462715		76.1	2.04	4.52	0.07	0.03	0.01	0.007	0.10	3.4	7.8	1.10	645	0.46	0.04
462716		224	2.79	5.01	0.07	0.02	0.01	0.026	0.13	2.6	8.9	1.15	1000	0.65	0.03
462717		119.5	1.98	4.10	0.06	0.03	0.01	0.088	0.11	3.2	7.0	1.00	854	0.74	0.04
462718		1750	3.64	5.20	0.07	0.03	0.03	0.123	0.13	4.6	8.5	1.03	1290	2.43	0.02
462719		137.5	1.96	3.65	0.06	0.03	0.01	0.015	0.10	3.8	6.1	0.98	1110	0.79	0.03
462720		132.5	1.99	3.81	0.07	0.03	<0.01	0.015	0.11	3.8	6.3	0.99	1110	1.01	0.03
462721		91.5	2.46	4.44	0.06	0.03	0.01	0.014	0.12	2.8	7.8	1.29	1230	0.84	0.04
462722		722	2.78	4.92	0.06	0.02	0.01	0.027	0.17	2.7	7.0	1.14	1260	1.42	0.03
462723		1460	2.74	4.11	0.06	0.02	0.02	0.131	0.17	2.3	7.0	1.02	1000	1.34	0.03
462724		637	2.27	4.00	0.07	0.03	0.01	0.047	0.16	2.3	6.9	1.02	823	0.75	0.03
462725		3820	3.49	2.77	0.07	<0.02	0.02	0.521	0.24	2.1	3.9	0.56	528	1.55	0.01
462726		99.0	2.09	3.90	0.07	0.02	0.01	0.039	0.14	2.7	6.3	1.03	995	0.79	0.03
462727		6.5	0.87	2.49	0.11	0.24	<0.01	0.024	0.17	57.4	7.5	0.09	269	1.56	0.06
462728		518	2.55	4.62	0.07	0.03	0.01	0.084	0.15	3.3	6.3	1.04	881	0.42	0.03
462729		1530	2.83	5.12	0.07	0.02	0.01	0.062	0.14	3.0	7.2	1.17	764	0.23	0.02
462730		4580	3.46	5.76	0.10	0.24	0.04	0.053	0.14	4.2	11.6	0.75	433	195.0	0.09
462731		2060	11.10	1.92	0.08	<0.02	0.01	0.144	0.23	4.4	1.1	0.14	118	5.54	0.01
462732		555	5.89	4.07	0.07	0.03	0.04	0.255	0.10	4.7	5.1	0.89	1640	9.47	0.03
462733		23.0	2.11	4.24	0.06	0.05	0.01	0.014	0.09	2.9	6.3	1.22	1170	0.35	0.03
462734		90.7	2.01	3.97	0.06	0.05	0.02	0.018	0.12	3.0	6.3	1.08	837	0.53	0.04
462735		64.4	1.88	3.59	0.06	0.03	0.02	0.040	0.12	2.9	6.0	1.04	625	0.90	0.04
462736		344	3.69	5.85	0.05	0.02	0.02	0.220	0.12	2.5	8.5	1.26	993	0.83	0.03
462737		1075	3.82	5.09	0.08	<0.02	0.05	0.248	0.10	7.2	7.1	0.92	2590	2.65	0.04
462738		36.3	2.15	4.30	0.05	0.03	0.01	0.008	0.13	3.2	6.2	1.18	705	1.11	0.05
462739		574	1.92	2.97	0.05	0.02	0.10	0.448	0.54	2.9	5.3	0.78	682	5.43	0.04
462740		560	1.92	2.98	0.05	0.03	0.09	0.426	0.54	2.9	5.4	0.78	665	5.23	0.04
462741		42.0	0.21	0.58	<0.05	<0.02	0.01	<0.005	0.07	2.3	0.5	0.04	135	0.52	0.03
462742		38.4	1.96	3.58	0.06	0.03	0.01	0.006	0.67	2.6	7.4	1.11	446	0.72	0.04
462743		17.7	1.71	3.04	0.05	0.04	0.01	0.005	0.48	2.0	5.8	1.00	351	0.57	0.04
462744		8.6	1.89	3.49	0.06	0.05	0.01	0.006	0.52	2.1	6.5	1.19	447	0.67	0.04
462745		49.7	2.11	3.92	0.07	0.03	0.02	0.013	0.30	2.9	7.1	1.18	755	0.79	0.03
462746		59.2	2.13	3.67	0.05	0.03	0.02	0.008	0.18	2.9	5.0	1.11	801	0.90	0.04
462747		85.9	2.75	4.23	0.05	0.03	0.03	0.110	0.11	3.2	6.6	1.07	1240	0.47	0.03
462748		71.8	1.99	3.45	0.05	0.04	0.01	0.009	0.06	2.1	4.5	1.13	818	0.75	0.04
462749		69.7	2.14	3.36	0.05	0.05	0.01	0.014	0.09	2.3	4.2	1.14	789	2.16	0.04
462750		793	5.31	5.59	0.09	0.03	0.02	0.023	0.66	4.1	4.3	5.35	443	88.6	0.10



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Page: 2 - C
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 11-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225585

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
462711		4.6	500	1.1	1.6	0.003	0.14	0.06	1.8	0.2	0.2	63.8	<0.01	0.02	0.9
462712		4.7	480	1.0	3.0	0.002	2.68	0.07	1.9	0.8	0.3	54.7	<0.01	0.27	1.0
462713		4.5	470	0.7	2.1	0.002	0.67	0.05	1.2	<0.2	<0.2	34.2	<0.01	0.11	0.8
462714		4.9	470	0.7	1.7	<0.001	0.61	0.07	1.3	0.3	<0.2	39.3	<0.01	0.05	0.8
462715		5.2	540	0.6	1.8	<0.001	0.03	0.06	1.8	0.2	<0.2	57.5	<0.01	0.01	0.8
462716		5.3	500	0.6	2.1	<0.001	0.34	<0.05	1.5	<0.2	0.2	34.5	<0.01	0.11	0.9
462717		4.5	490	0.5	1.7	<0.001	0.10	0.06	1.4	0.2	0.2	43.2	<0.01	0.04	0.7
462718		4.8	470	1.0	2.2	<0.001	1.43	<0.05	2.0	0.3	0.2	29.9	<0.01	0.30	1.1
462719		4.5	420	0.5	1.9	<0.001	0.17	0.05	1.8	0.3	0.2	42.3	<0.01	0.03	1.2
462720		4.7	430	0.6	2.1	<0.001	0.18	0.05	1.8	0.2	0.2	44.3	<0.01	0.03	1.2
462721		6.4	490	0.5	2.0	<0.001	0.28	0.05	1.4	0.2	0.2	46.6	<0.01	0.07	0.7
462722		4.9	450	0.6	2.8	<0.001	0.51	<0.05	1.7	<0.2	0.2	40.2	<0.01	0.06	0.7
462723		4.8	540	0.6	2.9	<0.001	1.06	0.05	1.3	0.3	0.2	28.4	<0.01	0.11	0.6
462724		4.8	450	0.6	2.6	<0.001	0.50	0.06	1.3	<0.2	0.2	28.5	<0.01	0.09	0.6
462725		3.9	410	0.4	3.9	0.001	2.65	<0.05	0.9	0.2	0.3	6.1	<0.01	1.15	0.6
462726		4.1	410	0.5	2.3	<0.001	0.30	<0.05	1.5	<0.2	<0.2	27.7	<0.01	0.06	0.7
462727		0.6	120	6.3	10.3	<0.001	0.02	<0.05	0.9	0.4	0.6	14.3	<0.01	0.02	27.9
462728		4.3	430	1.0	2.4	<0.001	0.65	0.06	1.8	0.3	0.2	31.3	<0.01	0.10	1.1
462729		4.1	430	1.3	2.2	<0.001	0.77	0.05	1.4	<0.2	0.2	24.2	<0.01	40.4	1.0
462730		30.5	560	3.9	5.4	0.105	0.62	0.79	5.5	1.1	1.5	42.3	<0.01	0.06	0.9
462731		6.0	2390	2.5	3.2	0.001	>10.0	0.23	0.6	2.8	0.3	9.8	<0.01	1.28	0.7
462732		4.8	400	1.9	1.8	0.003	4.19	0.18	2.5	0.8	0.3	39.9	<0.01	4.33	1.2
462733		5.1	390	0.7	1.5	<0.001	0.19	0.14	1.7	0.5	0.3	35.1	<0.01	0.05	0.8
462734		4.6	420	0.7	2.2	<0.001	0.15	0.10	1.6	0.4	0.2	43.5	<0.01	0.03	0.7
462735		4.9	420	0.6	2.6	<0.001	0.17	0.06	1.4	0.4	0.2	45.5	<0.01	0.04	0.6
462736		5.2	450	0.8	1.7	<0.001	1.05	<0.05	2.0	0.3	0.3	21.2	<0.01	0.41	0.7
462737		4.7	410	2.5	1.9	0.001	0.73	<0.05	3.5	0.9	0.3	91.5	<0.01	3.76	0.7
462738		4.8	410	0.6	2.9	0.001	0.05	<0.05	1.6	0.3	0.2	44.9	<0.01	0.01	0.7
462739		4.1	360	0.5	14.1	0.001	0.67	0.11	1.1	0.3	0.2	33.1	<0.01	0.33	0.9
462740		4.8	360	0.5	13.7	0.001	0.66	0.10	1.1	0.5	0.3	32.7	<0.01	0.26	0.9
462741		0.5	50	0.3	1.1	<0.001	0.02	<0.05	0.2	<0.2	<0.2	9.8	<0.01	0.01	2.0
462742		5.5	480	0.4	17.2	<0.001	0.01	<0.05	1.4	0.3	0.2	40.4	<0.01	0.01	0.5
462743		5.1	420	0.3	12.4	<0.001	0.03	<0.05	1.4	0.3	0.2	33.6	<0.01	<0.01	0.5
462744		7.0	410	0.3	14.4	<0.001	0.01	<0.05	1.6	0.2	0.2	31.4	<0.01	0.01	0.5
462745		6.7	400	0.5	8.6	<0.001	0.16	<0.05	1.6	0.4	0.2	40.4	<0.01	0.06	0.7
462746		5.5	430	0.4	4.7	<0.001	0.29	0.05	1.5	0.2	0.2	37.5	<0.01	0.11	0.7
462747		5.9	420	0.8	1.8	<0.001	0.62	<0.05	2.2	0.3	0.2	43.0	<0.01	0.15	0.9
462748		5.6	430	0.5	1.0	<0.001	0.19	<0.05	1.4	<0.2	0.2	39.0	<0.01	0.08	0.5
462749		5.7	450	0.5	1.3	<0.001	0.39	0.06	1.3	0.3	0.2	35.6	<0.01	0.16	0.5
462750		594	660	4.5	27.3	0.097	3.73	0.69	7.8	3.5	0.4	48.9	<0.01	0.22	0.9



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Page: 2 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 11-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225585

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
462711		<0.02	0.23	19	<0.05	5.71	106	<0.5			
462712		0.02	0.79	14	0.08	13.05	403	<0.5	0.385		
462713		<0.02	0.26	16	0.13	3.97	211	<0.5			
462714		<0.02	0.23	18	<0.05	4.48	145	<0.5			
462715		<0.02	0.19	21	<0.05	5.99	96	<0.5			
462716		<0.02	0.23	20	<0.05	5.03	423	<0.5			
462717		<0.02	0.31	18	<0.05	5.83	562	<0.5			
462718		<0.02	0.76	16	<0.05	10.45	870	<0.5	0.177		
462719		<0.02	0.40	15	<0.05	8.34	354	<0.5			
462720		<0.02	0.38	15	<0.05	8.50	354	<0.5			
462721		<0.02	0.32	18	<0.05	5.46	655	<0.5			
462722		<0.02	0.34	18	<0.05	5.14	305	<0.5			
462723		<0.02	0.39	15	<0.05	5.18	539	<0.5			
462724		<0.02	0.46	16	<0.05	5.21	460	<0.5			
462725		0.02	0.54	8	0.15	2.85	437	<0.5	0.389		
462726		<0.02	0.26	16	<0.05	7.92	438	<0.5			
462727		0.05	3.54	8	0.30	14.55	24	5.6			
462728		<0.02	0.56	18	<0.05	7.61	481	<0.5			
462729		<0.02	0.49	17	<0.05	6.07	319	<0.5	0.160		
462730		0.06	0.27	60	0.34	7.82	45	6.4	0.468	0.023	0.568
462731		0.02	2.81	6	0.31	7.03	713	<0.5	0.214		
462732		<0.02	0.52	17	<0.05	16.80	1130	<0.5			
462733		<0.02	0.66	20	<0.05	8.95	371	0.5			
462734		<0.02	0.29	19	<0.05	7.74	332	<0.5			
462735		<0.02	0.22	17	<0.05	6.91	447	<0.5			
462736		<0.02	0.25	22	0.07	4.30	1020	<0.5			
462737		<0.02	1.52	23	0.07	22.1	988	<0.5			
462738		0.02	0.20	22	<0.05	6.44	174	<0.5			
462739		0.09	0.34	20	<0.05	5.06	6910	<0.5			
462740		0.09	0.49	20	0.48	5.02	6520	<0.5			
462741		<0.02	0.64	1	<0.05	2.69	30	<0.5			
462742		0.08	0.32	28	<0.05	5.65	70	<0.5			
462743		0.05	0.38	24	<0.05	4.75	45	<0.5			
462744		0.07	0.33	28	<0.05	4.51	59	0.5			
462745		0.05	0.52	24	<0.05	6.46	647	<0.5			
462746		0.02	0.36	20	<0.05	7.07	770	<0.5			
462747		<0.02	0.31	19	<0.05	7.38	1670	<0.5			
462748		<0.02	0.27	20	<0.05	4.82	331	0.8			
462749		<0.02	0.30	19	<0.05	4.81	775	0.5			
462750		0.60	0.28	69	10.80	4.51	58	1.1			



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Page: 3 - A
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 11-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225585

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
462751		8.34	0.11	1.43	0.9	<0.2	<10	100	0.08	0.05	0.63	0.93	7.14	10.7	8	0.24
462752		8.19	0.08	1.49	0.6	<0.2	<10	120	0.11	0.02	0.65	0.20	6.44	11.4	8	0.39
462753		8.26	0.14	1.42	0.7	<0.2	<10	90	0.10	0.06	0.66	1.27	6.10	11.1	6	0.16
462754		8.66	0.27	1.43	0.4	<0.2	<10	70	0.09	0.03	0.90	0.12	6.82	10.3	6	0.06
462755		8.26	0.09	1.59	0.4	<0.2	<10	80	0.11	0.03	0.79	0.07	9.98	11.5	6	0.10
462756		8.13	0.05	1.76	0.6	<0.2	<10	50	0.08	0.07	1.34	0.35	4.91	11.9	5	0.05
462757		2.64	0.09	1.48	0.3	<0.2	<10	60	0.10	0.02	0.91	0.02	5.97	11.0	7	<0.05
462758		5.29	0.05	1.44	0.4	<0.2	<10	50	0.08	0.03	1.78	0.12	5.35	9.9	6	<0.05
462759		6.28	0.05	1.47	0.1	<0.2	<10	50	0.09	0.02	1.06	0.07	5.01	9.3	6	<0.05
462760		<0.02	0.07	1.70	0.1	<0.2	<10	80	0.11	0.02	1.19	0.09	6.26	9.6	8	<0.05
462761		1.73	0.07	1.53	0.2	<0.2	<10	60	0.09	0.02	1.05	0.03	5.92	10.5	6	<0.05
462762		2.67	0.12	1.62	0.2	<0.2	<10	40	0.08	0.03	1.36	0.13	5.34	10.8	4	<0.05
462763		4.73	0.29	1.83	0.8	<0.2	<10	50	0.09	0.09	1.63	2.34	5.49	12.9	4	0.07
462764		7.59	1.15	1.77	0.3	<0.2	<10	60	0.11	0.12	1.12	2.30	6.78	8.7	4	0.07
462765		7.56	0.65	1.74	0.2	<0.2	<10	40	0.07	0.05	1.33	0.41	6.44	11.8	5	<0.05
462766		7.11	0.05	1.65	0.2	<0.2	<10	60	0.11	0.02	1.37	0.03	7.49	11.5	5	<0.05
462767		7.13	0.05	1.85	0.3	<0.2	<10	60	0.11	0.04	3.31	0.20	11.80	11.0	3	0.09
462768		7.30	0.25	1.71	0.2	<0.2	<10	100	0.11	0.13	2.27	0.26	6.99	10.4	3	0.09
462769		7.26	1.79	1.94	0.4	<0.2	<10	60	0.09	0.13	1.16	0.36	4.81	11.7	5	0.07
462770		0.04	2.67	1.75	28.9	0.3	10	60	0.38	0.91	0.87	2.26	10.65	11.3	30	3.90
462771		6.98	4.10	0.74	0.4	<0.2	<10	50	0.06	1.39	1.36	0.54	7.12	8.1	4	0.07
462772		2.90	0.12	0.39	0.1	<0.2	<10	40	0.10	0.07	2.43	1.42	11.65	8.1	4	0.07
462773		6.84	1.15	0.44	0.1	<0.2	<10	50	0.07	0.13	2.45	1.14	5.72	8.7	4	0.08
462774		4.09	0.05	1.48	0.2	<0.2	<10	60	0.10	0.05	2.27	0.23	4.10	10.1	4	<0.05
462775		6.28	0.04	1.20	0.1	<0.2	<10	50	0.10	0.03	1.13	0.04	5.36	8.4	6	0.05
462776		6.33	0.03	1.23	0.1	<0.2	<10	40	0.08	0.06	2.10	0.13	5.45	6.7	5	0.05
462777		3.25	5.57	1.53	0.3	<0.2	<10	50	0.08	0.57	0.67	1.05	5.94	14.2	5	0.05
462778		7.26	1.87	1.47	0.1	<0.2	<10	60	0.09	0.22	0.69	0.34	3.39	10.0	5	0.05
462779		6.80	1.04	1.20	0.4	<0.2	<10	50	0.11	0.47	1.14	1.53	8.68	9.5	6	0.08
462780		<0.02	0.85	1.26	0.5	<0.2	<10	50	0.10	0.52	1.17	1.41	8.63	9.8	6	0.08
462781		7.32	4.44	0.95	0.4	<0.2	<10	30	0.06	1.00	1.15	1.86	7.80	10.1	4	0.06
462782		0.99	0.06	0.27	0.2	<0.2	<10	30	0.40	0.24	0.35	0.11	105.0	0.7	6	0.48
462783		7.69	0.42	1.54	0.3	<0.2	<10	30	0.08	0.75	1.22	2.82	7.53	8.6	5	0.07
462784		7.11	0.18	1.41	0.3	<0.2	<10	60	0.09	0.08	1.23	0.94	10.45	9.0	4	0.06
462785		7.73	0.02	1.13	0.4	<0.2	<10	60	0.08	0.02	1.01	0.48	6.42	7.3	6	<0.05
462786		7.57	1.62	1.48	0.4	<0.2	<10	40	0.08	0.08	1.29	1.18	5.59	7.6	4	0.06
462787		6.88	0.32	1.58	0.7	<0.2	<10	40	0.09	0.30	0.42	2.48	5.00	6.3	5	0.06
462788		6.82	0.05	1.10	0.3	<0.2	<10	60	0.08	0.04	1.12	0.04	6.73	8.2	6	<0.05
462789		7.80	0.42	1.28	0.2	<0.2	<10	50	0.07	0.14	0.77	0.84	8.87	7.0	5	<0.05
462790		0.04	0.10	1.50	4.5	<0.2	10	110	0.21	0.06	1.16	0.15	11.00	8.9	36	0.38



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Page: 3 - B
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 11-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225585

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
462751		67.3	1.99	3.30	0.05	0.04	0.01	0.012	0.22	2.6	4.6	1.10	715	0.91	0.04
462752		73.6	1.95	3.43	0.05	0.04	<0.01	<0.005	0.29	2.3	5.3	1.13	616	0.72	0.05
462753		92.1	1.95	3.29	<0.05	0.04	<0.01	0.008	0.16	2.2	5.0	1.09	661	0.61	0.04
462754		206	1.85	3.36	<0.05	0.03	0.01	0.006	0.09	2.4	5.4	1.11	640	0.60	0.04
462755		40.5	2.02	3.81	0.05	0.03	<0.01	0.007	0.10	3.4	5.6	1.21	622	18.65	0.05
462756		22.6	2.95	5.14	0.05	0.02	0.01	0.066	0.10	1.8	7.5	1.26	1340	1.42	0.03
462757		47.3	1.85	3.85	<0.05	0.05	<0.01	0.006	0.08	2.2	5.3	1.15	624	1.44	0.04
462758		21.1	1.97	3.80	<0.05	0.03	<0.01	0.022	0.07	2.0	5.2	1.10	1210	0.97	0.04
462759		27.3	1.86	3.76	<0.05	0.04	<0.01	0.011	0.07	1.9	5.6	1.14	678	0.78	0.04
462760		28.3	2.05	4.33	0.05	0.05	<0.01	0.016	0.11	2.3	5.5	1.18	706	0.91	0.06
462761		29.4	1.83	3.91	0.05	0.06	<0.01	0.006	0.08	2.2	5.9	1.20	530	0.14	0.04
462762		67.9	2.10	4.66	0.05	0.02	<0.01	0.028	0.07	1.9	6.8	1.19	884	0.30	0.04
462763		178.5	3.57	5.73	0.05	<0.02	0.02	0.146	0.14	2.1	7.2	1.21	1730	0.32	0.03
462764		865	3.38	5.40	0.05	<0.02	0.02	0.167	0.12	2.7	6.7	1.19	1500	0.33	0.03
462765		340	2.29	4.80	<0.05	0.02	<0.01	0.029	0.08	2.5	6.3	1.31	978	1.22	0.04
462766		21.4	2.03	4.23	<0.05	0.04	<0.01	0.007	0.07	2.8	5.6	1.35	799	0.38	0.04
462767		34.4	2.83	5.51	0.07	<0.02	<0.01	0.027	0.07	4.5	11.8	1.30	1540	0.32	0.06
462768		148.5	2.63	5.47	0.05	<0.02	<0.01	0.053	0.08	2.6	10.4	1.16	1750	0.29	0.07
462769		1515	3.45	6.21	0.05	<0.02	0.02	0.144	0.10	1.8	11.5	1.24	1460	0.37	0.05
462770		2500	4.60	4.83	0.06	0.03	0.04	0.146	0.30	5.2	19.7	0.59	757	226	0.06
462771		3960	4.57	2.33	0.05	<0.02	0.05	0.208	0.14	2.9	3.9	0.53	1080	3.08	0.04
462772		108.5	2.48	1.28	0.05	<0.02	0.01	0.093	0.07	5.1	2.0	0.70	1370	1.91	0.06
462773		849	2.83	1.44	<0.05	<0.02	0.02	0.117	0.09	2.4	2.0	0.80	1230	8.34	0.06
462774		37.6	2.44	4.76	<0.05	<0.02	<0.01	0.022	0.08	1.8	9.1	1.04	1380	0.44	0.04
462775		22.4	1.74	3.75	<0.05	<0.02	<0.01	0.010	0.07	2.4	6.5	0.80	613	0.39	0.04
462776		21.9	2.06	4.00	0.05	<0.02	<0.01	0.025	0.08	2.4	6.5	0.79	1040	0.33	0.04
462777		7370	3.81	5.24	0.05	<0.02	0.02	0.572	0.15	2.5	7.3	0.99	1080	0.83	0.02
462778		2050	2.68	4.29	<0.05	<0.02	0.01	0.113	0.12	1.4	6.4	1.03	773	0.34	0.03
462779		2070	3.30	3.65	0.05	<0.02	0.01	0.209	0.10	3.6	5.9	0.77	960	0.84	0.03
462780		1790	3.32	3.67	0.05	<0.02	0.01	0.185	0.11	3.5	5.9	0.81	997	0.80	0.04
462781		7310	4.07	2.94	<0.05	<0.02	0.02	0.408	0.12	3.0	4.0	0.59	1020	2.23	0.03
462782		11.2	1.11	2.35	0.10	0.21	<0.01	0.045	0.15	60.0	6.8	0.10	262	1.30	0.05
462783		506	3.18	5.46	0.05	<0.02	0.03	0.259	0.10	3.0	6.5	0.93	1360	1.54	0.03
462784		154.5	2.69	4.22	0.05	0.02	0.01	0.132	0.10	4.1	5.4	0.84	1130	0.36	0.04
462785		2.7	1.68	3.12	<0.05	0.03	<0.01	0.012	0.06	2.4	4.1	0.82	713	0.45	0.04
462786		1120	2.73	4.44	0.05	<0.02	0.01	0.412	0.08	2.2	5.2	0.91	1110	0.84	0.04
462787		211	3.76	4.90	<0.05	<0.02	0.01	0.252	0.10	2.0	5.3	0.80	1040	1.19	0.03
462788		21.6	1.72	3.42	<0.05	0.03	<0.01	0.010	0.07	2.5	3.8	0.72	727	0.84	0.04
462789		263	2.14	3.83	0.05	0.03	0.01	0.128	0.08	3.2	5.0	0.84	828	0.34	0.04
462790		49.4	2.97	4.92	0.09	0.28	0.02	0.022	0.10	5.1	8.9	0.75	480	5.45	0.09



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Page: 3 - C
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 11-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225585

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
462751		5.7	430	0.4	5.8	<0.001	0.29	<0.05	1.2	0.2	0.2	32.6	<0.01	0.13	0.5
462752		5.7	440	0.3	8.8	<0.001	0.12	<0.05	1.3	0.3	0.2	36.2	<0.01	0.03	0.5
462753		5.1	440	0.4	4.0	<0.001	0.27	<0.05	1.3	0.2	0.2	37.6	<0.01	0.09	0.5
462754		5.3	440	0.4	1.8	<0.001	0.11	<0.05	1.3	0.2	0.2	39.4	<0.01	0.08	0.4
462755		5.6	500	0.5	2.2	0.003	0.08	<0.05	1.6	0.2	0.2	49.9	<0.01	0.03	0.8
462756		5.8	420	0.6	1.8	<0.001	0.43	<0.05	1.7	<0.2	0.2	48.0	<0.01	0.06	0.4
462757		5.8	460	0.4	1.3	<0.001	0.06	<0.05	1.6	0.2	0.2	48.0	<0.01	0.01	0.5
462758		5.2	440	0.4	1.2	<0.001	0.10	<0.05	1.6	0.3	0.2	50.5	<0.01	0.04	0.5
462759		5.6	440	0.4	1.3	<0.001	0.02	<0.05	1.5	0.2	0.2	48.7	<0.01	0.01	0.4
462760		5.8	440	0.5	1.9	<0.001	0.02	<0.05	1.9	0.2	0.2	64.8	<0.01	0.02	0.5
462761		5.8	450	0.4	1.5	<0.001	0.01	<0.05	1.7	0.2	0.2	54.1	<0.01	0.02	0.5
462762		6.1	450	0.5	1.3	<0.001	0.07	<0.05	2.1	<0.2	0.2	49.4	<0.01	0.05	0.5
462763		5.9	450	0.6	2.2	<0.001	0.86	<0.05	2.0	0.3	0.2	42.5	<0.01	0.09	0.5
462764		5.5	450	0.5	2.0	<0.001	0.55	<0.05	2.0	0.2	0.2	38.6	<0.01	0.19	0.5
462765		6.1	460	0.7	1.3	0.001	0.12	<0.05	2.1	0.2	0.2	55.8	<0.01	0.12	0.8
462766		5.9	440	0.6	1.2	<0.001	0.04	<0.05	1.9	0.2	0.2	57.9	<0.01	0.02	0.6
462767		5.8	470	1.3	1.2	<0.001	0.08	0.05	3.8	0.3	<0.2	121.5	<0.01	0.03	0.5
462768		5.0	470	1.0	1.4	<0.001	0.26	0.08	2.5	0.3	0.2	79.5	<0.01	0.14	<0.2
462769		5.0	560	0.6	1.5	<0.001	0.67	0.05	2.1	0.2	0.2	38.0	<0.01	0.12	0.3
462770		21.1	730	79.0	15.4	0.235	2.26	1.72	2.7	4.3	0.7	58.3	<0.01	0.62	3.5
462771		3.8	380	0.5	2.2	0.001	3.71	<0.05	1.0	0.5	0.6	26.7	<0.01	1.16	1.0
462772		3.0	370	0.5	1.1	<0.001	0.32	<0.05	1.3	0.4	<0.2	56.7	<0.01	0.04	1.0
462773		4.1	350	0.5	1.5	0.001	0.79	<0.05	1.3	0.2	<0.2	67.2	<0.01	0.11	0.8
462774		4.7	400	0.7	1.4	<0.001	0.19	<0.05	1.8	0.2	<0.2	56.0	<0.01	0.04	0.5
462775		3.9	400	0.9	1.3	<0.001	0.10	0.07	1.6	0.2	<0.2	51.8	<0.01	0.03	0.7
462776		3.4	370	0.8	1.4	<0.001	0.11	<0.05	1.6	0.2	<0.2	65.5	<0.01	0.02	0.5
462777		3.9	420	0.5	2.4	<0.001	1.69	<0.05	1.3	0.4	0.4	23.4	<0.01	1.19	0.6
462778		4.3	380	0.5	1.9	0.001	0.73	<0.05	1.1	<0.2	0.2	27.2	<0.01	0.39	0.4
462779		3.8	400	1.0	1.6	0.001	1.76	0.07	1.6	0.4	0.2	40.7	<0.01	0.47	0.9
462780		3.8	400	1.1	1.7	0.001	1.68	0.05	1.6	0.3	0.2	42.2	<0.01	0.40	0.9
462781		3.8	500	0.8	1.8	0.001	3.02	<0.05	1.3	0.4	0.7	33.8	<0.01	1.12	0.6
462782		0.8	130	5.6	9.4	<0.001	0.02	<0.05	0.8	0.5	0.6	13.1	<0.01	0.01	29.3
462783		4.3	380	0.9	1.5	0.001	0.79	<0.05	1.9	0.2	0.2	39.0	<0.01	0.58	0.7
462784		3.9	410	0.8	1.6	0.001	0.52	<0.05	1.5	0.3	0.2	42.4	<0.01	0.07	0.7
462785		3.8	420	0.4	1.0	<0.001	0.12	<0.05	1.1	0.2	<0.2	48.4	<0.01	0.02	0.4
462786		4.0	440	0.6	1.4	<0.001	0.46	0.05	1.5	0.3	0.2	39.3	<0.01	0.22	0.4
462787		3.2	420	0.4	1.5	<0.001	1.05	<0.05	1.2	0.2	0.2	23.6	<0.01	0.31	0.3
462788		3.5	390	0.6	1.1	<0.001	0.18	0.05	1.2	0.4	0.2	45.3	<0.01	0.04	0.6
462789		3.7	400	0.5	1.3	<0.001	0.38	0.05	1.1	0.2	0.2	35.0	<0.01	0.24	0.5
462790		31.5	580	3.8	4.0	0.002	0.07	0.53	4.8	0.5	1.0	48.4	<0.01	0.04	1.2



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Page: 3 - D
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 Plus Appendix Pages
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 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225585

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
462751		0.03	0.35	20	<0.05	4.34	542	<0.5			
462752		0.06	0.29	24	<0.05	3.98	208	0.5			
462753		0.02	0.22	19	<0.05	4.16	667	<0.5			
462754		<0.02	0.19	19	<0.05	5.06	140	<0.5			
462755		<0.02	0.25	22	<0.05	6.56	151	<0.5			
462756		<0.02	0.16	22	<0.05	3.76	455	<0.5			
462757		<0.02	0.29	21	<0.05	4.03	83	0.5			
462758		<0.02	0.25	20	<0.05	3.87	293	<0.5			
462759		<0.02	0.28	20	<0.05	3.67	246	<0.5			
462760		<0.02	0.29	25	<0.05	4.26	255	0.6			
462761		<0.02	0.26	22	<0.05	4.30	90	0.5			
462762		<0.02	0.20	26	<0.05	3.74	264	<0.5			
462763		<0.02	0.26	23	0.06	3.77	1150	<0.5			
462764		<0.02	0.31	24	0.07	4.48	1100	<0.5			
462765		<0.02	0.20	28	<0.05	3.83	339	<0.5			
462766		<0.02	0.23	25	<0.05	6.48	68	<0.5			
462767		<0.02	0.20	36	<0.05	7.71	164	<0.5			
462768		<0.02	0.09	26	<0.05	5.41	235	<0.5			
462769		<0.02	0.17	30	<0.05	3.63	438	<0.5	0.155		
462770		0.29	0.70	33	1.73	5.06	434	0.9	0.247	0.028	0.329
462771		<0.02	1.18	11	0.09	4.32	217	<0.5	0.384		
462772		<0.02	0.62	11	<0.05	10.60	228	<0.5			
462773		<0.02	0.28	13	<0.05	4.86	200	<0.5			
462774		<0.02	0.09	17	<0.05	3.25	307	<0.5			
462775		<0.02	0.14	16	<0.05	3.60	86	<0.5			
462776		<0.02	0.15	15	<0.05	4.00	210	<0.5			
462777		<0.02	0.97	13	0.10	3.51	332	<0.5	0.740		
462778		<0.02	0.12	13	0.06	2.14	262	<0.5	0.208		
462779		<0.02	0.79	13	0.07	5.46	551	<0.5	0.211		
462780		<0.02	0.82	14	0.06	5.65	549	<0.5	0.181		
462781		<0.02	1.63	10	0.16	3.72	414	<0.5	0.732		
462782		0.04	3.33	9	0.24	14.85	31	4.8			
462783		<0.02	0.25	17	0.12	4.36	1340	<0.5			
462784		<0.02	0.24	13	0.05	6.79	570	<0.5			
462785		<0.02	0.22	14	<0.05	5.63	255	<0.5			
462786		<0.02	0.21	16	0.05	4.08	592	<0.5			
462787		<0.02	0.16	13	0.06	3.41	1280	<0.5			
462788		<0.02	0.57	13	<0.05	5.94	149	<0.5			
462789		<0.02	0.13	14	<0.05	5.95	452	<0.5			
462790		0.05	0.33	63	0.68	7.83	43	8.1			



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Page: 4 - A
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 11-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225585

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
462791		7.54	0.19	1.34	0.2	<0.2	<10	50	0.11	0.09	1.01	0.93	9.74	7.0	5	0.05
462792		7.55	0.25	1.26	0.3	<0.2	<10	40	0.11	0.20	2.19	0.81	20.2	7.4	4	0.14
462793		7.42	0.26	1.10	0.3	<0.2	<10	70	0.09	0.09	1.35	1.37	8.93	7.1	4	0.11
462794		4.60	0.02	0.96	0.4	<0.2	<10	60	0.10	0.07	2.45	1.62	12.30	6.4	3	0.09
462795		5.97	0.44	0.81	0.5	<0.2	<10	40	0.16	0.29	2.10	2.15	19.80	4.5	3	0.40
462796		3.48	2.16	1.21	0.5	<0.2	<10	60	0.09	0.63	1.55	2.93	13.35	5.8	4	0.05
462797		7.75	0.28	1.14	0.6	<0.2	<10	60	0.08	0.43	0.41	2.82	10.00	4.0	4	0.05
462798		7.98	0.57	1.25	0.8	<0.2	<10	60	0.09	1.67	0.54	2.19	8.08	5.2	4	0.05
462799		7.57	0.42	1.28	0.6	<0.2	<10	60	0.09	0.15	0.50	1.14	6.49	6.5	4	0.05
462800		<0.02	0.35	1.27	0.6	<0.2	<10	60	0.08	0.23	0.48	1.22	6.27	6.5	4	0.05
462801		7.55	0.22	0.88	0.5	<0.2	<10	50	0.07	0.17	0.50	1.40	6.73	4.4	5	<0.05
462802		7.33	1.81	1.08	3.0	<0.2	<10	60	0.14	2.28	1.15	1.86	14.10	6.0	24	0.08
462803		6.97	0.03	0.59	0.8	<0.2	<10	60	0.09	0.04	0.41	0.48	8.02	3.1	4	<0.05
462804		2.69	0.03	0.56	1.4	<0.2	<10	60	0.08	0.02	0.46	0.05	6.86	3.1	4	<0.05
462805		4.51	0.04	0.55	1.9	<0.2	<10	70	0.12	0.04	0.62	0.62	11.40	3.3	4	0.06
462806		7.07	0.06	0.67	0.6	<0.2	<10	50	0.11	0.15	0.84	0.97	7.83	4.1	4	0.15
462807		7.76	0.27	0.36	2.9	<0.2	<10	70	0.10	0.37	0.57	5.88	16.05	2.8	4	0.14
462808		7.52	0.27	0.26	0.4	<0.2	<10	60	0.07	0.30	0.74	1.47	14.65	1.7	5	0.09
462809		6.77	0.32	0.29	0.3	<0.2	<10	80	0.09	0.12	0.65	0.39	13.40	1.7	4	0.11
462810		0.03	0.49	2.11	15.2	<0.2	10	70	0.28	0.45	1.16	0.20	9.40	49.9	262	1.23



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Page: 4 - B
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 11-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225585

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
462791		147.5	2.38	5.07	0.05	0.03	<0.01	0.088	0.07	3.5	5.6	0.84	1040	0.85	0.04
462792		236	2.85	4.25	0.05	0.02	<0.01	0.139	0.08	9.1	5.5	0.72	1520	1.16	0.04
462793		336	2.42	3.33	<0.05	0.02	0.01	0.136	0.07	3.2	4.2	0.73	1200	0.40	0.04
462794		8.3	2.33	3.44	<0.05	<0.02	<0.01	0.075	0.04	5.0	4.2	0.61	1990	1.58	0.06
462795		203	2.71	2.67	0.06	<0.02	0.06	0.226	0.11	8.9	3.0	0.34	1800	0.54	0.04
462796		1350	3.47	4.02	0.05	<0.02	0.03	0.621	0.12	5.5	3.6	0.51	1430	46.0	0.02
462797		252	3.08	4.07	<0.05	<0.02	0.02	0.381	0.14	4.0	3.0	0.46	860	3.59	0.02
462798		406	3.01	4.10	0.05	<0.02	0.02	0.309	0.14	3.3	3.5	0.61	924	10.70	0.03
462799		235	2.76	4.05	<0.05	<0.02	<0.01	0.136	0.12	2.5	3.6	0.68	750	0.51	0.03
462800		202	2.76	3.96	<0.05	<0.02	0.01	0.134	0.12	2.4	3.4	0.67	733	0.52	0.03
462801		92.1	2.04	2.81	<0.05	<0.02	<0.01	0.172	0.11	2.5	2.4	0.44	552	0.76	0.04
462802		1145	3.88	3.73	0.05	<0.02	0.01	0.389	0.17	5.7	2.3	0.49	1240	8.45	0.03
462803		11.6	1.21	2.01	0.05	0.02	<0.01	0.040	0.10	3.0	1.5	0.26	471	2.55	0.04
462804		1.9	1.01	2.04	<0.05	0.02	<0.01	0.008	0.09	2.5	1.4	0.29	391	0.51	0.04
462805		14.9	1.60	1.96	0.05	0.02	<0.01	0.024	0.11	4.2	1.3	0.26	858	0.45	0.03
462806		28.1	1.51	2.36	<0.05	<0.02	0.01	0.071	0.09	3.1	1.9	0.34	780	0.28	0.04
462807		217	2.12	1.09	0.05	<0.02	0.04	0.660	0.15	6.7	0.6	0.11	710	0.91	0.03
462808		401	1.00	0.90	<0.05	<0.02	0.02	0.186	0.16	6.2	0.3	0.05	624	0.49	0.03
462809		738	0.94	0.96	0.05	<0.02	<0.01	0.070	0.14	5.6	0.4	0.06	472	0.30	0.04
462810		817	5.47	5.78	0.09	0.04	0.01	0.025	0.69	3.9	3.5	5.49	453	87.8	0.10



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Page: 4 - C
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 11-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225585

Sample Description	Method Analyte Units LOR	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2	ME-MS41 Ti % 0.005
462791		3.5	410	0.5	1.2	0.001	0.35	0.05	1.6	0.2	0.2	40.5	<0.01	0.07	0.5	0.006
462792		3.5	390	1.3	1.4	<0.001	0.66	0.05	2.5	0.5	0.2	71.5	<0.01	0.10	0.6	<0.005
462793		3.6	400	0.8	1.1	<0.001	0.53	0.05	1.7	0.2	0.2	48.4	<0.01	0.13	0.5	<0.005
462794		3.2	370	1.0	0.7	<0.001	0.34	<0.05	2.7	0.3	<0.2	75.1	<0.01	0.06	0.5	<0.005
462795		2.1	280	1.6	1.8	<0.001	0.61	<0.05	1.1	<0.2	0.2	80.2	<0.01	0.26	1.3	<0.005
462796		2.7	320	0.8	1.9	0.020	1.12	<0.05	1.1	0.4	0.3	40.8	<0.01	0.46	1.2	0.007
462797		1.9	280	0.4	2.1	0.002	0.76	<0.05	1.0	0.4	0.2	13.9	<0.01	0.28	1.1	0.010
462798		2.6	380	0.7	2.1	0.003	0.72	<0.05	1.0	0.2	0.2	21.7	<0.01	1.13	0.9	0.009
462799		2.4	300	0.6	1.9	<0.001	0.52	<0.05	0.8	0.3	0.2	21.7	<0.01	0.15	1.0	0.008
462800		2.1	290	0.6	1.8	<0.001	0.53	<0.05	0.8	0.2	0.2	21.1	<0.01	0.15	1.0	0.007
462801		2.1	300	0.6	1.7	0.001	0.60	0.05	0.9	0.2	0.2	22.1	<0.01	0.11	0.8	0.009
462802		8.4	340	0.8	2.7	0.001	1.15	0.09	2.1	0.3	0.3	32.7	<0.01	1.83	1.1	0.008
462803		3.6	300	3.0	1.5	0.002	0.15	0.09	0.9	0.4	0.2	24.4	<0.01	0.02	0.9	0.008
462804		1.7	300	1.2	1.2	<0.001	0.12	0.09	0.9	0.2	0.2	28.1	<0.01	0.02	1.0	0.006
462805		1.7	290	1.0	1.6	<0.001	0.28	0.12	1.7	0.4	0.2	27.4	<0.01	0.02	1.0	0.007
462806		1.5	310	1.2	1.3	<0.001	0.33	0.07	0.9	0.2	0.2	37.5	<0.01	0.11	0.8	0.005
462807		1.3	170	2.5	2.2	0.001	1.53	0.07	0.7	0.4	0.2	32.5	<0.01	0.28	1.5	<0.005
462808		0.9	170	1.3	2.4	0.001	0.55	<0.05	0.3	0.2	<0.2	25.4	<0.01	0.22	1.6	<0.005
462809		0.7	180	1.3	2.1	<0.001	0.39	<0.05	0.4	0.2	<0.2	25.4	<0.01	0.12	1.4	<0.005
462810		614	680	4.5	26.6	0.092	3.80	0.75	7.7	3.4	0.4	50.3	<0.01	0.22	0.9	0.058



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Page: 4 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 11-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225585

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
462791		<0.02	0.27	16	<0.05	7.30	452	<0.5			
462792		<0.02	2.40	17	0.07	8.74	385	<0.5			
462793		<0.02	0.46	15	<0.05	5.05	404	<0.5			
462794		<0.02	0.62	17	0.06	5.49	340	<0.5			
462795		<0.02	1.85	7	0.10	6.40	988	<0.5			
462796		<0.02	0.52	7	0.10	8.72	1240	<0.5			
462797		<0.02	0.47	6	0.11	6.09	1190	<0.5			
462798		<0.02	0.34	6	0.07	5.18	1040	<0.5			
462799		<0.02	0.30	7	0.06	4.77	651	<0.5			
462800		<0.02	0.31	6	0.06	4.56	676	<0.5			
462801		<0.02	0.32	6	0.05	4.40	618	<0.5			
462802		<0.02	1.24	10	0.13	11.90	804	<0.5			
462803		<0.02	0.50	5	<0.05	5.40	248	<0.5			
462804		<0.02	0.98	5	<0.05	4.52	73	<0.5			
462805		<0.02	1.23	7	<0.05	11.55	346	<0.5			
462806		<0.02	3.20	5	<0.05	5.29	470	<0.5			
462807		<0.02	0.77	2	0.11	6.79	2500	<0.5			
462808		<0.02	1.54	1	0.09	5.15	684	<0.5			
462809		<0.02	1.59	2	0.06	3.76	195	<0.5			
462810		0.60	0.28	71	10.10	4.70	59	1.2			



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 11-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225585

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.
CRU - 31 CRU - QC LOG - 21d LOG - 22
LOG - 23 PUL - 31 PUL - 31d PUL - QC
SPL - 21 SPL - 21d WEI - 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au - AA23 Cu - OG46 ME - MS41 ME - OG46
Mo - OG46



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Page: 1
Total # Pages: 4 (A - G)
Plus Appendix Pages
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This report is for 93 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 22-DEC-2016.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
CRU-31	Fine crushing - 70% <2mm
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Mo-OG46	Ore Grade Mo - Aqua Regia	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

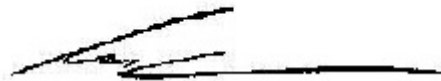
To: **GIBRALTAR MINES LTD.**
ATTN: ALS MINERALS

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

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

Comments: ***Corrected copy with "TI" reported from ME-MS81***

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Page: 2 - A
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 11-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225586

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
462811		5.93	0.39	0.27	0.4	<0.2	<10	110	0.09	0.20	0.79	0.12	14.40	1.9	9	0.12
462812		7.51	0.55	0.34	0.4	<0.2	<10	80	0.10	0.23	1.65	0.41	14.70	1.4	8	0.13
462813		7.89	0.01	0.39	0.2	<0.2	<10	180	0.14	0.03	1.94	0.19	15.40	2.0	9	0.20
462814		7.78	0.01	0.39	0.1	<0.2	<10	290	0.09	0.01	2.06	0.06	20.1	2.4	6	0.39
462815		7.24	0.03	0.42	<0.1	<0.2	<10	140	0.10	0.03	1.66	0.08	17.80	2.0	7	0.33
462816		8.06	0.30	0.44	0.2	<0.2	<10	50	0.06	0.22	0.96	0.08	13.35	2.6	6	0.16
462817		7.55	0.10	0.59	0.1	<0.2	<10	40	0.09	0.04	1.35	0.12	12.40	2.7	5	0.17
462818		4.06	0.08	0.64	0.1	<0.2	<10	40	0.06	0.03	0.56	0.02	6.32	3.6	7	0.11
462819		3.16	0.15	0.61	0.1	<0.2	<10	50	0.09	0.08	1.35	0.31	9.85	3.8	6	0.10
462820		<0.02	0.15	0.60	0.1	<0.2	<10	50	0.08	0.08	1.35	0.30	9.89	4.0	7	0.10
462821		7.42	0.04	0.57	0.1	<0.2	<10	50	0.06	0.03	1.66	1.16	8.55	2.8	6	0.07
462822		8.46	0.08	0.56	0.1	<0.2	<10	40	0.05	0.05	2.18	0.45	9.70	5.6	6	0.15
462823		7.78	0.02	0.61	0.1	<0.2	<10	60	0.06	0.01	1.28	0.03	7.06	3.1	7	0.07
462824		7.79	0.15	0.77	0.1	<0.2	<10	70	0.14	0.01	2.10	0.06	7.60	11.8	40	0.52
462825		7.56	0.16	0.84	0.5	<0.2	<10	110	0.20	0.04	1.17	1.05	5.46	8.9	52	0.50
462826		8.05	0.05	0.58	0.7	<0.2	<10	70	0.08	0.03	1.11	0.98	6.49	4.0	8	0.08
462827		8.53	0.03	0.55	0.3	<0.2	<10	80	0.07	0.02	0.94	0.39	4.57	3.6	7	0.06
462828		8.20	0.03	0.62	0.3	<0.2	<10	70	0.06	0.02	0.87	0.21	6.05	3.4	6	<0.05
462829		7.56	0.23	0.64	4.3	<0.2	<10	50	0.10	0.08	1.50	0.75	5.59	5.4	8	0.06
462830		0.05	0.57	2.12	15.8	<0.2	10	70	0.29	0.46	1.18	0.19	10.30	51.7	267	1.31
462831		6.74	0.08	0.70	2.5	<0.2	<10	60	0.07	0.07	0.87	1.28	4.44	4.4	7	0.07
462832		6.87	0.04	0.78	0.2	<0.2	<10	40	0.08	0.04	0.86	0.29	4.45	3.3	7	0.13
462833		2.73	0.03	0.83	0.4	<0.2	<10	70	0.06	0.01	0.57	0.05	4.62	3.9	6	<0.05
462834		4.92	0.03	0.86	0.4	<0.2	<10	60	0.09	0.03	0.73	1.76	4.54	3.3	7	0.08
462835		7.98	0.03	0.85	0.6	<0.2	<10	40	0.10	0.02	0.97	0.23	5.65	4.2	7	0.09
462542		8.00	0.15	0.57	0.2	<0.2	<10	30	0.05	0.03	2.90	2.18	19.05	10.6	6	0.08
462543		6.81	0.16	0.86	1.3	<0.2	<10	40	0.06	0.16	2.98	1.75	15.20	10.1	6	0.09
462544		6.25	1.40	1.94	1.6	<0.2	<10	40	0.06	1.34	1.55	0.64	14.10	15.6	5	0.09
462545		2.45	0.77	1.66	5.0	<0.2	<10	40	0.07	0.53	2.90	1.75	20.4	12.3	4	0.09
462546		7.05	0.20	1.62	3.7	<0.2	<10	40	0.15	0.23	1.27	2.35	21.8	12.1	5	0.11
462547		7.02	0.09	1.72	1.4	<0.2	<10	30	0.07	0.16	1.74	1.01	12.85	10.6	5	0.08
462548		7.24	1.27	1.69	3.7	<0.2	<10	40	0.10	1.35	1.05	3.63	23.3	13.0	5	0.09
462549		7.64	0.69	1.28	0.9	<0.2	<10	40	0.07	0.30	2.05	3.64	14.85	11.0	4	0.08
462550		0.04	2.80	1.74	28.9	0.4	10	60	0.31	0.95	0.87	2.28	10.25	11.4	30	3.60
462551		7.54	3.30	1.36	1.0	<0.2	<10	40	0.07	2.67	1.75	1.70	9.17	10.3	4	0.08
462552		1.00	0.05	0.27	0.2	<0.2	<10	30	0.37	0.23	0.36	0.08	106.5	0.8	5	0.45
462553		6.68	0.32	1.89	0.5	<0.2	<10	30	0.08	0.27	0.67	0.29	10.55	13.2	4	0.06
462554		7.72	0.19	1.06	0.3	<0.2	<10	30	0.08	0.09	2.55	0.22	13.55	9.4	4	0.07
462555		7.60	0.11	1.60	0.3	<0.2	<10	60	0.08	0.09	2.70	0.31	7.03	10.6	5	0.07
462556		7.71	0.20	1.68	0.4	<0.2	<10	40	0.10	0.10	2.68	0.34	7.33	11.7	4	0.07

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Page: 2 - B
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Plus Appendix Pages
Finalized Date: 11-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225586

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
462811		1415	1.27	0.92	<0.05	<0.02	0.01	0.080	0.14	6.6	0.4	0.05	486	0.74	0.04
462812		1340	1.31	1.18	<0.05	<0.02	0.01	0.113	0.11	6.8	0.6	0.10	1100	0.68	0.04
462813		4.8	1.61	1.31	<0.05	<0.02	<0.01	0.028	0.10	6.9	1.1	0.15	1200	1.96	0.05
462814		1.7	0.83	1.20	<0.05	<0.02	<0.01	0.007	0.13	9.1	1.0	0.15	748	2.97	0.04
462815		23.2	1.12	1.35	<0.05	<0.02	<0.01	0.020	0.09	8.0	1.2	0.17	955	0.73	0.04
462816		1035	1.88	1.39	<0.05	<0.02	0.01	0.068	0.12	6.1	1.3	0.19	598	0.78	0.03
462817		180.5	1.46	1.95	<0.05	0.02	<0.01	0.033	0.09	5.2	2.0	0.31	943	0.52	0.04
462818		100.0	1.12	2.16	<0.05	<0.02	<0.01	0.019	0.08	2.5	2.2	0.34	536	0.47	0.04
462819		214	1.54	1.88	<0.05	<0.02	0.01	0.074	0.12	4.1	1.8	0.31	1200	0.45	0.03
462820		198.5	1.57	1.86	<0.05	<0.02	0.01	0.074	0.11	4.1	1.9	0.31	1180	0.67	0.03
462821		38.1	1.03	1.60	<0.05	<0.02	0.02	0.093	0.13	3.5	1.8	0.29	1100	0.63	0.03
462822		72.8	1.25	1.57	<0.05	<0.02	0.01	0.063	0.11	4.0	2.5	0.30	1160	0.81	0.03
462823		10.4	0.98	2.09	<0.05	<0.02	<0.01	0.005	0.09	2.6	2.0	0.36	455	0.87	0.04
462824		29.8	1.27	2.44	<0.05	<0.02	<0.01	0.008	0.23	2.9	3.3	0.60	551	0.68	0.03
462825		125.0	1.42	2.44	<0.05	0.02	0.02	0.030	0.36	1.9	3.5	0.62	520	0.71	0.03
462826		40.9	1.10	1.86	<0.05	0.02	0.01	0.067	0.12	2.2	1.5	0.26	528	0.77	0.03
462827		21.6	1.07	1.75	<0.05	<0.02	<0.01	0.010	0.13	1.5	1.5	0.28	541	0.49	0.03
462828		16.6	1.07	2.09	<0.05	<0.02	<0.01	0.013	0.10	2.1	1.6	0.32	520	0.48	0.04
462829		150.5	1.64	2.04	<0.05	<0.02	<0.01	0.122	0.10	2.0	1.7	0.32	1020	1.76	0.03
462830		843	5.60	5.83	0.06	0.04	0.01	0.023	0.71	4.6	4.2	5.53	472	93.6	0.10
462831		71.2	1.57	2.17	<0.05	<0.02	0.01	0.199	0.09	1.6	2.0	0.35	721	0.93	0.03
462832		34.4	1.26	2.44	<0.05	<0.02	0.01	0.026	0.05	1.6	3.1	0.40	652	0.72	0.04
462833		4.1	1.22	2.54	<0.05	<0.02	<0.01	0.005	0.04	1.5	3.3	0.45	428	0.53	0.04
462834		36.1	1.47	2.50	<0.05	<0.02	0.01	0.266	0.06	1.6	3.3	0.42	601	1.61	0.03
462835		20.6	1.30	2.60	<0.05	<0.02	<0.01	0.039	0.04	2.2	3.4	0.44	588	1.26	0.04
462542		96.2	3.25	2.01	<0.05	<0.02	0.02	0.209	0.07	7.4	2.2	1.05	2090	1.03	0.05
462543		109.0	4.04	2.86	<0.05	<0.02	0.02	0.243	0.09	5.8	3.8	1.13	3530	3.42	0.05
462544		875	6.52	6.40	0.05	<0.02	0.01	0.165	0.11	5.7	8.7	1.31	6410	0.98	0.04
462545		462	6.51	6.01	0.05	<0.02	0.02	0.457	0.10	8.3	8.0	1.24	7820	18.30	0.04
462546		129.0	5.05	4.98	0.06	<0.02	0.03	0.447	0.08	8.3	8.5	1.02	7670	16.40	0.04
462547		31.0	3.48	4.81	<0.05	<0.02	0.01	0.154	0.08	5.1	9.1	1.15	3890	3.70	0.03
462548		3090	4.80	5.97	0.06	<0.02	0.07	0.618	0.10	8.8	9.5	1.11	4280	20.5	0.03
462549		1465	3.65	3.95	<0.05	<0.02	0.08	0.449	0.10	6.0	7.0	1.09	3490	40.0	0.04
462550		2540	4.62	4.86	<0.05	0.03	0.06	0.148	0.30	5.2	17.9	0.59	773	222	0.05
462551		6980	4.30	4.87	<0.05	<0.02	0.07	0.418	0.12	3.7	7.8	1.13	2470	2.63	0.05
462552		14.5	1.09	2.40	0.08	0.22	<0.01	0.038	0.15	58.9	7.6	0.10	287	1.06	0.04
462553		987	4.34	7.22	<0.05	<0.02	0.01	0.237	0.08	4.2	11.9	1.30	1020	0.80	0.03
462554		454	3.22	3.84	<0.05	<0.02	<0.01	0.104	0.07	5.5	6.7	1.16	1460	0.76	0.07
462555		170.0	3.34	5.53	<0.05	<0.02	<0.01	0.142	0.08	2.6	10.7	1.15	1940	1.23	0.06
462556		349	3.48	5.67	<0.05	<0.02	<0.01	0.062	0.10	2.7	11.8	1.15	1940	0.97	0.05

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Page: 2 - C
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CERTIFICATE OF ANALYSIS KL16225586

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
462811		0.8	200	1.3	2.2	<0.001	0.80	<0.05	0.4	<0.2	<0.2	30.5	<0.01	0.27	1.4
462812		1.1	190	1.1	1.6	<0.001	0.35	<0.05	0.4	0.2	<0.2	52.3	<0.01	0.30	1.6
462813		1.1	230	3.0	1.4	<0.001	0.05	<0.05	1.1	0.3	<0.2	78.2	<0.01	<0.01	1.1
462814		0.9	270	1.7	1.9	<0.001	0.05	<0.05	0.8	0.3	<0.2	74.6	<0.01	<0.01	1.0
462815		1.0	220	2.0	1.4	<0.001	0.06	<0.05	0.8	0.3	<0.2	65.4	<0.01	0.01	1.1
462816		1.4	270	1.4	1.7	<0.001	1.22	<0.05	0.7	0.4	<0.2	34.9	<0.01	0.18	1.0
462817		1.3	300	1.6	1.3	<0.001	0.21	<0.05	1.3	0.4	<0.2	46.5	<0.01	0.03	0.9
462818		1.5	300	1.1	1.0	<0.001	0.12	0.05	0.6	<0.2	<0.2	31.8	<0.01	0.03	0.8
462819		1.5	330	1.3	1.6	<0.001	0.35	<0.05	0.9	0.5	<0.2	38.6	<0.01	0.06	0.8
462820		1.5	330	1.3	1.5	<0.001	0.38	<0.05	0.9	0.4	<0.2	38.7	<0.01	0.06	0.8
462821		1.4	310	0.7	1.6	<0.001	0.13	<0.05	0.8	0.2	<0.2	37.3	<0.01	0.03	0.8
462822		1.8	300	1.1	1.6	<0.001	0.43	<0.05	0.8	0.2	<0.2	55.6	<0.01	0.05	0.7
462823		3.6	340	0.9	1.6	<0.001	0.02	<0.05	1.0	0.3	<0.2	49.3	<0.01	<0.01	0.5
462824		16.6	360	0.8	7.2	<0.001	0.12	<0.05	1.6	0.4	<0.2	68.0	<0.01	0.05	0.7
462825		22.6	490	0.6	10.6	<0.001	0.22	0.05	1.3	0.3	<0.2	50.4	<0.01	0.16	0.5
462826		3.2	310	1.0	2.3	<0.001	0.09	0.05	1.1	0.4	<0.2	40.7	<0.01	0.04	0.5
462827		1.8	320	0.6	2.4	<0.001	0.09	<0.05	0.8	0.2	<0.2	28.5	<0.01	0.03	0.5
462828		1.7	330	0.8	1.5	<0.001	0.06	0.05	0.9	<0.2	<0.2	32.8	<0.01	0.01	0.7
462829		1.9	320	1.0	1.4	<0.001	0.26	0.09	1.5	0.2	<0.2	34.5	<0.01	0.05	0.5
462830		640	690	4.8	28.8	0.102	3.88	0.69	8.7	3.7	0.4	53.0	<0.01	0.25	1.0
462831		2.0	320	1.0	1.3	<0.001	0.34	0.09	1.0	0.2	<0.2	44.4	<0.01	0.06	0.5
462832		1.6	340	0.7	0.8	<0.001	0.08	0.05	0.8	0.2	<0.2	37.3	<0.01	0.02	0.5
462833		1.7	340	0.6	0.6	<0.001	0.05	0.08	0.7	0.2	<0.2	32.9	<0.01	0.02	0.5
462834		1.8	350	0.7	0.8	<0.001	0.18	0.10	0.9	0.3	<0.2	37.7	<0.01	0.02	0.4
462835		1.7	350	0.9	0.6	<0.001	0.14	0.08	1.1	0.2	<0.2	50.7	<0.01	0.05	0.4
462542		4.6	500	0.7	1.3	<0.001	0.11	<0.05	2.0	0.3	<0.2	60.0	<0.01	0.05	1.0
462543		4.7	470	0.7	1.5	<0.001	0.30	<0.05	2.0	0.2	<0.2	47.4	<0.01	0.13	1.1
462544		5.7	620	0.6	1.9	<0.001	1.45	<0.05	2.3	0.4	<0.2	27.2	<0.01	1.33	1.1
462545		5.1	490	1.1	1.7	0.002	1.10	<0.05	2.4	0.5	0.2	35.9	<0.01	0.47	1.1
462546		5.5	500	1.5	1.3	0.001	0.41	<0.05	4.0	0.9	<0.2	27.4	<0.01	0.13	1.1
462547		5.6	420	1.1	1.4	<0.001	0.46	<0.05	2.3	0.4	<0.2	34.5	<0.01	0.05	1.0
462548		5.4	450	1.1	1.6	0.003	1.46	<0.05	2.3	0.6	0.3	23.1	<0.01	1.18	1.1
462549		5.3	430	0.9	1.6	0.012	0.64	<0.05	2.1	0.5	<0.2	51.7	<0.01	0.24	0.8
462550		20.4	730	77.8	15.4	0.228	2.24	1.47	2.6	4.1	0.6	57.1	<0.01	0.65	3.2
462551		5.2	510	0.8	1.9	<0.001	1.65	<0.05	1.9	0.2	0.5	38.5	<0.01	3.26	0.7
462552		0.8	130	5.5	9.4	<0.001	0.01	<0.05	0.8	0.7	0.6	13.2	<0.01	0.01	29.9
462553		5.3	490	0.6	1.3	<0.001	0.83	<0.05	2.5	<0.2	<0.2	20.8	<0.01	0.36	0.9
462554		4.9	500	0.7	1.2	<0.001	0.23	<0.05	2.4	0.3	<0.2	70.8	<0.01	0.12	1.1
462555		4.9	510	0.8	1.3	<0.001	0.11	<0.05	2.8	0.3	<0.2	66.8	<0.01	0.10	1.0
462556		4.6	520	1.0	1.7	<0.001	0.50	<0.05	2.5	0.3	<0.2	65.2	<0.01	0.09	0.9

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Page: 2 - D
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 11-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225586

Sample Description	Method Analyte Units LOR	ME-MS41 TI ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05
462811		<0.02	1.68	2	0.09	4.54	50	<0.5								
462812		<0.02	1.45	2	0.23	5.94	185	<0.5								
462813		<0.02	0.36	5	<0.05	8.01	131	<0.5								
462814		<0.02	0.41	3	<0.05	5.49	42	<0.5								
462815		<0.02	0.32	4	0.08	6.95	65	<0.5								
462816		<0.02	0.72	4	0.12	5.11	60	<0.5								
462817		<0.02	1.15	6	0.05	11.35	136	<0.5								
462818		<0.02	0.13	4	<0.05	3.19	82	<0.5								
462819		<0.02	0.22	4	<0.05	9.99	213	<0.5								
462820		<0.02	0.23	4	<0.05	10.45	212	<0.5								
462821		<0.02	0.28	3	<0.05	4.52	500	<0.5								
462822		<0.02	0.22	3	<0.05	4.28	196	<0.5								
462823		<0.02	0.12	5	<0.05	5.10	42	<0.5								
462824		0.04	0.31	10	<0.05	5.26	62	<0.5								
462825		0.07	0.76	16	<0.05	6.05	535	<0.5								
462826		0.02	0.75	5	<0.05	7.42	521	<0.5								
462827		0.02	0.41	4	<0.05	4.70	243	<0.5								
462828		<0.02	0.74	5	<0.05	5.15	156	<0.5								
462829		<0.02	1.65	6	<0.05	8.00	419	<0.5								
462830		0.59	0.29	72	10.20	5.29	62	1.2								
462831		<0.02	0.66	5	<0.05	4.43	589	<0.5								
462832		<0.02	0.28	5	<0.05	3.49	196	<0.5								
462833		<0.02	0.11	6	<0.05	3.01	100	<0.5								
462834		<0.02	0.52	6	<0.05	4.52	804	<0.5								
462835		<0.02	0.25	7	<0.05	4.97	169	<0.5								
462542		<0.02	0.43	18	0.07	4.00	621	<0.5								
462543		<0.02	0.33	20	0.22	4.49	705	<0.5								
462544		<0.02	0.55	22	0.23	4.72	575	<0.5				743	23.2	20	0.85	3.13
462545		<0.02	0.29	23	0.72	9.55	806	<0.5								
462546		<0.02	0.55	28	0.29	24.7	946	<0.5								
462547		<0.02	0.47	21	0.13	7.28	637	<0.5								
462548		<0.02	2.68	19	0.17	16.30	1700	<0.5	0.303							
462549		<0.02	1.24	17	0.08	9.36	1650	<0.5								
462550		0.27	0.66	32	1.65	5.19	448	0.9	0.246	0.026	0.366					
462551		<0.02	1.11	18	0.09	5.48	737	<0.5	0.652							
462552		0.05	3.62	9	0.25	14.90	30	5.3								
462553		<0.02	0.44	31	0.10	5.98	418	<0.5								
462554		<0.02	0.45	24	0.05	7.70	156	<0.5								
462555		<0.02	0.24	32	<0.05	5.69	314	<0.5				471	21.9	20	0.47	2.82
462556		<0.02	0.31	28	0.06	5.81	300	<0.5								

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Page: 2 - E
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 11 - JAN - 2017
 Account: GIBMIN

Project: SGM2016 - 22

CERTIFICATE OF ANALYSIS KL16225586

Sample Description	Method Analyte Units LOR	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1
462811 462812 462813 462814 462815																
462816 462817 462818 462819 462820																
462821 462822 462823 462824 462825																
462826 462827 462828 462829 462830																
462831 462832 462833 462834 462835																
462542 462543 462544 462545 462546		2.02	0.66	22.9	2.93	5.9	0.65	9.7	0.27	2.2	14.0	3.32	41.5	3.41	3	163.0
462547 462548 462549 462550 462551																
462552 462553 462554 462555 462556		1.77	0.82	18.8	3.21	5.6	0.58	9.1	0.26	1.9	14.5	3.25	20.5	3.29	1	313

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Page: 2 - F
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 11 - JAN - 2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225586

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Ta	Tb	Th	Tl	Tm	U	V	W	Y	Yb	Zr	SiO2	Al2O3	Fe2O3	CaO
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%
		0.1	0.01	0.05	0.5	0.01	0.05	5	1	0.5	0.03	2	0.01	0.01	0.01	0.01
462811																
462812																
462813																
462814																
462815																
462816																
462817																
462818																
462819																
462820																
462821																
462822																
462823																
462824																
462825																
462826																
462827																
462828																
462829																
462830																
462831																
462832																
462833																
462834																
462835																
462542																
462543																
462544		<0.1	0.50	1.56	<0.5	0.26	1.13	103	4	21.3	2.12	205	59.4	15.60	9.93	2.08
462545																
462546																
462547																
462548																
462549																
462550																
462551																
462552																
462553																
462554																
462555		<0.1	0.48	1.70	<0.5	0.24	1.08	108	2	19.7	1.93	204	61.8	15.20	5.16	3.94
462556																

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Page: 2 - G
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 11-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225586

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	K2O	SrO	BaO	LOI
		%	%	%	%	%	%	%	%	%	%	Total
462811		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
462812												
462813												
462814												
462815												
462816												
462817												
462818												
462819												
462820												
462821												
462822												
462823												
462824												
462825												
462826												
462827												
462828												
462829												
462830												
462831												
462832												
462833												
462834												
462835												
462542		2.34	1.07	2.43	<0.01	0.50	0.83	0.13	0.02	0.08	5.62	100.03
462543												
462544												
462545												
462546												
462547												
462548												
462549												
462550												
462551												
462552		1.97	4.23	1.14	<0.01	0.45	0.26	0.12	0.03	0.05	5.19	99.54
462553												
462554												
462555												
462556												

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Page: 3 - A
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 11-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225586

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
462557		7.17	0.11	1.05	0.7	<0.2	<10	30	0.07	0.10	2.09	1.04	7.13	12.4	4	0.07
462558		7.59	0.50	0.35	6.3	<0.2	<10	30	<0.05	0.58	0.09	0.14	6.29	38.5	5	0.08
462559		7.35	0.85	0.55	2.6	<0.2	<10	30	<0.05	0.38	0.13	0.18	10.25	29.0	3	0.11
462560		<0.02	0.87	0.57	2.7	<0.2	<10	40	<0.05	0.39	0.13	0.19	10.50	27.6	5	0.12
462561		7.03	2.61	1.09	1.4	<0.2	<10	30	0.06	1.92	0.27	0.45	8.83	13.4	4	0.09
462562		8.13	2.80	1.26	1.4	<0.2	<10	30	0.06	1.70	0.16	0.33	8.99	12.4	4	0.07
462563		8.00	2.07	0.76	2.4	<0.2	<10	30	<0.05	0.67	0.12	0.51	9.79	15.9	5	0.07
462564		7.81	3.31	0.69	2.5	<0.2	<10	30	<0.05	0.62	0.14	0.65	9.25	21.3	5	0.08
462565		8.42	2.02	0.63	1.4	<0.2	<10	30	0.05	0.53	0.15	0.56	7.91	46.1	4	0.07
462566		7.15	0.03	1.37	0.3	<0.2	<10	40	0.08	0.02	0.37	0.06	8.38	8.5	5	<0.05
462567		7.13	0.08	1.37	0.3	<0.2	<10	30	0.07	0.09	0.31	0.26	9.13	10.1	5	0.07
462568		7.42	0.27	1.14	0.4	<0.2	<10	30	0.05	0.16	0.76	0.23	12.00	12.0	4	<0.05
462569		7.63	0.06	1.47	0.3	<0.2	<10	50	0.10	0.03	0.93	0.03	8.28	9.8	6	0.05
462570		0.06	0.71	1.95	34.7	0.2	<10	380	0.41	1.41	0.97	0.08	56.6	14.0	83	9.82
462571		7.68	0.04	1.38	0.3	<0.2	<10	50	0.09	0.01	0.79	0.02	6.99	10.1	5	<0.05
462572		7.73	0.20	1.29	0.3	<0.2	<10	60	0.08	0.03	0.46	0.04	8.36	9.8	5	0.06
462573		7.73	0.05	1.27	0.2	<0.2	<10	60	0.12	0.01	0.54	0.01	7.47	9.5	6	0.40
462574		7.59	0.10	1.02	0.4	<0.2	<10	100	0.12	0.02	0.81	0.43	5.77	9.8	6	0.62
462575		7.38	0.06	1.30	0.3	<0.2	<10	110	0.13	0.01	0.59	0.30	6.24	9.1	6	0.60
462576		8.10	3.90	1.02	0.5	<0.2	<10	50	0.08	0.21	0.44	0.82	6.22	12.4	5	0.08
462577		7.85	0.09	1.42	0.4	<0.2	<10	70	0.09	0.06	0.48	0.03	6.56	9.6	6	0.14
462578		8.57	0.06	1.45	0.9	<0.2	<10	180	0.13	0.01	0.61	0.68	6.48	10.2	7	0.59
462579		7.91	0.05	1.45	0.3	<0.2	<10	130	0.15	0.01	0.77	0.02	8.47	10.4	6	0.40
462580		<0.02	0.04	1.42	0.2	<0.2	<10	120	0.14	0.01	0.77	0.01	8.25	10.2	7	0.38
462581		6.74	3.22	1.45	0.7	<0.2	<10	50	0.07	1.43	0.65	0.28	12.60	10.5	5	0.06
462836		7.55	0.35	1.52	0.6	<0.2	<10	50	0.09	0.14	1.04	2.34	9.39	10.7	5	0.05
462837		7.62	0.36	1.50	0.4	<0.2	<10	40	0.09	0.09	1.14	1.15	7.78	10.3	4	0.06
462838		7.29	0.24	1.46	0.3	<0.2	<10	40	0.07	0.13	0.88	1.35	7.88	10.4	4	0.13
462839		7.55	0.47	1.67	0.3	<0.2	<10	50	0.09	0.05	0.92	1.16	7.68	12.6	5	0.05
462840		<0.02	0.41	1.64	0.3	<0.2	<10	50	0.09	0.04	0.91	1.23	7.73	11.7	5	0.05
462841		6.83	0.05	1.48	0.3	<0.2	<10	50	0.09	0.01	0.65	1.03	8.68	10.9	4	<0.05
462842		7.06	0.04	1.39	0.3	<0.2	<10	50	0.09	0.01	0.94	0.05	10.10	10.0	5	0.05
462843		6.01	0.59	1.68	0.3	<0.2	<10	50	0.09	0.11	1.69	0.40	10.50	10.6	4	0.05
462844		7.37	0.06	1.64	0.2	<0.2	<10	30	0.08	0.09	2.33	0.18	9.86	10.6	6	<0.05
462845		6.56	0.05	1.89	0.2	<0.2	<10	40	0.09	0.07	2.65	0.39	8.85	13.6	6	0.10
462846		7.21	0.04	1.82	0.3	<0.2	<10	40	0.08	0.03	2.40	0.29	6.18	13.1	4	<0.05
462847		3.72	0.03	1.72	0.2	<0.2	<10	40	0.10	0.01	1.35	0.04	4.67	12.3	4	<0.05
462848		3.31	0.06	1.54	0.2	<0.2	<10	50	0.11	0.01	1.15	0.02	6.09	12.0	5	<0.05
462849		7.66	1.67	1.50	0.3	<0.2	<10	40	0.09	0.13	1.18	0.40	4.91	12.6	4	<0.05
462850		0.04	0.13	1.46	4.8	<0.2	10	110	0.24	0.06	1.14	0.15	10.80	9.3	36	0.39

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Page: 3 - B
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 11-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225586

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
462557		211	3.14	2.79	<0.05	<0.02	0.02	0.043	0.12	2.7	6.9	0.95	3280	61.6	0.02
462558		654	7.74	1.08	<0.05	<0.02	0.01	0.026	0.20	2.3	0.3	0.01	43	2.60	0.02
462559		1780	7.51	1.56	<0.05	0.02	0.01	0.213	0.19	4.2	2.5	0.22	207	4.72	0.02
462560		1705	7.35	1.62	<0.05	<0.02	<0.01	0.210	0.20	4.3	2.6	0.23	213	4.22	0.02
462561		7800	4.78	3.15	<0.05	<0.02	0.01	0.209	0.17	3.4	6.8	0.70	754	7.46	0.02
462562		7610	5.07	3.74	<0.05	<0.02	0.01	0.245	0.16	3.6	8.7	0.88	943	0.69	0.01
462563		6660	6.76	2.01	<0.05	<0.02	0.01	0.232	0.18	4.0	4.3	0.41	402	3.65	0.01
462564		8460	7.78	1.88	0.11	<0.02	0.02	0.214	0.16	3.5	3.4	0.40	380	5.93	0.01
462565		4590	8.07	1.71	0.10	0.02	0.01	0.192	0.14	3.0	2.4	0.36	326	20.8	0.01
462566		38.9	1.86	3.68	0.09	0.06	<0.01	0.009	0.06	3.1	5.8	1.08	630	0.87	0.03
462567		160.0	2.13	4.12	0.09	0.04	0.01	0.025	0.06	3.4	6.9	1.00	906	29.4	0.02
462568		489	3.12	3.29	0.09	0.02	<0.01	0.039	0.11	4.8	5.6	0.79	868	10.35	0.02
462569		108.5	2.10	3.97	0.09	0.06	<0.01	0.014	0.09	3.1	6.6	1.07	645	1.84	0.03
462570		2610	4.03	8.32	0.23	0.40	0.01	0.179	1.09	28.6	30.1	1.19	370	85.1	0.15
462571		73.2	1.78	3.68	0.09	0.06	<0.01	0.010	0.09	2.5	4.8	1.05	554	0.54	0.03
462572		434	1.89	3.20	0.08	0.04	<0.01	0.018	0.13	3.2	4.2	1.01	553	0.44	0.02
462573		63.2	1.69	3.58	0.08	0.06	<0.01	0.005	0.24	2.8	5.7	1.15	536	0.44	0.03
462574		94.0	1.60	2.83	0.09	0.07	<0.01	0.019	0.41	2.2	4.6	0.84	543	0.65	0.03
462575		60.1	1.76	3.08	0.09	0.06	<0.01	0.010	0.41	2.2	5.5	1.02	509	0.74	0.03
462576		1355	2.90	2.59	0.09	0.04	0.01	0.078	0.14	2.2	3.8	0.82	462	1.53	0.02
462577		148.5	2.04	3.47	0.08	0.03	<0.01	0.021	0.18	2.3	4.6	1.10	569	0.71	0.04
462578		75.9	2.13	3.19	0.10	0.05	<0.01	0.023	0.53	2.3	5.0	1.08	551	0.75	0.04
462579		55.4	2.08	3.92	0.09	0.05	<0.01	0.007	0.34	3.1	5.9	1.05	464	0.61	0.04
462580		46.4	2.05	3.74	0.08	0.05	<0.01	<0.005	0.33	3.0	5.6	1.06	465	0.63	0.04
462581		3050	3.39	4.28	0.09	0.02	<0.01	0.244	0.14	5.0	6.7	0.98	1060	1.52	0.02
462836		972	2.62	4.32	0.10	0.03	0.02	0.086	0.08	3.4	7.1	1.05	1100	0.37	0.02
462837		584	2.93	4.11	0.09	0.03	0.01	0.083	0.09	2.8	7.2	1.03	955	0.42	0.03
462838		432	2.78	3.67	0.09	0.03	0.01	0.070	0.07	2.9	5.5	1.09	910	0.97	0.02
462839		911	2.56	4.76	0.09	0.03	0.02	0.085	0.07	2.7	6.4	1.30	898	0.56	0.03
462840		847	2.50	4.49	0.08	0.03	0.02	0.079	0.06	2.7	6.0	1.29	877	0.51	0.03
462841		51.8	1.97	4.08	0.09	0.04	0.01	0.030	0.06	3.0	4.7	1.15	700	0.58	0.03
462842		38.3	1.91	3.98	0.08	0.04	<0.01	0.011	0.07	3.6	5.1	1.08	643	0.48	0.03
462843		788	3.28	5.12	0.09	<0.02	0.01	0.076	0.09	4.2	9.1	1.16	1630	0.35	0.03
462844		62.6	3.00	5.88	0.09	<0.02	<0.01	0.079	0.07	3.9	9.6	1.11	1700	0.62	0.04
462845		41.3	3.08	6.30	0.09	<0.02	<0.01	0.050	0.07	3.5	10.9	1.39	1500	0.58	0.04
462846		51.5	2.89	5.50	0.08	<0.02	<0.01	0.013	0.07	2.4	9.2	1.36	1100	0.59	0.03
462847		28.1	2.27	4.64	0.08	<0.02	<0.01	0.006	0.06	1.8	7.0	1.38	813	0.53	0.03
462848		48.5	1.94	4.27	0.08	0.02	<0.01	0.005	0.05	2.3	6.6	1.27	561	0.38	0.03
462849		1440	3.07	3.85	0.08	<0.02	0.01	0.064	0.09	1.8	6.2	1.18	993	0.98	0.02
462850		51.8	2.95	5.46	0.13	0.28	0.03	0.019	0.10	5.1	9.8	0.75	486	5.50	0.08

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Page: 3 - C
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 11-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225586

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
462557		4.7	520	1.1	1.9	0.011	0.73	<0.05	1.4	0.4	<0.2	37.3	<0.01	0.11	0.9
462558		4.9	350	0.9	2.4	<0.001	9.05	<0.05	0.4	1.6	0.2	4.2	<0.01	0.80	0.8
462559		5.0	520	0.7	2.6	<0.001	8.34	<0.05	0.5	1.7	0.2	4.2	<0.01	0.51	1.2
462560		5.0	530	0.7	2.8	<0.001	8.12	<0.05	0.5	1.5	0.2	4.2	<0.01	0.53	1.3
462561		4.8	540	0.9	2.3	0.001	3.86	<0.05	0.9	0.5	0.4	8.8	<0.01	1.85	1.0
462562		4.6	540	0.7	2.0	<0.001	3.87	<0.05	1.0	0.4	0.4	8.3	<0.01	2.20	0.8
462563		4.8	490	0.6	2.3	<0.001	7.10	<0.05	0.6	1.0	0.5	5.0	<0.01	0.85	0.9
462564		4.3	500	0.7	2.0	0.001	8.46	<0.05	0.7	1.7	0.7	6.5	<0.01	0.59	0.7
462565		4.5	370	0.7	1.9	0.002	8.82	0.05	0.7	2.1	0.3	9.7	<0.01	0.64	0.7
462566		4.5	510	0.6	1.0	<0.001	0.04	0.10	1.2	0.4	0.2	32.5	<0.01	0.01	0.8
462567		4.6	550	1.0	1.0	0.005	0.19	0.10	1.5	0.3	<0.2	28.6	<0.01	0.07	1.6
462568		4.3	500	0.6	1.6	0.001	1.65	<0.05	1.4	0.2	<0.2	21.5	<0.01	0.18	1.2
462569		4.8	520	0.6	1.6	<0.001	0.08	0.10	1.7	0.3	0.2	42.0	<0.01	0.02	1.3
462570		36.7	1010	8.8	128.0	0.003	0.34	0.43	7.4	3.3	4.2	56.1	0.01	0.10	16.5
462571		4.5	460	0.6	1.6	<0.001	0.01	0.11	1.4	<0.2	0.2	43.9	<0.01	0.01	0.5
462572		4.2	460	0.4	2.4	<0.001	0.21	0.09	1.2	0.3	0.2	29.0	<0.01	0.08	1.5
462573		4.2	470	0.4	6.8	<0.001	0.08	0.09	1.4	0.2	<0.2	34.1	<0.01	0.01	1.0
462574		3.8	460	0.4	11.2	<0.001	0.32	0.08	1.3	0.2	<0.2	32.8	<0.01	0.06	0.5
462575		4.1	470	0.4	11.1	<0.001	0.04	0.10	1.5	<0.2	<0.2	36.1	<0.01	0.03	0.5
462576		5.0	510	0.3	2.8	<0.001	1.88	0.07	0.9	0.3	0.2	23.3	<0.01	0.22	0.5
462577		5.0	480	0.4	3.9	<0.001	0.16	0.07	1.3	<0.2	<0.2	34.9	<0.01	0.08	0.4
462578		5.1	450	0.3	13.4	<0.001	0.09	0.08	1.9	0.2	<0.2	32.8	<0.01	0.05	0.4
462579		5.2	440	0.5	9.6	<0.001	<0.01	0.10	2.2	0.2	0.2	47.3	<0.01	<0.01	0.5
462580		5.0	440	0.5	9.0	<0.001	<0.01	0.11	2.0	0.2	<0.2	43.7	<0.01	<0.01	0.5
462581		4.8	450	0.6	2.3	<0.001	1.35	0.05	1.8	0.4	0.2	23.9	<0.01	1.99	0.6
462836		4.6	440	0.6	1.4	<0.001	0.48	0.07	1.8	0.4	0.2	38.5	<0.01	0.16	0.6
462837		4.3	460	0.5	1.3	<0.001	0.92	0.06	1.6	0.3	<0.2	34.4	<0.01	0.23	0.7
462838		4.3	450	0.5	1.1	<0.001	0.95	0.07	1.5	0.3	<0.2	36.4	<0.01	0.25	0.7
462839		5.2	490	0.4	1.2	<0.001	0.32	0.06	1.9	0.2	<0.2	38.8	<0.01	0.14	0.6
462840		4.9	480	0.4	1.0	<0.001	0.30	0.06	1.7	0.2	<0.2	35.7	<0.01	0.11	0.6
462841		5.5	470	0.5	1.2	<0.001	0.06	0.07	1.5	0.2	<0.2	42.7	<0.01	0.03	0.8
462842		5.0	470	0.5	1.3	<0.001	0.06	0.07	1.5	0.4	<0.2	45.1	<0.01	0.01	1.1
462843		5.2	490	0.7	1.5	<0.001	0.77	<0.05	2.7	0.4	<0.2	48.0	<0.01	0.18	0.8
462844		5.4	440	0.7	1.2	<0.001	0.29	<0.05	4.1	0.2	<0.2	62.2	<0.01	0.06	0.7
462845		6.0	510	1.0	1.2	<0.001	0.22	<0.05	3.7	<0.2	<0.2	73.7	<0.01	0.05	1.0
462846		5.4	490	0.7	1.3	<0.001	0.13	<0.05	2.7	0.2	<0.2	62.4	<0.01	0.05	0.7
462847		6.7	450	0.5	1.2	<0.001	0.03	0.06	1.9	<0.2	<0.2	52.3	<0.01	0.01	0.5
462848		6.5	460	0.6	1.2	<0.001	<0.01	0.07	1.8	<0.2	<0.2	52.5	<0.01	0.01	0.7
462849		6.1	490	0.5	1.6	<0.001	1.27	<0.05	1.3	0.2	<0.2	35.1	<0.01	0.44	0.6
462850		32.4	580	3.9	4.3	0.001	0.04	0.53	5.0	0.6	1.0	46.7	<0.01	0.02	1.0

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Page: 3 - D
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 11-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225586

Sample Description	Method Analyte Units LOR	ME-MS41 TI ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05
462557		<0.02	0.42	12	0.14	8.51	606	<0.5								
462558		<0.02	2.00	4	0.27	2.18	27	<0.5				514	11.1	20	0.85	1.91
462559		<0.02	0.81	5	0.23	4.01	72	<0.5	0.174							
462560		0.02	0.76	5	0.24	3.76	74	<0.5	0.169							
462561		<0.02	2.76	11	0.12	4.16	202	<0.5	0.757							
462562		<0.02	0.97	11	0.11	4.84	164	<0.5	0.757							
462563		<0.02	1.53	7	0.18	4.87	174	<0.5	0.648							
462564		<0.02	1.31	7	0.16	6.20	273	<0.5	0.850							
462565		<0.02	3.02	8	0.05	5.19	250	<0.5	0.475							
462566		<0.02	0.26	17	<0.05	7.30	254	0.5								
462567		<0.02	0.51	19	<0.05	8.10	334	<0.5								
462568		<0.02	0.46	15	0.05	6.13	184	<0.5								
462569		<0.02	0.38	19	<0.05	6.94	108	0.5								
462570		0.63	5.01	109	2.03	17.25	78	10.7	0.264		0.244					
462571		<0.02	0.21	19	<0.05	6.14	81	0.6				556	21.4	10	0.35	3.08
462572		<0.02	0.40	14	<0.05	6.45	120	<0.5								
462573		0.04	0.51	23	<0.05	6.33	69	0.5								
462574		0.06	0.29	23	<0.05	4.08	221	0.7								
462575		0.06	0.31	24	<0.05	4.95	203	0.5								
462576		0.02	1.05	12	<0.05	5.02	400	<0.5								
462577		0.02	0.21	18	<0.05	4.65	122	<0.5								
462578		0.06	0.27	27	<0.05	5.04	415	0.5				730	22.5	30	0.79	3.22
462579		0.05	0.60	25	<0.05	7.19	53	0.6								
462580		0.05	0.56	24	<0.05	6.87	53	0.5								
462581		<0.02	0.48	16	0.77	7.31	301	<0.5	0.310							
462836		<0.02	0.36	19	<0.05	8.77	1060	<0.5								
462837		<0.02	0.47	20	<0.05	7.28	582	<0.5								
462838		<0.02	0.30	18	<0.05	6.93	741	<0.5								
462839		<0.02	0.18	23	<0.05	6.54	636	<0.5								
462840		<0.02	0.18	22	<0.05	6.18	646	<0.5								
462841		<0.02	0.20	18	<0.05	7.71	441	<0.5								
462842		<0.02	0.28	18	<0.05	9.38	139	<0.5								
462843		<0.02	0.61	23	<0.05	10.20	333	<0.5								
462844		<0.02	0.27	28	0.07	6.83	378	<0.5								
462845		<0.02	0.53	32	0.07	6.98	436	<0.5								
462846		<0.02	0.16	30	<0.05	4.12	272	<0.5								
462847		<0.02	0.09	29	<0.05	3.60	165	<0.5								
462848		<0.02	0.18	24	<0.05	4.57	59	<0.5								
462849		<0.02	0.18	19	<0.05	3.28	274	<0.5								
462850		0.05	0.31	61	0.41	8.41	44	8.8								

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Page: 3 - E
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 11-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225586

Sample Description	Method Analyte Units LOR	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1
462557 462558 462559 462560 462561		1.36	0.28	24.0	1.87	3.5	0.36	4.6	0.18	1.7	7.0	1.65	44.9	1.44	3	46.6
462562 462563 462564 462565 462566																
462567 462568 462569 462570 462571		2.03	0.83	17.6	3.23	3.5	0.64	8.2	0.34	4.4	13.8	3.11	18.7	3.51	1	436
462572 462573 462574 462575 462576																
462577 462578 462579 462580 462581		2.01	0.86	17.1	3.54	3.5	0.71	9.2	0.29	2.3	15.0	3.46	27.0	3.48	1	401
462836 462837 462838 462839 462840																
462841 462842 462843 462844 462845																
462846 462847 462848 462849 462850																

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Page: 3 - F
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Plus Appendix Pages
Finalized Date: 11 - JAN - 2017
Account: GIBMIN

Project: SGM2016 - 22

CERTIFICATE OF ANALYSIS KL16225586

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Ta	Tb	Th	Tl	Tm	U	V	W	Y	Yb	Zr	SiO2	Al2O3	Fe2O3	CaO
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%
		0.1	0.01	0.05	0.5	0.01	0.05	5	1	0.5	0.03	2	0.01	0.01	0.01	0.01
462557																
462558		<0.1	0.27	1.14	<0.5	0.15	2.19	98	13	13.7	1.45	125	61.5	13.65	11.20	0.12
462559																
462560																
462561																
462562																
462563																
462564																
462565																
462566																
462567																
462568																
462569																
462570																
462571		0.1	0.50	1.02	<0.5	0.28	0.58	110	1	18.2	2.22	109	64.7	16.00	5.04	4.56
462572																
462573																
462574																
462575																
462576																
462577																
462578		<0.1	0.53	1.29	<0.5	0.29	0.80	107	1	21.7	2.14	114	66.1	15.80	5.10	4.87
462579																
462580																
462581																
462836																
462837																
462838																
462839																
462840																
462841																
462842																
462843																
462844																
462845																
462846																
462847																
462848																
462849																
462850																

Comments: ***Corrected copy with "Tl" reported from ME-MS81***

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Page: 3 - G
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 11-JAN-2017
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Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225586

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	K2O	SrO	BaO	LOI
		%	%	%	%	%	%	%	%	%	%	Total %
462557		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
462558		0.27	0.51	3.63	<0.01	0.39	0.01	0.08	<0.01	0.06	7.10	98.52
462559												
462560												
462561												
462562												
462563												
462564												
462565												
462566												
462567												
462568												
462569												
462570												
462571		2.16	3.78	1.10	<0.01	0.45	0.13	0.12	0.05	0.06	2.09	100.24
462572												
462573												
462574												
462575												
462576												
462577												
462578		2.19	3.87	1.47	<0.01	0.49	0.16	0.10	0.04	0.08	1.58	101.85
462579												
462580												
462581												
462836												
462837												
462838												
462839												
462840												
462841												
462842												
462843												
462844												
462845												
462846												
462847												
462848												
462849												
462850												

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Page: 4 - A
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 11-JAN-2017
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Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225586

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1	ME-MS41 Cs ppm 0.05
462851		7.37	0.11	1.50	0.3	<0.2	<10	40	0.08	0.02	1.00	0.05	5.74	11.6	5	<0.05
462852		7.04	1.77	1.90	0.9	<0.2	<10	60	0.07	0.21	1.92	0.94	6.39	17.9	4	0.06
462853		6.49	0.12	1.54	0.2	<0.2	<10	60	0.11	0.08	3.79	0.37	12.85	14.7	4	0.05
462854		6.91	0.04	1.45	0.2	<0.2	<10	50	0.08	0.07	2.31	1.26	11.20	9.8	4	0.05
462855		6.41	0.16	1.34	0.2	<0.2	<10	60	0.07	0.05	2.93	0.25	8.42	9.4	5	0.05
462856		7.14	0.04	1.71	0.2	<0.2	<10	40	0.08	0.01	2.47	0.12	5.20	12.6	5	<0.05
462857		8.25	0.06	1.43	0.3	<0.2	<10	60	0.08	0.01	2.07	0.10	6.98	10.1	5	0.06
462858		7.26	0.14	1.76	0.5	<0.2	<10	70	0.10	0.05	1.03	7.22	7.53	14.1	6	0.06
462859		7.91	0.02	1.80	0.2	<0.2	<10	50	0.08	0.01	1.67	0.05	6.65	13.2	6	<0.05
462860		<0.02	0.02	1.79	0.2	<0.2	<10	50	0.08	0.01	1.74	0.04	6.61	12.3	6	<0.05
462861		7.23	0.06	1.68	0.2	<0.2	<10	50	0.07	0.02	1.88	0.21	7.16	11.4	5	0.06
462862		4.94	0.13	1.58	0.3	<0.2	<10	40	0.10	0.08	1.75	3.62	6.23	12.3	4	0.09
462863		3.38	0.04	1.65	0.2	<0.2	<10	40	0.10	0.01	1.44	0.06	6.15	12.9	4	<0.05

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 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 11-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225586

Sample Description	Method Analyte Units LOR	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01	ME-MS41 Nb ppm 0.05
462851		89.2	2.02	4.08	0.07	0.02	<0.01	0.011	0.06	2.1	6.6	1.23	604	2.54	0.03	<0.05
462852		1845	4.40	6.40	0.09	<0.02	0.04	0.256	0.12	2.6	8.8	1.34	1360	6.80	0.02	<0.05
462853		201	3.82	4.77	0.10	<0.02	<0.01	0.057	0.09	5.2	8.8	1.58	2380	0.61	0.03	<0.05
462854		26.1	2.44	4.82	<0.05	<0.02	0.02	0.094	0.06	4.7	7.5	0.96	1340	3.37	0.03	<0.05
462855		248	2.56	4.19	<0.05	<0.02	<0.01	0.039	0.08	3.6	5.7	1.02	1510	4.01	0.03	<0.05
462856		21.6	2.52	5.32	<0.05	<0.02	<0.01	0.012	0.06	1.9	7.5	1.36	972	0.31	0.03	<0.05
462857		27.9	2.11	4.09	<0.05	0.02	<0.01	0.007	0.08	2.5	5.3	1.12	835	0.59	0.03	<0.05
462858		110.0	2.80	4.46	<0.05	0.02	0.11	0.386	0.11	2.8	5.5	1.36	1140	0.29	0.02	<0.05
462859		10.8	2.45	5.26	<0.05	0.02	0.01	0.010	0.07	2.3	7.1	1.45	889	0.31	0.03	<0.05
462860		11.8	2.43	4.98	<0.05	0.02	0.01	0.010	0.06	2.4	6.8	1.44	892	0.35	0.03	<0.05
462861		45.7	2.42	4.85	<0.05	0.02	0.01	0.015	0.07	2.6	6.3	1.29	867	0.29	0.03	<0.05
462862		84.0	2.28	4.42	<0.05	0.02	0.05	0.025	0.06	2.3	5.3	1.24	1020	0.34	0.02	<0.05
462863		30.7	2.13	4.59	<0.05	0.02	0.01	0.007	0.05	2.3	6.1	1.35	602	0.34	0.03	<0.05

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Page: 4 - C
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 11 - JAN - 2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225586

Sample Description	Method Analyte Units LOR	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2	ME-MS41 Ti % 0.005
462851		5.3	500	0.5	1.2	0.002	0.07	0.07	1.4	<0.2	<0.2	43.2	<0.01	0.03	0.6	0.017
462852		7.5	530	0.7	2.2	0.004	1.63	0.05	2.3	0.2	<0.2	55.6	<0.01	0.48	0.5	0.006
462853		7.6	450	0.8	1.5	<0.001	0.29	<0.05	3.2	0.4	<0.2	99.6	<0.01	0.10	1.1	<0.005
462854		5.0	420	0.9	1.1	<0.001	0.19	<0.05	2.6	0.3	0.2	73.6	<0.01	0.05	1.8	<0.005
462855		4.8	390	0.7	1.4	<0.001	0.15	<0.05	2.5	0.3	<0.2	81.9	<0.01	0.05	1.1	<0.005
462856		8.1	430	0.8	1.2	<0.001	0.03	<0.05	2.4	0.2	<0.2	82.7	<0.01	0.01	0.8	<0.005
462857		5.2	430	0.6	1.5	<0.001	0.02	<0.05	1.7	0.3	<0.2	65.4	<0.01	0.02	0.9	0.010
462858		7.6	500	0.5	2.1	<0.001	0.46	<0.05	1.7	0.2	<0.2	43.9	<0.01	0.07	0.6	0.011
462859		8.5	450	0.6	1.3	<0.001	0.01	0.05	2.6	0.2	<0.2	60.1	<0.01	0.02	0.7	0.014
462860		7.9	460	0.5	1.2	<0.001	0.01	0.05	2.5	0.3	<0.2	58.6	<0.01	0.02	0.5	0.014
462861		6.8	390	0.7	1.3	<0.001	0.04	0.05	2.1	0.3	<0.2	61.3	<0.01	0.03	0.9	0.009
462862		6.6	460	0.7	1.1	<0.001	0.18	<0.05	1.8	0.3	<0.2	54.1	<0.01	0.11	1.0	0.005
462863		6.5	490	0.7	1.0	<0.001	0.01	0.05	2.0	0.2	<0.2	57.7	<0.01	0.02	0.6	0.007

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Page: 4 - D
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 11-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225586

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05
462851		<0.02	0.20	21	<0.05	4.17	137	<0.5	0.181							
462852		<0.02	0.29	24	0.05	4.72	807	<0.5								
462853		<0.02	0.97	20	0.06	11.95	455	<0.5								
462854		<0.02	0.60	22	0.07	6.93	650	<0.5								
462855		<0.02	0.27	18	0.08	6.97	310	<0.5								
462856		<0.02	0.17	22	<0.05	4.89	222	<0.5								
462857		<0.02	0.24	17	<0.05	5.71	218	<0.5								
462858		<0.02	0.24	19	<0.05	7.12	2840	<0.5								
462859		<0.02	0.17	28	<0.05	5.90	290	<0.5								
462860		<0.02	0.16	28	<0.05	5.45	285	<0.5								
462861		<0.02	0.27	23	<0.05	5.79	276	<0.5								
462862		<0.02	0.17	21	<0.05	4.94	1220	<0.5								
462863		<0.02	0.13	25	<0.05	4.11	142	<0.5								

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Page: 4 - E
 Total # Pages: 4 (A - G)
 Plus Appendix Pages
 Finalized Date: 11-JAN-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225586

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
462851		0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2	0.1	0.03	0.2	0.03	1	0.1
462852																
462853																
462854																
462855																
462856																
462857																
462858																
462859																
462860																
462861																
462862																
462863																

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Page: 4 - F
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 Plus Appendix Pages
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Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225586

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Ta	Tb	Th	Tl	Tm	U	V	W	Y	Yb	Zr	SiO2	Al2O3	Fe2O3	CaO
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%
		0.1	0.01	0.05	0.5	0.01	0.05	5	1	0.5	0.03	2	0.01	0.01	0.01	0.01
462851 462852 462853 462854 462855																
462856 462857 462858 462859 462860																
462861 462862 462863																

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Page: 4 - G
Total # Pages: 4 (A - G)
Plus Appendix Pages
Finalized Date: 11-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225586

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
462851 462852 462853 462854 462855												
462856 462857 462858 462859 462860												
462861 462862 462863												

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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 11-JAN-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL16225586

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.

CRU - 31	CRU - QC	LOG - 21d	LOG - 22
LOG - 23	PUL - 31	PUL - 31d	PUL - QC
SPL - 21	SPL - 21d	WEI - 21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au - AA23	Cu - OG46	ME - ICP06	ME - MS41
ME - MS81	ME - OG46	Mo - OG46	OA - GRA05
TOT - ICP06			



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Page: 1
Total # Pages: 2 (A - D)
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Project: SGM2016-22

P.O. No.: SO221599

This report is for 4 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 1-FEB-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

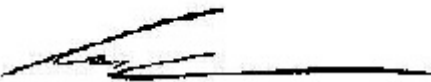
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

To: **GIBRALTAR MINES LTD.**
ATTN: ALS MINERALS

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

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
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Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL17018839

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2
459458		486	21.6	20	0.70	3.05	1.80	0.73	17.4	3.42	4.1	0.65	8.6	0.32	2.4
459466		582	16.9	10	0.62	2.30	1.36	0.63	15.5	2.58	5.2	0.48	6.9	0.26	2.1
459484		612	21.4	10	0.80	3.10	1.97	0.74	16.9	3.44	5.3	0.65	8.0	0.34	2.3
459497		477	23.4	10	0.62	3.04	1.77	0.71	16.7	3.32	3.8	0.66	9.2	0.33	2.4



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Page: 2 - B
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 17 - FEB - 2017
Account: GIBMIN

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CERTIFICATE OF ANALYSIS KL17018839

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	Y	Yb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1	0.5	0.03
459458		3.02	27.3	3.59	1	185.5	0.2	0.49	1.67	0.27	1.42	97	7	18.2	1.98
459466		2.31	22.3	2.48	1	305	0.1	0.37	1.04	0.24	0.80	76	1	13.4	1.51
459484		3.00	25.2	3.19	1	383	0.1	0.52	1.22	0.30	0.78	100	<1	18.7	2.01
459497		3.21	22.6	3.07	1	274	0.2	0.52	1.29	0.29	0.99	98	4	17.6	2.17



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Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 17 - FEB - 2017
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Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL17018839

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
459458		64.8	15.30	6.51	3.73	2.21	2.30	1.85	<0.01	0.48	0.76	0.09	0.02	0.06	3.04	101.15
459466		63.4	14.70	4.10	3.88	1.78	4.01	1.41	<0.01	0.42	0.08	0.09	0.04	0.07	6.48	100.46
459484		64.4	15.45	4.91	4.78	2.12	3.59	1.43	<0.01	0.48	0.12	0.10	0.04	0.07	1.81	99.30
459497		64.9	15.70	5.04	3.54	2.45	4.34	1.43	<0.01	0.51	0.17	0.13	0.03	0.06	2.92	101.22



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Page: 2 - D
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 17-FEB-2017
Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL17018839

Sample Description	Method Analyte Units LOR	ME-MS81 TI ppm 0.5
459458		<0.5
459466		<0.5
459484		<0.5
459497		<0.5



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Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL17018839

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02
TOT-ICP06

ME-ICP06

ME-MS81

OA-GRA05



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CERTIFICATE KL17018841

Project: SGM2016-22

P.O. No.: SO221599

This report is for 3 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 1-FEB-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

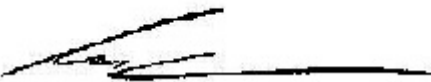
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

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Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS KL17018841

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Page: 2 - B
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 21-FEB-2017
 Account: GIBMIN

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CERTIFICATE OF ANALYSIS KL17018841

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	Y	Yb	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1	0.5	0.03	2
459588		3.44	55.9	2.43	2	61.5	0.2	0.30	1.48	0.17	1.89	38	7	9.5	1.18	62
459602		2.24	16.9	2.26	1	310	0.2	0.30	1.42	0.22	0.87	39	1	12.3	1.49	61
459619		3.48	33.7	2.94	1	57.9	0.3	0.43	2.95	0.34	1.40	9	2	18.9	2.85	83



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Page: 2 - C
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 21-FEB-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL17018841

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
459588		70.0	13.90	5.52	0.62	1.05	0.47	4.29	<0.01	0.23	0.10	0.09	<0.01	0.15	3.32	99.74
459602		71.3	14.30	2.75	3.09	0.84	4.64	1.30	<0.01	0.24	0.10	0.06	0.03	0.09	1.39	100.13
459619		76.7	12.80	1.69	0.79	0.27	4.04	3.00	<0.01	0.11	0.05	0.02	<0.01	0.12	1.09	100.68



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Page: 2 - D
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 21-FEB-2017
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Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL17018841

Sample Description	Method Analyte Units LOR	ME-MS81 TI ppm 0.5
459588		<0.5
459602		<0.5
459619		<0.5



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 21-FEB-2017
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Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL17018841

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02
TOT-ICP06

ME-ICP06

ME-MS81

OA-GRA05



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Page: 1
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Plus Appendix Pages
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CERTIFICATE KL17018843

Project: SGM2016-22

P.O. No.: SO221599

This report is for 2 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 1-FEB-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

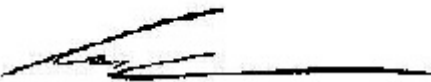
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

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Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
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Finalized Date: 17-FEB-2017
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Page: 2 - B
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Plus Appendix Pages
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Page: 2 - C
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 17 - FEB - 2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL17018843

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
462848		61.3	16.30	5.41	5.59	2.60	3.75	0.84	<0.01	0.47	0.12	0.09	0.05	0.07	2.55	99.14
462863		61.4	16.95	5.64	5.66	2.81	4.16	0.87	<0.01	0.51	0.13	0.10	0.05	0.06	3.24	101.58



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Total # Pages: 2 (A - D)
Plus Appendix Pages
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CERTIFICATE OF ANALYSIS KL17018843

Sample Description	Method Analyte Units LOR	ME-MS81 TI ppm 0.5
462848 462863		<0.5 <0.5



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Page: Appendix 1
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CERTIFICATE OF ANALYSIS KL17018843

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02
TOT-ICP06

ME-ICP06

ME-MS81

OA-GRA05



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CERTIFICATE KL17024264

Project: SGM2016-22

P.O. No.: SO221599

This report is for 1 Pulp sample submitted to our lab in Kamloops, BC, Canada on 9-FEB-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

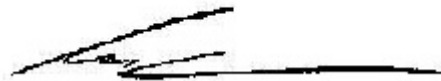
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

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ATTN: ALS MINERALS

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Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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 Plus Appendix Pages
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Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL17024264

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2
459580		556	15.4	20	0.46	2.02	1.18	0.53	16.9	1.86	3.0	0.41	6.3	0.25	1.9
															9.1



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 Plus Appendix Pages
 Finalized Date: 28-FEB-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL17024264

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	Y	Yb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
459580		0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1	0.5	0.03
		2.17	23.6	2.09	1	207	0.2	0.31	0.80	0.20	0.47	61	3	11.9	1.49
															99



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Page: 2 - C
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
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Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL17024264

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
459580		66.7	15.65	4.93	1.90	1.97	3.96	1.62	<0.01	0.33	0.29	0.08	0.02	0.06	2.29	99.80



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Page: 2 - D
Total # Pages: 2 (A - D)
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Finalized Date: 28-FEB-2017
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CERTIFICATE OF ANALYSIS KL17024264

Sample Description	Method Analyte Units LOR	ME-MS81 TI ppm 0.5
459580		<0.5



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Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL17024264

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02
TOT-ICP06

ME-ICP06

ME-MS81

OA-GRA05



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Plus Appendix Pages
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CERTIFICATE KL17024269

Project: SGM2016-22

P.O. No.: SO221599

This report is for 9 Pulp samples submitted to our lab in Kamloops, BC, Canada on 9-FEB-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

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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.

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL17024269

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2
462725		1385	14.2	10	1.29	2.09	1.35	0.34	23.1	2.12	4.2	0.45	5.7	0.25	2.2
462731		836	16.9	10	0.83	2.25	1.33	0.62	19.8	2.68	3.4	0.44	6.3	0.21	1.8
462741		557	36.3	10	0.16	2.11	1.37	0.34	13.5	2.22	3.6	0.42	15.5	0.39	3.3
462744		778	21.3	30	0.71	3.12	2.00	0.82	19.0	3.17	4.2	0.66	8.3	0.37	2.2
462757		580	20.1	20	0.27	2.31	1.42	0.69	17.3	2.50	4.4	0.48	8.4	0.26	1.8
462758		489	18.7	20	0.23	2.39	1.63	0.72	17.1	2.31	4.3	0.49	7.4	0.27	1.7
462772		614	20.4	10	0.50	2.63	1.64	0.69	16.0	2.58	3.5	0.54	8.9	0.30	2.1
462775		679	18.6	10	0.36	2.03	1.40	0.56	16.0	2.31	3.5	0.45	7.4	0.28	2.2
462804		835	15.8	10	0.38	1.22	0.75	0.45	16.4	1.21	2.9	0.27	7.2	0.18	2.6



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CERTIFICATE OF ANALYSIS KL17024269

Sample Description	Method Analyte Units LOR	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03	ME-MS81 Zr ppm 2
462725		2.11	65.9	2.24	3	60.6	0.1	0.35	0.86	0.21	1.11	109	6	12.9	1.36	145
462731		2.48	44.0	3.07	2	35.0	0.1	0.44	0.81	0.22	2.80	90	8	13.7	1.33	124
462741		4.36	11.2	2.99	<1	127.5	0.4	0.36	6.01	0.27	2.47	13	1	15.3	2.04	72
462744		3.11	24.8	3.33	1	429	0.2	0.53	1.27	0.33	0.96	124	1	19.6	2.11	149
462757		2.67	13.8	2.75	1	456	0.1	0.39	1.02	0.25	0.79	115	1	14.4	1.73	161
462758		2.56	12.2	2.52	1	422	0.1	0.40	1.13	0.24	0.74	106	1	14.7	1.66	162
462772		2.68	21.2	2.96	1	281	0.2	0.43	1.30	0.28	1.02	69	2	17.7	1.88	115
462775		2.52	16.9	2.59	1	365	0.2	0.37	0.92	0.24	0.57	79	2	13.8	1.64	124
462804		1.92	16.5	1.58	1	291	0.2	0.20	1.34	0.14	2.01	36	1	7.8	0.91	85



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 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL17024269

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total		
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
462725		64.3	15.45	7.65	0.64	1.72	0.23	4.40	<0.01	0.45	0.14	0.09	0.01	0.15	4.32	99.55		
462731		53.7	12.80	16.35	0.74	0.67	0.28	3.81	<0.01	0.40	0.02	0.55	<0.01	0.10	9.78	99.20		
462741		78.6	12.75	0.98	1.19	0.27	5.38	1.02	<0.01	0.11	0.03	0.02	0.01	0.06	0.81	101.23		
462744		64.3	15.85	4.97	5.04	2.35	4.08	1.20	<0.01	0.49	0.12	0.10	0.04	0.08	1.66	100.28		
462757		63.3	15.95	5.06	5.25	2.23	3.76	0.87	<0.01	0.47	0.14	0.11	0.05	0.06	2.51	99.76		
462758		64.5	14.80	4.81	5.85	2.03	3.68	0.76	<0.01	0.44	0.22	0.11	0.04	0.05	3.51	100.80		
462772		65.3	14.35	4.32	3.34	1.27	3.82	1.35	<0.01	0.33	0.18	0.08	0.03	0.06	5.10	99.53		
462775		68.4	15.20	4.09	3.86	1.58	4.34	0.99	<0.01	0.39	0.12	0.10	0.04	0.07	2.40	101.58		
462804		72.3	14.75	2.68	2.24	0.78	4.89	1.25	<0.01	0.23	0.12	0.08	0.03	0.09	1.54	100.98		



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 Total # Pages: 2 (A - D)
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 Finalized Date: 28-FEB-2017
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Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL17024269

Sample Description	Method Analyte Units LOR	ME-MS81 TI ppm 0.5
462725		<0.5
462731		<0.5
462741		<0.5
462744		<0.5
462757		<0.5
462758		<0.5
462772		<0.5
462775		<0.5
462804		<0.5



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 28-FEB-2017
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Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL17024269

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02
TOT-ICP06

ME-ICP06

ME-MS81

OA-GRA05



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Page: 1
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CERTIFICATE KL17024277

Project: SGM2016-22

P.O. No.: SO221599

This report is for 3 Pulp samples submitted to our lab in Kamloops, BC, Canada on 9-FEB-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

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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.

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
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Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL17024277

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2
462818		651	18.4	20	0.44	1.47	0.81	0.42	15.9	1.42	2.7	0.27	8.0	0.17	2.2
462828		818	17.3	10	0.27	1.26	0.91	0.45	15.1	1.42	2.6	0.28	7.6	0.18	3.6
462833		653	13.0	10	0.18	1.11	0.70	0.41	15.3	1.27	2.9	0.24	5.6	0.17	2.5



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Page: 2 - B
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 25-FEB-2017
 Account: GIBMIN

Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL17024277

Sample Description	Method Analyte Units LOR	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03	ME-MS81 Zr ppm 2
462818		2.26	15.3	2.02	1	278	0.2	0.23	1.09	0.14	0.50	31	1	8.8	1.07	85
462828		2.21	18.3	1.89	<1	248	0.2	0.24	0.97	0.16	1.12	31	1	8.8	0.98	86
462833		1.69	8.0	1.61	<1	351	0.2	0.20	0.79	0.13	0.32	34	1	6.9	0.90	98



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Page: 2 - C
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 25-FEB-2017
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CERTIFICATE OF ANALYSIS KL17024277

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
462818		72.7	14.70	2.68	2.15	0.75	4.75	1.22	<0.01	0.21	0.14	0.07	0.03	0.07	1.50	100.97
462828		72.2	14.75	2.59	2.57	0.76	4.75	1.36	<0.01	0.22	0.11	0.09	0.03	0.09	1.67	101.19
462833		71.8	15.00	2.67	3.16	0.85	4.76	0.65	<0.01	0.24	0.11	0.09	0.04	0.07	1.36	100.80



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Page: 2 - D
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 25-FEB-2017
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Project: SGM2016-22

CERTIFICATE OF ANALYSIS KL17024277

Sample Description	Method Analyte Units LOR	ME-MS81 TI ppm 0.5
462818		<0.5
462828		<0.5
462833		<0.5



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 25-FEB-2017
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CERTIFICATE OF ANALYSIS KL17024277

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02
TOT-ICP06

ME-ICP06

ME-MS81

OA-GRA05



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Page: 1
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CERTIFICATE KL17006356

Project: SGM2016-23

P.O. No.: S0218733

This report is for 170 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 12-JAN-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Mo-OG46	Ore Grade Mo - Aqua Regia	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **GIBRALTAR MINES LTD.**
ATTN: ALS MINERALS

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

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

Signature:

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Page: 2 - A
Total # Pages: 6 (A - D)
Plus Appendix Pages
Finalized Date: 20-JAN-2017
Account: GIBMIN

Project: SGM2016-23

CERTIFICATE OF ANALYSIS KL17006356

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
462864		6.75	0.08	2.06	0.4	<0.2	<10	280	0.13	0.15	2.82	5.11	11.80	11.9	3	0.14
462865		6.76	0.11	1.73	0.3	<0.2	<10	50	0.12	0.05	2.03	1.58	7.63	12.6	3	0.10
462866		7.11	0.05	2.36	0.2	<0.2	<10	30	0.11	0.07	2.58	2.53	10.20	10.4	2	0.13
462867		6.94	0.05	1.77	0.2	<0.2	<10	50	0.10	0.09	3.39	2.40	9.05	12.0	3	0.12
462868		7.78	0.09	1.41	0.5	<0.2	<10	70	0.12	0.04	1.47	0.14	4.88	7.9	3	0.09
462869		7.02	0.02	1.26	0.1	<0.2	<10	80	0.12	0.02	3.63	0.21	11.45	7.7	2	0.07
462870		0.04	0.65	1.74	6.2	0.3	10	110	0.25	0.12	0.91	0.18	10.05	11.8	33	0.47
462871		7.05	0.12	1.17	0.3	<0.2	<10	100	0.10	0.02	1.32	0.08	7.67	8.1	5	0.05
462872		6.87	0.08	1.16	0.2	<0.2	<10	140	0.15	0.01	0.64	0.02	8.51	7.8	6	0.69
462873		7.04	0.04	1.29	0.2	<0.2	<10	110	0.11	0.01	1.16	0.03	8.59	9.0	4	0.16
462874		6.91	0.04	1.41	0.4	<0.2	<10	90	0.08	0.02	2.03	0.75	9.10	8.7	4	0.06
462875		7.25	1.87	0.54	0.1	<0.2	<10	60	0.07	0.15	2.09	0.58	3.56	10.2	6	0.06
462876		6.55	0.12	0.63	0.5	<0.2	<10	80	0.09	0.06	1.41	5.68	5.54	6.9	4	0.07
462877		3.76	0.01	0.41	0.2	<0.2	<10	60	0.07	0.02	1.84	0.16	5.19	1.4	3	0.05
462878		3.51	0.02	1.23	0.3	<0.2	<10	80	0.09	0.02	2.02	0.35	5.09	8.4	3	0.07
462879		3.59	0.06	1.22	0.4	<0.2	<10	90	0.09	0.03	2.27	0.86	8.44	9.4	4	0.08
462880		<0.02	0.08	1.21	0.3	<0.2	<10	90	0.11	0.03	2.24	0.92	8.34	9.5	4	0.08
462881		3.96	0.02	1.16	0.2	<0.2	<10	90	0.09	<0.01	0.95	0.02	5.92	8.0	5	0.07
462882		8.07	0.04	1.11	0.2	<0.2	<10	110	0.11	0.01	1.06	0.02	8.78	7.3	6	0.31
462883		7.19	0.03	1.37	0.2	<0.2	<10	220	0.17	<0.01	0.85	0.01	8.38	8.9	7	1.11
462884		7.02	0.30	1.18	0.3	<0.2	<10	110	0.12	0.04	1.19	1.39	7.14	8.4	5	0.09
462885		7.51	4.29	1.29	0.5	<0.2	<10	80	0.11	0.56	0.54	1.34	6.98	9.3	2	0.09
462886		6.38	0.47	1.28	<0.1	<0.2	<10	110	0.10	0.07	1.13	0.80	5.37	8.7	4	0.07
462887		7.21	0.04	1.33	0.3	<0.2	<10	130	0.12	0.01	0.89	1.60	5.60	9.2	6	0.15
462888		7.83	0.25	1.47	0.3	<0.2	<10	90	0.11	0.03	0.51	6.47	4.77	10.7	5	<0.05
462889		7.82	0.45	1.22	0.2	<0.2	<10	120	0.09	0.05	0.45	7.44	3.91	9.0	5	0.05
462890		0.04	2.77	1.74	27.9	0.3	10	60	0.35	1.04	0.87	2.35	10.45	11.8	30	3.91
462891		3.44	0.03	0.37	0.3	<0.2	<10	120	0.07	0.01	0.73	0.85	5.10	1.2	4	<0.05
462892		3.50	0.12	0.54	1.4	<0.2	<10	80	0.10	0.01	0.60	1.11	4.20	4.2	5	<0.05
462893		7.55	0.57	0.44	0.3	<0.2	<10	40	0.08	0.72	0.76	0.53	8.29	24.2	2	0.06
462894		7.91	1.53	0.45	0.2	<0.2	<10	40	0.08	1.07	0.25	0.24	12.25	17.3	4	0.09
462895		7.35	1.80	0.74	0.5	<0.2	<10	70	0.09	0.63	0.67	0.67	13.35	6.2	3	0.09
462896		1.04	0.12	0.34	0.2	<0.2	<10	30	0.49	0.76	0.38	0.09	110.5	0.9	6	0.50
462897		6.82	0.02	0.71	0.3	<0.2	<10	90	0.09	0.03	1.39	0.04	10.00	3.6	3	0.06
462898		6.76	0.05	0.71	0.2	<0.2	<10	90	0.11	0.01	1.26	0.02	7.75	3.5	4	0.09
462899		7.72	0.05	0.69	0.3	<0.2	<10	110	0.11	0.02	0.87	0.02	10.90	3.6	4	0.24
462900		<0.02	0.06	0.71	0.3	<0.2	<10	110	0.13	0.03	0.88	0.02	10.15	3.4	5	0.23
462901		7.04	0.02	0.85	0.2	<0.2	<10	100	0.11	0.01	1.17	0.03	9.75	4.2	3	0.17
462902		6.76	0.02	0.91	<0.1	<0.2	<10	90	0.13	0.02	1.50	0.04	9.98	5.5	3	0.23
462903		6.95	0.03	0.74	0.1	<0.2	<10	100	0.14	0.02	1.25	0.04	7.36	4.1	3	0.06



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Page: 2 - B
Total # Pages: 6 (A - D)
Plus Appendix Pages
Finalized Date: 20-JAN-2017
Account: GIBMIN

Project: SGM2016-23

CERTIFICATE OF ANALYSIS KL17006356

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
462864		56.0	3.04	5.61	0.06	<0.02	0.06	0.258	0.12	4.4	8.6	1.48	1500	0.93	0.03
462865		43.6	2.36	4.95	0.05	<0.02	0.01	0.048	0.06	2.8	7.2	1.22	1360	0.53	0.04
462866		37.6	3.14	7.49	0.06	<0.02	0.02	0.143	0.06	3.9	11.7	1.68	2210	1.19	0.05
462867		18.2	3.06	5.47	0.05	<0.02	0.01	0.211	0.07	3.4	7.9	1.12	2110	0.35	0.05
462868		61.5	2.27	4.46	<0.05	<0.02	<0.01	0.025	0.10	1.8	5.8	0.85	884	0.27	0.04
462869		7.3	2.11	3.93	<0.05	<0.02	0.01	0.023	0.12	4.8	4.8	0.74	1400	1.11	0.04
462870		4840	3.76	5.89	0.09	0.25	0.04	0.055	0.14	4.7	11.7	0.82	464	205	0.10
462871		92.7	1.68	3.77	<0.05	0.02	0.01	0.007	0.13	2.6	4.7	0.74	574	0.42	0.05
462872		58.8	1.47	3.30	0.05	0.04	0.01	0.007	0.30	2.8	4.6	0.73	391	0.72	0.04
462873		27.8	1.80	4.03	<0.05	0.03	0.01	0.007	0.15	3.0	5.7	0.86	560	0.57	0.05
462874		24.2	2.22	4.62	<0.05	<0.02	0.01	0.035	0.12	3.5	6.0	0.89	976	0.35	0.04
462875		2250	2.06	1.80	<0.05	<0.02	0.01	0.138	0.09	1.4	2.0	0.58	873	0.24	0.04
462876		103.0	1.53	1.88	<0.05	<0.02	0.05	0.688	0.15	2.4	1.9	0.31	722	0.34	0.05
462877		9.3	0.49	1.26	<0.05	<0.02	0.01	0.011	0.11	2.4	0.9	0.09	340	0.62	0.07
462878		17.2	2.04	4.18	<0.05	<0.02	0.01	0.059	0.13	2.0	5.5	0.69	861	0.32	0.05
462879		63.8	2.03	3.98	<0.05	0.02	0.01	0.077	0.12	3.1	5.8	0.71	1020	0.41	0.05
462880		70.9	2.08	3.97	<0.05	0.02	0.01	0.082	0.12	3.0	5.8	0.70	1020	0.69	0.05
462881		13.2	1.59	3.56	<0.05	0.04	<0.01	0.006	0.12	1.9	4.7	0.80	595	0.14	0.05
462882		18.7	1.43	3.45	<0.05	0.05	<0.01	0.006	0.20	3.0	4.7	0.73	443	0.17	0.06
462883		18.0	1.88	3.99	0.05	0.06	0.01	0.007	0.48	2.9	5.2	0.91	492	0.14	0.06
462884		332	1.97	3.82	0.05	0.03	0.01	0.110	0.16	2.6	3.8	0.75	641	0.13	0.04
462885		5780	4.26	4.08	<0.05	<0.02	0.02	0.647	0.21	2.8	4.2	0.75	923	1.68	0.02
462886		588	2.10	3.91	<0.05	0.02	0.01	0.107	0.13	1.8	4.0	0.85	813	0.39	0.05
462887		22.5	1.90	3.76	0.05	0.04	0.01	0.109	0.15	1.9	4.1	0.94	730	1.21	0.05
462888		253	2.38	4.13	<0.05	0.03	0.02	0.437	0.11	1.6	4.8	0.99	927	2.14	0.04
462889		457	2.28	3.34	<0.05	<0.02	0.04	0.702	0.13	1.5	4.7	0.72	971	8.80	0.04
462890		2610	4.69	4.83	0.06	0.03	0.05	0.151	0.29	5.3	16.1	0.59	768	218	0.05
462891		13.4	0.40	1.24	<0.05	<0.02	0.01	0.065	0.12	2.2	0.7	0.09	259	5.26	0.05
462892		31.9	0.73	1.74	<0.05	0.02	0.01	0.054	0.10	1.5	1.9	0.22	335	0.57	0.04
462893		463	5.65	1.42	<0.05	<0.02	0.02	0.075	0.14	3.4	1.7	0.14	441	7.69	0.03
462894		2360	5.96	1.21	<0.05	<0.02	0.01	0.111	0.25	5.1	0.6	0.09	257	5.79	0.02
462895		7120	4.24	2.12	<0.05	<0.02	0.01	0.169	0.25	5.5	2.1	0.24	627	1.33	0.03
462896		16.1	1.12	2.64	0.10	0.23	<0.01	0.038	0.19	60.9	7.3	0.12	284	1.05	0.07
462897		12.7	1.08	2.39	<0.05	<0.02	<0.01	0.009	0.14	4.0	3.0	0.36	539	1.11	0.04
462898		43.5	1.00	2.34	<0.05	0.02	<0.01	0.006	0.15	2.8	3.0	0.35	424	2.29	0.04
462899		19.6	0.97	2.47	<0.05	0.02	<0.01	<0.005	0.20	4.0	3.3	0.33	395	0.60	0.05
462900		30.0	0.96	2.39	<0.05	0.02	<0.01	0.005	0.21	3.6	3.6	0.34	396	0.96	0.05
462901		6.5	1.32	2.90	<0.05	0.03	<0.01	0.007	0.17	2.9	4.0	0.48	557	0.18	0.05
462902		21.9	1.64	3.18	<0.05	0.03	<0.01	0.009	0.16	3.3	4.3	0.57	690	2.45	0.04
462903		37.3	1.05	2.34	<0.05	<0.02	<0.01	0.007	0.14	2.7	3.4	0.41	484	0.51	0.05



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Page: 2 - C
Total # Pages: 6 (A - D)
Plus Appendix Pages
Finalized Date: 20-JAN-2017
Account: GIBMIN

Project: SGM2016-23

CERTIFICATE OF ANALYSIS KL17006356

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
462864		9.5	460	3.0	2.0	0.001	0.37	0.07	3.2	0.2	<0.2	72.8	<0.01	0.09	0.7
462865		5.3	500	1.2	1.1	0.001	0.21	0.06	2.0	<0.2	<0.2	68.8	<0.01	0.08	0.8
462866		5.4	470	1.4	1.0	0.001	0.11	0.05	3.9	<0.2	<0.2	84.0	<0.01	0.05	1.1
462867		4.7	420	0.9	1.2	<0.001	0.32	<0.05	2.9	0.2	<0.2	95.2	<0.01	0.10	0.4
462868		4.4	380	0.9	1.6	<0.001	0.20	<0.05	1.6	0.2	<0.2	55.7	<0.01	0.05	0.3
462869		3.6	370	1.0	1.8	<0.001	0.05	<0.05	2.0	0.2	<0.2	90.3	<0.01	0.01	0.5
462870		34.7	590	4.2	5.5	0.108	0.68	0.86	6.0	1.2	1.5	44.4	<0.01	0.06	1.0
462871		3.5	370	0.6	2.2	<0.001	0.05	0.05	1.4	0.3	<0.2	55.3	<0.01	0.01	0.4
462872		3.6	400	0.6	8.5	<0.001	0.03	0.10	1.5	0.3	<0.2	44.0	<0.01	0.01	0.5
462873		4.1	400	0.7	3.3	<0.001	0.04	0.06	1.8	<0.2	<0.2	52.6	<0.01	0.01	0.6
462874		4.1	420	0.7	1.9	<0.001	0.11	<0.05	2.1	0.3	<0.2	58.6	<0.01	0.05	0.5
462875		3.2	250	0.5	1.5	<0.001	0.57	<0.05	1.4	<0.2	<0.2	60.6	<0.01	0.26	0.3
462876		1.6	240	0.6	2.3	<0.001	0.51	<0.05	0.4	0.2	<0.2	42.2	<0.01	0.08	0.8
462877		0.7	200	0.6	1.6	<0.001	0.06	<0.05	0.2	<0.2	<0.2	53.3	<0.01	0.01	0.7
462878		3.4	380	0.7	2.0	0.001	0.16	<0.05	2.5	<0.2	<0.2	58.7	<0.01	0.03	0.4
462879		3.5	360	0.8	1.8	<0.001	0.24	<0.05	2.2	0.3	<0.2	59.8	<0.01	0.05	0.4
462880		3.5	360	0.8	1.9	<0.001	0.25	<0.05	2.2	0.2	<0.2	60.1	<0.01	0.06	0.4
462881		3.8	410	0.5	2.0	<0.001	0.04	0.06	1.5	<0.2	<0.2	47.0	<0.01	<0.01	0.3
462882		3.5	380	0.6	5.2	<0.001	0.04	0.06	1.5	0.3	<0.2	52.5	<0.01	0.01	0.4
462883		4.3	460	0.6	14.5	<0.001	0.02	0.07	1.7	0.2	0.2	47.8	<0.01	<0.01	0.4
462884		3.7	400	0.6	2.8	<0.001	0.44	<0.05	1.3	0.2	<0.2	41.9	<0.01	0.06	0.7
462885		3.6	390	0.3	3.0	<0.001	2.81	<0.05	1.2	0.3	0.4	14.6	<0.01	0.47	0.6
462886		3.9	360	0.6	2.2	<0.001	0.50	0.05	1.5	<0.2	0.2	41.6	<0.01	0.10	0.3
462887		3.8	410	0.5	3.3	<0.001	0.15	0.06	1.6	0.2	0.2	44.6	<0.01	0.02	0.2
462888		4.1	400	0.4	1.6	<0.001	0.58	0.06	1.3	<0.2	0.2	35.4	<0.01	0.08	0.3
462889		3.1	360	0.5	1.6	0.001	0.84	<0.05	1.0	<0.2	<0.2	27.0	<0.01	0.10	0.4
462890		21.9	750	78.7	15.3	0.226	2.30	1.68	2.6	4.4	0.6	57.6	<0.01	0.74	3.9
462891		0.7	140	0.7	1.5	0.002	0.06	0.05	0.4	<0.2	<0.2	33.0	<0.01	0.01	1.2
462892		1.5	210	1.2	1.3	<0.001	0.16	0.08	0.5	0.2	<0.2	31.0	<0.01	0.08	1.1
462893		1.6	160	0.6	1.9	<0.001	6.09	<0.05	0.4	0.9	<0.2	26.9	<0.01	0.40	0.9
462894		2.6	210	0.5	3.4	0.001	6.73	<0.05	0.4	0.7	0.2	11.9	<0.01	0.57	1.0
462895		2.1	300	1.0	3.8	<0.001	4.21	0.08	0.8	0.6	0.5	23.9	<0.01	0.52	1.1
462896		1.3	160	7.0	11.3	<0.001	0.04	<0.05	1.0	0.5	0.6	16.5	<0.01	0.01	29.7
462897		1.7	300	1.1	2.2	0.001	0.04	<0.05	0.9	<0.2	<0.2	51.7	<0.01	0.01	1.0
462898		1.6	340	1.0	2.8	0.002	0.02	<0.05	0.8	0.2	<0.2	55.7	<0.01	0.01	0.9
462899		1.6	340	0.7	5.1	<0.001	0.02	0.05	0.8	0.2	<0.2	51.4	<0.01	<0.01	0.6
462900		4.7	330	3.2	5.0	0.001	0.02	0.06	0.8	0.2	<0.2	49.3	<0.01	<0.01	0.6
462901		2.3	400	1.1	3.7	<0.001	0.04	0.05	0.9	0.2	0.2	47.5	<0.01	<0.01	0.7
462902		2.7	390	0.9	3.8	0.002	0.12	<0.05	1.2	0.2	0.2	51.6	<0.01	0.01	0.7
462903		2.2	320	0.8	2.3	<0.001	0.10	<0.05	0.8	0.2	<0.2	44.5	<0.01	0.01	0.6



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Page: 2 - D
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 20-JAN-2017
 Account: GIBMIN

Project: SGM2016-23

CERTIFICATE OF ANALYSIS KL17006356

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46	Mo-OG46	Au-AA23
		Tl	U	V	W	Y	Zn	Zr	Cu	Mo	Au
		ppm 0.02	ppm 0.05	ppm 1	ppm 0.05	ppm 0.05	ppm 2	ppm 0.5	% 0.001	% 0.001	ppm 0.005
462864		<0.02	0.19	29	0.18	5.75	2000	<0.5			
462865		<0.02	0.19	26	0.14	4.37	552	<0.5			
462866		<0.02	0.41	38	0.12	6.70	977	<0.5			
462867		<0.02	0.13	23	0.26	7.39	668	<0.5			
462868		<0.02	0.24	16	0.12	4.20	287	<0.5			
462869		<0.02	0.27	14	0.09	8.67	232	<0.5			
462870		0.07	0.32	65	0.37	8.23	50	6.8	0.459	0.023	0.588
462871		<0.02	0.18	14	<0.05	6.22	102	<0.5			
462872		0.05	0.19	16	<0.05	6.51	51	<0.5			
462873		0.02	0.23	17	<0.05	7.26	72	<0.5			
462874		<0.02	0.14	17	<0.05	8.06	320	<0.5			
462875		<0.02	0.16	7	0.05	3.96	174	<0.5	0.210		
462876		<0.02	0.40	5	0.10	2.92	1850	<0.5			
462877		<0.02	0.17	2	<0.05	2.36	51	<0.5			
462878		<0.02	0.18	18	<0.05	4.75	320	<0.5			
462879		<0.02	0.19	18	<0.05	6.27	398	<0.5			
462880		<0.02	0.16	18	<0.05	6.21	404	<0.5			
462881		<0.02	0.19	15	<0.05	6.53	87	<0.5			
462882		0.03	0.20	15	<0.05	6.60	53	<0.5			
462883		0.09	0.23	28	<0.05	6.69	64	0.5			
462884		0.02	0.28	14	<0.05	5.59	600	<0.5			
462885		<0.02	1.17	10	0.16	5.02	551	<0.5	0.558		
462886		<0.02	0.28	14	<0.05	5.15	425	<0.5			
462887		0.02	0.13	19	<0.05	5.57	785	<0.5			
462888		<0.02	0.16	17	0.06	4.95	2510	<0.5			
462889		<0.02	0.15	11	0.08	3.11	2960	<0.5			
462890		0.26	0.78	32	1.37	5.13	463	0.9	0.248	0.026	0.236
462891		<0.02	0.41	2	<0.05	5.04	331	<0.5			
462892		<0.02	5.97	3	<0.05	9.26	453	<0.5			
462893		<0.02	0.58	3	0.09	4.43	221	<0.5			
462894		0.02	1.10	3	0.32	3.06	60	<0.5	0.233		
462895		0.02	2.61	5	0.42	4.96	204	<0.5	0.685		
462896		0.06	3.36	10	0.25	15.40	30	5.7			
462897		<0.02	0.18	6	<0.05	4.44	72	<0.5			
462898		<0.02	0.23	6	<0.05	5.93	43	<0.5			
462899		0.03	0.31	7	<0.05	7.19	38	<0.5			
462900		0.03	0.32	7	<0.05	7.19	42	<0.5			
462901		0.02	0.21	11	<0.05	7.95	56	<0.5			
462902		0.03	0.28	16	<0.05	7.80	62	<0.5			
462903		<0.02	0.76	7	<0.05	6.24	54	<0.5			



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Page: 3 - A
Total # Pages: 6 (A - D)
Plus Appendix Pages
Finalized Date: 20-JAN-2017
Account: GIBMIN

Project: SGM2016-23

CERTIFICATE OF ANALYSIS KL17006356

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
462904		7.43	1.23	0.70	0.2	<0.2	<10	70	0.11	0.19	1.46	0.39	9.35	4.5	2	0.09
462905		7.35	1.47	0.85	0.5	<0.2	<10	90	0.12	0.33	0.80	1.77	8.79	4.5	4	0.06
462906		7.02	0.02	0.68	0.4	<0.2	<10	150	0.13	0.01	0.50	0.12	5.86	3.9	4	0.46
462907		6.90	0.02	0.65	0.5	<0.2	<10	130	0.12	0.02	0.84	0.02	5.85	3.1	4	0.39
462908		7.33	0.07	0.67	0.4	<0.2	<10	120	0.10	0.02	0.76	1.92	5.57	3.6	4	0.09
462909		6.56	0.03	0.69	0.3	<0.2	<10	110	0.12	0.01	0.46	0.55	5.95	4.2	6	0.19
462910		0.04	0.95	1.49	6.3	0.2	<10	120	0.29	0.17	0.91	0.39	13.50	11.5	28	0.42
462911		7.22	0.02	0.83	0.5	<0.2	<10	160	0.13	0.01	0.46	0.57	5.69	4.0	5	0.56
462912		3.53	0.01	0.77	0.3	<0.2	<10	150	0.10	0.01	0.42	0.01	6.55	3.9	6	0.50
462913		3.55	0.01	0.76	0.2	<0.2	<10	150	0.14	<0.01	0.52	<0.01	5.46	3.6	7	0.42
462914		8.07	0.02	0.74	0.4	<0.2	<10	150	0.12	<0.01	0.47	<0.01	6.23	3.9	6	0.46
462915		7.46	0.02	0.74	0.4	<0.2	<10	90	0.12	0.01	0.91	0.02	8.70	3.9	4	0.09
462916		7.41	0.04	0.64	0.5	<0.2	<10	110	0.09	0.01	0.59	0.37	6.27	3.2	5	0.08
462917		7.38	0.05	0.81	0.3	<0.2	<10	100	0.10	0.04	0.99	0.40	7.76	3.3	4	0.07
462918		7.12	0.02	0.51	0.5	<0.2	<10	100	0.09	0.01	0.86	0.18	3.29	2.0	5	0.09
462919		6.91	0.03	0.48	0.8	<0.2	<10	110	0.09	0.01	0.96	0.06	9.49	2.9	6	0.05
462920		<0.02	0.03	0.47	0.6	<0.2	<10	110	0.10	0.01	0.94	0.05	11.40	2.6	5	0.05
462921		6.89	0.02	0.60	0.1	<0.2	<10	70	0.11	0.01	1.37	0.04	4.39	2.7	3	0.05
462922		7.56	0.03	0.46	0.3	<0.2	<10	110	0.09	0.01	1.01	0.14	4.33	3.1	4	<0.05
462923		7.60	0.02	0.49	0.1	<0.2	<10	110	0.09	0.01	0.74	0.09	5.60	1.7	4	0.07
462924		6.66	0.03	0.35	0.2	<0.2	<10	110	0.07	0.01	1.29	0.04	4.37	2.1	7	0.14
462925		6.97	0.10	0.39	0.2	<0.2	<10	90	0.08	0.01	0.62	1.19	4.84	2.2	8	0.16
462926		7.18	0.10	0.43	0.2	<0.2	<10	100	0.08	0.01	0.72	1.30	3.33	2.0	6	0.20
462927		7.45	0.02	0.39	0.2	<0.2	<10	80	0.08	0.01	0.51	0.03	3.75	2.2	10	0.10
462928		7.30	0.12	0.42	0.4	<0.2	<10	60	0.07	0.05	0.78	0.08	6.13	2.2	6	0.16
462929		7.21	0.01	0.42	0.3	<0.2	<10	80	0.08	<0.01	0.52	<0.01	3.50	1.9	8	0.17
462930		0.04	0.50	2.17	15.8	<0.2	20	60	0.35	0.46	1.20	0.20	9.92	52.5	269	1.31
462931		6.68	0.01	0.36	0.3	<0.2	<10	90	0.07	<0.01	0.52	<0.01	5.47	1.8	7	0.08
462932		6.89	0.01	0.48	0.2	<0.2	<10	100	0.11	<0.01	0.94	0.01	4.45	2.6	8	0.20
462933		6.10	0.15	1.51	0.4	<0.2	<10	50	0.08	0.02	1.46	0.63	5.44	10.1	9	0.05
462934		5.29	2.92	1.47	1.2	<0.2	<10	50	0.07	0.23	0.46	19.20	4.14	10.8	9	0.07
462935		5.81	1.05	1.26	0.9	<0.2	<10	30	0.07	0.18	1.45	8.08	6.53	9.9	7	0.09
462936		6.84	0.12	1.06	0.5	<0.2	<10	40	0.09	0.02	1.16	1.04	4.72	7.9	9	0.06
462937		3.29	0.05	1.14	0.3	<0.2	<10	30	0.10	0.01	1.22	0.07	5.14	8.6	10	0.05
462938		3.37	0.16	1.12	0.3	<0.2	<10	40	0.08	0.01	1.50	0.29	5.95	8.4	10	0.05
462939		5.86	0.25	1.29	0.8	<0.2	<10	40	0.09	0.04	0.63	4.01	6.34	10.1	10	0.05
462940		<0.02	0.27	1.28	1.0	<0.2	<10	40	0.09	0.04	0.63	3.76	6.68	10.2	12	0.05
462941		6.55	0.61	1.34	0.5	<0.2	<10	40	0.08	0.12	0.70	6.00	5.10	10.9	7	0.10
462942		4.86	0.25	1.23	0.2	<0.2	<10	30	0.08	0.02	0.30	2.18	6.11	9.4	9	0.06
462943		6.14	1.01	1.37	0.7	<0.2	<10	30	0.09	0.11	0.78	1.91	5.19	10.1	9	0.06



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Page: 3 - B
Total # Pages: 6 (A - D)
Plus Appendix Pages
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Project: SGM2016-23

CERTIFICATE OF ANALYSIS KL17006356

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
462904		3350	1.64	2.24	<0.05	<0.02	0.01	0.083	0.15	3.4	2.9	0.38	698	0.43	0.04
462905		3360	2.03	2.69	<0.05	<0.02	0.02	0.250	0.17	3.3	3.5	0.43	635	1.47	0.04
462906		15.8	0.84	2.11	<0.05	0.03	<0.01	0.007	0.35	2.0	2.9	0.32	243	0.18	0.06
462907		16.3	0.90	2.05	<0.05	<0.01	<0.01	<0.005	0.29	2.1	2.6	0.31	328	0.28	0.05
462908		45.5	1.08	2.09	<0.05	<0.02	0.01	0.120	0.16	2.0	2.1	0.31	419	0.21	0.05
462909		3.5	1.05	2.05	<0.05	0.02	<0.01	0.016	0.22	1.9	2.2	0.38	293	0.77	0.05
462910		3080	3.07	5.57	0.08	0.22	0.02	0.053	0.19	6.9	11.1	0.74	436	229	0.09
462911		8.8	1.15	2.35	<0.05	0.03	<0.01	0.023	0.46	1.9	3.1	0.38	289	0.90	0.06
462912		2.2	0.97	2.26	<0.05	0.02	<0.01	<0.005	0.42	2.1	2.8	0.35	243	0.21	0.06
462913		1.6	0.98	2.34	<0.05	0.02	<0.01	<0.005	0.38	1.8	2.8	0.32	246	0.61	0.06
462914		2.3	0.89	2.11	<0.05	0.03	<0.01	<0.005	0.35	2.1	2.6	0.35	239	0.19	0.06
462915		1.5	1.08	2.37	<0.05	0.03	<0.01	0.005	0.14	2.9	2.3	0.37	488	0.63	0.05
462916		4.4	0.90	2.05	<0.05	<0.02	<0.01	0.020	0.15	2.3	2.0	0.31	340	0.69	0.06
462917		40.0	1.20	2.41	<0.05	<0.02	<0.01	0.039	0.15	3.0	2.9	0.42	593	1.53	0.05
462918		1.8	0.72	1.74	<0.05	<0.02	<0.01	<0.005	0.15	1.4	1.7	0.22	359	0.70	0.05
462919		3.2	0.67	1.54	<0.05	<0.02	<0.01	<0.005	0.14	4.5	1.3	0.17	331	0.85	0.07
462920		2.8	0.64	1.66	<0.05	<0.02	<0.01	<0.005	0.14	5.0	1.4	0.16	321	0.74	0.07
462921		1.5	0.78	2.04	<0.05	<0.02	<0.01	<0.005	0.12	1.8	2.5	0.30	525	27.6	0.05
462922		2.1	0.57	1.49	<0.05	<0.02	<0.01	<0.005	0.16	1.8	1.4	0.17	354	2.22	0.05
462923		2.4	0.53	1.57	<0.05	<0.02	<0.01	<0.005	0.20	2.3	1.5	0.17	349	0.44	0.06
462924		4.6	0.58	1.13	<0.05	<0.02	<0.01	<0.005	0.21	1.9	1.4	0.13	422	40.0	0.04
462925		43.5	0.64	1.32	<0.05	<0.02	0.01	0.047	0.21	2.1	1.5	0.16	293	1.26	0.04
462926		49.2	0.68	1.32	<0.05	<0.02	0.01	0.094	0.27	1.4	1.7	0.19	362	1.26	0.05
462927		2.5	0.62	1.38	<0.05	<0.02	<0.01	0.005	0.17	1.6	1.5	0.19	293	1.07	0.04
462928		167.0	0.75	1.45	<0.05	<0.02	<0.01	0.017	0.18	2.5	1.8	0.21	408	0.59	0.03
462929		5.5	0.65	1.44	<0.05	<0.02	<0.01	<0.005	0.23	1.5	1.7	0.20	203	0.66	0.05
462930		854	5.71	5.83	0.08	0.03	0.01	0.023	0.70	4.2	4.6	5.69	468	91.8	0.11
462931		1.7	0.59	1.36	<0.05	<0.02	<0.01	<0.005	0.17	2.4	1.6	0.19	204	0.61	0.04
462932		1.1	0.71	1.76	<0.05	<0.02	<0.01	<0.005	0.25	1.9	2.0	0.28	365	0.59	0.04
462933		49.3	2.19	4.11	<0.05	<0.02	<0.01	0.009	0.07	2.3	9.1	1.09	1770	1.43	0.04
462934		921	2.90	3.37	<0.05	<0.02	0.04	0.488	0.15	1.8	8.8	0.90	1590	17.20	0.02
462935		222	2.13	3.02	<0.05	<0.02	0.04	0.190	0.11	2.7	7.8	0.82	1740	3.48	0.02
462936		35.9	1.53	2.77	0.07	0.03	<0.01	0.009	0.08	2.1	5.4	0.76	803	1.44	0.03
462937		22.2	1.61	3.07	0.08	0.04	<0.01	<0.005	0.07	2.2	5.5	0.88	666	0.99	0.02
462938		82.2	1.76	3.03	0.07	0.03	<0.01	0.006	0.10	2.6	5.5	0.83	745	0.88	0.02
462939		91.2	1.91	3.24	0.09	0.04	0.02	0.044	0.10	2.6	6.6	0.95	556	0.64	0.02
462940		90.3	1.91	3.26	0.09	0.04	0.02	0.047	0.10	2.7	6.7	0.95	550	0.58	0.02
462941		100.5	2.27	3.43	0.08	<0.02	0.03	0.207	0.13	2.3	7.0	0.89	813	0.50	0.02
462942		62.4	1.81	3.15	0.08	0.02	0.01	0.040	0.08	2.6	6.1	0.87	501	0.56	0.02
462943		415	2.23	3.73	0.08	<0.02	<0.01	0.045	0.11	2.2	7.6	0.92	1060	0.85	0.02



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Page: 3 - C
Total # Pages: 6 (A - D)
Plus Appendix Pages
Finalized Date: 20-JAN-2017
Account: GIBMIN

Project: SGM2016-23

CERTIFICATE OF ANALYSIS KL17006356

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
462904		2.2	320	0.9	2.2	<0.001	0.73	<0.05	0.7	0.3	0.3	52.9	<0.01	0.10	0.9
462905		2.4	350	0.8	2.4	<0.001	1.06	<0.05	0.9	0.3	0.3	30.0	<0.01	0.39	0.6
462906		2.1	300	0.6	9.1	<0.001	0.06	0.06	0.9	0.2	0.2	33.3	<0.01	0.01	0.5
462907		1.9	290	0.7	7.5	<0.001	0.06	0.06	0.6	<0.2	<0.2	34.9	<0.01	0.01	0.6
462908		2.1	270	0.8	2.7	<0.001	0.21	0.06	0.6	<0.2	<0.2	31.5	<0.01	0.04	0.4
462909		2.3	320	0.6	4.9	<0.001	0.17	0.06	0.7	<0.2	<0.2	28.2	<0.01	0.03	0.6
462910		25.9	630	9.1	9.8	0.252	0.47	2.57	5.3	1.3	1.1	45.8	<0.01	0.10	1.9
462911		2.4	330	0.7	12.9	0.001	0.11	0.07	0.8	0.2	0.2	31.9	<0.01	0.02	0.6
462912		1.9	350	0.6	12.1	<0.001	0.05	0.07	0.8	0.2	0.2	32.9	<0.01	0.01	0.6
462913		1.9	340	0.7	11.0	0.001	0.04	0.06	0.8	<0.2	<0.2	37.3	<0.01	0.01	0.6
462914		1.9	370	0.5	10.3	<0.001	0.04	0.06	0.7	<0.2	<0.2	34.0	<0.01	<0.01	0.5
462915		1.8	350	0.8	2.6	<0.001	0.10	0.07	0.9	<0.2	<0.2	42.5	<0.01	0.02	0.7
462916		1.7	300	0.7	2.6	<0.001	0.13	0.07	0.7	0.3	<0.2	31.2	<0.01	0.02	0.5
462917		2.3	320	0.8	2.2	<0.001	0.18	0.07	1.0	0.3	<0.2	40.2	<0.01	0.06	0.6
462918		1.1	260	1.0	2.7	<0.001	0.06	0.05	0.6	<0.2	<0.2	31.6	<0.01	0.01	0.5
462919		1.3	220	2.2	1.8	<0.001	0.07	0.05	0.5	<0.2	<0.2	34.1	<0.01	0.02	1.1
462920		1.2	210	1.8	2.0	<0.001	0.07	0.06	0.6	<0.2	<0.2	36.3	<0.01	0.01	1.2
462921		1.3	280	1.1	1.6	0.004	0.06	<0.05	0.8	0.2	<0.2	44.0	<0.01	0.02	0.6
462922		1.0	240	1.0	2.0	<0.001	0.12	<0.05	0.6	<0.2	<0.2	37.5	<0.01	0.02	0.9
462923		1.0	210	1.1	2.9	<0.001	0.08	0.06	0.6	<0.2	<0.2	35.0	<0.01	0.01	1.0
462924		1.1	220	0.9	3.8	0.002	0.09	<0.05	0.4	<0.2	<0.2	39.6	<0.01	0.02	0.7
462925		1.4	230	0.7	4.1	<0.001	0.12	<0.05	0.5	<0.2	<0.2	27.5	<0.01	0.02	0.8
462926		1.1	250	0.6	4.9	<0.001	0.12	0.05	0.5	<0.2	<0.2	25.3	<0.01	0.03	0.7
462927		1.3	220	0.6	3.2	<0.001	0.09	0.05	0.5	<0.2	<0.2	27.3	<0.01	0.01	0.8
462928		1.2	210	0.9	3.7	<0.001	0.12	<0.05	0.5	<0.2	<0.2	31.4	<0.01	0.08	1.0
462929		1.2	260	0.7	4.9	<0.001	0.04	<0.05	0.5	<0.2	<0.2	27.7	<0.01	<0.01	0.7
462930		648	700	5.4	28.2	0.099	3.95	0.80	8.6	3.7	0.4	52.7	<0.01	0.21	0.9
462931		1.4	230	0.6	3.1	<0.001	0.05	<0.05	0.5	<0.2	<0.2	27.5	<0.01	<0.01	0.7
462932		1.4	290	0.8	5.8	<0.001	0.06	<0.05	0.6	<0.2	<0.2	41.8	<0.01	<0.01	0.7
462933		9.4	420	1.0	1.2	<0.001	0.11	0.08	1.5	<0.2	<0.2	39.6	<0.01	0.04	1.1
462934		9.2	370	1.2	2.4	0.001	1.20	0.06	1.1	0.3	<0.2	15.6	<0.01	0.35	1.1
462935		8.9	370	1.5	2.0	<0.001	0.46	0.08	1.5	0.2	<0.2	27.6	<0.01	0.31	1.4
462936		7.7	370	0.9	1.6	<0.001	0.13	0.11	0.9	0.2	<0.2	30.3	<0.01	0.04	1.4
462937		9.5	410	0.5	1.5	<0.001	0.05	0.15	1.2	0.2	<0.2	32.1	<0.01	0.01	0.9
462938		8.5	380	0.6	1.8	<0.001	0.07	0.10	1.1	0.2	<0.2	34.5	<0.01	0.01	1.3
462939		9.5	420	1.0	1.9	<0.001	0.21	0.12	1.2	0.3	<0.2	25.8	<0.01	0.04	1.0
462940		9.9	420	1.0	1.9	<0.001	0.20	0.11	1.2	0.3	<0.2	26.3	<0.01	0.05	0.9
462941		9.3	450	1.8	2.4	<0.001	0.32	<0.05	1.2	0.2	<0.2	21.1	<0.01	0.18	1.1
462942		8.4	410	1.4	1.5	<0.001	0.09	0.07	1.0	0.2	<0.2	18.1	<0.01	0.03	1.6
462943		9.5	380	1.7	2.0	<0.001	0.18	<0.05	1.2	0.2	<0.2	24.2	<0.01	0.06	1.1



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Page: 3 - D
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 20-JAN-2017
 Account: GIBMIN

Project: SGM2016-23

CERTIFICATE OF ANALYSIS KL17006356

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46	Mo-OG46	Au-AA23
		TI	U	V	W	Y	Zn	Zr	Cu	Mo	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001	0.005
462904		<0.02	1.68	6	<0.05	6.83	161	<0.5	0.312		
462905		<0.02	1.09	7	0.10	5.72	743	<0.5	0.317		
462906		0.05	0.35	8	<0.05	4.84	81	<0.5			
462907		0.05	0.57	9	<0.05	5.27	71	<0.5			
462908		<0.02	0.35	6	0.07	4.80	918	<0.5			
462909		0.03	0.39	7	<0.05	5.62	286	<0.5			
462910		0.09	0.43	60	14.20	8.01	56	6.1	0.314	0.028	0.306
462911		0.07	0.46	9	0.07	5.72	293	<0.5			
462912		0.07	0.44	9	<0.05	5.39	41	<0.5			
462913		0.06	0.67	9	<0.05	5.09	39	<0.5			
462914		0.06	0.34	8	<0.05	4.84	33	<0.5			
462915		<0.02	0.40	7	<0.05	6.62	49	<0.5			
462916		<0.02	0.30	5	0.06	4.96	178	<0.5			
462917		<0.02	0.93	6	<0.05	5.22	211	<0.5			
462918		<0.02	0.27	4	<0.05	3.05	96	<0.5			
462919		<0.02	0.39	3	<0.05	4.42	45	<0.5			
462920		<0.02	0.47	3	<0.05	4.20	43	<0.5			
462921		<0.02	0.34	4	<0.05	4.23	48	<0.5			
462922		<0.02	0.45	3	<0.05	4.73	71	<0.5			
462923		0.02	0.50	3	<0.05	4.01	75	<0.5			
462924		0.02	0.20	2	<0.05	3.51	34	<0.5			
462925		0.03	0.57	3	<0.05	3.19	502	<0.5			
462926		0.03	0.15	3	<0.05	2.98	585	<0.5			
462927		0.02	0.12	3	<0.05	3.13	42	<0.5			
462928		0.02	0.27	2	<0.05	3.58	58	<0.5			
462929		0.03	0.63	3	<0.05	3.10	19	<0.5			
462930		0.60	0.30	72	10.50	5.26	63	1.3			
462931		0.02	0.83	3	<0.05	3.36	20	<0.5			
462932		0.04	0.35	4	<0.05	3.95	31	<0.5			
462933		<0.02	0.54	17	<0.05	2.78	397	<0.5			
462934		<0.02	0.18	11	<0.05	2.22	8730	<0.5			
462935		<0.02	0.61	11	<0.05	3.45	3530	<0.5			
462936		<0.02	0.76	11	<0.05	3.24	568	<0.5			
462937		<0.02	0.38	16	<0.05	4.50	100	<0.5			
462938		<0.02	0.45	13	0.06	4.75	219	<0.5			
462939		<0.02	0.93	15	<0.05	5.49	2140	<0.5			
462940		<0.02	0.84	15	<0.05	5.48	2000	<0.5			
462941		0.02	0.42	13	<0.05	3.18	2640	<0.5			
462942		<0.02	1.14	13	<0.05	3.32	1010	<0.5			
462943		<0.02	0.40	14	<0.05	3.22	915	<0.5			



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Page: 4 - A
Total # Pages: 6 (A - D)
Plus Appendix Pages
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CERTIFICATE OF ANALYSIS KL17006356

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
462944		7.06	1.55	1.10	2.3	<0.2	<10	40	0.07	0.28	1.67	6.59	8.39	11.4	6	0.12
462945		3.61	2.01	1.32	1.2	<0.2	<10	50	0.06	0.46	1.59	12.20	6.03	12.6	6	0.09
462946		6.19	1.81	1.35	1.1	<0.2	<10	50	0.06	0.37	1.85	8.42	6.01	12.3	7	0.09
462947		2.79	1.46	0.98	0.8	<0.2	<10	40	0.05	0.41	2.35	11.15	6.17	8.8	5	0.10
462948		4.69	0.49	1.12	0.3	<0.2	<10	40	0.05	0.20	2.29	11.60	5.32	8.1	5	0.09
462949		4.33	0.29	1.05	0.2	<0.2	<10	40	0.06	0.13	2.41	8.13	6.38	7.9	5	0.08
462950		0.04	0.88	1.51	5.5	0.2	10	120	0.26	0.20	0.91	0.39	11.95	10.7	28	0.39
462951		8.01	0.69	0.99	0.7	<0.2	<10	30	0.05	0.31	2.06	8.45	7.46	9.3	8	0.09
462952		5.74	0.07	1.23	0.1	<0.2	<10	30	0.07	0.08	1.85	0.23	6.97	8.6	5	0.07
462953		6.64	0.09	1.19	0.3	<0.2	<10	40	0.06	0.04	1.84	0.30	5.71	9.1	6	0.08
462954		6.64	0.38	1.26	0.4	<0.2	<10	60	0.09	0.02	1.61	0.28	5.27	9.7	5	0.05
462955		6.18	0.05	1.18	0.2	<0.2	<10	60	0.12	0.01	1.18	0.02	5.71	7.9	6	0.05
462956		7.29	0.07	1.24	0.2	<0.2	<10	60	0.11	0.01	1.11	0.05	5.92	7.9	6	0.06
462957		7.02	0.13	1.18	0.2	<0.2	<10	60	0.09	0.02	1.27	1.07	4.90	8.5	5	0.06
462958		7.23	0.16	1.18	0.3	<0.2	<10	60	0.09	0.01	1.35	0.21	5.08	8.6	6	0.05
462959		6.29	0.11	1.24	0.4	<0.2	<10	60	0.11	0.01	1.03	0.36	6.33	8.9	6	0.05
462960		<0.02	0.10	1.27	0.5	<0.2	<10	60	0.10	0.01	1.05	0.48	5.85	9.5	7	0.05
462961		6.83	0.13	1.27	0.3	<0.2	<10	70	0.11	0.03	0.89	0.62	5.83	9.3	6	0.07
462962		6.87	0.40	1.34	0.4	<0.2	<10	60	0.10	0.06	0.93	4.85	5.27	10.1	6	0.06
462963		7.48	0.21	1.22	0.3	<0.2	<10	70	0.10	0.04	1.23	2.77	4.57	9.4	6	0.07
462964		6.80	0.14	1.32	0.3	<0.2	<10	60	0.11	0.01	0.99	0.38	5.93	10.1	9	<0.05
462965		6.67	0.55	1.25	0.5	<0.2	<10	60	0.10	0.10	0.84	3.44	5.19	9.3	5	0.06
462966		6.81	0.51	1.37	0.6	<0.2	<10	60	0.10	0.07	0.57	3.75	5.20	10.0	6	0.05
462967		7.40	0.14	1.26	0.3	<0.2	<10	70	0.12	0.02	1.11	0.32	5.10	9.3	6	<0.05
462968		2.44	0.08	1.20	0.3	<0.2	<10	80	0.11	<0.01	0.61	0.03	4.39	8.8	6	<0.05
462969		4.00	0.19	1.12	0.3	<0.2	<10	70	0.10	0.02	0.75	0.43	5.40	9.1	6	0.06
462970		0.04	0.47	2.05	14.7	<0.2	10	90	0.31	0.47	1.15	0.21	9.36	49.5	258	1.25
462971		6.94	0.24	1.19	0.6	<0.2	<10	70	0.10	0.04	2.05	0.97	5.13	10.1	6	0.06
462972		6.35	0.11	1.15	0.4	<0.2	<10	70	0.10	0.02	1.06	0.15	6.24	9.3	6	0.06
462973		6.02	0.16	1.07	0.4	<0.2	<10	80	0.10	0.02	0.67	1.87	5.02	8.9	5	0.16
462974		6.69	0.22	1.23	0.8	<0.2	<10	70	0.09	0.02	0.94	1.37	5.20	10.5	7	0.13
462975		6.80	0.10	1.30	0.5	<0.2	<10	70	0.12	0.01	0.88	1.03	6.20	10.7	6	0.10
462976		6.89	0.37	1.26	0.5	<0.2	<10	60	0.09	0.09	0.50	4.04	7.04	10.3	6	0.06
462977		6.24	0.33	1.47	0.5	<0.2	<10	70	0.10	0.03	0.85	2.52	6.02	10.7	7	0.06
462978		6.72	0.22	1.08	0.4	<0.2	<10	80	0.09	0.02	1.18	3.39	5.31	9.2	4	0.06
462979		6.35	0.21	1.00	0.4	<0.2	<10	70	0.10	0.05	0.55	3.05	6.47	7.9	5	0.07
462980		<0.02	0.23	1.06	0.4	<0.2	<10	80	0.08	0.05	0.57	2.97	5.79	7.1	5	0.07
462981		7.47	0.19	1.10	0.2	<0.2	<10	60	0.09	0.04	0.54	3.87	5.89	7.8	5	0.07
462982		5.11	0.25	1.22	0.3	<0.2	<10	50	0.09	0.02	0.29	0.61	12.90	8.5	5	0.15
462983		7.05	0.23	1.39	0.3	<0.2	<10	70	0.11	0.03	0.38	1.69	6.89	11.0	6	0.07



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Page: 4 - B
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 Account: GIBMIN

Project: SGM2016-23

CERTIFICATE OF ANALYSIS KL17006356

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		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
462944		571	2.78	2.66	0.08	<0.02	0.04	0.097	0.16	3.4	5.2	0.92	3830	0.97	0.01
462945		693	3.21	3.01	0.09	<0.02	0.07	0.263	0.19	2.5	6.1	0.95	4550	1.47	0.01
462946		653	2.89	3.30	0.08	<0.02	0.05	0.182	0.18	2.5	6.3	0.88	3730	1.01	0.02
462947		439	2.03	2.08	0.07	<0.02	0.08	0.248	0.21	2.6	4.1	0.63	4650	1.97	0.01
462948		125.5	2.05	2.63	0.08	<0.02	0.07	0.106	0.18	2.2	5.1	0.69	3870	0.80	0.01
462949		66.2	2.26	2.50	0.08	<0.02	0.05	0.062	0.17	2.6	4.7	0.83	4670	1.09	0.02
462950		3240	3.12	5.52	0.14	0.22	0.03	0.045	0.20	6.3	9.4	0.74	464	237	0.08
462951		195.5	2.37	2.33	0.08	<0.02	0.06	0.142	0.15	3.2	4.7	0.71	4840	1.39	0.01
462952		16.4	2.00	3.29	0.08	<0.02	<0.01	0.011	0.13	2.8	6.3	0.78	2360	0.86	0.02
462953		28.1	1.93	3.22	0.08	<0.02	<0.01	0.007	0.12	2.4	5.5	0.77	1880	0.53	0.02
462954		177.5	1.80	3.46	0.08	0.03	<0.01	0.007	0.12	2.3	5.8	0.84	1230	0.33	0.03
462955		19.1	1.48	3.23	0.08	0.04	<0.01	<0.005	0.11	2.3	5.4	0.78	714	0.40	0.04
462956		20.1	1.60	3.21	0.08	0.04	<0.01	0.005	0.11	2.5	5.6	0.80	799	0.40	0.04
462957		49.8	1.53	3.11	0.08	0.03	<0.01	0.015	0.13	2.0	5.6	0.80	1360	0.37	0.03
462958		71.4	1.55	3.18	0.07	0.03	<0.01	0.006	0.11	2.1	5.8	0.82	1300	0.36	0.04
462959		35.0	1.59	3.44	0.07	0.05	<0.01	<0.005	0.12	2.7	6.0	0.86	1070	0.45	0.04
462960		38.8	1.62	3.53	0.08	0.04	<0.01	<0.005	0.12	2.5	6.3	0.89	1110	0.51	0.04
462961		46.7	1.58	3.51	0.08	0.04	<0.01	0.017	0.13	2.3	5.9	0.89	820	0.48	0.04
462962		115.5	1.80	3.58	0.08	0.04	0.01	0.129	0.13	2.2	6.5	0.93	1340	0.58	0.03
462963		91.6	1.68	3.08	0.07	0.03	0.01	0.028	0.15	2.0	6.1	0.84	1430	0.74	0.03
462964		41.5	1.66	3.78	0.08	0.05	<0.01	0.005	0.10	2.4	6.5	0.94	1060	0.41	0.04
462965		89.2	1.87	3.25	0.08	0.03	0.01	0.056	0.14	2.2	5.9	0.81	1220	0.82	0.03
462966		122.5	1.94	3.58	0.08	0.03	0.01	0.050	0.14	2.1	7.0	0.89	1080	0.69	0.03
462967		39.3	1.68	3.72	0.08	0.05	<0.01	0.005	0.11	2.0	5.9	0.89	1100	1.21	0.04
462968		19.7	1.35	3.06	0.08	0.04	<0.01	<0.005	0.11	1.7	4.9	0.84	520	0.40	0.03
462969		63.8	1.48	3.14	0.08	0.04	<0.01	0.008	0.13	2.2	4.9	0.75	1010	0.37	0.04
462970		838	5.46	5.79	0.12	0.03	0.01	0.021	0.70	4.1	3.8	5.38	464	86.3	0.10
462971		77.3	1.66	3.32	0.08	0.04	<0.01	0.010	0.16	2.0	5.3	0.84	1840	0.76	0.03
462972		33.7	1.44	3.22	<0.05	0.05	<0.01	0.007	0.13	2.3	5.8	0.86	845	1.80	0.04
462973		71.7	1.35	2.86	<0.05	0.04	0.01	0.031	0.17	1.9	5.6	0.76	583	0.93	0.03
462974		71.1	1.90	3.06	<0.05	0.04	0.01	0.023	0.17	2.0	6.5	0.87	1010	0.61	0.03
462975		42.0	1.76	3.33	<0.05	0.04	<0.01	0.022	0.14	2.3	6.8	0.97	871	0.66	0.04
462976		136.0	2.00	3.24	<0.05	0.02	0.04	0.191	0.15	2.6	7.4	0.83	971	0.76	0.02
462977		121.5	2.00	3.92	<0.05	0.04	0.01	0.186	0.12	2.2	7.8	1.02	1070	1.62	0.04
462978		79.0	1.58	2.75	<0.05	0.03	0.01	0.066	0.13	2.0	5.5	0.73	1220	2.67	0.03
462979		56.6	1.55	2.54	<0.05	0.02	0.01	0.088	0.15	2.5	4.9	0.62	828	1.49	0.03
462980		55.6	1.61	2.56	<0.05	0.02	0.01	0.085	0.16	2.2	4.8	0.64	861	1.27	0.04
462981		54.4	1.52	2.73	<0.05	0.04	0.02	0.226	0.13	2.0	5.3	0.72	783	0.60	0.03
462982		89.5	1.87	3.38	0.05	0.03	<0.01	0.028	0.09	5.0	5.7	0.83	895	0.80	0.03
462983		77.1	1.98	3.56	<0.05	0.04	0.01	0.049	0.12	2.4	6.5	0.96	713	0.51	0.04



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Page: 4 - C
Total # Pages: 6 (A - D)
Plus Appendix Pages
Finalized Date: 20-JAN-2017
Account: GIBMIN

Project: SGM2016-23

CERTIFICATE OF ANALYSIS KL17006356

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
462944		9.0	390	3.2	2.9	<0.001	0.53	<0.05	1.1	0.3	<0.2	27.8	<0.01	0.21	1.2
462945		9.7	360	6.4	3.2	0.001	0.80	<0.05	1.2	0.3	<0.2	24.3	<0.01	0.27	1.2
462946		9.4	360	5.5	3.2	<0.001	0.68	<0.05	1.2	0.3	<0.2	30.7	<0.01	0.16	1.2
462947		7.1	370	5.6	3.7	<0.001	0.69	<0.05	0.9	0.3	<0.2	35.7	<0.01	0.17	1.1
462948		7.2	360	3.4	3.2	<0.001	0.49	<0.05	0.9	0.2	<0.2	39.1	<0.01	0.05	1.2
462949		7.6	410	2.5	3.0	0.001	0.33	<0.05	1.2	0.2	<0.2	40.3	<0.01	0.06	1.3
462950		21.6	670	8.6	9.2	0.225	0.47	2.28	4.9	1.3	1.0	41.4	<0.01	0.11	1.8
462951		6.9	350	2.5	2.8	0.001	0.62	<0.05	1.1	0.2	<0.2	36.1	<0.01	0.21	1.0
462952		6.6	400	1.7	2.3	<0.001	0.06	<0.05	1.3	0.3	<0.2	37.6	<0.01	0.02	0.8
462953		7.0	440	1.4	2.2	<0.001	0.09	0.06	1.2	0.2	<0.2	34.2	<0.01	0.02	0.9
462954		7.0	400	0.9	2.1	<0.001	0.08	0.10	1.2	0.2	<0.2	40.3	<0.01	0.01	0.8
462955		6.3	390	0.7	1.9	<0.001	0.02	0.11	1.1	<0.2	<0.2	37.6	<0.01	0.01	0.8
462956		6.3	400	0.9	1.8	<0.001	0.06	0.10	1.1	<0.2	<0.2	34.7	<0.01	0.01	0.7
462957		6.6	400	0.8	2.2	<0.001	0.13	0.10	1.1	0.2	<0.2	31.1	<0.01	0.03	0.8
462958		7.1	400	0.9	1.9	<0.001	0.12	0.09	1.2	0.2	<0.2	36.0	<0.01	0.02	0.9
462959		7.7	390	0.8	1.9	<0.001	0.08	0.10	1.1	0.2	<0.2	32.9	<0.01	0.03	1.4
462960		7.8	390	0.7	1.9	<0.001	0.08	0.09	1.1	0.2	<0.2	32.6	<0.01	0.02	1.3
462961		7.8	400	0.9	2.2	<0.001	0.09	0.09	1.2	<0.2	<0.2	31.6	<0.01	0.02	1.1
462962		8.1	400	1.0	2.1	<0.001	0.29	0.09	1.1	0.2	<0.2	28.4	<0.01	0.09	0.8
462963		7.2	390	1.1	2.5	<0.001	0.33	0.07	1.0	<0.2	<0.2	31.1	<0.01	0.06	0.8
462964		8.1	400	1.1	1.6	<0.001	0.11	0.10	1.3	0.2	0.2	35.4	<0.01	0.02	1.0
462965		6.8	410	3.6	2.3	<0.001	0.52	0.07	1.0	0.3	<0.2	24.0	<0.01	0.14	0.9
462966		7.9	410	8.6	2.2	<0.001	0.39	0.09	1.2	0.3	<0.2	24.3	<0.01	0.10	0.6
462967		7.2	400	2.1	1.7	<0.001	0.19	0.09	1.3	0.2	0.2	38.6	<0.01	0.04	0.4
462968		6.7	410	1.9	1.8	<0.001	0.02	0.09	1.0	<0.2	<0.2	32.6	<0.01	0.01	0.3
462969		6.6	390	2.8	2.2	<0.001	0.17	0.09	1.1	0.2	<0.2	28.5	<0.01	0.04	0.4
462970		636	690	4.5	26.9	0.087	3.88	0.74	7.8	3.2	0.3	49.1	<0.01	0.21	0.9
462971		7.7	430	5.7	2.9	<0.001	0.26	0.09	1.3	0.4	<0.2	43.3	<0.01	0.05	0.4
462972		10.8	390	4.7	2.4	0.001	0.09	0.13	1.3	<0.2	0.2	38.7	<0.01	0.01	0.5
462973		6.6	390	1.5	4.1	<0.001	0.18	0.10	1.1	0.2	<0.2	30.0	<0.01	0.02	0.4
462974		7.4	430	0.9	3.7	<0.001	0.35	0.09	1.1	<0.2	<0.2	27.3	<0.01	0.04	0.6
462975		7.8	420	0.6	3.2	<0.001	0.16	0.11	1.3	<0.2	0.2	32.8	<0.01	0.02	0.5
462976		7.4	420	0.9	2.8	<0.001	0.44	0.07	1.1	0.2	<0.2	21.5	<0.01	0.08	0.6
462977		8.5	400	0.8	2.0	<0.001	0.11	0.10	1.6	<0.2	0.2	33.6	<0.01	0.04	0.6
462978		5.6	360	0.7	2.2	<0.001	0.21	0.07	0.9	<0.2	<0.2	29.3	<0.01	0.02	0.5
462979		5.2	300	0.8	2.5	<0.001	0.28	0.07	1.0	0.2	<0.2	20.9	<0.01	0.04	2.3
462980		5.1	310	0.9	2.6	<0.001	0.30	0.08	1.0	<0.2	<0.2	20.9	<0.01	0.04	2.4
462981		5.8	370	0.7	2.1	<0.001	0.25	0.11	1.0	<0.2	<0.2	23.5	<0.01	0.04	0.7
462982		6.6	390	2.0	1.6	<0.001	0.07	0.15	2.1	0.2	0.2	22.7	<0.01	0.01	0.7
462983		7.6	430	0.9	2.1	<0.001	0.24	0.14	1.4	0.3	0.2	28.0	<0.01	0.04	0.5



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Page: 4 - D
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 20-JAN-2017
 Account: GIBMIN

Project: SGM2016-23

CERTIFICATE OF ANALYSIS KL17006356

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
462944		0.02	0.43	9	0.05	6.04	3060	<0.5			
462945		0.02	0.37	10	0.07	4.83	5630	<0.5			
462946		0.02	0.42	11	0.06	5.47	4030	<0.5			
462947		0.03	0.35	7	0.11	3.86	5330	<0.5			
462948		0.02	0.58	8	0.10	4.40	5000	<0.5			
462949		0.02	0.50	8	0.07	4.95	3840	<0.5			
462950		0.09	0.36	61	13.40	7.90	62	5.7	0.314	0.029	0.266
462951		0.02	0.27	8	0.07	4.55	3930	<0.5			
462952		0.02	0.35	10	<0.05	5.24	254	<0.5			
462953		<0.02	0.31	10	<0.05	4.46	317	<0.5			
462954		<0.02	0.29	13	<0.05	4.15	184	<0.5			
462955		<0.02	0.33	14	<0.05	4.56	60	<0.5			
462956		<0.02	0.33	14	<0.05	4.49	84	<0.5			
462957		<0.02	0.25	12	<0.05	4.11	639	<0.5			
462958		<0.02	0.44	13	<0.05	4.19	239	<0.5			
462959		<0.02	0.44	14	<0.05	4.37	274	<0.5			
462960		<0.02	0.44	14	<0.05	4.40	309	<0.5			
462961		<0.02	0.39	14	<0.05	4.91	375	<0.5			
462962		<0.02	0.34	14	<0.05	4.40	2290	<0.5			
462963		0.02	0.27	12	<0.05	3.56	1330	<0.5			
462964		<0.02	0.31	16	<0.05	4.95	280	0.5			
462965		<0.02	0.28	12	0.05	3.51	1790	<0.5			
462966		<0.02	0.30	15	<0.05	4.44	1860	<0.5			
462967		<0.02	0.25	17	<0.05	4.80	242	0.5			
462968		<0.02	0.18	14	<0.05	4.14	81	<0.5			
462969		<0.02	0.28	12	<0.05	4.44	355	<0.5			
462970		0.55	0.28	71	9.52	5.01	62	1.1			
462971		0.02	0.23	13	<0.05	5.83	536	<0.5			
462972		<0.02	0.22	15	<0.05	5.53	161	<0.5			
462973		0.03	0.19	12	<0.05	4.58	777	<0.5			
462974		0.03	0.22	15	<0.05	3.95	710	<0.5			
462975		0.02	0.26	17	<0.05	5.14	446	<0.5			
462976		0.02	0.38	13	<0.05	4.04	1890	<0.5			
462977		<0.02	0.28	18	<0.05	5.61	1170	<0.5			
462978		<0.02	0.23	10	<0.05	3.83	1400	<0.5			
462979		<0.02	0.57	11	<0.05	4.59	1530	<0.5			
462980		0.02	0.59	11	<0.05	4.75	1570	<0.5			
462981		<0.02	0.27	11	<0.05	4.93	1900	<0.5			
462982		<0.02	0.43	19	<0.05	7.39	402	<0.5			
462983		<0.02	0.29	17	<0.05	5.66	905	<0.5			



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Page: 5 - A
Total # Pages: 6 (A - D)
Plus Appendix Pages
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Account: GIBMIN

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CERTIFICATE OF ANALYSIS KL17006356

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
462984		3.53	0.71	1.06	0.8	<0.2	<10	50	0.07	0.13	0.15	15.50	4.14	11.5	6	0.08
462985		3.10	2.21	1.06	0.8	<0.2	<10	40	0.08	0.29	0.61	24.2	3.41	11.5	8	0.08
462986		6.81	0.40	1.05	0.2	<0.2	<10	40	0.06	0.11	0.46	6.51	5.15	8.1	7	0.07
462987		6.55	0.22	1.50	0.5	<0.2	<10	50	0.08	0.03	0.59	3.67	6.23	11.2	8	0.08
462988		6.80	0.13	1.10	0.3	<0.2	<10	40	0.07	0.03	0.25	0.46	4.63	9.3	6	0.06
462989		6.84	0.24	1.90	0.2	<0.2	<10	40	0.10	0.04	1.16	1.73	7.48	14.2	11	0.06
462990		0.04	2.57	1.67	29.2	0.3	10	60	0.34	0.95	0.85	2.18	9.83	11.2	29	3.72
462991		7.23	1.36	1.58	0.5	<0.2	<10	50	0.08	0.12	0.72	13.10	7.17	14.2	8	0.07
462992		6.60	0.23	1.22	0.4	<0.2	<10	60	0.09	0.03	0.37	0.28	10.35	9.7	5	0.06
462993		6.67	0.09	1.21	0.3	<0.2	<10	60	0.09	0.01	0.71	0.02	7.67	9.1	5	0.06
462994		6.94	0.04	1.04	0.3	<0.2	<10	50	0.08	<0.01	0.76	0.02	8.34	7.9	7	0.06
462995		7.96	0.08	1.17	0.3	<0.2	<10	50	0.08	0.01	1.07	0.03	6.17	8.3	6	0.06
462996		7.58	0.11	1.76	0.4	<0.2	<10	50	0.10	0.02	2.15	1.19	8.46	13.9	12	0.07
462997		7.77	0.40	1.56	0.3	<0.2	<10	40	0.07	0.15	2.78	6.42	7.53	12.4	8	0.10
462998		3.74	0.11	0.77	<0.1	<0.2	<10	40	0.06	0.03	0.99	0.55	10.50	5.3	4	0.08
462999		2.96	0.13	0.49	0.5	<0.2	<10	30	0.06	0.06	2.13	1.10	18.20	8.6	5	0.14
463000		<0.02	0.10	0.50	0.3	<0.2	<10	30	0.07	0.06	2.14	1.19	19.60	9.7	6	0.09
463001		4.31	0.67	0.39	0.4	0.2	<10	50	0.11	1.23	3.22	7.80	19.65	11.5	4	0.13
463002		3.32	1.33	0.41	1.3	<0.2	<10	80	0.07	0.32	3.82	5.70	14.90	11.3	3	0.11
463003		7.59	0.73	0.33	0.4	<0.2	<10	630	0.07	0.24	4.23	1.17	14.10	11.2	3	0.10
463004		8.19	0.18	0.69	0.2	<0.2	<10	40	0.07	0.06	3.06	0.34	9.76	9.8	5	0.07
463005		7.99	0.75	1.05	0.4	<0.2	<10	50	0.08	0.13	3.08	3.83	9.84	9.8	5	0.10
463006		7.60	0.17	1.16	0.4	<0.2	<10	60	0.09	0.01	0.96	0.04	8.84	8.6	6	0.05
463007		7.23	0.15	1.12	0.4	<0.2	<10	70	0.08	0.03	0.93	2.66	8.59	9.5	5	0.30
463008		8.32	0.11	1.13	0.5	<0.2	<10	80	0.10	0.01	0.84	1.49	7.40	9.3	6	0.60
463009		8.20	0.10	1.19	0.4	<0.2	<10	70	0.11	0.01	1.04	0.04	10.80	8.5	6	0.49
463010		<0.02	0.27	0.92	66.5	0.4	10	80	4.26	3.79	0.09	0.05	70.8	70.5	22	0.86
463011		7.23	0.09	1.12	0.4	<0.2	<10	80	0.11	0.02	1.63	0.05	10.95	8.7	5	0.43
463012		8.44	0.14	1.15	0.5	<0.2	<10	70	0.10	0.01	0.91	0.05	9.17	10.0	6	0.22
459651		3.65	0.08	1.17	0.4	<0.2	<10	30	0.09	0.01	1.44	0.14	7.05	8.3	7	0.10
459652		7.28	0.13	1.35	0.5	<0.2	<10	60	0.10	0.01	1.24	0.04	5.87	9.6	7	0.06
459653		6.36	0.06	1.29	0.1	<0.2	<10	60	0.09	0.02	0.71	0.15	7.22	9.0	6	0.10
459654		6.42	0.02	1.19	0.2	<0.2	<10	50	0.08	0.01	0.94	0.09	4.33	8.6	7	0.07
459655		6.94	0.02	1.37	0.2	<0.2	<10	40	0.07	0.01	4.25	0.17	6.88	9.4	5	0.09
459656		6.69	0.03	1.23	0.3	<0.2	<10	60	0.09	0.01	1.71	0.06	6.83	8.8	6	0.09
459657		7.42	0.78	1.12	0.5	<0.2	<10	60	0.08	0.04	2.04	0.11	4.74	8.9	5	0.08
459658		6.85	0.06	1.20	0.2	<0.2	<10	60	0.09	0.02	1.43	0.39	4.23	8.1	6	0.06
459659		7.27	0.09	1.30	0.2	<0.2	<10	60	0.10	0.02	1.37	0.94	4.77	10.2	7	0.06
459660		<0.02	0.09	1.36	0.3	<0.2	<10	60	0.11	0.02	1.39	0.91	5.14	10.6	8	0.06
459661		6.34	0.17	1.33	0.3	<0.2	<10	70	0.11	0.02	0.80	2.19	5.17	9.0	8	0.05



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Page: 5 - B
Total # Pages: 6 (A - D)
Plus Appendix Pages
Finalized Date: 20-JAN-2017
Account: GIBMIN

Project: SGM2016-23

CERTIFICATE OF ANALYSIS KL17006356

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
462984		299	2.30	2.45	<0.05	<0.02	0.08	0.657	0.18	1.7	5.7	0.65	909	4.82	0.01
462985		734	3.28	2.37	<0.05	<0.02	0.12	1.210	0.17	1.4	5.6	0.67	1390	2.25	0.01
462986		152.0	1.90	2.68	<0.05	<0.02	0.04	0.448	0.10	2.0	5.8	0.71	867	1.17	0.03
462987		69.0	2.44	3.57	<0.05	<0.02	0.02	0.103	0.12	2.3	7.0	1.07	1220	0.99	0.03
462988		44.1	1.66	2.88	<0.05	0.02	<0.01	0.013	0.10	1.7	5.5	0.75	779	0.70	0.03
462989		74.2	3.04	4.71	<0.05	0.03	0.01	0.070	0.09	2.6	9.9	1.49	1640	1.14	0.02
462990		2510	4.53	4.55	0.06	0.02	0.04	0.142	0.28	5.0	17.3	0.58	744	221	0.05
462991		906	3.27	3.88	<0.05	0.02	0.08	0.461	0.12	2.6	8.3	1.18	1400	3.26	0.02
462992		144.0	1.85	3.33	<0.05	0.05	<0.01	0.005	0.10	3.6	6.4	0.91	802	0.79	0.03
462993		67.0	1.82	3.34	<0.05	0.05	<0.01	0.005	0.10	2.7	6.4	0.94	655	0.72	0.03
462994		30.6	1.50	2.89	<0.05	0.04	<0.01	<0.005	0.09	3.4	5.4	0.81	434	0.69	0.03
462995		20.8	1.77	3.46	<0.05	0.04	<0.01	0.005	0.10	2.1	6.7	0.96	655	0.71	0.03
462996		62.7	3.46	5.29	<0.05	0.02	0.01	0.025	0.11	3.0	9.9	1.41	1820	0.38	0.02
462997		217	3.51	3.98	<0.05	<0.02	0.12	0.146	0.15	3.0	8.9	1.10	3330	11.55	0.02
462998		45.1	1.40	2.21	<0.05	<0.02	0.01	0.007	0.12	4.8	4.6	0.46	978	0.94	0.03
462999		38.7	1.99	1.37	<0.05	<0.02	0.02	0.033	0.13	8.0	3.0	0.84	2460	0.91	0.03
463000		35.8	2.00	1.41	<0.05	<0.02	0.02	0.033	0.14	8.9	2.9	0.83	2490	1.14	0.03
463001		72.8	2.92	0.97	<0.05	<0.02	0.59	0.703	0.15	7.9	1.4	1.00	5240	35.7	0.03
463002		247	3.42	1.08	<0.05	<0.02	0.30	0.410	0.11	5.8	2.0	1.18	5130	29.6	0.04
463003		149.0	3.27	0.93	<0.05	<0.02	0.05	0.096	0.11	5.6	1.4	1.26	4250	4.16	0.05
463004		67.9	2.59	2.08	<0.05	<0.02	0.01	0.019	0.09	3.8	4.7	1.08	1510	1.15	0.04
463005		244	2.44	2.94	<0.05	<0.02	0.15	0.207	0.15	3.9	6.7	0.82	2120	4.61	0.02
463006		103.5	1.73	3.25	<0.05	0.05	<0.01	0.005	0.09	3.2	6.7	0.86	512	1.06	0.03
463007		114.0	1.88	3.00	<0.05	0.04	0.03	0.076	0.17	3.1	6.3	0.81	722	2.51	0.03
463008		78.6	1.81	2.94	0.10	0.07	0.01	0.032	0.23	2.7	5.6	0.84	713	1.18	0.03
463009		71.0	1.79	3.22	0.11	0.06	<0.01	0.007	0.21	3.7	5.7	0.90	586	0.75	0.03
463010		1370	3.46	2.87	0.18	0.77	0.02	0.192	0.47	35.2	2.4	0.11	281	2.80	0.01
463011		70.4	1.80	3.06	0.11	0.06	<0.01	0.010	0.17	3.9	5.1	0.84	876	0.97	0.03
463012		92.1	1.76	3.13	0.10	0.08	0.01	0.005	0.14	3.3	5.3	0.87	757	0.89	0.03
459651		44.9	1.87	3.33	0.10	0.07	0.01	0.007	0.07	2.8	6.1	0.87	740	0.77	0.02
459652		72.5	1.76	3.53	0.09	0.05	0.01	0.005	0.10	2.3	6.3	1.01	640	1.53	0.04
459653		31.8	1.75	3.58	0.11	0.05	0.01	0.008	0.13	2.8	6.1	0.89	992	0.57	0.03
459654		6.5	1.76	3.31	0.10	0.03	0.01	0.006	0.11	1.7	5.6	0.82	825	0.62	0.04
459655		8.1	2.07	3.80	0.10	0.04	0.01	0.008	0.10	2.6	6.7	1.03	2390	0.58	0.03
459656		12.7	1.73	3.26	0.09	0.04	0.01	0.008	0.15	2.7	5.6	0.85	1210	0.76	0.03
459657		448	1.74	2.86	0.09	0.04	0.01	0.008	0.15	1.9	5.1	0.74	1660	0.50	0.02
459658		29.4	1.76	3.34	0.09	0.05	0.01	0.005	0.11	1.6	5.3	0.84	1100	0.65	0.03
459659		36.3	1.89	3.40	0.09	0.05	0.02	0.021	0.10	1.9	5.6	0.95	921	0.54	0.03
459660		37.9	1.96	3.50	0.09	0.05	0.02	0.021	0.11	2.0	5.4	0.98	931	0.81	0.04
459661		88.9	1.77	3.40	0.09	0.06	0.03	0.065	0.10	2.0	5.3	0.98	717	2.14	0.03



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Page: 5 - C
Total # Pages: 6 (A - D)
Plus Appendix Pages
Finalized Date: 20-JAN-2017
Account: GIBMIN

Project: SGM2016-23

CERTIFICATE OF ANALYSIS KL17006356

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
462984		7.0	400	1.1	3.2	0.001	1.16	<0.05	0.8	0.2	<0.2	7.1	<0.01	0.18	0.4
462985		6.5	380	0.9	2.8	<0.001	2.18	<0.05	0.9	0.4	<0.2	9.2	<0.01	0.61	0.4
462986		6.2	380	0.9	1.7	<0.001	0.51	0.07	0.9	<0.2	<0.2	18.5	<0.01	0.09	0.6
462987		8.5	490	1.0	2.0	<0.001	0.32	0.07	1.4	0.2	<0.2	20.3	<0.01	0.05	0.5
462988		6.7	400	1.2	1.8	<0.001	0.12	0.07	1.0	<0.2	<0.2	18.4	<0.01	0.03	0.5
462989		9.9	570	1.0	1.6	<0.001	0.22	0.10	2.3	0.2	<0.2	34.0	<0.01	0.04	0.6
462990		20.0	730	77.1	14.5	0.221	2.22	1.80	2.5	4.1	0.6	55.2	<0.01	0.64	3.0
462991		8.9	430	1.0	2.1	<0.001	1.28	0.08	1.6	0.3	<0.2	21.9	<0.01	0.25	0.7
462992		5.0	430	0.9	1.7	<0.001	0.08	0.15	1.2	0.2	0.2	25.4	<0.01	0.02	2.0
462993		4.8	460	0.7	2.0	<0.001	0.03	0.16	1.2	0.2	0.2	30.6	<0.01	0.01	0.7
462994		5.4	390	0.6	1.7	<0.001	0.01	0.22	1.0	<0.2	<0.2	35.6	<0.01	<0.01	0.9
462995		6.7	390	0.7	1.9	<0.001	0.03	0.17	1.2	0.2	<0.2	34.8	<0.01	<0.01	0.6
462996		11.0	590	1.4	2.1	<0.001	0.11	0.12	2.4	0.3	0.2	43.4	<0.01	0.01	0.8
462997		9.2	470	1.5	2.9	0.001	1.10	0.05	2.3	0.2	<0.2	47.2	<0.01	0.15	0.8
462998		3.7	270	0.7	2.3	<0.001	0.07	<0.05	0.6	<0.2	<0.2	20.8	<0.01	0.01	1.4
462999		8.3	350	6.9	3.1	<0.001	0.15	0.05	0.9	0.2	<0.2	37.4	<0.01	0.02	1.8
463000		5.0	340	0.9	2.6	<0.001	0.16	<0.05	1.0	0.2	<0.2	38.6	<0.01	0.03	1.8
463001		5.0	350	1.8	2.8	0.007	0.58	<0.05	3.0	0.4	<0.2	70.2	<0.01	1.24	1.6
463002		6.4	420	2.0	1.9	0.005	0.90	0.10	1.8	0.4	<0.2	140.0	<0.01	0.28	1.1
463003		4.9	480	2.2	1.9	<0.001	0.50	0.08	1.6	0.3	<0.2	221	<0.01	0.15	1.3
463004		4.8	440	1.4	1.7	<0.001	0.07	0.05	1.6	0.2	<0.2	90.7	<0.01	0.02	1.5
463005		4.8	410	2.0	2.7	0.001	0.41	0.05	1.5	0.4	<0.2	81.0	<0.01	0.15	1.2
463006		4.3	460	0.8	1.7	<0.001	0.03	0.22	1.4	0.2	0.2	43.4	<0.01	<0.01	0.7
463007		4.3	450	0.7	4.6	<0.001	0.26	0.14	1.2	<0.2	<0.2	33.6	<0.01	0.03	0.6
463008		4.3	430	0.6	7.8	<0.001	0.23	0.15	1.2	0.2	0.2	35.8	<0.01	0.02	0.5
463009		4.5	470	0.6	6.4	<0.001	0.03	0.22	1.7	0.3	0.2	44.8	<0.01	0.01	0.7
463010		31.4	560	12.4	22.1	0.002	0.04	1.53	4.8	3.2	0.5	19.3	<0.01	0.08	8.3
463011		4.4	460	0.9	5.6	<0.001	0.13	0.17	2.0	0.4	0.2	54.3	<0.01	0.01	1.0
463012		4.7	470	0.6	4.1	<0.001	0.10	0.13	1.4	0.3	<0.2	39.0	<0.01	0.02	0.9
459651		6.7	400	1.2	1.4	<0.001	0.03	0.11	1.5	0.3	<0.2	38.1	<0.01	<0.01	0.9
459652		7.6	440	0.8	1.7	0.001	0.05	0.17	1.3	0.3	<0.2	38.9	<0.01	0.01	0.8
459653		7.2	410	1.2	2.3	<0.001	0.07	0.11	1.5	0.2	<0.2	26.1	<0.01	0.02	0.9
459654		6.6	410	0.8	2.0	<0.001	0.07	0.06	1.3	<0.2	<0.2	27.2	<0.01	0.01	0.5
459655		7.6	370	1.5	1.7	<0.001	0.03	0.10	2.3	0.2	<0.2	86.1	<0.01	<0.01	0.6
459656		6.8	410	1.0	2.6	<0.001	0.06	0.11	1.5	0.2	<0.2	40.2	<0.01	0.01	0.9
459657		5.7	390	1.1	2.5	<0.001	0.20	0.07	1.2	<0.2	<0.2	43.7	<0.01	0.04	0.8
459658		6.2	390	0.8	1.9	<0.001	0.11	0.09	1.2	<0.2	<0.2	38.4	<0.01	0.03	0.5
459659		7.3	430	1.2	1.8	<0.001	0.14	0.12	1.2	0.2	<0.2	38.3	<0.01	0.03	0.7
459660		7.4	440	1.2	1.8	<0.001	0.14	0.12	1.2	0.2	<0.2	38.7	<0.01	0.05	0.7
459661		7.7	430	0.6	1.8	<0.001	0.13	0.12	1.3	0.3	<0.2	32.7	<0.01	0.05	0.8



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Page: 5 - D
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 20-JAN-2017
 Account: GIBMIN

Project: SGM2016-23

CERTIFICATE OF ANALYSIS KL17006356

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46	Mo-OG46	Au-AA23
		TI	U	V	W	Y	Zn	Zr	Cu	Mo	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001	0.005
462984		0.02	0.12	7	0.13	2.29	6930	<0.5			
462985		0.02	0.15	10	0.15	2.83	>10000	<0.5			
462986		<0.02	0.13	9	0.05	2.66	3380	<0.5			
462987		<0.02	0.18	20	0.05	3.38	1910	<0.5			
462988		<0.02	0.22	10	<0.05	2.85	392	<0.5			
462989		<0.02	0.21	32	<0.05	6.05	1070	<0.5			
462990		0.27	0.64	31	1.20	4.88	441	0.8	0.254	0.028	0.325
462991		0.02	0.25	22	<0.05	4.03	6660	<0.5			
462992		<0.02	0.46	13	<0.05	6.77	256	0.5			
462993		<0.02	0.32	14	<0.05	6.31	84	0.5			
462994		<0.02	0.25	12	<0.05	5.39	44	<0.5			
462995		<0.02	0.22	13	<0.05	5.47	70	<0.5			
462996		<0.02	0.21	44	<0.05	6.87	608	<0.5			
462997		0.02	0.18	19	0.05	6.80	3090	<0.5			
462998		<0.02	0.62	5	<0.05	3.93	199	<0.5			
462999		0.02	0.37	8	0.06	7.36	212	<0.5			
463000		0.02	0.36	8	<0.05	7.69	215	<0.5			
463001		0.02	0.59	6	0.09	16.85	2620	<0.5			0.208
463002		<0.02	0.46	5	0.16	9.04	1850	<0.5			
463003		<0.02	0.37	6	1.27	7.05	438	<0.5			
463004		<0.02	0.29	14	0.08	8.32	195	<0.5			
463005		<0.02	0.31	13	0.07	10.75	1500	<0.5			
463006		<0.02	0.27	14	0.23	6.64	64	0.5			
463007		0.04	0.22	13	<0.05	6.00	1060	<0.5			
463008		0.07	0.29	15	<0.05	5.91	684	0.5			
463009		0.05	0.30	17	<0.05	7.94	89	<0.5			
463010		0.30	5.72	20	1.12	17.25	19	27.5			0.381
463011		0.04	0.21	16	<0.05	10.65	100	<0.5			
463012		0.03	0.31	14	<0.05	7.34	95	0.5			
459651		<0.02	0.29	14	<0.05	4.95	70	<0.5			
459652		<0.02	0.27	16	<0.05	4.37	65	<0.5			
459653		<0.02	0.44	14	<0.05	4.73	212	<0.5			
459654		<0.02	0.19	12	<0.05	3.13	178	<0.5			
459655		<0.02	0.25	15	<0.05	6.91	179	<0.5			
459656		0.02	0.31	14	<0.05	5.31	103	<0.5			
459657		0.02	0.24	10	<0.05	4.34	116	<0.5			
459658		<0.02	0.21	14	<0.05	3.99	245	<0.5			
459659		<0.02	0.23	16	<0.05	3.80	515	<0.5			
459660		<0.02	0.25	17	<0.05	3.86	518	<0.5			
459661		<0.02	0.28	17	0.06	3.91	1040	<0.5			



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Page: 6 - A
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 20-JAN-2017
 Account: GIBMIN

Project: SGM2016-23

CERTIFICATE OF ANALYSIS KL17006356

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1	ME-MS41 Cs ppm 0.05
459662		3.58	0.06	1.37	0.4	<0.2	<10	70	0.11	0.01	0.93	0.04	5.34	10.9	8	0.06
459663		3.11	0.04	1.24	0.3	<0.2	<10	60	0.11	0.01	0.91	0.03	5.35	9.0	8	0.05
459664		6.48	0.05	1.27	0.2	<0.2	<10	70	0.09	0.01	1.20	0.05	4.70	8.8	7	0.05
459665		7.01	0.03	1.26	0.3	<0.2	<10	60	0.10	<0.01	1.11	0.05	5.94	8.5	7	0.05
459666		6.87	0.06	1.29	0.3	<0.2	<10	70	0.11	0.01	0.97	0.13	5.18	9.2	7	0.05
459667		6.30	0.08	1.21	0.2	<0.2	<10	70	0.11	0.03	1.13	0.20	4.90	8.8	6	0.07
459668		6.93	0.19	1.20	0.3	<0.2	<10	60	0.09	0.01	0.99	0.80	4.24	8.6	6	0.06
459669		5.92	1.39	1.28	0.9	<0.2	<10	60	0.09	0.09	0.36	8.00	7.15	8.5	6	0.10
459670		0.04	0.46	2.21	14.1	<0.2	10	100	0.32	0.42	1.26	0.19	9.09	49.1	278	1.19
459671		5.35	0.22	1.57	0.1	<0.2	<10	60	0.10	0.03	0.26	1.63	6.12	9.8	8	0.06



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Page: 6 - B
Total # Pages: 6 (A - D)
Plus Appendix Pages
Finalized Date: 20-JAN-2017
Account: GIBMIN

Project: SGM2016-23

CERTIFICATE OF ANALYSIS KL17006356

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
459662		24.6	1.86	3.58	0.08	0.06	0.01	0.006	0.12	2.1	5.8	1.04	590	0.83	0.03
459663		10.7	1.61	3.29	0.10	0.06	0.01	0.005	0.10	2.0	5.1	0.92	566	0.75	0.03
459664		21.1	1.73	3.36	0.10	0.06	<0.01	<0.005	0.10	1.8	5.3	0.94	899	0.91	0.04
459665		10.4	1.68	3.23	0.08	0.05	<0.01	<0.005	0.10	2.5	5.1	0.91	745	0.42	0.03
459666		25.0	1.68	3.31	0.09	0.06	<0.01	0.005	0.11	1.9	5.4	0.94	865	0.86	0.04
459667		20.9	1.59	3.21	0.10	0.06	<0.01	0.006	0.13	2.0	5.2	0.90	1060	0.76	0.03
459668		48.4	1.64	3.28	0.09	0.05	0.01	0.039	0.12	1.6	5.0	0.87	930	0.91	0.03
459669		641	2.10	3.40	0.09	0.03	0.08	0.415	0.15	2.9	4.7	0.82	1240	0.88	0.02
459670		907	5.96	5.42	0.14	0.06	0.02	0.023	0.74	3.9	3.8	5.98	498	90.7	0.11
459671		87.7	2.29	4.15	0.10	0.05	0.01	0.067	0.11	2.3	6.0	1.13	972	1.16	0.03



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Page: 6 - C
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 20-JAN-2017
 Account: GIBMIN

Project: SGM2016-23

CERTIFICATE OF ANALYSIS KL17006356

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
459662		8.4	450	0.5	2.2	<0.001	0.06	0.12	1.2	0.2	0.2	36.2	<0.01	0.03	0.8
459663		7.6	400	0.5	1.9	<0.001	0.03	0.13	1.2	0.2	<0.2	35.0	<0.01	0.01	0.6
459664		7.7	410	0.6	1.9	<0.001	0.05	0.11	1.2	0.2	<0.2	33.5	<0.01	0.02	0.5
459665		7.1	400	0.6	1.6	<0.001	0.04	0.09	1.1	<0.2	<0.2	35.5	<0.01	<0.01	0.9
459666		8.8	420	1.9	1.9	<0.001	0.04	0.11	1.2	<0.2	<0.2	36.3	<0.01	0.01	0.7
459667		7.2	400	5.0	2.3	<0.001	0.08	0.11	1.2	0.2	<0.2	34.9	<0.01	0.01	0.6
459668		6.7	400	1.0	2.0	<0.001	0.10	0.10	1.1	0.3	<0.2	33.3	<0.01	<0.01	0.4
459669		6.3	380	1.5	2.4	<0.001	0.57	0.08	1.2	0.2	<0.2	17.3	<0.01	0.12	0.9
459670		673	740	4.4	26.8	0.087	4.18	0.87	8.1	3.4	0.3	51.0	<0.01	0.20	0.9
459671		8.7	420	1.1	1.8	<0.001	0.17	0.13	1.6	0.2	0.2	21.3	<0.01	0.03	0.5



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Page: 6 - D
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 20-JAN-2017
 Account: GIBMIN

Project: SGM2016-23

CERTIFICATE OF ANALYSIS KL17006356

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
459662		<0.02	0.23	19	0.05	3.70	151	<0.5			
459663		<0.02	0.24	16	0.05	3.72	83	<0.5			
459664		<0.02	0.21	15	0.05	3.80	102	<0.5			
459665		<0.02	0.30	15	0.05	3.93	107	1.7			
459666		<0.02	0.25	15	0.05	4.44	162	<0.5			
459667		<0.02	0.25	14	<0.05	4.27	192	<0.5			
459668		<0.02	0.22	13	<0.05	3.80	500	<0.5			
459669		<0.02	0.48	13	0.08	4.19	3890	<0.5			
459670		0.58	0.26	75	10.30	4.63	71	1.1			
459671		<0.02	0.65	17	<0.05	5.29	1050	<0.5			



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 20 - JAN - 2017
Account: GIBMIN

Project: SGM2016 - 23

CERTIFICATE OF ANALYSIS KL17006356

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.
CRU - 31 CRU - QC LOG - 21d LOG - 22
LOG - 23 PUL - 31 PUL - 31d PUL - QC
SPL - 21 SPL - 21d WEI - 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au - AA23 Cu - OG46 ME - MS41 ME - OG46
Mo - OG46



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Page: 1
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 4-FEB-2017
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CERTIFICATE KL17010474

Project: SGM2016-23

P.O. No.: S0218733

This report is for 12 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 19-JAN-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

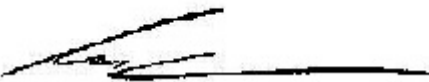
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

To: **GIBRALTAR MINES LTD.**
ATTN: ALS MINERALS

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

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

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 4-FEB-2017
 Account: GIBMIN

Project: SGM2016-23

CERTIFICATE OF ANALYSIS KL17010474

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2
462872		922	19.0	10	1.09	2.43	1.60	0.60	17.7	2.62	3.3	0.53	7.5	0.24	2.1
462878		905	12.2	10	0.47	1.87	1.06	0.48	16.7	1.79	2.5	0.39	4.8	0.21	1.9
462891		1175	23.6	10	0.44	1.81	1.11	0.42	14.5	1.87	2.3	0.37	10.3	0.28	2.5
462903		994	16.7	10	0.59	1.46	1.00	0.45	15.9	1.65	2.3	0.33	7.5	0.21	2.2
462912		859	16.6	10	0.74	1.71	1.11	0.44	16.9	1.92	2.7	0.36	7.1	0.20	2.5
462924		1100	22.1	20	0.52	1.58	1.12	0.36	14.3	1.66	2.1	0.33	9.9	0.24	2.3
462937		489	19.0	20	0.52	3.12	1.96	0.71	16.7	3.04	4.0	0.67	7.6	0.30	2.0
462947		678	22.1	20	1.48	2.82	1.65	0.48	15.3	2.73	4.1	0.59	8.9	0.28	2.1
462968		811	19.2	10	0.52	3.16	1.84	0.70	17.4	3.03	5.0	0.64	7.5	0.31	2.1
462985		647	19.0	30	1.20	2.85	1.75	0.57	14.8	2.66	4.2	0.60	7.8	0.28	2.0
462999		615	24.1	20	1.06	2.26	1.44	0.57	15.8	2.34	4.0	0.46	11.2	0.28	2.1
459663		636	24.5	20	0.45	3.14	1.87	0.76	17.1	3.02	4.8	0.63	9.8	0.29	2.0



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Page: 2 - B
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 4-FEB-2017
 Account: GIBMIN

Project: SGM2016-23

CERTIFICATE OF ANALYSIS KL17010474

Sample Description	Method Analyte Units LOR	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03	ME-MS81 Zr ppm 2
462872		2.67	22.5	2.86	1	351	0.1	0.41	0.74	0.21	0.49	79	1	14.4	1.57	116
462878		1.65	22.2	1.94	1	263	0.1	0.31	0.57	0.18	0.46	62	1	11.1	1.27	80
462891		2.96	16.5	2.21	<1	250	0.3	0.30	2.28	0.20	1.24	13	1	11.9	1.61	55
462903		2.14	25.8	1.90	1	252	0.1	0.26	1.10	0.15	0.85	44	1	10.0	1.22	78
462912		2.28	25.1	2.21	1	343	0.2	0.31	1.13	0.18	0.97	40	<1	11.1	1.27	87
462924		2.78	21.8	2.07	<1	229	0.2	0.28	1.57	0.16	0.79	19	<1	10.3	1.22	60
462937		2.76	23.2	3.42	1	334	0.2	0.51	1.57	0.29	1.17	101	1	18.4	1.96	137
462947		3.02	62.2	3.07	1	63.6	0.2	0.46	1.85	0.26	0.96	79	3	17.3	1.88	147
462968		2.82	20.6	3.49	1	369	0.2	0.49	0.76	0.29	0.57	87	1	18.1	1.85	180
462985		2.66	46.1	2.96	1	67.9	0.1	0.44	1.10	0.25	0.72	74	4	16.2	1.76	152
462999		2.96	47.4	2.44	1	172.5	0.2	0.35	2.25	0.22	0.75	73	2	13.2	1.65	134
459663		3.45	19.8	3.54	1	356	0.1	0.53	1.33	0.27	0.78	92	2	18.3	2.04	163



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Page: 2 - C
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 4-FEB-2017
 Account: GIBMIN

Project: SGM2016-23

CERTIFICATE OF ANALYSIS KL17010474

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
462872		69.3	15.45	3.71	3.77	1.49	4.40	1.32	<0.01	0.37	0.09	0.09	0.04	0.10	1.77	101.90
462878		67.2	15.80	3.46	3.20	1.33	4.83	1.66	<0.01	0.33	0.12	0.08	0.03	0.10	3.46	101.60
462891		75.7	13.90	1.31	2.13	0.35	4.93	1.37	<0.01	0.11	0.06	0.03	0.03	0.13	1.46	101.51
462903		71.7	14.50	2.75	2.93	0.99	4.43	1.60	<0.01	0.25	0.08	0.06	0.03	0.10	2.35	101.77
462912		71.8	15.05	2.69	3.26	0.85	4.71	1.57	<0.01	0.26	0.09	0.07	0.04	0.09	1.03	101.51
462924		73.7	13.65	1.82	2.34	0.58	4.67	1.95	<0.01	0.16	0.07	0.03	0.03	0.12	1.93	101.05
462937		64.2	15.55	4.73	4.81	2.14	4.09	1.20	<0.01	0.49	0.14	0.09	0.04	0.05	2.79	100.32
462947		65.0	14.10	5.21	3.49	1.59	0.22	3.83	<0.01	0.41	1.36	0.08	0.01	0.07	4.30	99.67
462968		66.6	15.60	4.27	4.35	1.84	3.85	1.33	<0.01	0.44	0.17	0.09	0.04	0.09	1.91	100.58
462985		68.0	12.40	6.95	1.59	1.64	0.64	2.97	<0.01	0.41	0.68	0.07	<0.01	0.07	3.33	98.75
462999		66.1	14.75	4.09	3.08	1.65	2.57	2.83	<0.01	0.39	0.35	0.06	0.02	0.07	5.62	101.58
459663		66.0	15.25	4.27	4.43	1.90	4.05	1.15	<0.01	0.45	0.13	0.09	0.04	0.07	2.30	100.13



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Page: 2 - D
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 4-FEB-2017
Account: GIBMIN

Project: SGM2016-23

CERTIFICATE OF ANALYSIS KL17010474

Sample Description	Method Analyte Units LOR	ME-MS81 TI ppm 0.5
462872		<0.5
462878		<0.5
462891		<0.5
462903		<0.5
462912		<0.5
462924		<0.5
462937		<0.5
462947		<0.5
462968		<0.5
462985		<0.5
462999		<0.5
459663		<0.5



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Total # Appendix Pages: 1
Finalized Date: 4-FEB-2017
Account: GIBMIN

Project: SGM2016-23

CERTIFICATE OF ANALYSIS KL17010474

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02
TOT-ICP06

ME-ICP06

ME-MS81

OA-GRA05



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Page: **1**
Total # Pages: **4 (A - D)**
Plus Appendix Pages
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CERTIFICATE KL17010399

Project: SGM2016-25

P.O. No.: S0218733

This report is for 100 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 19-JAN-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Mo-OG46	Ore Grade Mo - Aqua Regia	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **GIBRALTAR MINES LTD.**
ATTN: ALS MINERALS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 30 -JAN- 2017
Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17010399

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
459672		5.98	1.09	1.24	1.8	0.2	<10	50	0.10	0.40	0.93	10.10	14.25	12.0	6	0.07
459673		5.62	0.04	1.44	0.4	<0.2	<10	40	0.07	0.04	0.18	0.15	18.00	9.8	8	0.07
459674		5.72	0.04	1.37	0.4	<0.2	<10	50	0.07	0.03	0.17	0.44	10.00	9.0	10	0.05
459675		4.26	0.16	1.26	0.3	<0.2	<10	50	0.07	0.12	0.16	3.53	15.65	10.3	12	0.07
459676		6.65	0.19	1.40	0.2	<0.2	<10	50	0.08	0.03	0.27	1.22	5.75	9.2	10	0.05
459677		5.67	0.17	1.36	0.6	<0.2	<10	50	0.08	0.02	0.29	0.91	5.69	9.5	9	<0.05
459678		6.87	0.15	1.40	0.6	<0.2	<10	50	0.09	0.02	0.52	1.86	7.47	9.7	9	<0.05
459679		6.66	0.07	1.30	0.4	<0.2	<10	50	0.10	0.01	0.44	0.09	9.60	10.1	8	0.07
459680		<0.02	0.07	1.26	0.5	<0.2	<10	50	0.09	0.01	0.43	0.14	8.64	9.5	9	0.07
459681		7.09	0.04	1.03	0.5	<0.2	<10	50	0.11	0.01	0.74	0.06	6.81	7.8	8	0.13
459682		6.00	0.03	0.70	0.4	<0.2	<10	110	0.09	0.01	0.88	0.01	6.16	5.4	7	0.77
459683		3.47	0.03	0.65	0.1	<0.2	<10	100	0.09	0.01	0.89	0.01	5.97	5.2	8	0.60
459684		4.11	0.03	0.81	0.3	<0.2	<10	130	0.10	0.01	1.24	0.01	7.46	6.8	7	1.19
459685		6.72	0.02	0.82	0.3	<0.2	<10	150	0.08	0.01	0.76	0.01	5.42	5.4	9	0.60
459686		7.02	0.03	1.30	0.4	<0.2	<10	70	0.12	0.01	0.84	0.01	7.83	8.9	9	0.20
459687		6.80	0.04	1.30	0.2	<0.2	<10	50	0.07	0.02	0.80	0.05	12.80	10.1	8	0.05
459688		4.33	0.02	0.43	0.3	<0.2	<10	40	0.06	0.01	2.63	0.19	17.75	7.9	6	0.07
459689		5.97	0.03	1.02	0.2	<0.2	<10	60	0.07	0.03	0.57	0.15	27.3	8.4	6	0.08
459690		0.04	0.87	1.52	5.5	<0.2	10	120	0.27	0.18	0.97	0.38	13.20	10.8	28	0.41
459691		5.80	0.06	1.37	0.4	<0.2	<10	190	0.08	0.04	0.25	0.39	14.20	9.3	5	0.13
459692		5.80	0.06	1.12	0.3	<0.2	<10	70	0.07	0.03	0.46	0.01	8.96	7.6	6	0.37
459693		6.02	0.08	1.18	0.4	<0.2	<10	70	0.09	0.03	0.43	0.54	12.20	8.9	7	0.96
459694		5.93	0.03	1.38	0.5	<0.2	<10	100	0.13	0.01	0.33	0.02	21.2	9.7	8	0.35
459695		5.17	0.04	1.04	0.5	<0.2	<10	60	0.08	0.02	1.72	0.08	29.1	9.3	6	0.06
459696		4.12	0.15	0.50	0.2	<0.2	<10	60	0.06	0.04	2.86	0.23	25.2	10.7	6	0.08
459697		4.21	0.06	0.59	0.1	<0.2	<10	130	0.09	0.02	2.55	0.52	23.0	7.7	6	0.10
459698		3.87	1.25	1.54	1.2	<0.2	<10	50	0.10	0.75	0.50	17.95	17.40	17.2	6	0.12
459699		2.27	0.21	1.40	0.4	<0.2	<10	50	0.11	0.25	0.20	1.14	20.4	13.8	7	0.11
459700		<0.02	0.18	1.49	0.3	<0.2	<10	50	0.11	0.23	0.21	1.06	19.85	14.0	7	0.11
459701		7.18	0.16	1.37	0.2	<0.2	<10	40	0.13	0.02	0.36	0.02	11.70	10.9	7	0.17
459702		4.98	0.12	1.40	0.2	<0.2	<10	50	0.12	0.05	0.30	0.35	16.45	10.8	6	0.13
459703		3.69	0.37	1.44	0.4	<0.2	<10	50	0.10	0.26	0.22	5.88	20.5	12.0	5	0.13
459704		4.97	0.13	1.51	0.2	<0.2	<10	40	0.11	0.10	0.36	0.02	12.20	11.1	7	0.08
459705		2.25	1.53	1.90	1.1	<0.2	<10	60	0.11	0.34	0.15	20.9	25.0	10.3	6	0.16
459706		4.50	0.97	1.60	1.8	<0.2	<10	60	0.09	0.68	0.21	11.15	20.1	12.6	6	0.14
459707		7.14	0.83	1.73	1.4	<0.2	<10	50	0.09	0.63	0.22	15.45	10.80	22.4	5	0.12
459708		5.73	0.25	1.51	0.2	<0.2	<10	60	0.09	0.06	0.33	2.43	15.10	12.7	5	0.14
459709		4.52	0.11	1.42	0.1	<0.2	<10	60	0.13	0.01	0.46	0.04	13.60	10.1	6	0.38
459710		<0.02	0.29	0.99	66.5	0.4	10	90	4.79	4.74	0.09	0.04	78.5	75.1	23	0.93
459711		3.89	0.13	1.37	0.2	<0.2	<10	70	0.16	0.02	0.54	0.30	12.15	11.0	6	0.56



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Page: 2 - B
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Plus Appendix Pages
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Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17010399

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
459672		146.5	3.29	3.70	0.05	<0.02	0.15	0.224	0.11	5.4	5.0	0.88	1600	8.05	0.02
459673		14.5	2.57	4.57	0.05	<0.02	0.01	0.013	0.09	7.6	6.8	0.98	603	0.56	0.03
459674		19.5	2.29	4.31	<0.05	<0.02	<0.01	0.014	0.09	3.9	6.2	0.84	695	1.00	0.04
459675		78.2	2.96	3.83	<0.05	<0.02	0.05	0.156	0.12	6.2	5.5	0.74	2030	1.91	0.03
459676		41.9	2.20	4.09	<0.05	<0.02	0.02	0.037	0.10	2.2	6.0	0.93	968	0.96	0.03
459677		55.5	2.06	3.79	<0.05	0.02	0.01	0.031	0.10	2.3	5.4	0.94	729	1.07	0.03
459678		57.7	2.01	3.92	0.05	0.04	0.01	0.038	0.10	3.0	5.0	0.99	958	0.89	0.03
459679		27.4	1.92	4.05	<0.05	0.04	0.01	0.008	0.09	3.5	4.9	0.99	516	0.67	0.02
459680		26.8	1.86	3.88	0.05	0.04	0.01	0.006	0.09	3.2	4.6	0.95	511	1.11	0.02
459681		15.4	1.51	3.20	<0.05	0.04	<0.01	<0.005	0.15	2.5	4.1	0.77	529	0.89	0.03
459682		16.5	0.96	2.13	<0.05	0.04	0.01	<0.005	0.41	2.6	3.2	0.43	436	0.81	0.03
459683		10.2	0.94	2.02	<0.05	0.02	0.01	<0.005	0.41	2.6	2.8	0.35	415	1.05	0.03
459684		15.4	1.33	2.59	<0.05	0.03	0.01	0.007	0.52	3.1	4.2	0.51	570	1.02	0.03
459685		9.9	1.15	2.45	<0.05	0.03	0.01	<0.005	0.34	2.3	3.8	0.50	315	0.73	0.03
459686		20.6	1.87	4.06	<0.05	0.05	<0.01	0.005	0.15	3.1	5.3	0.93	500	0.86	0.03
459687		23.2	2.31	4.37	<0.05	0.02	<0.01	0.009	0.11	5.0	6.6	0.98	562	0.88	0.04
459688		7.8	2.22	1.36	<0.05	<0.02	<0.01	0.013	0.09	7.4	1.7	0.98	959	0.57	0.04
459689		17.2	2.36	3.30	0.06	<0.02	0.01	0.013	0.11	11.0	5.8	0.71	1980	1.31	0.03
459690		3200	3.09	5.68	0.09	0.23	0.04	0.049	0.20	6.5	9.5	0.76	463	239	0.08
459691		46.0	2.22	4.12	0.05	0.03	0.01	0.016	0.12	5.4	6.2	0.92	503	0.83	0.03
459692		38.6	1.56	3.41	<0.05	0.06	<0.01	0.005	0.17	3.1	5.0	0.77	364	0.82	0.02
459693		64.8	1.57	3.89	0.05	0.06	0.01	0.011	0.23	4.3	6.1	0.83	483	0.65	0.03
459694		23.5	2.00	4.67	0.06	0.04	<0.01	0.010	0.15	8.3	7.2	1.06	511	0.97	0.03
459695		21.0	2.56	3.62	0.06	<0.02	<0.01	0.010	0.11	11.7	5.4	1.31	1120	0.76	0.03
459696		70.8	2.48	1.82	<0.05	<0.02	<0.01	0.011	0.09	10.0	2.6	1.12	1220	1.38	0.06
459697		26.0	2.77	1.81	0.05	0.02	0.02	0.024	0.09	9.2	2.9	0.99	3300	3.16	0.04
459698		346	4.30	3.93	0.06	<0.02	0.38	1.110	0.17	6.9	9.6	1.00	4460	71.1	0.01
459699		62.6	2.40	4.02	0.06	0.02	0.02	0.041	0.14	7.9	9.5	1.01	1520	12.65	0.02
459700		48.3	2.51	4.09	0.05	0.02	0.02	0.035	0.15	7.7	9.7	1.07	1560	14.35	0.02
459701		49.0	1.88	3.83	<0.05	0.05	0.01	0.021	0.08	4.5	8.2	1.08	591	1.87	0.03
459702		35.7	2.20	3.90	0.05	0.03	0.01	0.029	0.10	6.2	8.3	1.06	845	1.19	0.03
459703		106.5	2.70	3.74	0.05	0.02	0.04	0.290	0.15	7.9	8.9	0.98	1770	2.67	0.02
459704		42.3	2.16	4.34	<0.05	0.04	0.01	0.028	0.09	4.4	9.0	1.14	714	0.74	0.03
459705		556	4.64	5.07	0.07	<0.02	0.08	1.945	0.21	10.0	9.2	1.05	3290	0.92	0.01
459706		359	4.22	4.09	0.06	<0.02	0.05	1.030	0.21	7.3	8.1	0.94	3680	2.44	0.01
459707		320	4.90	4.22	<0.05	<0.02	0.07	0.851	0.18	4.2	8.0	1.12	1630	8.66	0.01
459708		161.5	2.52	4.34	<0.05	0.03	0.02	0.019	0.12	5.5	7.6	1.17	950	0.70	0.02
459709		126.5	2.14	4.23	<0.05	0.04	0.01	0.011	0.14	4.7	7.6	1.08	519	0.45	0.03
459710		1415	3.58	3.18	0.12	0.62	0.03	0.202	0.52	38.1	3.2	0.12	292	3.17	0.01
459711		147.5	1.98	3.91	<0.05	0.04	0.01	0.022	0.21	4.3	7.3	1.02	734	0.46	0.03



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Page: 2 - C
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 30 - JAN - 2017
Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17010399

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
459672		7.8	470	2.9	1.9	0.001	1.42	0.14	2.5	0.7	0.2	25.1	<0.01	0.29	1.5
459673		8.4	450	1.7	1.6	<0.001	0.02	0.08	1.9	0.4	<0.2	11.8	<0.01	0.01	1.3
459674		7.5	400	1.0	1.6	<0.001	0.07	0.05	1.8	0.2	<0.2	14.6	<0.01	0.02	0.8
459675		7.6	340	1.0	2.2	<0.001	0.57	<0.05	1.7	0.3	<0.2	9.0	<0.01	0.07	1.1
459676		8.3	420	1.0	1.8	<0.001	0.15	0.09	1.5	0.4	<0.2	22.9	<0.01	0.04	1.1
459677		8.2	430	0.6	1.7	<0.001	0.09	0.08	1.3	0.3	<0.2	24.2	<0.01	0.02	1.4
459678		8.3	440	0.6	1.7	<0.001	0.14	0.14	1.4	0.3	0.2	31.0	<0.01	0.05	1.6
459679		7.9	450	1.1	1.8	<0.001	0.02	0.15	1.5	0.3	0.2	30.8	<0.01	<0.01	1.6
459680		7.4	440	0.9	1.7	<0.001	0.01	0.15	1.4	0.3	0.2	28.7	<0.01	<0.01	1.5
459681		6.4	370	0.6	3.5	<0.001	0.03	0.15	1.3	0.3	0.2	32.2	<0.01	0.02	0.8
459682		3.9	290	0.7	11.3	<0.001	0.04	0.13	1.1	0.3	<0.2	30.3	<0.01	0.01	0.8
459683		4.0	250	0.9	9.9	<0.001	0.06	0.18	1.0	0.2	<0.2	30.5	<0.01	<0.01	0.6
459684		5.1	270	1.1	14.2	<0.001	0.07	0.16	1.5	0.2	<0.2	41.9	<0.01	<0.01	0.6
459685		4.7	280	0.7	8.9	<0.001	<0.01	0.18	0.9	<0.2	<0.2	32.4	<0.01	0.01	0.8
459686		7.9	400	0.8	4.0	<0.001	<0.01	0.23	1.6	0.3	0.2	44.4	<0.01	<0.01	1.0
459687		8.3	420	1.0	2.2	<0.001	0.01	0.09	2.1	0.3	<0.2	31.2	<0.01	<0.01	1.3
459688		5.2	370	0.9	1.8	<0.001	0.02	<0.05	1.7	0.3	<0.2	69.4	<0.01	0.01	2.0
459689		5.6	400	1.0	2.0	<0.001	0.02	<0.05	2.5	0.6	<0.2	19.7	<0.01	0.02	1.5
459690		22.8	650	8.5	9.2	0.233	0.44	2.41	5.2	1.2	1.0	42.7	<0.01	0.11	1.9
459691		5.7	430	1.0	2.0	<0.001	0.04	0.15	2.0	0.3	<0.2	23.9	<0.01	0.01	1.1
459692		4.8	440	1.1	4.5	0.001	0.01	0.26	1.8	0.3	0.2	45.1	<0.01	0.01	0.8
459693		5.2	450	1.1	7.6	<0.001	0.05	0.30	2.3	0.4	0.3	40.4	<0.01	<0.01	1.7
459694		6.0	410	1.4	3.9	<0.001	<0.01	0.29	2.2	0.6	0.2	31.3	<0.01	0.01	1.7
459695		5.6	430	0.7	1.9	<0.001	0.01	0.06	2.3	0.4	<0.2	38.3	<0.01	<0.01	1.9
459696		5.0	430	0.8	1.6	<0.001	0.05	0.06	1.9	0.5	<0.2	59.8	<0.01	0.03	1.4
459697		4.5	410	1.3	1.6	<0.001	0.03	<0.05	3.7	0.6	<0.2	59.2	<0.01	0.02	1.4
459698		8.8	330	2.0	3.0	0.011	1.82	0.14	3.0	0.6	<0.2	11.4	<0.01	0.62	1.8
459699		6.6	480	1.5	2.6	0.002	0.41	0.20	2.6	0.3	<0.2	11.0	<0.01	0.08	1.8
459700		6.4	490	1.6	2.6	0.002	0.42	0.19	2.6	0.2	<0.2	12.3	<0.01	0.06	1.8
459701		5.9	430	1.6	1.6	0.001	0.03	0.40	1.7	0.2	0.2	30.7	<0.01	0.01	2.1
459702		6.4	460	2.2	1.8	<0.001	0.07	0.31	1.7	0.2	0.2	24.9	<0.01	0.02	1.2
459703		6.4	450	3.2	2.6	0.001	0.46	0.23	3.2	0.3	0.2	13.7	<0.01	0.07	1.5
459704		6.4	460	1.7	1.6	<0.001	0.02	0.28	2.0	0.3	0.2	30.7	<0.01	0.01	1.3
459705		7.2	420	0.3	3.7	0.001	1.41	0.12	2.4	0.4	<0.2	6.1	<0.01	0.25	2.1
459706		6.7	570	1.0	3.7	0.001	1.67	0.12	3.0	0.5	<0.2	6.3	<0.01	0.39	1.4
459707		7.3	580	1.7	3.2	0.003	2.61	0.13	1.4	0.3	0.2	11.3	<0.01	0.50	1.2
459708		5.9	610	0.9	2.5	<0.001	0.30	0.21	1.7	0.3	0.2	24.9	<0.01	0.04	1.3
459709		5.6	560	0.8	3.7	<0.001	0.03	0.24	1.9	0.2	0.2	43.9	<0.01	<0.01	1.0
459710		34.3	580	13.4	22.7	0.002	0.03	1.45	5.3	2.7	0.5	19.7	<0.01	0.07	8.4
459711		5.5	590	0.7	6.3	<0.001	0.09	0.20	1.9	0.3	0.2	48.5	<0.01	0.01	0.9



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Page: 2 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 30 - JAN - 2017
 Account: GIBMIN

Project: SGM2016 - 25

CERTIFICATE OF ANALYSIS KL17010399

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
459672		<0.02	0.54	21	<0.05	8.00	4720	<0.5			0.123
459673		<0.02	0.38	24	<0.05	4.88	139	<0.5			
459674		<0.02	0.24	18	<0.05	4.77	307	<0.5			
459675		<0.02	0.24	15	<0.05	8.08	1530	<0.5			
459676		<0.02	0.36	16	<0.05	4.20	757	<0.5			
459677		<0.02	0.34	15	<0.05	3.57	552	<0.5			
459678		<0.02	0.40	17	<0.05	5.08	985	0.5			
459679		<0.02	0.41	18	<0.05	5.75	145	<0.5			
459680		<0.02	0.40	18	<0.05	5.50	146	<0.5			
459681		0.02	0.46	13	<0.05	5.36	92	<0.5			
459682		0.09	0.51	10	<0.05	3.60	30	<0.5			
459683		0.07	0.27	8	<0.05	3.30	29	<0.5			
459684		0.10	0.28	12	<0.05	5.14	40	<0.5			
459685		0.06	0.39	10	<0.05	3.34	33	<0.5			
459686		0.03	0.44	21	<0.05	5.67	59	<0.5			
459687		<0.02	0.45	20	<0.05	6.23	90	<0.5			
459688		<0.02	0.93	10	<0.05	5.67	101	<0.5			
459689		<0.02	0.38	15	<0.05	12.35	190	<0.5			
459690		0.10	0.36	61	14.10	7.90	58	6.1	0.314	0.028	
459691		<0.02	0.39	18	<0.05	7.77	283	<0.5			
459692		0.04	0.29	17	<0.05	7.36	66	0.5			
459693		0.06	0.37	20	<0.05	8.44	191	0.5			
459694		0.03	0.45	20	<0.05	10.30	61	<0.5			
459695		<0.02	0.45	19	<0.05	12.55	95	<0.5			
459696		<0.02	0.33	19	<0.05	6.47	115	<0.5			
459697		<0.02	0.47	16	<0.05	13.30	287	<0.5			
459698		0.03	0.43	15	0.16	12.40	9380	<0.5			
459699		<0.02	0.41	16	<0.05	8.85	657	<0.5			
459700		0.02	0.42	17	<0.05	8.71	638	<0.5			
459701		<0.02	0.38	19	<0.05	7.32	153	<0.5			
459702		<0.02	0.39	22	<0.05	6.59	414	<0.5			
459703		0.02	0.49	20	0.05	8.91	3100	<0.5			
459704		<0.02	0.55	21	<0.05	7.94	163	<0.5			
459705		0.03	0.41	17	0.20	9.23	>10000	<0.5			
459706		0.03	0.47	15	0.23	11.25	5620	<0.5			
459707		0.03	0.26	15	0.15	3.92	7670	<0.5			
459708		0.02	0.31	21	<0.05	7.49	1240	<0.5			
459709		0.03	0.20	22	<0.05	8.33	74	<0.5			
459710		0.34	5.78	21	1.08	17.85	20	21.8			0.369
459711		0.05	0.26	20	<0.05	9.11	228	<0.5			



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Page: 3 - A
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 30 - JAN - 2017
Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17010399

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
459712		7.27	0.05	1.38	0.2	<0.2	<10	70	0.15	0.01	0.61	0.03	9.77	11.0	8	0.46
459713		6.35	0.18	1.54	0.2	<0.2	<10	60	0.13	0.03	0.39	0.02	15.40	11.2	5	0.33
459714		7.30	0.41	1.52	0.3	<0.2	<10	60	0.09	0.07	0.82	1.40	11.55	12.1	5	0.08
459715		7.36	0.26	1.47	0.3	<0.2	<10	90	0.12	0.02	1.76	0.08	7.92	12.1	6	0.09
459716		7.33	0.44	1.43	0.3	<0.2	<10	60	0.11	0.02	1.60	0.06	8.64	11.1	6	0.21
459717		7.89	0.21	1.34	0.3	<0.2	<10	50	0.12	0.01	1.03	0.03	7.84	11.7	7	0.08
459718		6.69	0.08	1.34	0.2	<0.2	<10	100	0.12	0.02	0.78	0.03	16.45	11.7	6	0.22
459719		6.54	0.24	1.49	0.2	<0.2	<10	50	0.14	0.02	0.40	0.02	17.20	10.6	5	0.16
459720		<0.02	0.25	1.53	0.2	<0.2	<10	50	0.12	0.02	0.41	0.03	18.00	11.1	6	0.17
459721		6.97	0.26	1.59	0.1	<0.2	<10	90	0.08	0.07	0.20	0.29	11.35	10.0	5	0.11
459722		6.80	0.34	1.58	0.2	<0.2	<10	70	0.09	0.06	0.39	0.02	13.90	10.6	7	0.07
459723		2.55	0.15	1.31	0.1	<0.2	<10	60	0.11	0.02	0.79	0.01	9.50	9.1	6	0.05
459724		4.74	0.18	1.35	0.2	<0.2	<10	60	0.10	0.02	0.67	0.01	7.98	9.7	7	0.08
459725		7.00	0.16	1.42	0.3	<0.2	<10	60	0.10	0.02	0.80	0.01	7.44	9.0	8	0.10
459726		6.93	0.16	1.23	0.2	<0.2	<10	70	0.09	0.01	1.06	0.02	7.02	8.6	7	0.10
459727		5.77	0.17	1.23	0.2	<0.2	<10	50	0.09	0.02	0.69	0.04	12.50	8.7	6	0.26
459728		7.18	0.16	1.27	0.3	<0.2	<10	50	0.11	0.02	1.05	0.08	9.30	9.8	8	0.29
459729		6.57	0.28	1.36	0.4	<0.2	<10	60	0.11	0.04	1.68	0.13	14.85	8.7	6	0.26
459730		0.06	0.82	2.02	19.6	0.3	<10	380	0.50	1.81	1.01	0.06	61.3	15.0	88	9.52
459731		7.20	0.25	1.59	0.1	<0.2	<10	60	0.09	0.02	1.42	0.12	10.35	9.3	6	0.22
459732		7.30	0.10	1.53	0.3	<0.2	<10	70	0.11	0.02	1.08	0.14	8.12	10.2	6	0.26
459733		6.54	0.17	1.56	0.4	<0.2	<10	70	0.11	0.02	1.61	0.42	9.93	10.7	8	0.20
459734		6.93	0.15	1.52	0.4	<0.2	<10	100	0.12	0.02	1.79	0.26	11.85	10.1	5	0.32
459735		7.22	0.07	1.67	0.5	<0.2	<10	40	0.09	0.03	2.32	0.14	14.70	10.5	6	0.18
459736		7.02	0.12	1.34	0.3	<0.2	<10	40	0.09	0.04	2.92	0.26	18.55	10.8	6	0.14
459737		4.79	0.08	1.41	0.2	<0.2	<10	40	0.11	0.06	3.96	0.20	19.50	11.2	4	0.20
459738		4.63	0.23	1.67	0.3	<0.2	<10	50	0.10	0.03	2.43	0.10	10.40	12.1	5	0.12
459739		3.71	0.11	1.50	0.5	<0.2	<10	40	0.11	0.02	1.60	0.17	7.89	12.3	6	0.23
459740		<0.02	0.10	1.48	0.4	<0.2	<10	40	0.10	0.02	1.57	0.18	7.49	11.6	6	0.22
459741		6.10	0.12	1.42	0.5	<0.2	<10	30	0.11	0.02	1.00	0.18	7.01	11.6	5	0.06
459742		5.98	0.21	1.49	0.6	<0.2	<10	40	0.10	0.02	0.84	0.17	6.10	11.3	6	0.05
459743		4.57	0.21	1.49	1.0	<0.2	<10	40	0.10	0.02	1.05	0.15	6.65	11.4	7	0.07
459744		7.37	0.15	1.49	0.4	<0.2	<10	120	0.18	0.16	3.28	1.02	14.70	10.2	5	0.38
459745		3.53	0.35	1.35	0.4	<0.2	<10	60	0.07	0.05	1.61	0.19	7.59	12.0	5	0.07
459746		6.38	0.09	1.17	0.3	<0.2	<10	70	0.09	0.03	1.37	0.04	6.84	9.7	4	0.09
459747		7.35	0.34	1.13	0.8	<0.2	<10	80	0.11	0.07	1.06	0.04	6.02	10.4	4	0.14
459748		7.22	0.54	1.10	0.5	<0.2	<10	80	0.12	0.17	1.36	0.09	7.98	9.1	5	0.14
459749		6.89	0.24	1.17	0.4	<0.2	<10	90	0.09	0.10	2.11	0.12	6.36	13.1	3	0.06
459750		0.04	2.72	1.64	25.2	0.4	10	60	0.32	1.03	0.85	2.31	9.37	10.7	29	3.86
459751		6.33	0.34	1.11	0.6	<0.2	<10	70	0.07	0.05	1.04	0.06	9.15	9.7	4	0.05



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Page: 3 - B
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 30-JAN-2017
Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17010399

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
459712		54.5	1.98	3.99	<0.05	0.05	<0.01	0.007	0.20	3.5	7.5	1.09	524	0.64	0.03
459713		137.5	2.49	4.51	0.05	0.03	0.01	0.014	0.11	5.5	7.5	1.16	684	0.63	0.03
459714		263	2.58	4.31	<0.05	0.05	0.02	0.045	0.12	3.9	7.5	1.14	1400	0.62	0.03
459715		187.5	2.22	4.23	<0.05	0.05	0.01	0.009	0.13	3.0	7.2	1.12	1610	1.74	0.04
459716		356	2.12	4.23	<0.05	0.05	<0.01	0.010	0.11	3.0	7.6	1.15	1340	3.52	0.03
459717		170.5	1.91	3.90	<0.05	0.06	<0.01	0.007	0.09	2.8	7.7	1.14	937	0.68	0.03
459718		73.4	2.33	4.18	0.05	0.03	<0.01	0.012	0.11	6.1	7.7	1.09	859	15.75	0.03
459719		294	2.46	4.50	0.05	0.03	0.01	0.015	0.09	6.1	8.2	1.22	654	14.05	0.03
459720		303	2.51	4.71	0.05	0.03	<0.01	0.015	0.09	6.6	8.4	1.26	671	11.20	0.03
459721		199.0	2.64	5.24	<0.05	<0.02	0.02	0.022	0.10	4.2	10.0	1.11	599	14.45	0.03
459722		218	2.74	5.42	0.05	0.04	0.01	0.012	0.08	5.2	10.2	1.11	535	15.35	0.04
459723		177.0	1.97	3.94	<0.05	0.09	0.01	0.008	0.08	3.5	7.5	0.96	534	4.84	0.03
459724		211	2.11	4.25	<0.05	0.08	<0.01	0.008	0.08	3.0	8.0	1.08	662	5.48	0.03
459725		215	2.21	4.69	<0.05	0.08	0.01	0.009	0.10	3.1	8.7	1.17	704	3.68	0.03
459726		148.5	1.88	3.70	<0.05	0.09	<0.01	0.005	0.11	3.0	7.2	0.95	583	1.01	0.03
459727		142.0	2.08	3.80	<0.05	0.06	<0.01	0.012	0.08	4.7	7.6	0.95	513	1.49	0.03
459728		137.5	1.99	3.64	<0.05	0.08	<0.01	0.009	0.09	3.5	7.0	0.94	612	1.53	0.03
459729		185.0	2.72	4.33	0.05	0.03	<0.01	0.042	0.11	5.7	8.6	1.05	1290	1.80	0.03
459730		2740	4.11	8.69	0.16	0.40	0.02	0.184	1.10	30.2	32.1	1.23	383	90.9	0.16
459731		228	2.86	5.19	<0.05	0.03	0.01	0.053	0.12	4.0	9.7	1.28	1520	1.45	0.03
459732		62.8	3.01	4.70	<0.05	0.02	0.01	0.064	0.15	3.2	9.4	1.17	1400	1.59	0.03
459733		70.2	3.00	4.90	<0.05	0.03	0.01	0.087	0.11	3.8	9.7	1.21	1580	1.00	0.03
459734		125.5	2.64	4.54	0.07	0.03	0.01	0.058	0.08	4.6	9.7	1.15	1620	1.37	0.03
459735		37.2	3.07	5.84	0.08	<0.02	0.01	0.053	0.06	5.8	12.1	1.20	1490	3.57	0.03
459736		66.7	2.92	4.57	0.07	<0.02	0.01	0.022	0.09	7.6	8.8	1.06	1750	1.40	0.04
459737		34.2	2.84	3.92	0.07	<0.02	<0.01	0.019	0.08	7.7	9.9	1.08	2120	10.40	0.03
459738		139.5	2.84	5.18	0.07	<0.02	0.01	0.020	0.10	4.0	11.1	1.19	1930	5.32	0.03
459739		76.9	2.38	4.09	0.06	0.03	0.01	0.013	0.08	3.1	10.0	1.14	1660	8.06	0.03
459740		71.8	2.33	3.86	0.06	0.02	0.01	0.013	0.07	3.0	9.7	1.14	1640	5.36	0.02
459741		96.9	2.06	3.71	0.06	0.07	0.01	<0.005	0.06	2.7	9.1	1.18	1350	2.30	0.03
459742		132.5	2.17	4.35	0.06	0.06	0.01	0.005	0.05	2.4	9.2	1.32	1430	12.40	0.03
459743		136.5	2.17	4.02	0.06	0.05	0.01	0.005	0.06	2.8	8.5	1.20	1580	3.07	0.03
459744		71.4	2.73	3.88	0.06	<0.02	0.02	0.053	0.11	5.8	8.0	1.07	2550	12.25	0.02
459745		220	2.34	4.16	0.06	0.03	0.01	0.008	0.10	3.1	7.4	1.07	1860	5.48	0.03
459746		48.3	1.77	3.26	0.05	0.07	<0.01	0.006	0.11	2.9	6.3	0.96	1300	1.55	0.03
459747		172.5	1.71	3.06	0.05	0.07	0.01	<0.005	0.15	2.4	6.0	0.92	1080	3.38	0.03
459748		394	1.62	3.30	0.05	0.04	0.01	0.008	0.13	2.9	5.8	0.84	918	36.2	0.03
459749		133.0	2.14	3.39	<0.05	0.02	0.01	0.007	0.16	2.5	5.8	0.85	1640	7.55	0.04
459750		2530	4.48	4.65	0.07	0.03	0.05	0.134	0.29	4.7	16.2	0.57	749	221	0.05
459751		177.0	1.70	3.18	0.05	0.04	<0.01	<0.005	0.09	3.1	5.1	0.84	914	1.39	0.04



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Page: 3 - C
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 30-JAN-2017
Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17010399

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	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
459712		6.8	510	0.4	5.9	<0.001	0.03	0.21	1.8	0.2	0.2	40.8	<0.01	0.01	1.2	0.057
459713		6.1	620	1.8	2.6	<0.001	0.04	0.27	1.9	0.2	0.2	33.9	<0.01	<0.01	1.0	0.013
459714		6.5	610	0.9	2.2	<0.001	0.35	0.19	2.2	0.3	0.2	32.4	<0.01	0.06	0.8	0.030
459715		6.0	680	0.5	2.5	<0.001	0.22	0.16	1.8	0.2	0.2	57.7	<0.01	0.06	0.4	0.063
459716		6.1	490	0.4	2.3	0.001	0.08	0.21	2.3	0.2	0.2	57.3	<0.01	0.03	0.5	0.042
459717		6.3	470	0.4	1.8	<0.001	0.06	0.22	1.6	0.2	0.2	41.4	<0.01	0.02	0.7	0.057
459718		5.8	540	1.1	2.5	0.002	0.11	0.33	2.4	0.4	0.2	37.2	<0.01	0.01	1.0	0.015
459719		5.5	520	1.6	1.6	0.002	0.07	0.36	2.0	0.3	0.2	29.3	<0.01	0.01	1.1	0.012
459720		5.9	530	1.7	1.7	0.003	0.07	0.37	2.0	0.4	0.2	30.9	<0.01	0.01	1.2	0.012
459721		5.6	530	0.5	1.8	0.002	0.06	0.09	2.2	0.3	<0.2	17.9	<0.01	0.03	0.9	0.008
459722		5.3	540	0.5	1.5	0.002	0.02	0.14	2.5	0.3	0.2	29.2	<0.01	0.02	1.2	0.022
459723		4.6	520	0.4	1.5	0.001	0.02	0.24	1.9	0.3	0.2	47.0	<0.01	0.01	1.0	0.073
459724		4.7	530	<0.2	1.5	0.001	0.02	0.22	1.9	0.3	0.2	35.5	<0.01	<0.01	0.8	0.065
459725		4.8	520	<0.2	2.1	0.001	0.02	0.17	2.1	0.2	0.2	35.6	<0.01	0.01	0.8	0.080
459726		4.4	500	<0.2	2.1	<0.001	0.04	0.15	1.8	0.3	0.2	40.4	<0.01	0.01	0.9	0.089
459727		4.4	520	0.9	1.6	<0.001	0.03	0.25	1.9	0.3	0.2	37.4	<0.01	0.01	1.2	0.026
459728		4.8	520	0.4	1.7	0.001	0.05	0.18	2.1	0.3	0.2	50.6	<0.01	0.01	1.0	0.063
459729		4.5	540	0.6	2.1	<0.001	0.16	0.21	3.7	0.5	0.2	65.6	<0.01	0.02	1.0	0.026
459730		38.6	1040	9.1	122.0	0.003	0.37	0.52	7.1	2.8	4.5	59.5	<0.01	0.07	16.6	0.347
459731		5.0	580	0.2	2.7	<0.001	0.10	0.10	2.8	0.2	0.2	47.1	<0.01	0.02	0.9	0.036
459732		6.1	500	0.3	3.3	0.001	0.23	0.11	2.2	0.2	0.2	47.4	<0.01	0.01	0.9	0.032
459733		7.1	520	0.6	2.2	<0.001	0.22	0.21	3.0	0.2	0.2	60.7	<0.01	0.01	1.0	0.028
459734		7.5	530	3.4	1.7	0.001	0.06	0.22	3.6	0.2	0.2	69.2	<0.01	0.01	1.1	0.023
459735		6.5	500	2.1	1.3	0.001	0.04	0.15	4.6	0.3	0.2	67.2	<0.01	<0.01	1.0	0.007
459736		6.0	500	1.4	1.6	0.001	0.08	0.07	3.1	0.3	<0.2	61.8	<0.01	0.01	1.2	0.006
459737		6.2	430	1.1	1.6	0.003	0.07	<0.05	2.6	0.3	<0.2	75.1	<0.01	0.01	1.3	<0.005
459738		6.1	470	1.0	1.9	0.001	0.13	0.05	3.0	0.2	<0.2	47.9	<0.01	0.01	1.3	0.006
459739		6.3	460	1.2	1.6	0.002	0.25	0.12	1.9	<0.2	<0.2	50.6	<0.01	0.04	1.3	0.007
459740		6.0	460	1.1	1.4	0.001	0.25	0.11	1.8	0.2	<0.2	47.2	<0.01	0.03	1.3	0.007
459741		5.5	460	0.9	1.0	0.001	0.29	0.13	1.5	0.2	0.2	38.5	<0.01	0.03	1.3	0.039
459742		5.5	450	0.7	0.9	0.007	0.26	0.13	1.6	0.2	0.2	32.2	<0.01	0.03	1.1	0.042
459743		5.8	460	0.9	1.1	0.001	0.20	0.12	1.6	<0.2	<0.2	38.0	<0.01	0.04	1.1	0.030
459744		5.1	440	3.2	2.1	0.003	0.18	0.14	3.6	0.3	0.2	84.2	<0.01	0.04	1.2	<0.005
459745		4.7	480	1.0	1.7	0.001	0.43	0.11	1.9	0.2	<0.2	45.0	<0.01	0.03	0.5	0.031
459746		4.5	490	0.8	1.9	<0.001	0.29	0.16	1.4	<0.2	0.2	46.9	<0.01	0.02	0.5	0.054
459747		4.7	490	0.7	3.1	0.001	0.42	0.13	1.3	0.2	0.2	37.9	<0.01	0.07	0.4	0.057
459748		4.6	520	0.8	2.9	0.006	0.22	0.10	1.6	0.2	0.2	54.6	<0.01	0.04	0.4	0.033
459749		4.5	480	0.9	2.8	0.001	0.66	0.07	1.4	<0.2	<0.2	56.6	<0.01	0.08	0.4	0.021
459750		20.9	730	73.7	14.0	0.211	2.19	1.81	2.5	3.8	0.6	51.7	<0.01	0.59	3.1	0.042
459751		4.2	450	0.8	1.5	<0.001	0.29	0.10	1.2	0.2	<0.2	45.5	<0.01	0.04	0.5	0.018



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Page: 3 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 30 -JAN- 2017
 Account: GIBMIN

Project: SGM2016 -25

CERTIFICATE OF ANALYSIS KL17010399

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46	Mo-OG46	Au-AA23
		Tl	U	V	W	Y	Zn	Zr	Cu	Mo	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001	0.005
459712		0.04	0.37	23	<0.05	7.67	89	<0.5			
459713		0.02	0.59	30	<0.05	7.69	171	<0.5			
459714		<0.02	0.36	21	<0.05	8.66	940	<0.5			
459715		0.02	0.33	19	<0.05	7.60	229	0.6			
459716		<0.02	0.23	21	<0.05	8.30	174	0.5			
459717		<0.02	0.25	18	<0.05	7.11	128	0.5			
459718		0.02	0.45	26	<0.05	9.88	83	<0.5			
459719		<0.02	0.41	29	<0.05	9.37	68	<0.5			
459720		<0.02	0.52	30	<0.05	9.61	70	<0.5			
459721		<0.02	0.32	24	<0.05	7.65	371	<0.5			
459722		<0.02	0.46	31	<0.05	10.10	147	0.5			
459723		<0.02	0.24	20	<0.05	9.29	82	0.9			
459724		<0.02	0.22	21	<0.05	8.24	99	0.8			
459725		<0.02	0.25	24	<0.05	8.33	92	0.8			
459726		<0.02	0.30	19	<0.05	6.74	91	0.9			
459727		<0.02	0.37	24	<0.05	8.07	115	0.6			
459728		<0.02	0.26	20	<0.05	7.96	135	0.8			
459729		<0.02	0.33	27	<0.05	11.55	264	<0.5			
459730		0.69	4.77	111	2.11	16.40	79	9.5	0.259		0.248
459731		0.02	0.31	28	<0.05	7.65	380	<0.5			
459732		0.02	0.26	22	<0.05	6.58	351	<0.5			
459733		<0.02	0.28	26	<0.05	7.32	380	<0.5			
459734		<0.02	0.34	28	<0.05	8.59	286	<0.5			
459735		<0.02	0.44	40	0.05	8.16	209	<0.5			
459736		<0.02	0.51	26	<0.05	7.18	154	<0.5			
459737		<0.02	0.39	21	<0.05	7.57	145	<0.5			
459738		<0.02	0.45	25	<0.05	6.94	106	<0.5			
459739		<0.02	0.43	20	<0.05	5.40	192	<0.5			
459740		<0.02	0.35	20	0.06	5.09	193	<0.5			
459741		<0.02	0.44	18	<0.05	6.19	208	0.7			
459742		<0.02	0.50	21	<0.05	5.76	261	0.5			
459743		<0.02	0.32	19	<0.05	4.53	235	0.5			
459744		<0.02	0.61	24	0.05	7.57	526	<0.5			
459745		<0.02	0.23	18	<0.05	4.80	221	<0.5			
459746		<0.02	0.25	16	<0.05	5.31	82	0.6			
459747		0.02	0.21	14	<0.05	4.92	71	0.7			
459748		0.02	0.29	14	<0.05	5.89	82	<0.5			
459749		<0.02	0.28	13	<0.05	5.14	119	<0.5			
459750		0.29	0.68	31	1.62	4.61	455	0.9	0.244	0.026	0.355
459751		<0.02	0.37	13	<0.05	6.65	59	<0.5			



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Page: 4 - A
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 30-JAN-2017
 Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17010399

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
459752		6.41	0.22	1.11	0.9	<0.2	<10	60	0.10	0.08	1.32	0.05	11.35	9.5	5	0.11
459753		6.46	0.36	0.72	0.6	<0.2	<10	70	0.08	0.07	0.76	0.14	6.67	7.1	4	0.08
459754		7.10	0.50	0.83	0.5	<0.2	<10	70	0.08	0.11	1.00	0.04	7.26	7.0	5	0.05
459755		7.29	0.58	1.38	0.4	<0.2	<10	100	0.13	0.08	0.74	0.20	10.30	10.8	6	0.51
459756		6.94	0.32	1.06	0.5	<0.2	<10	90	0.14	0.10	0.86	0.47	9.65	9.2	5	0.59
459757		6.41	0.04	1.43	0.4	<0.2	<10	60	0.10	0.02	0.81	0.17	10.75	10.8	5	0.08
459758		7.19	0.04	1.04	0.3	<0.2	<10	70	0.07	0.01	0.60	0.01	9.13	8.6	5	<0.05
459759		2.77	0.02	1.14	0.3	<0.2	<10	80	0.11	0.01	0.83	0.01	8.99	8.6	5	0.07
459760		<0.02	0.02	1.09	0.4	<0.2	<10	70	0.08	0.01	0.81	0.01	9.31	8.3	4	0.06
459761		6.96	0.08	1.14	0.4	<0.2	<10	60	0.10	0.01	1.02	<0.01	10.20	8.3	5	0.18
459762		3.36	0.07	1.01	0.5	<0.2	<10	50	0.10	0.05	2.33	0.02	14.20	8.2	5	0.34
459763		7.32	0.06	1.26	0.4	<0.2	<10	50	0.10	0.02	1.88	0.02	12.00	7.9	4	0.29
459764		6.28	0.19	1.20	0.8	<0.2	<10	40	0.08	0.10	2.12	0.26	10.10	8.6	4	0.18
459765		8.11	0.21	1.30	2.0	<0.2	<10	50	0.10	0.17	1.98	5.14	13.05	8.6	4	0.44
459766		7.41	0.19	1.33	1.6	<0.2	<10	50	0.09	0.25	1.67	2.16	10.65	7.9	4	0.24
459767		7.60	0.14	1.59	1.4	<0.2	<10	40	0.09	0.03	0.98	4.36	7.37	7.9	4	0.31
459768		7.41	0.20	1.23	0.5	<0.2	<10	50	0.09	0.01	0.95	0.03	9.30	8.5	5	0.15
459769		7.35	0.66	1.48	2.0	<0.2	<10	50	0.09	0.08	1.15	1.94	10.25	9.7	5	0.26
459770		0.06	0.84	2.00	21.2	0.3	<10	380	0.53	1.83	1.01	0.09	58.9	15.8	84	9.90
459771		7.13	0.12	1.15	0.7	<0.2	<10	100	0.11	0.02	1.90	0.07	10.80	8.3	5	0.18



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Page: 4 - B
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 30-JAN-2017
Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17010399

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
459752		115.0	1.99	3.20	0.06	0.03	<0.01	0.007	0.08	4.0	5.1	0.82	1340	0.78	0.03
459753		272	1.32	2.14	<0.05	0.03	0.01	0.008	0.10	2.5	3.2	0.47	591	1.31	0.04
459754		440	1.38	2.47	0.05	0.03	<0.01	0.006	0.09	2.7	3.6	0.58	662	1.60	0.03
459755		341	2.13	4.00	0.06	0.04	0.01	0.012	0.18	3.5	6.6	1.12	821	1.02	0.03
459756		293	1.78	3.21	0.06	0.04	0.01	0.008	0.16	3.6	4.9	0.77	832	0.47	0.03
459757		27.9	2.23	4.06	0.06	0.05	0.01	0.008	0.06	3.4	6.2	1.12	1000	0.56	0.03
459758		30.6	1.48	2.96	0.05	0.04	<0.01	<0.005	0.08	3.0	4.7	0.77	563	0.17	0.03
459759		17.4	1.63	3.36	0.06	0.05	<0.01	<0.005	0.10	3.0	5.0	0.83	623	0.22	0.04
459760		17.4	1.56	3.25	0.05	0.05	<0.01	<0.005	0.09	3.1	5.0	0.82	610	0.24	0.03
459761		62.4	1.67	3.53	0.05	0.04	<0.01	<0.005	0.09	3.4	5.6	0.91	530	0.72	0.03
459762		64.4	2.20	3.21	0.06	0.02	<0.01	0.016	0.09	5.6	5.2	0.76	952	1.22	0.03
459763		36.8	2.15	4.32	0.06	0.02	<0.01	0.011	0.07	4.7	6.4	1.00	759	0.52	0.04
459764		96.3	2.45	4.06	0.06	<0.02	0.01	0.037	0.07	4.2	6.8	0.83	1100	1.62	0.03
459765		53.5	3.00	4.26	0.06	<0.02	0.11	0.433	0.08	5.2	7.7	0.70	1840	2.86	0.03
459766		53.4	2.71	4.20	0.06	<0.02	0.02	0.085	0.09	4.4	7.3	0.77	1620	0.76	0.04
459767		51.2	2.88	4.78	0.05	0.02	0.02	0.060	0.08	3.1	8.1	0.96	1240	1.37	0.03
459768		103.5	1.71	3.53	0.05	0.05	<0.01	0.005	0.06	3.3	5.4	0.90	603	0.19	0.04
459769		289	3.07	4.42	0.06	0.02	0.01	0.108	0.10	4.0	6.8	0.95	1120	0.55	0.03
459770		2670	4.00	8.71	0.18	0.45	0.02	0.200	1.08	29.8	34.3	1.19	374	92.5	0.17
459771		60.7	1.87	3.75	0.05	0.02	<0.01	0.018	0.07	4.3	5.8	0.73	1040	0.56	0.04



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Page: 4 - C
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 30 -JAN- 2017
 Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17010399

Sample Description	Method Analyte Units LOR	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2	ME-MS41 Ti % 0.005
459752		4.3	450	1.0	1.3	<0.001	0.45	0.15	2.0	0.3	0.2	45.9	<0.01	0.04	0.6	0.008
459753		2.8	360	0.6	1.7	<0.001	0.45	0.09	0.7	0.2	<0.2	30.9	<0.01	0.05	0.7	0.011
459754		3.0	380	0.6	1.6	<0.001	0.25	0.09	0.9	<0.2	<0.2	36.4	<0.01	0.04	0.8	0.012
459755		5.3	490	0.7	6.3	<0.001	0.27	0.11	1.7	0.2	0.2	50.5	<0.01	0.03	0.6	0.037
459756		4.0	430	0.8	5.1	<0.001	0.28	0.13	1.4	0.2	<0.2	46.0	<0.01	0.05	0.7	0.021
459757		5.1	510	0.7	1.0	<0.001	0.22	0.12	1.5	0.2	0.2	43.4	<0.01	0.03	0.7	0.021
459758		3.6	400	0.4	1.2	<0.001	0.09	0.12	1.0	<0.2	<0.2	35.3	<0.01	0.01	0.6	0.014
459759		4.0	410	0.5	1.7	<0.001	0.07	0.10	1.2	0.2	<0.2	43.2	<0.01	0.01	0.6	0.024
459760		3.8	420	0.5	1.6	<0.001	0.07	0.09	1.2	<0.2	<0.2	40.0	<0.01	0.01	0.6	0.021
459761		4.0	430	0.5	1.5	<0.001	0.09	0.10	1.3	0.2	<0.2	43.9	<0.01	0.01	0.6	0.015
459762		3.8	410	1.8	1.7	<0.001	0.05	0.20	3.9	0.4	<0.2	79.5	<0.01	<0.01	0.7	0.005
459763		3.8	420	1.7	1.2	<0.001	0.01	0.16	2.6	0.2	0.2	56.7	<0.01	<0.01	0.7	0.005
459764		3.6	400	1.3	1.2	<0.001	0.45	0.07	1.8	0.2	<0.2	57.9	<0.01	0.06	0.6	<0.005
459765		3.6	420	2.7	1.6	<0.001	0.79	0.10	2.2	0.2	0.2	62.0	<0.01	0.09	0.7	<0.005
459766		3.7	450	3.7	1.6	<0.001	0.39	0.17	2.6	<0.2	0.3	69.1	<0.01	0.11	0.9	<0.005
459767		4.0	430	0.8	1.5	<0.001	0.34	0.08	1.4	<0.2	0.2	36.8	<0.01	0.04	0.8	0.007
459768		4.7	410	0.6	1.1	<0.001	0.04	0.13	1.3	<0.2	<0.2	49.6	<0.01	0.01	0.7	0.015
459769		5.3	370	1.0	1.8	<0.001	0.62	0.12	2.3	0.2	0.3	52.4	<0.01	0.11	0.8	0.007
459770		39.8	1000	10.1	125.0	0.001	0.36	0.55	7.8	3.0	4.8	65.8	<0.01	0.08	17.1	0.341
459771		4.4	380	1.1	1.5	<0.001	0.07	0.12	2.6	0.2	<0.2	86.1	<0.01	0.02	0.8	0.007



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Page: 4 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 30 - JAN - 2017
 Account: GIBMIN

Project: SGM2016 - 25

CERTIFICATE OF ANALYSIS KL17010399

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
459752		<0.02	0.30	17	<0.05	8.09	92	<0.5			
459753		<0.02	0.31	7	<0.05	4.44	103	<0.5			
459754		<0.02	0.36	9	<0.05	5.12	49	<0.5			
459755		0.05	0.26	21	<0.05	7.49	165	<0.5			
459756		0.04	0.24	15	<0.05	7.66	233	<0.5			
459757		<0.02	0.19	19	<0.05	8.58	173	<0.5			
459758		<0.02	0.15	11	<0.05	6.12	55	<0.5			
459759		<0.02	0.18	13	<0.05	7.18	55	<0.5			
459760		<0.02	0.18	12	<0.05	7.36	54	<0.5			
459761		<0.02	0.19	14	<0.05	7.15	51	<0.5			
459762		<0.02	0.30	26	<0.05	10.40	69	<0.5			
459763		<0.02	0.26	26	<0.05	6.29	67	<0.5			
459764		<0.02	0.35	15	0.09	5.13	220	<0.5			
459765		<0.02	0.55	16	0.25	4.47	2590	<0.5			
459766		<0.02	0.29	19	0.16	4.47	971	<0.5			
459767		<0.02	0.16	15	<0.05	4.32	1660	<0.5			
459768		<0.02	0.20	15	<0.05	6.07	109	<0.5			
459769		<0.02	0.33	20	<0.05	6.71	695	<0.5			
459770		0.69	4.39	109	2.14	17.45	80	10.5	0.258		0.246
459771		<0.02	0.26	18	<0.05	8.44	130	<0.5			



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 30 - JAN - 2017
Account: GIBMIN

Project: SGM2016 - 25

CERTIFICATE OF ANALYSIS KL17010399

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
 ME-MS41

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.			
	CRU - 31	CRU - QC	LOG - 21d	LOG - 22
	LOG - 23	PUL - 31	PUL - 31d	PUL - QC
	SPL - 21	SPL - 21d	WEI - 21	
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au - AA23	Cu - OG46	ME - MS41	ME - OG46
	Mo - OG46			



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Page: 1
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 27 - JAN - 2017
This copy reported on
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CERTIFICATE KL17010401

Project: SGM2016-25

P.O. No.: S0218733

This report is for 101 Drill Core samples submitted to our lab in Kamloops, BC,
Canada on 19-JAN-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Mo-OG46	Ore Grade Mo - Aqua Regia	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **GIBRALTAR MINES LTD.**
ATTN: ALS MINERALS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 27 - JAN - 2017
Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17010401

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
459772		7.17	0.06	1.36	1.3	<0.2	<10	110	0.10	0.02	1.06	0.48	8.46	8.6	4	0.08
459773		7.03	0.41	1.50	1.0	<0.2	<10	100	0.12	0.02	0.78	1.12	8.94	8.6	4	0.07
459774		7.30	0.83	1.94	1.5	<0.2	<10	110	0.15	0.10	1.45	1.88	10.20	13.1	80	0.12
459775		7.34	0.25	1.31	0.7	<0.2	<10	90	0.12	0.02	1.26	0.41	7.92	8.3	4	0.10
459776		7.18	0.28	1.43	0.7	<0.2	<10	70	0.14	0.04	1.65	1.30	9.34	8.6	3	0.14
459777		7.57	1.41	1.62	0.7	<0.2	<10	70	0.11	0.10	1.26	2.14	7.40	9.5	3	0.16
459778		7.62	2.26	1.46	1.9	<0.2	<10	80	0.10	0.19	1.49	0.59	9.53	7.8	3	0.20
459779		<0.02	2.54	1.47	2.0	<0.2	<10	80	0.12	0.21	1.48	0.57	9.55	7.9	3	0.21
459780		0.99	0.05	0.38	0.1	<0.2	<10	30	0.56	0.20	0.36	0.04	102.0	1.2	8	0.55
459781		7.13	2.83	1.03	7.1	<0.2	<10	60	0.09	1.06	1.50	1.21	10.70	21.5	2	0.17
459782		6.43	0.06	1.33	0.5	<0.2	<10	70	0.11	0.03	2.40	0.06	11.55	6.5	5	0.31
459783		6.50	7.07	1.27	2.3	<0.2	<10	90	0.16	0.23	1.68	4.19	17.25	9.3	2	0.09
459784		2.73	0.17	1.46	0.4	<0.2	<10	80	0.09	0.04	2.56	0.23	12.55	8.1	3	0.07
459785		6.23	0.44	1.10	1.1	<0.2	<10	90	0.08	0.04	1.37	1.41	8.24	6.3	3	0.06
459786		7.42	0.05	1.10	4.2	<0.2	<10	90	0.15	0.02	1.08	0.30	9.61	5.8	3	0.12
459787		7.92	1.27	0.96	5.5	<0.2	<10	100	0.13	0.04	0.99	0.57	10.45	5.7	3	0.15
459788		7.24	0.02	1.13	2.8	<0.2	<10	110	0.13	<0.01	0.83	0.02	8.65	7.1	4	0.09
459789		7.37	0.01	1.15	2.7	<0.2	<10	120	0.13	<0.01	0.93	0.01	8.24	6.7	5	0.41
459790		0.04	3.02	1.80	28.1	0.4	10	70	0.36	1.08	0.89	2.21	10.30	11.1	30	3.91
459791		4.71	0.01	1.22	1.8	<0.2	<10	130	0.12	<0.01	0.65	<0.01	6.97	7.6	6	0.18
459792		2.99	0.01	1.13	0.8	<0.2	<10	170	0.17	<0.01	1.05	0.01	9.20	6.0	4	0.31
459793		7.71	0.01	0.89	1.0	<0.2	<10	130	0.15	<0.01	1.08	0.01	9.32	4.3	4	0.64
459794		8.08	0.02	1.01	4.1	<0.2	<10	140	0.15	0.01	0.91	0.01	9.18	5.9	4	0.45
459795		7.36	0.02	0.81	1.2	<0.2	<10	120	0.16	0.02	1.67	0.02	13.55	3.9	3	0.67
459796		7.87	0.31	0.82	1.3	<0.2	<10	140	0.12	0.09	0.93	10.55	12.80	4.6	3	0.40
459797		7.35	0.14	1.25	4.1	<0.2	<10	190	0.15	0.10	2.26	1.21	13.10	6.8	3	0.58
459798		6.20	0.76	1.49	0.2	<0.2	<10	70	0.09	0.17	1.85	0.29	5.39	9.1	3	0.15
459799		6.22	1.27	1.28	0.3	<0.2	<10	60	0.07	0.21	1.44	0.93	6.72	11.0	3	0.12
459800		<0.02	0.89	1.35	0.4	<0.2	<10	60	0.07	0.22	1.48	0.97	6.91	11.5	4	0.13
459801		6.56	1.07	1.50	0.2	<0.2	<10	70	0.11	0.02	1.09	0.61	6.96	10.1	4	0.11
459802		6.79	0.03	1.44	0.1	<0.2	<10	90	0.10	0.01	1.27	0.05	6.04	9.0	4	0.11
459803		6.74	0.14	1.42	0.3	<0.2	<10	90	0.10	0.06	1.77	5.80	5.01	8.3	3	0.23
459804		6.84	0.13	1.40	0.2	<0.2	<10	130	0.11	0.17	2.40	4.16	13.90	7.0	2	0.25
459805		7.32	0.59	1.05	0.3	<0.2	<10	110	0.08	0.07	1.41	2.27	8.02	4.2	3	0.09
459806		6.74	0.68	0.91	1.2	<0.2	<10	80	0.10	0.04	0.88	1.22	5.19	3.8	4	0.06
459807		4.13	0.05	0.92	0.2	<0.2	<10	80	0.08	0.06	1.26	0.78	6.42	4.5	3	0.05
463013		7.76	0.27	1.26	0.2	<0.2	<10	80	0.09	0.03	1.72	1.29	8.43	9.9	4	0.06
463014		3.90	0.09	1.35	0.1	<0.2	<10	70	0.10	0.02	1.97	0.09	7.11	8.7	3	0.09
463015		3.81	0.17	1.36	0.2	<0.2	<10	80	0.09	0.01	1.99	0.09	9.39	8.7	3	0.07
463016		6.78	0.11	1.37	0.2	<0.2	<10	60	0.10	0.02	1.58	0.08	11.35	9.2	5	0.07



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Page: 2 - B
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 27 - JAN - 2017
Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17010401

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
459772		12.4	1.91	4.17	0.05	0.03	<0.01	0.015	0.13	3.1	5.1	0.76	833	0.89	0.06
459773		132.0	2.16	4.56	0.05	0.02	0.01	0.057	0.15	3.5	6.3	0.87	813	0.89	0.05
459774		302	3.40	5.78	0.06	0.02	0.02	0.135	0.19	4.1	9.7	1.38	1420	1.25	0.03
459775		174.5	1.68	4.00	0.05	0.03	0.01	0.012	0.12	3.2	5.8	0.80	838	0.70	0.06
459776		134.0	2.11	4.76	0.06	0.03	0.01	0.067	0.10	3.9	7.1	0.85	1090	0.36	0.05
459777		780	2.91	5.60	0.06	<0.02	0.04	0.178	0.13	3.2	8.4	0.85	1470	0.41	0.05
459778		2310	2.91	4.52	0.06	<0.02	0.03	0.090	0.12	4.1	6.4	0.78	1320	0.35	0.04
459779		2710	3.00	4.42	0.06	<0.02	0.04	0.100	0.13	4.1	6.4	0.79	1330	0.39	0.04
459780		8.1	1.09	2.66	0.11	0.26	<0.01	0.017	0.21	57.8	8.1	0.12	265	1.96	0.08
459781		2780	4.79	2.93	0.06	<0.02	0.09	0.111	0.20	4.5	3.7	0.43	1290	1.46	0.04
459782		49.6	2.13	4.35	0.05	<0.02	0.01	0.017	0.13	4.7	6.4	0.64	1060	0.30	0.06
459783		5830	3.75	3.99	0.06	<0.02	0.24	0.214	0.19	7.2	3.9	0.56	1640	0.81	0.04
459784		114.0	2.27	4.13	0.05	<0.02	0.01	0.012	0.18	5.2	7.3	0.79	1930	0.21	0.05
459785		142.5	1.64	3.30	<0.05	0.02	0.07	0.053	0.13	3.3	3.9	0.57	1190	1.12	0.05
459786		18.5	1.48	3.36	0.05	0.05	0.01	0.007	0.11	3.8	3.1	0.55	878	0.28	0.06
459787		651	1.49	3.04	0.05	0.04	0.01	0.052	0.16	4.3	2.5	0.47	626	0.98	0.05
459788		12.5	1.30	3.42	0.05	0.06	<0.01	<0.005	0.17	3.4	3.0	0.54	433	0.44	0.06
459789		7.8	1.44	3.59	<0.05	0.04	<0.01	0.006	0.23	3.3	3.4	0.53	430	0.41	0.06
459790		2560	4.57	4.98	0.07	0.03	0.04	0.142	0.32	5.3	17.0	0.59	779	240	0.06
459791		4.7	1.46	3.46	0.05	0.08	<0.01	<0.005	0.28	2.9	4.0	0.65	393	0.70	0.06
459792		13.8	1.44	3.63	0.06	0.07	<0.01	0.007	0.26	3.6	3.6	0.52	440	0.22	0.06
459793		3.6	1.18	3.08	0.06	0.05	<0.01	0.006	0.29	3.6	2.6	0.29	405	0.38	0.06
459794		8.6	1.31	3.46	0.05	0.05	0.01	0.009	0.30	3.5	3.4	0.37	432	1.15	0.06
459795		5.4	1.18	2.85	0.05	0.03	<0.01	0.011	0.31	5.6	2.0	0.22	647	1.27	0.05
459796		120.5	1.50	2.58	0.05	0.03	0.07	0.286	0.33	5.4	2.0	0.25	740	0.44	0.05
459797		80.8	2.00	3.72	0.05	<0.02	0.01	0.138	0.12	5.4	5.4	0.57	1320	0.52	0.05
459798		659	2.57	4.55	0.05	<0.02	0.03	0.101	0.13	2.4	6.4	0.83	1380	0.48	0.05
459799		2150	3.16	4.02	0.05	<0.02	0.06	0.168	0.12	3.1	5.8	0.71	999	1.05	0.05
459800		2150	3.25	4.38	0.06	<0.02	0.06	0.176	0.13	3.1	6.1	0.74	1030	1.09	0.06
459801		850	2.00	4.53	0.05	0.02	0.02	0.022	0.07	3.0	6.5	0.94	888	0.31	0.06
459802		13.7	1.93	4.57	0.05	0.02	<0.01	0.005	0.09	2.6	6.0	0.86	939	3.88	0.06
459803		85.2	2.21	4.44	0.05	<0.02	0.04	0.115	0.09	2.2	5.7	0.72	1500	0.52	0.05
459804		72.2	2.68	4.38	0.07	<0.02	0.03	0.242	0.13	5.4	5.5	0.62	2450	0.84	0.05
459805		360	2.01	3.25	0.07	<0.02	0.02	0.236	0.13	3.0	3.6	0.49	1240	0.76	0.04
459806		328	1.75	2.90	0.06	<0.02	<0.01	0.097	0.13	2.0	3.0	0.40	894	0.44	0.04
459807		25.1	1.70	3.05	0.06	<0.02	<0.01	0.079	0.13	2.4	3.7	0.44	1020	0.25	0.05
463013		201	1.83	3.39	0.06	0.03	0.01	0.022	0.16	2.9	6.1	0.88	1600	3.92	0.03
463014		42.2	2.08	3.81	0.06	<0.02	<0.01	0.009	0.14	2.8	6.3	0.93	1620	2.54	0.04
463015		87.9	1.94	3.91	0.06	0.03	<0.01	0.008	0.14	3.4	6.6	0.95	996	6.42	0.04
463016		69.4	1.88	3.75	0.06	0.03	<0.01	0.009	0.12	3.8	6.4	0.97	819	0.49	0.04



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Page: 2 - C

Total # Pages: 4 (A - D)

Plus Appendix Pages

Finalized Date: 27 - JAN - 2017

Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17010401

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
459772		4.0	410	0.6	2.4	<0.001	0.18	0.15	1.6	<0.2	0.2	57.7	<0.01	0.03	0.6
459773		4.3	410	0.5	2.5	<0.001	0.22	0.34	1.6	0.2	0.2	50.7	<0.01	0.04	0.6
459774		30.0	540	0.6	3.3	<0.001	0.75	0.07	4.2	0.2	0.2	53.3	<0.01	0.12	0.8
459775		3.9	420	0.9	2.2	<0.001	0.16	0.10	1.8	<0.2	<0.2	63.6	<0.01	0.03	0.6
459776		3.7	420	0.9	1.9	<0.001	0.20	0.10	2.0	0.2	0.2	67.4	<0.01	0.04	0.6
459777		3.6	420	0.8	2.3	<0.001	0.68	0.09	1.7	0.2	0.3	47.4	<0.01	0.06	0.5
459778		3.2	440	1.6	2.0	<0.001	0.97	0.16	2.0	0.4	0.4	59.7	<0.01	0.17	0.9
459779		3.2	450	1.6	2.1	<0.001	1.07	0.18	2.0	<0.2	0.4	57.0	<0.01	0.18	0.8
459780		1.5	150	7.1	12.1	<0.001	0.02	<0.05	1.2	0.4	0.7	15.6	<0.01	0.04	27.0
459781		2.7	420	1.4	2.9	<0.001	3.97	0.07	1.2	0.8	0.6	41.3	<0.01	0.47	0.7
459782		2.7	430	2.3	2.4	<0.001	0.10	0.11	2.3	<0.2	<0.2	89.2	<0.01	0.02	1.2
459783		2.4	370	1.3	2.9	<0.001	1.82	0.49	1.3	0.5	0.6	48.5	<0.01	0.21	1.2
459784		3.1	410	1.4	2.8	<0.001	0.28	<0.05	1.8	<0.2	<0.2	69.3	<0.01	0.05	0.7
459785		2.4	310	1.0	2.0	<0.001	0.30	0.08	1.2	<0.2	<0.2	44.8	<0.01	0.06	1.1
459786		2.7	350	1.3	1.7	<0.001	0.15	0.30	1.5	0.2	0.2	59.6	<0.01	0.03	1.1
459787		2.5	330	1.1	2.6	<0.001	0.30	0.23	1.2	0.2	0.3	54.7	<0.01	0.06	1.2
459788		3.0	420	0.8	3.3	<0.001	0.02	0.25	1.5	<0.2	0.2	61.9	<0.01	0.02	0.9
459789		3.0	390	0.8	5.8	<0.001	0.03	0.28	1.7	<0.2	0.2	73.1	<0.01	0.02	0.6
459790		20.6	730	76.8	15.0	0.243	2.21	1.72	2.8	3.5	0.7	57.7	<0.01	0.63	3.2
459791		3.2	450	0.5	6.6	<0.001	0.03	0.25	1.5	<0.2	0.2	55.7	<0.01	0.02	0.4
459792		2.7	410	0.9	6.1	<0.001	0.02	0.20	2.1	<0.2	0.2	73.0	<0.01	0.02	0.7
459793		1.8	360	1.3	7.0	<0.001	0.02	0.19	2.1	0.2	0.2	79.8	<0.01	0.02	0.7
459794		2.4	380	1.5	6.5	<0.001	0.08	0.35	1.8	<0.2	0.2	73.3	<0.01	0.02	0.7
459795		1.6	330	2.3	6.6	<0.001	0.05	0.15	1.9	0.2	0.2	75.9	<0.01	0.02	1.1
459796		1.8	310	2.2	6.9	<0.001	0.62	0.18	1.4	0.2	0.2	65.3	<0.01	0.08	1.2
459797		2.8	370	2.0	2.8	<0.001	0.29	0.13	2.3	0.3	0.2	110.5	<0.01	0.05	0.8
459798		3.9	420	0.7	2.4	<0.001	0.50	0.08	1.9	<0.2	0.2	54.1	<0.01	0.22	0.4
459799		3.6	410	0.8	2.1	<0.001	1.71	0.08	1.7	0.2	0.3	49.9	<0.01	0.27	0.6
459800		3.9	440	0.8	2.3	<0.001	1.73	0.09	1.9	0.3	0.3	54.5	<0.01	0.20	0.5
459801		4.3	410	0.9	1.4	<0.001	0.22	0.11	1.9	0.3	<0.2	61.5	<0.01	0.08	0.5
459802		4.0	420	0.8	1.6	<0.001	0.09	0.08	1.9	<0.2	<0.2	57.9	<0.01	0.04	0.5
459803		3.5	390	1.4	1.6	<0.001	0.39	0.10	1.9	<0.2	0.2	67.4	<0.01	0.08	0.3
459804		2.9	400	1.3	2.5	<0.001	0.50	<0.05	2.1	0.2	0.2	78.4	<0.01	0.11	0.8
459805		4.4	320	3.0	1.9	0.001	0.38	0.06	1.3	<0.2	0.2	34.8	<0.01	0.05	0.7
459806		2.1	260	1.4	1.9	<0.001	0.35	0.10	0.8	0.2	0.2	24.6	<0.01	0.06	1.0
459807		2.2	270	1.0	1.9	<0.001	0.26	0.05	1.0	<0.2	<0.2	31.5	<0.01	0.03	0.9
463013		4.5	460	1.1	2.8	<0.001	0.23	0.07	1.6	0.3	<0.2	43.7	<0.01	0.04	0.9
463014		4.4	470	0.9	2.4	0.001	0.10	<0.05	1.8	0.3	<0.2	54.7	<0.01	0.01	0.9
463015		4.6	490	0.9	2.5	0.001	0.03	0.07	1.8	0.4	<0.2	61.5	<0.01	0.01	1.0
463016		4.7	460	1.1	2.2	<0.001	0.01	0.09	1.9	0.4	0.2	61.5	<0.01	<0.01	1.1



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Page: 2 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 27 -JAN- 2017
 Account: GIBMIN

Project: SGM2016 -25

CERTIFICATE OF ANALYSIS KL17010401

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46	Mo-OG46	Au-AA23
		TI	U	V	W	Y	Zn	Zr	Cu	Mo	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001	0.005
459772		<0.02	0.16	15	<0.05	5.72	301	<0.5			
459773		<0.02	0.16	15	0.05	5.65	647	<0.5			
459774		0.02	0.19	28	0.08	6.18	913	<0.5			
459775		<0.02	0.17	14	<0.05	5.61	264	<0.5			
459776		<0.02	0.25	17	<0.05	8.34	611	<0.5			
459777		<0.02	0.35	16	0.08	4.21	1060	<0.5			
459778		<0.02	0.69	16	0.11	5.48	402	<0.5	0.231		
459779		<0.02	0.68	16	0.12	5.26	402	<0.5	0.263		
459780		0.07	3.31	10	0.27	14.80	20	6.0			
459781		<0.02	1.25	8	0.18	4.84	706	<0.5	0.265		
459782		<0.02	0.54	16	0.06	6.51	101	<0.5			
459783		<0.02	2.25	8	0.26	12.20	1820	<0.5	0.534		
459784		<0.02	0.34	11	0.17	8.16	252	<0.5			
459785		<0.02	0.50	9	<0.05	5.67	774	<0.5			
459786		<0.02	0.75	11	<0.05	9.26	216	<0.5			
459787		<0.02	0.83	9	<0.05	8.77	307	<0.5			
459788		0.03	1.22	13	<0.05	7.50	48	0.5			
459789		0.04	0.46	16	<0.05	6.18	52	<0.5			
459790		0.27	0.74	33	1.45	5.13	457	0.9	0.249	0.028	0.354
459791		0.04	0.37	17	<0.05	5.64	41	0.8			
459792		0.03	0.44	16	<0.05	7.81	47	0.6			
459793		0.03	0.29	13	<0.05	8.08	41	<0.5			
459794		0.04	0.98	13	<0.05	6.41	38	<0.5			
459795		0.04	0.23	11	<0.05	10.75	65	<0.5			
459796		0.04	0.55	9	<0.05	7.27	4950	<0.5			
459797		<0.02	0.93	16	0.10	11.00	611	<0.5			
459798		<0.02	0.15	17	0.05	4.47	294	<0.5			
459799		<0.02	1.97	16	0.09	4.44	526	<0.5	0.203		
459800		<0.02	1.86	17	0.10	4.86	531	<0.5	0.204		
459801		<0.02	0.15	20	<0.05	4.21	357	<0.5			
459802		<0.02	0.14	21	<0.05	4.57	159	<0.5			
459803		<0.02	0.12	19	0.05	4.18	2810	<0.5			
459804		<0.02	0.38	13	0.07	6.78	1590	<0.5			
459805		<0.02	0.22	8	0.05	4.09	1160	<0.5			
459806		<0.02	0.60	6	0.05	4.51	620	<0.5			
459807		<0.02	0.33	7	<0.05	5.81	432	<0.5			
463013		0.02	0.27	14	<0.05	7.08	585	<0.5			
463014		<0.02	0.19	16	<0.05	6.53	176	<0.5			
463015		<0.02	0.24	16	<0.05	7.70	138	<0.5			
463016		<0.02	0.42	16	<0.05	8.52	180	<0.5			



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Page: 3 - A
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Plus Appendix Pages
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Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17010401

Sample Description	Method Analyte Units LOR	WEI-21	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
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
463017		6.97	0.15	1.40	0.3	<0.2	<10	70	0.09	0.05	1.84	2.21	9.48	9.1	4	0.09
463018		6.76	0.38	1.35	0.4	<0.2	<10	70	0.11	0.11	1.71	1.90	13.65	9.8	4	0.08
463019		6.84	0.25	1.35	0.4	<0.2	<10	60	0.08	0.14	1.79	1.65	9.55	9.6	4	0.07
463020		<0.02	0.26	1.39	0.3	<0.2	<10	70	0.09	0.15	1.82	1.61	9.62	9.4	4	0.08
463021		7.52	0.26	1.44	0.4	<0.2	<10	40	0.10	0.29	2.43	4.27	18.35	8.9	3	0.17
463022		7.53	0.28	1.33	0.6	<0.2	<10	60	0.10	0.17	2.29	19.50	9.83	10.0	4	0.13
463023		7.72	0.09	1.67	0.1	<0.2	<10	80	0.11	0.01	1.33	0.05	7.87	10.3	4	0.09
463024		7.42	0.17	1.57	0.2	<0.2	<10	190	0.11	0.01	1.10	0.05	9.89	9.6	4	0.33
463025		6.77	0.07	1.41	0.3	<0.2	<10	350	0.14	0.01	1.16	0.02	7.83	8.5	4	0.81
463026		6.68	0.04	1.48	0.2	<0.2	<10	130	0.15	<0.01	0.90	0.01	7.91	10.1	5	1.63
463027		7.06	0.05	1.56	0.5	<0.2	<10	110	0.17	<0.01	1.19	0.04	8.67	11.4	5	1.39
463028		7.36	0.37	1.49	0.4	<0.2	<10	80	0.11	0.01	1.22	0.25	7.52	10.8	4	0.20
463029		7.51	0.10	1.67	0.3	<0.2	<10	70	0.12	0.02	1.50	0.24	7.98	10.6	4	0.07
463030		0.04	0.46	2.11	14.9	<0.2	10	70	0.31	0.46	1.19	0.19	9.91	49.7	265	1.31
463031		7.67	0.06	1.66	0.4	<0.2	<10	60	0.10	0.04	2.55	1.40	10.45	10.5	4	0.09
463032		3.49	0.12	1.89	0.3	<0.2	<10	60	0.11	0.06	2.31	1.75	6.69	11.6	3	0.08
463033		2.85	0.05	1.91	0.5	<0.2	<10	50	0.10	0.04	2.26	0.27	7.74	10.3	3	0.09
463034		7.65	0.07	1.60	0.3	<0.2	<10	40	0.10	0.04	2.60	0.24	9.26	11.7	4	0.13
463035		3.79	0.16	1.07	0.8	<0.2	<10	60	0.09	0.08	3.61	0.86	13.90	11.2	2	0.12
463036		8.03	0.18	1.11	2.9	<0.2	<10	70	0.09	0.17	3.21	3.22	12.85	13.4	2	0.11
463037		7.08	0.13	1.67	1.9	<0.2	<10	40	0.08	0.02	3.02	1.02	12.90	10.2	4	0.12
463038		8.08	2.63	2.11	10.3	<0.2	<10	40	0.14	0.10	1.70	10.05	18.35	11.3	6	0.21
463039		8.54	0.21	1.88	5.1	<0.2	<10	40	0.15	0.08	2.04	3.71	14.00	10.0	3	0.15
463040		<0.02	0.19	1.90	4.8	<0.2	<10	40	0.15	0.07	2.05	3.67	13.70	9.6	4	0.15
463041		7.75	0.11	1.81	3.9	<0.2	<10	40	0.09	0.05	1.57	3.11	8.76	9.2	4	0.11
463042		8.33	0.36	2.26	9.5	<0.2	<10	140	0.16	0.18	1.05	14.80	13.55	10.4	4	0.15
463043		7.74	0.27	1.91	4.1	<0.2	<10	40	0.10	0.07	1.45	5.00	10.20	10.5	4	0.08
463044		7.62	0.07	1.70	2.6	<0.2	<10	40	0.09	0.02	1.37	0.83	10.20	11.1	4	0.06
463045		8.10	0.13	1.52	2.2	<0.2	<10	60	0.09	0.04	1.48	2.24	7.31	10.6	4	0.06
463046		7.14	0.14	1.63	1.6	<0.2	<10	40	0.11	0.03	1.71	0.32	8.77	11.0	5	0.09
463047		7.04	0.18	1.57	1.5	<0.2	<10	40	0.10	0.03	1.85	0.52	9.25	11.6	4	0.07
463048		7.24	0.23	1.76	0.6	<0.2	<10	60	0.16	0.22	3.48	1.86	19.05	9.8	4	0.17
463049		6.73	0.10	1.64	0.6	<0.2	<10	130	0.10	0.10	2.29	2.88	8.73	10.4	3	0.13
463050		<0.02	0.27	0.93	70.1	0.4	10	80	4.47	4.15	0.09	0.05	78.8	73.0	23	0.85
463051		7.05	0.31	1.79	1.8	<0.2	<10	50	0.11	0.26	1.73	0.68	6.79	10.9	4	0.08
463052		6.88	0.07	1.60	0.4	<0.2	<10	40	0.10	0.04	1.80	0.14	7.12	10.2	4	0.08
463053		7.13	0.11	1.66	1.3	<0.2	<10	50	0.10	0.16	1.87	0.51	7.39	10.5	4	0.09
463054		6.65	0.17	1.69	1.2	<0.2	<10	40	0.10	0.26	2.03	1.35	13.00	9.4	4	0.10
463055		7.22	0.24	1.74	0.5	<0.2	<10	30	0.14	0.19	3.99	1.89	18.65	10.5	4	0.09
463056		7.35	0.62	1.74	0.4	<0.2	<10	30	0.09	0.79	1.98	0.48	9.46	10.6	4	0.10



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Page: 3 - B
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 27 - JAN - 2017
Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17010401

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
463017		72.9	2.11	3.99	0.06	0.02	0.01	0.032	0.15	3.5	6.8	0.98	1390	2.12	0.04
463018		192.5	2.37	3.48	0.07	0.02	0.01	0.016	0.15	4.9	6.8	0.91	1900	4.33	0.03
463019		103.0	2.05	3.35	0.06	0.02	0.01	0.030	0.16	3.3	6.9	0.92	1880	4.90	0.03
463020		100.5	2.09	3.45	0.06	0.03	0.01	0.029	0.17	3.3	7.0	0.92	1900	6.50	0.03
463021		94.4	2.79	3.67	0.08	<0.02	0.02	0.203	0.14	6.8	8.1	0.90	3020	3.10	0.03
463022		111.5	2.95	3.66	0.06	<0.02	0.13	1.530	0.17	3.8	6.9	1.09	2170	4.60	0.03
463023		78.5	2.18	4.84	0.06	0.03	<0.01	0.007	0.12	3.1	9.2	1.35	682	0.73	0.05
463024		216	2.08	4.94	0.06	0.04	<0.01	0.011	0.14	3.9	9.0	1.31	685	4.77	0.05
463025		108.5	1.75	4.01	0.06	0.06	<0.01	0.005	0.29	3.0	8.2	1.13	536	26.6	0.05
463026		51.7	1.77	4.01	0.07	0.04	<0.01	<0.005	0.46	3.1	9.0	1.14	510	0.91	0.05
463027		59.8	1.92	4.14	0.07	0.04	<0.01	0.007	0.38	3.3	9.7	1.23	554	2.01	0.05
463028		552	2.01	4.04	0.06	0.04	<0.01	0.015	0.14	2.9	8.1	1.15	922	50.2	0.05
463029		76.1	2.34	4.85	0.06	0.02	<0.01	0.022	0.11	3.1	8.9	1.24	1220	4.55	0.05
463030		857	5.56	5.66	0.10	0.04	0.01	0.025	0.70	4.1	4.3	5.51	468	90.9	0.11
463031		33.1	2.54	5.18	0.07	<0.02	0.03	0.031	0.11	4.2	9.4	1.15	1960	3.91	0.05
463032		53.1	2.98	5.33	0.07	<0.02	0.04	0.049	0.12	2.7	11.0	1.22	2930	1.33	0.04
463033		16.0	2.80	5.58	0.07	<0.02	<0.01	0.021	0.10	2.9	11.4	1.23	2700	7.08	0.04
463034		28.6	2.87	5.53	0.07	<0.02	<0.01	0.019	0.08	3.4	10.0	1.23	2000	2.09	0.06
463035		62.5	2.97	2.98	0.07	<0.02	0.01	0.084	0.13	5.6	7.4	1.18	2590	48.2	0.08
463036		84.3	3.41	3.03	0.07	<0.02	0.08	0.322	0.11	4.9	7.0	1.17	2830	65.1	0.07
463037		43.9	2.81	5.03	0.06	<0.02	0.03	0.172	0.10	4.8	10.5	1.07	2050	2.50	0.04
463038		685	4.88	6.09	0.09	<0.02	0.19	1.900	0.11	7.1	11.4	1.11	2850	20.9	0.02
463039		41.1	3.53	4.98	0.08	<0.02	0.05	0.168	0.11	5.1	9.8	1.06	2600	2.36	0.02
463040		40.3	3.53	4.82	0.08	<0.02	0.05	0.169	0.12	5.1	9.6	1.06	2660	2.30	0.02
463041		27.4	2.87	4.38	0.07	<0.02	0.03	0.271	0.12	3.3	9.3	1.05	1920	2.08	0.03
463042		97.0	5.34	6.36	0.08	<0.02	0.24	2.03	0.15	5.2	10.9	1.17	2530	29.2	0.02
463043		58.5	3.30	4.97	0.07	<0.02	0.05	0.367	0.13	3.9	9.8	1.18	2100	2.65	0.03
463044		17.4	2.56	4.65	0.07	0.05	0.01	0.089	0.09	3.8	9.8	1.18	1660	1.72	0.04
463045		56.2	2.63	4.32	0.06	0.03	0.05	0.217	0.09	2.6	8.7	1.08	1510	41.9	0.04
463046		69.6	2.41	4.16	0.07	0.03	0.01	0.013	0.06	3.1	9.6	1.12	1480	0.58	0.02
463047		126.0	2.37	4.36	0.08	0.03	0.01	0.033	0.06	3.2	9.9	1.12	1620	1.03	0.02
463048		128.0	3.26	4.57	0.08	<0.02	0.04	0.181	0.11	7.2	11.1	1.13	2970	99.8	0.01
463049		91.2	2.77	4.38	0.07	<0.02	0.04	0.253	0.08	3.2	9.9	1.13	1770	4.45	0.01
463050		1390	3.55	2.90	0.13	0.67	0.02	0.203	0.48	38.5	2.5	0.11	286	2.91	<0.01
463051		248	3.03	5.37	0.07	<0.02	0.01	0.115	0.08	2.5	10.4	1.19	1200	13.85	0.02
463052		54.6	2.41	4.72	0.07	<0.02	<0.01	0.018	0.07	2.7	9.6	1.08	880	0.86	0.02
463053		98.9	2.76	5.01	0.07	<0.02	0.01	0.043	0.08	2.7	10.2	1.07	1120	30.8	0.02
463054		129.0	3.11	5.19	0.07	<0.02	0.01	0.154	0.09	4.9	10.3	1.05	1340	48.7	0.02
463055		222	3.16	5.35	0.09	<0.02	0.02	0.198	0.09	7.5	11.0	1.11	1950	261	0.02
463056		1025	3.25	5.46	0.08	<0.02	0.01	0.096	0.09	3.7	10.5	1.15	1530	4.33	0.01



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Page: 3 - C
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 27 - JAN - 2017
Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17010401

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
463017		4.7	450	1.4	2.6	0.001	0.18	<0.05	2.3	0.4	<0.2	52.6	<0.01	0.03	1.1
463018		4.7	470	1.8	2.6	<0.001	0.48	0.06	2.0	0.4	<0.2	46.4	<0.01	0.13	1.2
463019		4.7	490	1.7	2.6	0.001	0.38	0.06	1.7	0.4	<0.2	41.3	<0.01	0.08	1.2
463020		4.7	470	1.6	2.9	0.001	0.37	0.06	1.8	0.3	0.2	44.0	<0.01	0.08	1.3
463021		4.6	450	3.0	2.4	<0.001	0.59	<0.05	3.4	0.6	<0.2	61.8	<0.01	0.10	1.6
463022		5.3	440	1.3	2.9	0.001	0.93	<0.05	2.0	0.4	<0.2	57.5	<0.01	0.09	1.6
463023		5.6	400	1.1	2.1	<0.001	<0.01	0.06	1.9	<0.2	0.2	58.8	<0.01	<0.01	1.1
463024		5.4	460	0.7	3.5	0.001	0.03	0.09	1.8	0.3	0.2	59.2	<0.01	0.01	1.7
463025		5.5	470	0.7	7.8	0.005	0.07	0.09	1.6	0.3	0.2	67.9	<0.01	0.01	1.2
463026		5.8	470	0.6	12.9	<0.001	0.05	0.08	1.7	0.2	0.2	52.0	<0.01	<0.01	0.9
463027		6.1	480	0.7	11.6	<0.001	0.07	0.09	1.8	0.2	0.2	66.2	<0.01	<0.01	0.9
463028		5.7	430	0.8	3.1	0.007	0.16	0.10	1.6	0.3	0.2	54.0	<0.01	0.03	1.1
463029		5.5	430	1.0	1.9	0.002	0.11	0.07	2.1	<0.2	<0.2	61.4	<0.01	0.01	1.1
463030		642	700	4.7	27.2	0.097	3.87	0.65	8.2	3.2	0.3	51.1	<0.01	0.18	0.9
463031		5.9	470	1.2	1.8	0.001	0.10	<0.05	2.6	0.3	<0.2	66.7	<0.01	0.02	1.3
463032		5.6	480	1.0	2.0	<0.001	0.21	<0.05	2.6	<0.2	<0.2	58.9	<0.01	0.03	0.8
463033		5.6	500	1.6	1.7	0.001	0.10	0.05	2.6	<0.2	<0.2	61.5	<0.01	0.03	0.8
463034		6.3	490	1.2	1.5	0.001	0.05	<0.05	3.4	0.2	<0.2	57.1	<0.01	0.02	0.8
463035		5.0	470	1.1	2.2	0.009	0.22	<0.05	2.4	0.2	<0.2	76.1	<0.01	0.05	0.9
463036		5.5	450	1.1	1.9	0.009	0.51	<0.05	2.0	0.3	<0.2	60.9	<0.01	0.07	1.1
463037		4.7	440	1.1	1.7	0.001	0.21	<0.05	2.5	0.2	<0.2	58.6	<0.01	0.01	1.0
463038		4.9	410	1.8	1.8	0.010	1.42	0.07	2.6	0.6	0.2	47.4	<0.01	0.15	1.0
463039		5.4	440	2.1	1.8	0.002	0.55	0.06	2.7	0.3	0.3	57.8	<0.01	0.06	0.8
463040		5.3	430	2.1	1.8	0.003	0.54	0.06	2.7	0.3	0.3	56.5	<0.01	0.05	0.8
463041		5.2	460	2.0	2.0	<0.001	0.30	0.08	2.2	0.2	0.2	41.5	<0.01	0.01	0.9
463042		5.6	440	3.3	2.5	0.005	1.17	0.06	3.4	0.6	0.2	39.4	<0.01	0.09	1.2
463043		5.1	450	1.6	2.0	<0.001	0.63	0.06	2.5	0.3	0.2	38.9	<0.01	0.02	1.4
463044		5.2	450	1.0	1.4	<0.001	0.39	0.10	2.0	0.3	0.2	44.8	<0.01	0.02	1.1
463045		4.8	450	0.9	1.4	0.002	0.82	0.09	2.1	0.3	0.2	51.4	<0.01	0.05	0.7
463046		4.8	450	1.3	1.0	<0.001	0.20	0.08	2.3	0.4	0.2	75.9	<0.01	0.02	0.9
463047		5.4	430	1.0	1.0	<0.001	0.25	0.09	2.4	0.3	0.2	72.0	<0.01	0.02	0.9
463048		5.6	440	2.4	2.0	0.007	0.34	0.05	3.4	0.4	0.3	109.0	<0.01	0.11	1.2
463049		4.4	450	1.4	1.4	0.001	0.34	0.06	2.5	0.3	0.3	74.8	<0.01	0.05	0.9
463050		30.6	570	13.5	23.6	0.002	0.03	1.29	5.0	3.0	0.6	20.4	<0.01	0.07	8.8
463051		4.7	450	1.3	1.5	0.002	0.24	0.06	2.3	<0.2	0.3	71.7	<0.01	0.22	0.8
463052		4.4	440	1.3	1.3	<0.001	0.06	0.06	2.4	<0.2	<0.2	60.8	<0.01	0.04	0.8
463053		5.0	420	1.5	1.5	0.003	0.24	0.07	2.6	<0.2	0.2	62.3	<0.01	0.17	0.8
463054		4.8	410	2.3	1.7	0.006	0.27	0.05	3.5	0.3	0.3	67.8	<0.01	0.14	1.0
463055		4.6	420	2.5	1.6	0.037	0.31	<0.05	4.3	0.4	0.2	105.0	<0.01	0.15	0.9
463056		4.5	440	1.7	1.7	0.001	0.52	0.05	3.0	0.4	0.3	59.4	<0.01	0.62	1.0



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Page: 3 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 27 -JAN- 2017
 Account: GIBMIN

Project: SGM2016 -25

CERTIFICATE OF ANALYSIS KL17010401

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46	Mo-OG46	Au-AA23
		Tl	U	V	W	Y	Zn	Zr	Cu	Mo	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001	0.005
463017		<0.02	0.16	16	<0.05	7.41	935	<0.5			
463018		<0.02	0.38	15	<0.05	11.00	1140	0.7			
463019		<0.02	0.32	13	<0.05	6.80	1000	<0.5			
463020		0.02	0.27	14	<0.05	6.91	989	<0.5			
463021		0.02	0.50	18	0.06	14.55	2310	<0.5			
463022		0.02	0.29	16	0.08	7.10	8750	<0.5			
463023		<0.02	0.40	23	<0.05	5.55	83	<0.5			
463024		0.02	0.69	22	<0.05	7.48	81	<0.5			
463025		0.06	0.74	22	<0.05	5.30	59	0.5			
463026		0.09	0.45	24	<0.05	4.60	55	<0.5			
463027		0.08	0.64	25	<0.05	5.77	62	<0.5			
463028		0.02	0.55	21	<0.05	5.32	214	<0.5			
463029		<0.02	0.34	24	<0.05	4.92	249	<0.5			
463030		0.58	0.28	72	10.15	4.86	63	1.2			
463031		<0.02	0.33	23	<0.05	5.37	666	<0.5			
463032		<0.02	0.21	25	<0.05	4.51	917	<0.5			
463033		<0.02	0.26	26	<0.05	4.31	403	<0.5			
463034		<0.02	0.22	32	<0.05	5.74	241	<0.5			
463035		<0.02	0.27	22	<0.05	6.60	214	<0.5			
463036		0.02	0.26	16	<0.05	5.91	771	<0.5			
463037		<0.02	0.35	23	<0.05	6.88	554	<0.5			
463038		0.02	0.62	21	0.07	10.65	5090	<0.5			
463039		<0.02	0.33	21	0.07	8.66	2180	<0.5			
463040		<0.02	0.33	21	0.06	8.52	2220	<0.5			
463041		<0.02	0.18	18	0.08	4.83	1680	<0.5			
463042		0.02	1.08	23	0.18	8.32	7080	<0.5			
463043		<0.02	0.32	21	0.05	5.08	2690	<0.5			
463044		<0.02	0.32	22	<0.05	6.92	598	0.5			
463045		<0.02	0.27	22	<0.05	5.74	1130	<0.5			
463046		<0.02	0.40	24	<0.05	6.84	278	<0.5			
463047		<0.02	0.57	23	<0.05	7.80	349	<0.5			
463048		<0.02	0.29	21	0.31	11.40	1060	<0.5			
463049		<0.02	0.21	22	<0.05	5.45	1200	<0.5			
463050		0.33	6.05	20	1.01	18.10	20	27.3			0.367
463051		<0.02	0.20	24	0.06	4.25	469	<0.5			
463052		<0.02	0.18	24	<0.05	4.82	238	<0.5			
463053		<0.02	0.18	25	0.06	4.94	439	<0.5			
463054		<0.02	0.29	25	0.06	6.75	751	<0.5			
463055		<0.02	1.15	28	0.07	11.60	854	<0.5		0.027	
463056		<0.02	0.57	25	0.05	5.79	389	<0.5			



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Page: 4 - A
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 27 - JAN - 2017
Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17010401

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
463057		7.33	1.70	1.64	1.0	<0.2	<10	40	0.14	1.80	3.86	0.93	19.15	11.9	4	0.09
463058		7.02	2.36	1.61	1.2	<0.2	<10	130	0.12	0.90	2.39	1.63	9.49	11.9	4	0.08
463059		6.92	0.13	1.68	0.4	<0.2	<10	60	0.10	0.06	2.17	0.18	10.90	12.2	4	0.09
463060		<0.02	0.13	1.59	0.3	<0.2	<10	50	0.10	0.06	2.10	0.18	11.20	11.9	5	0.09
463061		3.32	0.05	1.50	0.2	<0.2	<10	60	0.11	0.01	1.68	0.07	6.33	10.9	4	0.06
463062		3.40	0.04	1.55	0.2	<0.2	<10	60	0.11	0.01	1.64	0.06	7.51	10.3	3	0.07
463063		6.79	0.28	1.63	0.5	<0.2	<10	60	0.11	0.07	1.21	0.11	7.73	11.3	4	0.08
463064		7.08	0.21	1.50	0.4	<0.2	<10	50	0.10	0.05	1.51	0.11	9.40	10.6	4	0.06
463065		6.86	3.01	1.57	0.8	<0.2	<10	50	0.09	0.12	1.23	0.81	8.72	9.7	4	0.06
463066		7.13	3.49	1.31	1.9	<0.2	<10	40	0.08	0.19	1.34	0.76	9.81	13.8	4	0.12
463067		7.93	3.46	1.19	3.0	<0.2	<10	40	0.07	0.51	0.92	1.47	7.66	36.4	3	0.07
463068		6.40	7.31	1.31	2.8	<0.2	<10	40	0.08	0.40	0.57	2.01	5.80	20.8	3	0.07
463069		0.98	0.08	0.33	0.1	<0.2	<10	30	0.47	0.26	0.33	0.11	103.5	0.8	4	0.48
463070		0.04	0.61	1.66	5.8	0.3	10	100	0.23	0.10	0.87	0.16	9.16	10.9	32	0.44
463071		2.94	1.87	2.02	0.7	<0.2	<10	50	0.11	0.09	1.45	2.03	7.46	16.7	3	0.10
463072		3.51	3.22	1.66	1.8	<0.2	<10	40	0.08	0.28	2.11	1.16	12.30	20.8	3	0.08
463073		7.79	1.68	1.55	4.3	<0.2	<10	30	0.10	0.61	1.36	2.65	15.65	13.4	5	0.15
463074		7.90	2.28	1.20	15.0	<0.2	<10	40	0.07	0.86	0.67	1.43	11.40	31.3	3	0.10
463075		7.39	4.07	0.89	6.8	0.3	<10	40	0.06	1.06	0.58	5.24	12.05	33.3	3	0.20
463076		7.52	2.54	1.40	6.7	<0.2	<10	40	0.08	0.32	1.16	2.02	8.83	21.9	4	0.20
463077		9.05	0.26	1.73	1.0	<0.2	<10	50	0.10	0.07	1.70	3.08	8.67	11.4	4	0.06



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Page: 4 - B
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 27 -JAN-2017
 Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17010401

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
463057		2830	4.04	5.43	0.08	<0.02	0.01	0.154	0.13	7.9	9.8	1.11	2640	1.75	0.01
463058		5250	3.60	5.49	0.07	<0.02	0.01	0.171	0.12	3.6	9.4	1.16	1480	5.64	0.01
463059		183.0	2.75	4.92	0.07	<0.02	<0.01	0.047	0.12	4.1	10.2	1.18	1600	1.45	0.02
463060		173.0	2.62	4.65	0.07	<0.02	<0.01	0.043	0.10	4.3	10.0	1.13	1540	1.71	0.01
463061		58.8	2.09	4.16	0.06	<0.02	<0.01	0.007	0.10	2.5	8.8	1.07	723	1.65	0.02
463062		59.8	2.11	4.38	0.07	<0.02	<0.01	0.007	0.09	2.8	8.4	1.06	690	16.15	0.03
463063		439	2.79	4.55	0.07	<0.02	<0.01	0.060	0.14	2.8	8.6	1.07	1160	18.80	0.02
463064		353	2.36	4.43	0.07	<0.02	<0.01	0.025	0.09	3.5	8.2	1.02	1260	0.80	0.02
463065		5210	3.37	4.92	0.07	<0.02	0.01	0.101	0.15	3.4	8.4	1.05	1390	21.4	<0.01
463066		5100	4.36	3.82	0.07	<0.02	0.01	0.167	0.17	3.7	7.1	0.78	1230	4.64	<0.01
463067		3410	6.63	3.31	0.07	<0.02	0.02	0.122	0.18	2.8	5.6	0.66	1070	3.32	0.01
463068		6660	5.25	3.74	0.06	<0.02	0.01	0.279	0.20	2.2	5.8	0.77	929	1.78	<0.01
463069		22.4	1.06	2.48	0.12	0.25	<0.01	0.029	0.19	58.5	7.2	0.09	255	1.20	0.05
463070		4720	3.71	5.52	0.11	0.23	0.03	0.056	0.14	4.2	11.8	0.79	463	201	0.07
463071		1815	3.52	6.21	0.06	<0.02	0.01	0.045	0.13	2.8	10.7	1.37	2130	0.41	0.01
463072		3300	4.60	5.52	0.07	<0.02	0.01	0.133	0.15	4.8	9.6	1.14	1920	1.67	0.01
463073		1645	4.56	4.44	0.08	<0.02	0.02	0.277	0.14	6.3	7.5	0.96	1530	0.97	0.01
463074		1665	6.10	3.45	0.07	<0.02	0.01	0.306	0.19	4.4	5.2	0.67	803	3.95	<0.01
463075		2960	6.05	2.60	0.07	<0.02	0.03	0.680	0.23	4.6	4.0	0.47	612	3.41	<0.01
463076		1995	4.09	4.06	0.07	0.02	0.01	0.194	0.17	3.3	6.8	0.91	1320	1.79	0.01
463077		240	2.98	5.47	0.07	<0.02	0.02	0.042	0.13	3.3	8.8	1.20	2100	0.28	0.02



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Page: 4 - C
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 27 - JAN - 2017
 Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17010401

Sample Description	Method Analyte Units LOR	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2	ME-MS41 Ti % 0.005
463057		3.6	390	2.0	2.2	0.001	1.33	<0.05	3.6	0.6	0.4	86.1	<0.01	1.78	1.0	<0.005
463058		4.9	400	1.6	2.2	0.003	1.24	0.45	2.6	0.3	0.3	57.5	<0.01	1.35	0.8	0.005
463059		4.8	470	1.8	2.1	<0.001	0.22	0.07	3.2	0.2	0.2	67.3	<0.01	0.05	0.7	0.006
463060		4.7	460	1.7	1.9	<0.001	0.22	0.08	3.0	0.2	0.2	64.8	<0.01	0.04	0.7	0.005
463061		4.6	480	1.1	1.8	<0.001	0.05	0.05	1.8	<0.2	<0.2	48.2	<0.01	0.01	0.5	0.005
463062		4.6	460	1.1	1.6	0.001	0.03	0.06	2.2	0.2	<0.2	57.1	<0.01	0.01	0.4	0.006
463063		4.7	440	1.2	2.4	0.003	0.56	0.06	2.2	0.3	0.3	47.2	<0.01	0.07	0.7	0.007
463064		4.8	420	1.5	1.7	<0.001	0.25	0.07	2.7	<0.2	0.2	52.9	<0.01	0.01	0.9	0.007
463065		5.0	500	1.1	2.5	0.004	1.41	0.09	2.0	0.3	0.4	34.9	<0.01	0.23	0.7	<0.005
463066		4.7	480	2.0	2.8	<0.001	3.03	0.07	2.1	0.4	0.7	35.6	<0.01	0.33	0.9	<0.005
463067		4.9	400	3.9	2.9	<0.001	6.18	0.05	1.8	1.0	0.4	24.8	<0.01	0.44	0.8	<0.005
463068		5.3	500	1.1	3.2	<0.001	4.02	<0.05	1.6	0.6	1.0	16.2	<0.01	0.40	1.2	<0.005
463069		0.7	120	6.5	11.7	<0.001	0.02	<0.05	0.9	0.5	0.7	13.0	<0.01	0.01	27.0	0.014
463070		29.8	590	4.0	5.3	0.098	0.63	0.79	5.4	1.0	1.7	41.7	<0.01	0.05	0.9	0.144
463071		5.3	510	1.2	2.4	<0.001	0.53	<0.05	2.6	0.4	0.2	39.5	<0.01	0.05	0.9	0.008
463072		5.2	500	2.2	2.7	0.001	2.57	<0.05	3.3	0.7	0.3	75.5	<0.01	0.19	1.0	<0.005
463073		5.5	490	2.5	2.4	<0.001	2.41	0.06	3.6	0.5	0.4	53.9	<0.01	0.33	1.2	0.005
463074		5.4	470	1.5	3.0	0.001	5.00	<0.05	1.9	1.1	0.3	23.6	<0.01	0.36	0.9	<0.005
463075		4.9	400	1.2	3.4	<0.001	5.68	0.05	1.5	0.9	0.4	21.7	<0.01	0.78	1.0	<0.005
463076		4.7	440	1.3	2.8	<0.001	2.46	0.05	2.2	0.4	0.3	39.7	<0.01	0.25	0.7	0.007
463077		4.7	480	0.9	2.4	0.001	0.37	<0.05	2.6	0.2	0.2	49.5	<0.01	0.01	0.9	0.012



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Page: 4 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 27 -JAN- 2017
 Account: GIBMIN

Project: SGM2016 -25

CERTIFICATE OF ANALYSIS KL17010401

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
463057		<0.02	2.00	20	0.08	12.40	414	<0.5	0.274		
463058		0.02	3.41	20	<0.05	6.93	338	<0.5	0.506		
463059		<0.02	0.26	26	<0.05	6.38	268	<0.5			
463060		<0.02	0.27	24	<0.05	6.14	256	<0.5			
463061		<0.02	0.11	19	<0.05	3.40	93	<0.5			
463062		<0.02	0.11	22	<0.05	4.69	58	<0.5			
463063		<0.02	0.21	19	0.05	5.04	194	<0.5			
463064		<0.02	0.29	25	<0.05	6.22	160	<0.5			
463065		<0.02	0.96	16	0.09	5.62	334	<0.5	0.524		
463066		<0.02	1.42	14	0.15	5.53	272	<0.5	0.497		
463067		<0.02	1.55	14	0.32	4.22	507	<0.5	0.330		
463068		0.02	1.20	15	0.17	4.01	736	<0.5	0.660		
463069		0.06	3.50	8	0.26	14.90	31	6.1			
463070		0.07	0.28	63	0.36	7.82	47	6.6	0.468	0.023	0.533
463071		<0.02	0.24	25	0.09	6.72	1030	<0.5	0.182		
463072		0.02	1.15	22	0.17	7.50	562	<0.5	0.329		
463073		<0.02	0.65	24	0.30	8.38	1230	<0.5	0.165		
463074		<0.02	0.73	15	0.27	6.47	627	<0.5	0.168		
463075		0.02	1.04	11	0.29	5.36	2110	<0.5	0.289		0.308
463076		<0.02	0.43	18	0.05	5.32	959	<0.5	0.196		
463077		<0.02	0.26	26	<0.05	6.11	1590	<0.5			



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 27 - JAN - 2017
Account: GIBMIN

Project: SGM2016 - 25

CERTIFICATE OF ANALYSIS KL17010401

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.

CRU - 31	CRU - QC	LOG - 21d	LOG - 22
LOG - 23	PUL - 31	PUL - 31d	PUL - QC
SPL - 21	SPL - 21d	WEI - 21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au - AA23	Cu - OG46	ME - MS41	ME - OG46
Mo - OG46			



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Page: 1
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 28-JAN-2017
This copy reported on
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Project: SGM2016-25

P.O. No.: SO221599

This report is for 6 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 24-JAN-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

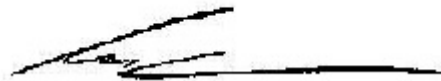
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

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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.

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

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 28-JAN-2017
Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17013012

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb	Nd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2	0.1
459784		798	20.9	10	0.54	2.33	1.53	0.55	17.9	2.27	3.4	0.48	8.7	0.29	2.3	11.8
459791		706	15.8	10	0.34	1.92	1.26	0.52	18.3	1.94	2.3	0.41	6.6	0.19	2.1	9.1
463014		681	30.4	10	0.62	4.35	2.57	0.88	17.9	4.19	6.9	0.89	12.8	0.37	2.5	17.8
463033		581	23.7	10	0.62	3.05	1.92	0.68	18.9	3.07	3.9	0.66	9.2	0.31	2.5	13.5
463062		633	19.4	10	0.56	2.84	1.96	0.64	18.0	2.99	4.9	0.60	7.3	0.29	2.0	12.6
463071		515	22.0	10	0.68	3.18	1.93	0.71	21.0	3.12	4.9	0.68	8.9	0.31	2.0	13.8

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



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Page: 2 - B
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 28 - JAN - 2017
 Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17013012

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	Y	Yb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1	0.5	0.03
459784		2.76	30.2	2.62	1	239	0.1	0.38	0.92	0.24	0.52	59	2	14.7	1.60
459791		2.18	16.4	2.21	1	423	0.1	0.32	0.65	0.19	0.72	64	1	11.6	1.25
463014		4.18	28.1	4.60	1	293	0.1	0.69	1.80	0.41	0.91	96	1	25.2	2.48
463033		3.24	21.4	3.27	1	297	0.1	0.50	1.65	0.29	0.97	109	1	18.7	1.91
463062		2.75	17.1	3.08	1	333	0.1	0.44	0.78	0.28	0.48	102	1	16.9	1.77
463071		3.07	28.7	3.19	1	171.5	0.1	0.45	1.57	0.29	1.04	113	3	19.4	2.04



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Page: 2 - C
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 28-JAN-2017
 Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17013012

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	TOT-ICP06
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
459784		66.0	15.00	3.86	3.56	1.49	2.57	2.33	<0.01	0.32	0.26	0.09	0.03	0.09	4.69	100.29
459791		67.6	15.75	3.63	4.22	1.27	4.57	1.12	<0.01	0.35	0.09	0.09	0.05	0.08	1.40	100.22
463014		65.0	14.80	4.77	4.19	1.88	3.53	1.74	<0.01	0.48	0.27	0.10	0.03	0.08	3.96	100.83
463033		62.6	15.35	5.30	4.48	2.25	3.43	1.37	<0.01	0.49	0.41	0.11	0.03	0.07	4.64	100.53
463062		62.9	15.55	4.82	4.56	2.06	4.19	1.11	<0.01	0.45	0.13	0.11	0.04	0.07	3.54	99.53
463071		62.4	15.75	6.69	3.26	2.67	2.97	1.86	<0.01	0.47	0.55	0.12	0.02	0.06	3.93	100.75



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Page: 2 - D
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 28-JAN-2017
Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17013012

Sample Description	Method Analyte Units LOR	ME-MS81 TI ppm 0.5
459784		<0.5
459791		<0.5
463014		<0.5
463033		<0.5
463062		<0.5
463071		<0.5



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Finalized Date: 28-JAN-2017
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CERTIFICATE OF ANALYSIS KL17013012

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02
TOT-ICP06

ME-ICP06

ME-MS81

OA-GRA05



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Page: 1
Total # Pages: 2 (A - D)
Plus Appendix Pages
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16-MAR-2017
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CERTIFICATE KL17013020

Project: SGM2016-25

P.O. No.: SO221599

This report is for 6 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 24-JAN-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

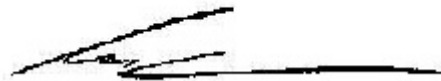
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

To: **GIBRALTAR MINES LTD.**
ATTN: ALS MINERALS

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

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

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 28-JAN-2017
 Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17013020

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2
459683		830	27.5	20	1.31	1.58	0.90	0.44	14.9	1.68	3.6	0.33	13.4	0.18	2.1
459696		668	24.1	10	0.60	3.38	2.18	0.67	16.8	3.15	4.9	0.72	9.2	0.35	2.5
459705		749	30.0	20	1.08	3.73	2.35	0.43	20.3	3.55	4.3	0.77	12.2	0.38	2.7
459723		733	23.7	20	0.56	4.34	2.45	0.90	17.2	4.41	7.7	0.87	8.9	0.38	2.5
459738		569	19.4	10	0.82	3.19	1.90	0.69	17.1	3.04	4.9	0.65	7.6	0.31	2.0
459759		772	17.2	10	0.44	2.37	1.44	0.60	17.8	2.51	3.5	0.50	6.6	0.24	1.8



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Page: 2 - B
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 28-JAN-2017
Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17013020

Sample Description	Method Analyte Units LOR	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03	ME-MS81 Zr ppm 2
459683		3.12	32.4	2.04	1	212	0.1	0.27	1.37	0.12	0.84	47	<1	9.3	1.07	104
459696		3.38	25.2	3.59	1	280	0.1	0.53	1.47	0.33	0.67	93	1	21.2	2.20	167
459705		3.99	53.6	3.51	2	26.7	0.2	0.60	2.18	0.36	1.03	101	8	22.6	2.54	146
459723		3.60	18.1	4.39	1	376	0.1	0.74	1.38	0.34	0.70	101	1	24.5	2.39	283
459738		2.78	23.8	3.15	1	167.5	0.1	0.47	1.68	0.29	0.92	100	1	18.3	1.97	168
459759		2.46	17.0	2.52	1	382	0.1	0.38	0.72	0.24	0.37	81	1	13.9	1.47	121



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Page: 2 - C
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 28-JAN-2017
 Account: GIBMIN

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CERTIFICATE OF ANALYSIS KL17013020

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
459683		70.8	13.65	3.01	2.73	1.06	3.77	2.30	<0.01	0.27	0.09	0.05	0.03	0.10	1.66	99.52
459696		62.5	14.30	4.48	3.72	1.89	3.64	1.54	<0.01	0.44	0.15	0.09	0.03	0.08	6.55	99.41
459705		62.9	14.85	9.03	0.44	2.16	0.19	3.50	<0.01	0.50	1.26	0.10	<0.01	0.09	3.94	98.96
459723		66.9	14.70	4.88	3.53	1.87	3.99	1.17	<0.01	0.54	0.11	0.12	0.04	0.08	2.03	99.96
459738		62.4	15.10	5.06	3.72	2.24	3.96	1.54	<0.01	0.49	0.27	0.11	0.02	0.07	4.53	99.51
459759		67.4	15.20	4.43	3.80	1.77	4.11	1.26	<0.01	0.37	0.14	0.08	0.04	0.09	2.08	100.77



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Page: 2 - D
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 28-JAN-2017
Account: GIBMIN

Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17013020

Sample Description	Method Analyte Units LOR	ME-MS81 TI ppm 0.5
459683		<0.5
459696		<0.5
459705		<0.5
459723		<0.5
459738		<0.5
459759		<0.5



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 28-JAN-2017
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Project: SGM2016-25

CERTIFICATE OF ANALYSIS KL17013020

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02
TOT-ICP06

ME-ICP06

ME-MS81

OA-GRA05



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Page: 1
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CERTIFICATE KL17017098

Project: SGM2016-27

P.O. No.: S0218733

This report is for 102 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 30-JAN-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Mo-OG46	Ore Grade Mo - Aqua Regia	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 8-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017098

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
463092		6.86	1.71	1.43	1.1	<0.2	<10	40	0.07	0.07	1.39	0.85	10.10	8.2	7	0.09
463093		8.51	0.64	1.82	1.1	<0.2	<10	30	0.08	0.14	1.76	3.81	8.86	9.6	5	0.11
463094		8.15	2.03	2.01	2.4	<0.2	<10	40	0.13	0.26	1.59	5.57	11.00	11.4	5	0.14
463095		8.06	3.57	1.60	2.4	<0.2	<10	40	0.10	0.37	1.77	5.09	9.61	10.5	5	0.12
463096		8.55	0.12	1.46	0.5	<0.2	<10	40	0.12	0.05	2.36	0.41	12.15	8.4	6	0.13
463097		8.20	5.76	1.20	1.3	<0.2	<10	30	0.10	1.96	2.85	0.50	15.30	12.8	5	0.16
463098		8.41	0.45	1.72	0.6	<0.2	<10	40	0.14	0.12	2.59	2.14	17.85	12.6	5	0.10
463099		7.32	0.10	1.92	0.2	<0.2	<10	40	0.07	0.06	2.12	0.11	7.69	10.2	4	0.08
463100		<0.02	0.12	1.98	0.3	<0.2	<10	50	0.09	0.06	2.17	0.11	7.91	10.7	7	0.09
463101		2.23	0.63	1.85	0.2	<0.2	<10	80	0.08	0.05	4.31	0.25	5.75	10.7	4	0.06
463102		2.57	0.03	1.84	0.3	<0.2	<10	110	0.07	0.03	2.64	0.15	5.90	10.5	4	0.06
463103		2.07	0.05	1.76	0.3	<0.2	<10	50	0.10	0.02	3.26	0.18	7.61	11.0	4	0.07
463104		7.16	0.11	1.39	0.3	<0.2	<10	30	0.18	0.06	3.77	0.17	15.10	10.3	4	0.08
463105		7.10	2.02	1.89	1.9	<0.2	<10	40	0.09	0.74	2.00	0.63	9.46	16.1	4	0.09
463106		6.95	0.64	1.91	0.3	<0.2	<10	40	0.09	0.08	2.23	0.22	6.08	11.2	4	0.07
463107		7.42	0.72	2.04	2.7	<0.2	<10	60	0.10	0.20	1.95	0.15	5.71	10.0	4	0.08
463108		7.40	7.97	1.39	2.1	<0.2	<10	70	0.09	0.80	1.58	4.50	6.80	34.0	5	0.09
463109		7.56	12.40	1.89	1.6	<0.2	<10	60	0.09	0.86	1.15	2.48	6.83	19.4	5	0.09
463110		0.04	0.12	1.59	4.8	<0.2	10	120	0.22	0.06	1.23	0.15	11.85	9.2	38	0.38
463111		7.87	2.09	1.84	0.7	<0.2	<10	50	0.07	0.55	1.86	0.47	6.85	12.5	6	0.09
463112		7.36	1.41	1.95	1.0	<0.2	<10	50	0.09	0.59	1.40	0.24	7.41	22.8	5	0.09
463113		6.25	3.75	1.61	0.7	<0.2	<10	40	0.08	0.58	1.33	0.41	7.59	12.7	6	0.13
463114		6.56	1.68	0.71	1.0	<0.2	<10	50	0.08	0.79	1.03	0.10	9.38	17.7	6	0.12
463115		6.32	0.02	1.41	0.2	<0.2	<10	150	0.09	0.10	2.31	0.05	4.76	8.1	5	0.08
463116		7.29	1.17	1.86	0.3	<0.2	<10	50	0.08	0.76	1.44	0.31	5.29	11.1	7	0.07
463117		4.78	0.99	2.32	0.3	<0.2	<10	60	0.12	0.07	2.54	0.57	7.46	13.5	7	0.05
463118		1.85	0.10	1.25	0.1	<0.2	<10	50	0.06	0.08	2.61	0.18	6.95	7.7	6	0.06
463119		7.63	0.23	1.14	0.3	<0.2	<10	40	0.12	0.15	3.71	1.76	13.55	8.2	6	0.06
463120		<0.02	0.25	1.15	0.4	<0.2	<10	40	0.12	0.13	3.62	1.38	13.45	7.8	7	0.06
463121		7.45	0.53	1.31	0.4	<0.2	<10	50	0.07	0.24	2.18	2.75	10.55	7.2	8	0.06
463122		7.35	0.48	1.32	0.5	<0.2	<10	30	0.08	0.31	2.65	0.34	10.75	5.3	7	0.09
463123		6.51	0.81	1.61	0.3	<0.2	<10	50	0.09	0.57	1.23	0.11	10.60	9.1	7	0.10
463124		3.34	2.67	0.55	0.7	<0.2	<10	50	0.06	1.39	0.23	0.18	7.60	12.0	6	0.08
463125		4.91	19.35	0.41	1.9	<0.2	<10	40	0.05	1.87	0.16	1.22	6.27	26.6	6	0.08
463126		1.08	0.06	0.28	0.2	<0.2	<10	30	0.45	0.17	0.34	0.03	114.0	0.8	7	0.50
463127		6.43	0.10	1.35	0.4	<0.2	<10	40	0.08	0.26	2.30	0.04	10.90	5.8	7	0.08
463128		7.57	0.55	1.45	0.3	<0.2	<10	50	0.06	0.32	1.04	0.26	5.40	8.5	7	0.08
463129		6.04	8.04	0.94	0.8	<0.2	<10	50	0.08	1.60	0.20	1.03	4.42	10.1	5	0.10
463130		0.04	2.63	1.75	28.7	0.2	10	70	0.36	1.11	0.86	2.34	10.65	10.6	31	3.97
463131		6.72	4.18	1.29	1.4	<0.2	<10	50	0.08	0.64	0.32	0.47	5.12	8.6	5	0.09



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Page: 2 - B
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 8-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017098

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
463092		809	2.88	4.43	<0.05	<0.02	<0.01	0.210	0.10	4.0	9.2	0.98	1480	1.49	0.03
463093		257	3.53	5.43	<0.05	<0.02	0.03	0.207	0.09	3.3	11.3	1.20	2200	1.35	0.03
463094		1095	4.30	6.23	0.08	<0.02	0.05	0.534	0.13	4.1	11.5	1.23	1840	2.57	0.02
463095		1760	3.39	4.93	<0.05	<0.02	0.03	1.215	0.11	3.5	9.3	1.14	1500	0.78	0.03
463096		57.2	2.49	4.33	<0.05	<0.02	<0.01	0.027	0.08	4.4	8.9	1.06	1120	0.53	0.03
463097		3290	4.28	3.56	0.06	0.02	<0.01	0.661	0.08	5.9	7.4	0.87	1120	1.91	0.02
463098		247	3.76	4.86	0.06	0.02	0.02	0.140	0.08	6.7	10.8	1.23	1430	1.24	0.04
463099		17.9	2.79	5.72	<0.05	<0.02	<0.01	0.018	0.08	2.8	13.1	1.40	1090	0.33	0.04
463100		18.3	2.82	5.92	<0.05	<0.02	<0.01	0.019	0.09	3.0	13.6	1.43	1110	0.33	0.04
463101		95.7	2.84	5.10	<0.05	<0.02	<0.01	0.014	0.10	2.1	12.6	1.35	1220	0.16	0.03
463102		7.8	2.74	5.65	<0.05	<0.02	<0.01	0.012	0.09	2.2	12.7	1.27	991	0.28	0.04
463103		18.7	2.90	5.18	<0.05	<0.02	<0.01	0.013	0.10	2.8	12.0	1.15	1210	0.18	0.04
463104		60.6	2.96	4.38	0.06	<0.02	<0.01	0.021	0.08	5.5	9.7	0.83	1610	0.38	0.04
463105		1295	5.12	5.87	0.05	<0.02	0.01	0.205	0.11	3.7	12.5	1.25	1400	1.63	0.04
463106		516	3.25	5.95	<0.05	<0.02	<0.01	0.097	0.09	2.3	11.4	1.32	1320	0.38	0.04
463107		619	3.71	6.51	<0.05	<0.02	<0.01	0.185	0.12	2.2	11.1	1.37	1770	0.29	0.04
463108		8270	5.93	4.62	<0.05	<0.02	0.05	2.04	0.16	2.5	7.0	0.86	1320	2.71	0.02
463109		>10000	5.84	5.52	<0.05	<0.02	0.05	1.300	0.18	2.5	9.6	1.25	1480	1.62	0.02
463110		57.7	3.08	5.30	0.08	0.27	0.02	0.023	0.11	5.3	9.8	0.79	516	5.67	0.09
463111		3120	4.24	5.42	<0.05	<0.02	0.01	0.249	0.16	2.6	10.1	1.25	1880	0.50	0.02
463112		1890	5.46	5.63	<0.05	<0.02	<0.01	0.229	0.14	2.7	10.6	1.35	1440	1.56	0.03
463113		8080	4.93	4.59	<0.05	<0.02	0.02	0.400	0.11	2.7	8.9	1.07	1400	0.85	0.03
463114		2910	5.94	2.08	0.06	0.07	0.01	0.071	0.18	3.5	3.3	0.35	1020	1.64	0.02
463115		34.4	2.02	3.74	0.05	<0.02	<0.01	0.023	0.12	1.9	7.4	0.91	1840	0.95	0.03
463116		2290	3.75	5.85	<0.05	<0.02	0.02	0.236	0.11	2.2	9.3	1.26	1740	0.55	0.03
463117		1445	4.57	8.27	<0.05	<0.02	0.01	0.162	0.08	2.7	10.5	1.61	1760	0.68	0.04
463118		82.2	2.63	4.01	<0.05	<0.02	<0.01	0.016	0.09	2.7	6.0	0.97	1680	1.92	0.05
463119		355	3.24	3.50	<0.05	<0.02	0.03	0.121	0.07	5.5	5.8	0.97	2180	1.17	0.05
463120		349	3.19	3.56	<0.05	<0.02	0.02	0.109	0.08	5.4	5.5	0.95	2140	1.23	0.05
463121		620	3.33	3.52	<0.05	<0.02	0.07	0.172	0.11	3.5	5.7	0.94	2010	1.31	0.04
463122		1130	2.49	4.02	<0.05	<0.02	<0.01	0.090	0.09	4.5	7.1	0.87	1760	1.82	0.04
463123		1630	3.79	4.83	<0.05	<0.02	<0.01	0.126	0.18	4.0	8.1	1.00	1720	1.07	0.03
463124		4590	4.97	1.77	<0.05	<0.02	0.01	0.187	0.21	2.9	1.6	0.18	281	0.92	0.02
463125		>10000	10.60	1.49	0.05	<0.02	0.05	0.460	0.19	2.3	0.7	0.06	117	2.83	0.02
463126		38.3	1.25	2.37	0.08	0.20	<0.01	0.018	0.16	63.0	8.4	0.10	283	1.44	0.05
463127		91.5	2.35	4.18	<0.05	<0.02	<0.01	0.031	0.07	4.2	7.2	0.94	2120	0.61	0.04
463128		1085	2.99	4.32	<0.05	<0.02	0.01	0.063	0.15	2.1	7.3	0.94	1380	2.45	0.04
463129		>10000	5.10	3.38	0.05	<0.02	0.06	0.689	0.20	1.7	4.2	0.47	444	0.86	0.02
463130		2550	4.59	5.33	0.10	0.04	0.04	0.146	0.29	5.2	17.8	0.59	783	227	0.05
463131		7600	4.30	3.57	<0.05	<0.02	0.04	0.406	0.18	2.0	6.8	0.79	784	0.65	0.02



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Page: 2 - C
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 8-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017098

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
463092		4.5	380	1.2	2.0	<0.001	0.59	0.06	2.1	<0.2	0.2	51.9	<0.01	0.05	1.2
463093		4.6	480	1.7	1.9	<0.001	0.80	0.06	2.9	0.4	0.2	65.3	<0.01	0.08	0.5
463094		4.8	480	2.3	2.7	0.001	1.12	0.07	3.3	0.3	0.3	60.7	<0.01	0.15	0.6
463095		4.7	430	2.3	2.2	<0.001	1.18	0.08	2.9	0.4	0.3	57.9	<0.01	0.59	0.5
463096		4.2	470	2.2	1.7	<0.001	0.04	0.09	3.5	0.2	0.2	78.9	<0.01	0.02	0.5
463097		4.4	480	4.0	1.6	<0.001	2.34	0.14	3.5	0.5	0.5	81.1	<0.01	2.36	0.7
463098		4.8	540	3.2	1.6	0.001	1.02	0.13	4.8	0.6	0.3	86.0	<0.01	0.14	0.6
463099		5.0	510	1.1	1.4	<0.001	<0.01	0.06	2.5	<0.2	<0.2	65.9	<0.01	<0.01	0.4
463100		6.0	510	1.2	1.6	<0.001	<0.01	0.06	2.6	0.2	<0.2	68.3	<0.01	<0.01	0.5
463101		5.0	460	1.2	1.7	<0.001	<0.01	0.07	2.4	0.2	<0.2	99.7	<0.01	0.02	0.2
463102		4.6	510	0.9	1.5	<0.001	<0.01	<0.05	2.4	<0.2	<0.2	77.3	<0.01	<0.01	0.3
463103		5.1	510	0.9	1.8	<0.001	<0.01	<0.05	2.5	0.3	<0.2	95.7	<0.01	<0.01	0.4
463104		4.5	500	1.1	1.8	<0.001	0.05	<0.05	3.8	0.5	<0.2	118.0	<0.01	0.01	0.6
463105		5.7	500	0.9	2.1	<0.001	2.60	0.05	2.9	0.6	0.3	60.5	<0.01	0.64	0.7
463106		5.3	480	1.0	1.6	<0.001	0.44	<0.05	2.8	<0.2	0.2	67.1	<0.01	0.10	0.4
463107		4.7	500	0.7	2.1	<0.001	0.72	<0.05	2.4	0.3	0.2	48.9	<0.01	0.11	0.3
463108		6.4	440	1.0	2.8	<0.001	4.46	0.06	1.9	0.9	0.6	41.4	<0.01	1.18	0.7
463109		6.0	630	0.6	2.8	<0.001	3.45	<0.05	2.0	0.4	0.8	29.9	<0.01	0.91	0.5
463110		32.8	600	3.7	4.3	0.002	0.06	0.55	5.2	0.5	1.0	49.7	<0.01	0.02	1.2
463111		5.0	580	0.7	2.6	<0.001	1.82	<0.05	2.3	0.5	0.3	48.5	<0.01	0.46	0.5
463112		6.4	570	1.0	2.3	<0.001	3.22	0.06	2.2	0.7	0.3	42.6	<0.01	0.53	0.5
463113		5.5	510	1.1	1.9	<0.001	2.95	0.07	1.9	0.5	0.4	51.2	<0.01	0.64	0.3
463114		5.1	420	0.5	3.2	0.001	6.00	0.06	1.4	0.9	0.3	25.5	<0.01	0.71	0.3
463115		4.1	480	1.0	2.4	<0.001	0.13	0.07	2.0	<0.2	<0.2	82.8	<0.01	0.03	0.5
463116		5.7	540	0.6	1.9	<0.001	0.94	0.05	2.8	0.2	0.2	42.9	<0.01	0.47	0.3
463117		7.0	590	0.7	1.4	<0.001	0.45	<0.05	5.0	0.2	0.2	64.6	<0.01	0.05	0.3
463118		4.5	410	0.5	1.4	<0.001	0.13	<0.05	2.1	0.2	<0.2	51.9	<0.01	0.05	0.5
463119		4.3	410	0.9	1.2	<0.001	0.45	<0.05	2.4	0.4	<0.2	105.5	<0.01	0.09	0.5
463120		4.2	410	0.8	1.3	<0.001	0.43	<0.05	2.4	0.5	<0.2	105.0	<0.01	0.07	0.5
463121		3.9	430	0.6	1.6	<0.001	0.89	<0.05	1.6	0.2	<0.2	49.0	<0.01	0.16	0.6
463122		5.6	460	3.0	1.7	0.001	0.27	0.06	2.1	0.4	<0.2	79.9	<0.01	0.18	0.5
463123		4.6	460	0.8	3.0	<0.001	1.52	0.05	2.1	0.4	0.2	40.8	<0.01	0.28	0.6
463124		4.8	460	0.5	3.4	<0.001	4.87	<0.05	0.7	0.3	0.5	11.7	<0.01	1.24	0.7
463125		4.6	500	0.7	2.8	<0.001	>10.0	0.07	0.5	1.6	1.1	9.9	<0.01	2.10	0.5
463126		1.0	130	6.0	9.7	<0.001	0.02	0.05	0.9	0.6	0.6	13.3	<0.01	0.01	29.7
463127		3.3	590	1.0	1.2	<0.001	0.12	0.05	2.9	0.5	<0.2	64.4	<0.01	0.03	0.5
463128		4.4	460	0.5	2.3	0.001	1.16	<0.05	1.6	0.3	0.2	30.4	<0.01	0.12	0.5
463129		3.8	530	0.5	3.6	<0.001	4.43	0.06	1.0	0.5	1.4	10.3	<0.01	2.97	0.5
463130		21.5	740	78.6	18.4	0.229	2.24	1.61	3.1	4.1	0.7	58.9	0.02	0.82	3.1
463131		3.4	480	0.3	2.7	<0.001	2.97	<0.05	1.0	0.2	0.7	12.9	<0.01	0.43	0.4



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Page: 2 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 8-FEB-2017
 Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017098

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46	Mo-OG46	Au-AA23
		TI	U	V	W	Y	Zn	Zr	Cu	Mo	Au
		ppm 0.02	ppm 0.05	ppm 1	ppm 0.05	ppm 0.05	ppm 2	ppm 0.5	% 0.001	% 0.001	ppm 0.005
463092		<0.02	0.37	18	0.16	4.96	567	<0.5			
463093		<0.02	0.15	25	0.10	4.88	1920	<0.5			
463094		<0.02	0.32	25	0.16	6.62	2520	<0.5			
463095		<0.02	0.53	25	0.11	4.89	1800	<0.5	0.179		
463096		<0.02	0.25	30	0.06	6.55	202	<0.5			
463097		<0.02	2.25	38	0.12	8.84	194	<0.5	0.312		
463098		<0.02	0.43	45	0.09	12.25	994	<0.5			
463099		<0.02	0.12	32	<0.05	4.40	351	<0.5			
463100		<0.02	0.14	33	<0.05	4.55	363	<0.5			
463101		<0.02	0.12	25	<0.05	5.51	149	<0.5			
463102		<0.02	0.13	29	<0.05	4.45	237	<0.5			
463103		<0.02	0.23	27	<0.05	5.71	162	<0.5			
463104		<0.02	1.14	25	0.08	13.15	175	<0.5			
463105		<0.02	0.43	30	0.10	4.97	352	<0.5			
463106		<0.02	0.22	30	0.06	4.70	240	<0.5			
463107		<0.02	0.14	26	0.05	4.15	434	<0.5			
463108		0.02	0.39	18	0.09	3.81	1680	<0.5	0.810		
463109		<0.02	0.86	19	0.10	4.41	841	<0.5	1.590		
463110		0.06	0.33	66	0.42	8.30	45	8.2			
463111		<0.02	0.23	21	0.09	4.15	347	<0.5	0.309		
463112		<0.02	0.32	25	0.10	3.41	212	<0.5	0.189		
463113		<0.02	0.78	19	0.09	4.26	219	<0.5	0.799		
463114		0.02	2.42	8	0.20	4.46	85	<0.5	0.289		
463115		<0.02	0.15	15	0.08	4.19	200	<0.5			
463116		<0.02	0.47	32	0.06	4.98	371	<0.5	0.228		
463117		<0.02	0.21	70	0.08	8.16	357	<0.5			
463118		<0.02	0.12	16	0.51	4.73	216	<0.5			
463119		<0.02	2.95	16	0.33	14.95	483	<0.5			
463120		<0.02	2.88	16	0.32	13.95	426	<0.5			
463121		<0.02	0.25	13	0.17	4.96	704	<0.5			
463122		<0.02	0.36	13	0.07	6.42	318	<0.5			
463123		0.02	0.46	16	0.16	6.66	246	<0.5	0.156		
463124		0.02	0.84	6	0.22	3.59	64	<0.5	0.441		
463125		<0.02	5.73	4	0.21	3.85	282	<0.5	3.74		
463126		0.05	3.79	9	0.21	15.40	19	5.0			
463127		<0.02	0.38	18	0.05	8.03	132	<0.5			
463128		<0.02	0.24	14	0.11	3.39	314	<0.5			
463129		0.02	1.79	6	0.24	1.47	423	<0.5	1.510		
463130		0.32	0.62	33	1.69	5.12	444	2.4	0.249	0.028	0.330
463131		<0.02	0.70	8	0.14	2.95	272	<0.5	0.762		



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Page: 3 - A
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 8-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017098

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
463132		4.13	11.10	0.86	0.7	0.2	<10	40	0.06	1.14	0.56	0.98	8.95	8.1	6	0.07
463133		6.64	1.95	0.56	0.3	<0.2	<10	50	0.11	0.58	1.68	0.61	13.00	9.0	6	0.06
463134		2.69	0.04	0.39	0.1	<0.2	<10	40	0.09	0.19	2.74	0.11	10.40	7.6	8	<0.05
463135		4.35	2.00	0.69	0.6	<0.2	<10	50	0.07	0.43	0.98	0.32	7.45	9.5	7	0.06
463136		3.20	1.65	1.15	0.5	<0.2	<10	50	0.11	0.23	1.74	0.57	10.20	8.3	6	0.06
463137		7.43	3.22	1.32	0.4	<0.2	<10	40	0.09	0.39	1.14	1.80	12.35	6.8	8	0.09
463138		7.74	10.05	1.16	0.8	<0.2	<10	40	0.07	0.54	0.77	1.52	9.17	7.4	7	0.08
463139		7.86	0.79	1.00	0.7	<0.2	<10	80	0.12	0.32	1.01	0.76	12.25	7.0	6	0.11
463140		<0.02	0.79	1.00	0.7	<0.2	<10	80	0.09	0.31	0.99	0.74	11.75	6.9	7	0.10
463141		7.57	2.78	1.15	0.7	<0.2	<10	90	0.11	0.26	1.51	1.12	9.75	7.4	7	0.18
463142		8.11	2.06	1.13	0.3	<0.2	<10	100	0.14	0.18	2.15	1.41	16.70	4.9	4	0.22
463143		7.09	2.47	1.48	0.4	<0.2	<10	60	0.13	0.25	2.04	1.82	12.80	6.4	4	0.15
463144		7.76	0.06	1.37	0.2	<0.2	<10	50	0.07	0.08	1.39	1.53	8.80	6.7	4	0.13
463145		7.22	0.03	1.03	0.3	<0.2	<10	100	0.10	0.09	2.09	0.72	10.65	4.7	5	0.34
463146		2.59	0.01	0.71	0.2	<0.2	<10	550	0.10	0.05	3.26	0.12	11.10	2.4	6	0.32
459808		3.16	1.23	1.35	4.6	<0.2	<10	90	0.08	0.81	0.97	1.14	13.40	4.7	4	0.06
459809		7.61	2.21	0.73	2.3	<0.2	<10	90	0.08	0.63	1.48	1.47	13.35	8.7	4	0.05
459810		0.04	0.70	1.76	6.1	0.9	10	110	0.23	0.11	0.90	0.15	9.67	10.4	34	0.46
459811		3.93	3.52	0.53	3.9	<0.2	<10	60	0.06	0.71	0.93	1.44	10.15	4.7	8	0.05
459812		0.99	0.04	0.28	0.2	<0.2	<10	30	0.43	0.12	0.37	0.06	114.0	0.8	9	0.49
459813		3.02	0.20	0.89	0.7	<0.2	<10	70	0.15	0.15	2.14	1.28	16.65	4.2	3	0.16
459814		6.83	0.57	0.85	0.9	<0.2	<10	50	0.10	0.13	1.00	0.52	10.25	4.2	5	0.21
459815		6.59	0.01	0.74	0.6	<0.2	<10	80	0.09	0.01	0.62	0.02	6.09	4.1	6	0.05
459816		7.60	0.01	0.62	0.2	<0.2	<10	80	0.09	0.02	1.00	0.24	6.45	3.6	4	0.09
459817		6.96	0.01	0.41	2.9	<0.2	<10	70	0.11	0.01	0.92	0.02	6.62	2.6	5	0.21
459818		6.87	0.02	0.46	0.2	<0.2	<10	140	0.13	0.01	0.87	0.04	9.11	2.3	4	0.24
459819		6.90	0.20	0.23	<0.1	<0.2	<10	120	0.09	0.22	0.54	2.99	9.72	1.7	5	0.07
459820		<0.02	0.23	0.25	0.2	<0.2	<10	130	0.10	0.25	0.54	3.05	10.10	1.7	5	0.07
459821		6.97	0.05	0.21	<0.1	<0.2	<10	60	0.13	0.07	0.25	1.27	17.90	1.3	6	0.06
459822		7.09	0.05	0.23	<0.1	<0.2	<10	100	0.14	0.04	0.52	2.57	17.60	1.0	6	0.06
459823		6.82	0.81	0.25	<0.1	<0.2	<10	80	0.10	0.25	0.41	3.20	12.70	1.3	6	<0.05
459824		6.75	0.17	0.21	<0.1	<0.2	<10	70	0.10	0.09	0.40	0.24	10.50	0.8	6	0.05
459825		6.87	0.02	0.19	0.2	<0.2	<10	210	0.10	0.02	0.36	0.89	17.40	0.9	6	0.10
459826		6.61	0.02	0.20	<0.1	<0.2	<10	90	0.09	0.02	0.47	0.23	15.65	0.9	7	0.25
459827		6.86	0.05	0.21	0.1	<0.2	<10	130	0.09	0.02	0.37	0.15	5.30	0.5	6	0.06
459828		3.27	0.03	0.20	<0.1	<0.2	<10	70	0.10	0.03	0.54	0.45	8.70	0.6	6	0.05
459829		4.09	0.05	1.81	0.3	<0.2	<10	200	0.59	0.02	1.98	0.22	6.67	17.5	190	1.93
459830		0.04	0.47	2.18	14.5	<0.2	20	100	0.30	0.47	1.17	0.22	10.70	53.1	274	1.27
459831		6.81	0.05	0.60	0.1	<0.2	<10	190	0.26	0.04	1.36	0.21	10.35	3.9	65	0.42
459832		7.38	0.22	0.23	<0.1	<0.2	<10	90	0.11	0.11	0.54	0.33	9.08	1.4	6	0.05



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Page: 3 - B
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 8-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017098

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
463132		>10000	5.90	2.54	<0.05	<0.02	0.08	0.581	0.18	3.5	4.4	0.47	688	3.06	0.02
463133		3160	3.53	1.66	<0.05	<0.02	0.03	0.167	0.12	5.2	2.1	0.61	2000	1.37	0.05
463134		24.1	2.17	1.30	<0.05	<0.02	<0.01	0.022	0.05	4.1	1.4	0.56	1380	3.31	0.07
463135		2230	5.85	2.01	<0.05	<0.02	0.02	0.086	0.16	2.8	2.8	0.49	1020	6.09	0.04
463136		1995	4.40	3.92	<0.05	<0.02	0.01	0.286	0.12	3.9	5.5	0.91	2210	1.80	0.05
463137		4300	3.86	4.11	<0.05	<0.02	0.03	0.356	0.13	4.9	5.7	0.77	1700	5.21	0.03
463138		>10000	5.05	3.88	<0.05	<0.02	0.03	0.765	0.14	3.5	4.4	0.64	920	1.38	0.03
463139		1145	3.85	3.36	0.07	<0.02	0.01	0.126	0.12	4.8	4.4	0.56	1050	0.61	0.03
463140		1110	3.83	3.06	<0.05	<0.02	0.02	0.120	0.12	4.6	4.4	0.55	1050	0.89	0.03
463141		3160	3.86	3.39	<0.05	<0.02	0.02	0.418	0.12	3.8	4.7	0.63	1390	2.61	0.03
463142		2380	2.55	3.58	<0.05	<0.02	0.02	0.359	0.11	5.8	3.9	0.57	1750	0.46	0.04
463143		2400	3.14	4.57	<0.05	<0.02	0.02	0.405	0.10	4.7	6.0	0.79	1790	0.27	0.05
463144		27.4	2.03	3.83	<0.05	<0.02	0.01	0.038	0.06	3.3	4.8	0.74	1200	0.67	0.05
463145		11.4	1.63	3.03	<0.05	<0.02	0.01	0.016	0.05	4.3	4.4	0.51	1350	0.23	0.05
463146		3.5	1.29	2.08	<0.05	<0.02	<0.01	0.021	0.12	4.3	2.4	0.31	1320	0.22	0.03
459808		1040	3.80	4.72	<0.05	<0.02	0.02	0.375	0.16	5.5	3.5	0.52	1420	1.39	0.02
459809		3650	3.78	2.24	<0.05	<0.02	0.06	0.274	0.19	5.5	1.8	0.27	1190	5.71	0.02
459810		4680	3.72	5.84	0.11	0.25	0.03	0.058	0.14	4.5	11.8	0.82	472	207	0.09
459811		6930	3.98	1.62	<0.05	<0.02	0.14	0.275	0.18	4.3	1.2	0.18	781	1.41	0.01
459812		10.2	1.20	2.36	0.08	0.19	<0.01	0.023	0.15	62.8	7.2	0.10	324	1.12	0.04
459813		232	2.42	2.89	<0.05	<0.02	0.04	0.145	0.11	6.3	3.0	0.43	1340	0.45	0.03
459814		866	2.11	2.70	<0.05	<0.02	0.03	0.176	0.11	4.0	2.6	0.43	698	0.39	0.03
459815		3.4	1.19	2.51	<0.05	0.02	<0.01	0.006	0.11	2.0	2.4	0.40	412	2.63	0.05
459816		3.2	1.07	1.99	<0.05	0.02	<0.01	0.021	0.17	2.3	2.3	0.32	601	0.39	0.03
459817		2.4	0.88	1.57	<0.05	<0.02	<0.01	0.006	0.18	2.6	1.4	0.13	730	0.11	0.04
459818		6.0	0.84	1.71	<0.05	0.02	<0.01	0.005	0.27	3.4	1.5	0.14	587	0.32	0.04
459819		136.0	0.60	0.75	0.07	<0.02	0.03	0.378	0.19	3.6	0.6	0.03	375	0.33	0.04
459820		139.5	0.66	0.78	0.05	<0.02	0.04	0.393	0.20	3.7	0.6	0.03	390	0.35	0.04
459821		19.2	0.54	0.70	0.06	<0.02	0.02	0.122	0.18	6.8	0.5	0.02	386	1.33	0.05
459822		14.6	0.54	0.81	<0.05	<0.02	0.03	0.197	0.20	6.9	0.5	0.02	409	1.24	0.05
459823		2710	1.51	0.71	<0.05	<0.02	0.04	0.353	0.21	4.6	0.3	0.01	308	1.46	0.03
459824		604	0.83	0.63	<0.05	<0.02	0.01	0.061	0.19	3.7	0.3	0.01	279	0.91	0.04
459825		16.3	0.46	0.64	0.05	<0.02	0.01	0.066	0.16	6.2	0.2	0.01	269	0.61	0.05
459826		7.5	0.45	0.70	<0.05	0.02	0.01	0.027	0.14	5.6	0.2	0.02	267	0.71	0.05
459827		43.1	0.48	0.71	<0.05	<0.02	0.01	0.014	0.16	2.1	0.2	0.01	182	2.22	0.06
459828		7.0	0.43	0.63	<0.05	<0.02	0.01	0.039	0.15	3.1	0.2	0.01	268	2.07	0.05
459829		49.0	2.18	3.51	0.09	0.06	<0.01	0.012	1.43	2.7	9.4	1.76	629	1.71	0.04
459830		836	5.55	5.88	0.10	0.04	0.03	0.025	0.70	4.2	4.2	5.60	475	95.6	0.11
459831		70.5	0.92	1.48	0.05	<0.02	<0.01	0.017	0.45	3.6	3.0	0.49	489	1.76	0.05
459832		700	0.77	0.62	<0.05	<0.02	0.01	0.076	0.21	3.1	0.3	0.01	359	0.74	0.04



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Page: 3 - C
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 8-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017098

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
463132		3.7	560	0.4	2.5	0.001	5.76	0.05	0.8	0.6	2.9	18.0	<0.01	1.16	0.5
463133		3.1	490	0.5	1.8	<0.001	2.14	<0.05	1.4	0.6	0.4	44.1	<0.01	0.73	0.6
463134		2.9	480	0.6	0.8	0.001	0.12	<0.05	1.8	0.4	<0.2	96.9	<0.01	0.01	0.4
463135		4.1	450	0.4	2.3	0.001	5.03	<0.05	0.8	0.6	0.3	29.9	<0.01	0.59	0.4
463136		3.9	420	0.5	1.8	<0.001	1.83	<0.05	1.4	0.4	0.2	56.1	<0.01	0.23	0.4
463137		3.5	480	0.7	2.0	0.001	1.73	0.05	1.9	0.5	0.4	39.6	<0.01	0.27	0.6
463138		4.0	500	0.9	2.1	<0.001	3.72	0.06	1.6	0.6	1.3	28.5	<0.01	0.63	0.5
463139		3.4	390	1.2	2.3	<0.001	2.51	0.05	2.2	0.5	0.2	46.6	<0.01	0.29	0.9
463140		3.4	390	1.1	1.7	<0.001	2.45	<0.05	1.8	0.5	0.2	44.6	<0.01	0.27	0.8
463141		3.8	410	1.4	1.9	<0.001	2.22	0.05	2.2	0.4	0.6	63.7	<0.01	0.20	0.4
463142		2.6	340	2.6	1.8	<0.001	0.59	0.06	2.1	0.5	0.4	101.0	<0.01	0.16	1.2
463143		3.2	430	2.2	1.6	<0.001	0.76	0.05	2.9	0.4	0.4	96.5	<0.01	0.37	0.6
463144		2.8	450	1.5	0.9	<0.001	0.31	0.08	2.1	0.4	0.2	78.7	<0.01	0.08	0.6
463145		2.3	320	2.8	1.0	<0.001	0.13	0.12	2.0	0.3	0.2	101.5	<0.01	0.04	0.8
463146		2.8	250	2.8	2.0	<0.001	0.07	0.06	1.1	0.2	<0.2	135.5	<0.01	<0.01	0.9
459808		2.4	290	1.0	2.4	<0.001	1.30	0.09	1.0	0.3	0.3	22.4	<0.01	0.52	1.2
459809		1.8	290	1.2	2.8	0.001	2.93	0.07	0.6	0.5	0.5	30.6	<0.01	0.55	1.0
459810		32.3	600	4.1	6.0	0.101	0.65	0.82	6.1	1.0	1.6	46.2	<0.01	0.06	1.0
459811		2.1	340	1.2	2.4	<0.001	3.39	0.20	0.6	0.5	0.7	20.7	<0.01	0.79	0.9
459812		1.1	130	5.9	9.4	<0.001	0.01	<0.05	0.8	0.6	0.6	14.4	<0.01	0.01	27.4
459813		1.7	370	2.0	1.7	<0.001	0.50	0.08	1.8	0.2	0.2	56.9	<0.01	0.13	0.9
459814		2.0	380	1.1	1.6	<0.001	0.73	0.17	1.2	0.3	0.3	41.0	<0.01	0.11	0.8
459815		1.9	380	0.7	1.7	0.002	0.13	0.18	0.7	0.3	<0.2	44.4	<0.01	0.01	0.7
459816		1.5	360	0.7	2.8	<0.001	0.17	0.16	0.7	0.2	<0.2	37.4	<0.01	0.02	0.7
459817		1.2	290	1.1	3.8	<0.001	0.07	0.11	0.9	0.4	<0.2	45.2	<0.01	0.01	0.8
459818		1.0	290	1.4	5.3	<0.001	0.04	0.10	1.0	0.3	<0.2	38.0	<0.01	0.01	1.3
459819		0.8	120	1.7	2.9	<0.001	0.31	0.06	0.4	0.2	<0.2	14.2	<0.01	0.17	2.2
459820		0.7	120	1.5	3.1	<0.001	0.32	0.07	0.4	0.2	<0.2	14.9	<0.01	0.22	2.3
459821		0.6	90	1.2	3.1	<0.001	0.14	<0.05	0.4	0.2	<0.2	6.5	<0.01	0.01	2.6
459822		0.8	100	1.3	3.3	<0.001	0.14	<0.05	0.4	0.2	<0.2	14.9	<0.01	0.02	2.3
459823		0.7	110	3.1	2.9	<0.001	1.33	<0.05	0.2	<0.2	0.2	9.9	<0.01	0.23	1.9
459824		0.8	70	1.6	3.2	0.001	0.55	<0.05	0.2	0.2	<0.2	5.5	<0.01	0.09	2.5
459825		0.9	60	1.8	2.8	<0.001	0.09	<0.05	0.3	0.2	<0.2	13.9	<0.01	<0.01	2.3
459826		1.1	50	2.7	2.6	<0.001	0.05	<0.05	0.5	<0.2	<0.2	32.1	<0.01	<0.01	2.2
459827		0.5	50	1.3	2.4	0.001	0.09	<0.05	0.4	0.2	<0.2	14.1	<0.01	0.03	1.6
459828		1.1	60	0.9	2.4	<0.001	0.06	<0.05	0.4	<0.2	<0.2	9.8	<0.01	0.01	2.0
459829		93.1	1010	1.2	42.4	<0.001	0.13	0.06	2.5	0.2	0.2	81.1	<0.01	0.03	1.0
459830		641	690	4.3	27.8	0.102	3.88	0.83	8.0	3.3	0.4	51.2	<0.01	0.21	0.9
459831		19.8	190	1.4	10.5	0.001	0.11	<0.05	2.2	0.3	<0.2	32.1	<0.01	0.01	1.9
459832		1.1	80	2.2	3.5	<0.001	0.44	<0.05	0.3	<0.2	<0.2	7.4	<0.01	0.11	2.3



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Page: 3 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 8 - FEB - 2017
 Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017098

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46	Mo-OG46	Au-AA23
		TI	U	V	W	Y	Zn	Zr	Cu	Mo	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001	0.005
463132		<0.02	5.27	6	0.22	3.39	284	<0.5	1.830		0.270
463133		<0.02	1.65	8	0.09	10.25	185	<0.5	0.313		
463134		<0.02	0.48	14	0.05	7.05	69	<0.5			
463135		<0.02	0.81	6	0.22	5.15	170	<0.5	0.214		
463136		<0.02	0.61	13	0.11	8.06	335	0.5	0.191		
463137		<0.02	0.77	11	0.14	7.50	707	<0.5	0.418		
463138		<0.02	4.00	10	0.13	4.96	453	<0.5	1.070		
463139		<0.02	0.77	10	0.16	6.37	498	<0.5			
463140		<0.02	0.79	10	0.13	6.38	486	<0.5			
463141		<0.02	0.79	13	0.20	6.46	458	<0.5	0.305		
463142		<0.02	0.74	12	0.13	11.45	675	<0.5	0.232		
463143		<0.02	0.78	19	0.06	10.10	819	<0.5	0.221		
463144		<0.02	0.29	16	<0.05	5.57	757	<0.5			
463145		<0.02	0.39	13	<0.05	6.24	430	<0.5			
463146		<0.02	0.58	6	0.11	4.50	112	<0.5			
459808		<0.02	1.16	7	0.09	7.55	666	<0.5			
459809		<0.02	1.75	4	0.15	5.81	576	<0.5	0.352		
459810		0.07	0.75	66	0.36	8.09	48	7.5	0.472	0.024	0.580
459811		0.02	1.47	2	0.18	3.31	416	<0.5	0.702		
459812		0.05	3.32	9	0.27	16.15	24	4.9			
459813		<0.02	0.71	8	0.10	10.25	504	<0.5			
459814		<0.02	0.43	8	<0.05	6.58	241	<0.5			
459815		<0.02	0.22	6	<0.05	5.26	66	<0.5			
459816		0.02	0.33	5	<0.05	5.15	128	<0.5			
459817		0.03	0.25	4	<0.05	8.19	38	<0.5			
459818		0.04	0.70	4	<0.05	8.22	43	<0.5			
459819		<0.02	1.00	1	<0.05	5.24	1200	<0.5			
459820		0.02	0.86	1	<0.05	5.26	1240	<0.5			
459821		0.02	0.83	1	<0.05	7.09	540	<0.5			
459822		0.02	0.63	1	<0.05	5.57	1080	<0.5			
459823		<0.02	1.66	<1	0.08	4.50	1260	<0.5	0.264		
459824		0.02	1.52	1	0.06	4.43	79	<0.5			
459825		<0.02	0.58	1	<0.05	3.77	267	<0.5			
459826		<0.02	0.68	1	<0.05	6.23	85	<0.5			
459827		<0.02	0.83	1	<0.05	4.47	58	<0.5			
459828		<0.02	0.63	1	<0.05	4.95	179	<0.5			
459829		0.23	0.84	45	0.05	6.15	102	1.0			
459830		0.60	0.29	73	11.15	4.52	62	1.2			
459831		0.07	0.99	14	<0.05	6.21	52	<0.5			
459832		0.02	1.45	1	<0.05	5.59	133	<0.5			



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Page: 4 - A
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 8-FEB-2017
 Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017098

Sample Description	Method Analyte Units LOR	WEI-21	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
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
459833		7.23	0.69	0.32	0.4	<0.2	<10	100	0.10	0.59	0.33	0.77	14.90	1.1	5	0.06
459834		7.53	0.66	0.28	0.1	<0.2	<10	140	0.10	0.29	0.52	1.08	18.15	1.0	6	0.07
459835		7.21	0.05	0.30	<0.1	<0.2	<10	170	0.11	0.05	1.21	0.51	8.74	0.8	5	0.11
459836		6.65	0.07	0.52	<0.1	<0.2	<10	80	0.09	0.04	1.13	0.06	7.85	1.9	6	0.11
459837		7.23	0.01	0.81	<0.1	<0.2	<10	50	0.10	0.04	0.56	<0.01	7.00	3.7	6	0.08
459838		7.35	<0.01	0.63	0.1	<0.2	<10	50	0.09	0.02	0.48	<0.01	6.51	2.6	6	0.06
459839		6.84	<0.01	0.68	<0.1	<0.2	<10	60	0.06	0.01	0.42	<0.01	6.17	2.7	8	0.05
459840		<0.02	0.02	0.70	<0.1	<0.2	<10	70	0.09	0.02	0.43	<0.01	6.51	2.9	7	0.05
459841		7.26	0.01	0.76	0.1	<0.2	<10	40	0.08	0.02	0.53	<0.01	4.47	3.3	6	0.07
459842		7.06	0.02	0.82	<0.1	<0.2	<10	40	0.09	0.02	0.54	0.02	6.12	3.8	7	<0.05
459843		7.02	0.02	0.74	0.1	<0.2	<10	60	0.08	0.02	0.53	0.01	7.30	2.8	7	0.05
459844		7.35	0.02	0.84	<0.1	<0.2	<10	50	0.09	0.02	0.80	0.03	4.63	3.3	7	0.21
459845		7.14	0.02	0.86	0.1	<0.2	<10	60	0.13	0.02	0.95	0.01	7.08	3.6	6	0.08
459846		7.21	0.04	0.87	0.7	<0.2	<10	70	0.15	0.04	0.53	0.22	4.81	4.3	5	<0.05
459847		7.35	0.16	0.86	0.6	<0.2	<10	90	0.13	0.06	0.55	0.26	4.17	2.9	7	<0.05
459848		7.48	0.16	0.67	<0.1	<0.2	<10	70	0.09	0.03	1.05	0.88	6.24	2.6	6	<0.05
459849		6.63	0.03	0.71	0.3	<0.2	<10	60	0.11	0.04	0.71	0.37	4.56	3.0	7	<0.05
459850		0.05	0.13	1.62	4.3	<0.2	10	120	0.24	0.07	1.24	0.15	12.65	9.2	38	0.38
459851		7.25	0.17	0.87	0.3	<0.2	<10	60	0.08	0.05	0.62	0.62	4.73	3.5	8	<0.05
459852		7.73	0.17	0.91	0.4	<0.2	<10	60	0.11	0.04	0.62	0.04	4.99	4.0	5	0.06
459853		7.23	0.09	0.95	<0.1	<0.2	<10	50	0.09	0.08	0.44	0.20	4.65	2.8	5	0.05
459854		7.65	0.75	1.04	0.2	<0.2	<10	80	0.09	0.15	0.64	0.19	5.12	31.7	6	0.08



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Page: 4 - B
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 8-FEB-2017
 Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017098

Sample Description	Method Analyte Units LOR	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01	ME-MS41 Nb ppm 0.05
459833		1560	1.44	0.93	<0.05	<0.02	0.02	0.200	0.29	5.3	0.3	0.01	292	1.68	0.02	<0.05
459834		946	1.07	0.85	<0.05	<0.02	0.02	0.190	0.25	6.4	0.3	0.01	536	1.80	0.03	<0.05
459835		31.3	0.48	0.87	<0.05	<0.02	0.01	0.022	0.22	3.2	0.5	0.02	677	0.63	0.05	<0.05
459836		43.4	0.89	1.72	<0.05	<0.02	<0.01	0.014	0.11	3.1	1.5	0.19	521	0.21	0.05	<0.05
459837		2.0	1.22	2.75	0.05	0.02	0.01	0.007	0.04	2.7	2.9	0.41	414	0.10	0.06	<0.05
459838		1.6	0.95	2.12	<0.05	<0.02	0.01	0.005	0.05	2.6	2.6	0.30	332	0.14	0.05	<0.05
459839		1.4	0.99	2.28	<0.05	0.02	0.01	<0.005	0.06	2.3	2.2	0.33	302	0.12	0.06	<0.05
459840		9.1	1.01	2.37	<0.05	0.02	<0.01	0.005	0.06	2.4	2.4	0.34	310	0.18	0.06	<0.05
459841		3.1	1.09	2.40	<0.05	0.02	<0.01	0.005	0.04	1.7	3.2	0.38	307	0.18	0.05	<0.05
459842		12.6	1.29	2.71	0.05	<0.02	<0.01	0.005	0.04	2.5	3.5	0.42	488	0.50	0.06	<0.05
459843		7.5	1.01	2.43	0.06	<0.02	0.01	0.009	0.04	2.8	3.0	0.38	392	0.16	0.06	<0.05
459844		5.3	1.16	2.73	0.05	0.02	<0.01	0.008	0.05	1.5	3.6	0.42	489	0.28	0.06	<0.05
459845		5.3	1.28	2.64	0.06	<0.02	0.01	0.007	0.05	2.4	3.2	0.41	540	0.22	0.07	<0.05
459846		28.9	1.81	2.31	<0.05	<0.02	<0.01	0.023	0.07	1.6	3.0	0.40	523	0.43	0.05	<0.05
459847		142.0	1.47	2.21	<0.05	<0.02	<0.01	0.027	0.08	1.6	2.4	0.36	548	0.31	0.05	<0.05
459848		147.0	1.16	1.95	0.05	<0.02	<0.01	0.051	0.07	2.7	1.7	0.21	557	0.35	0.06	<0.05
459849		19.3	1.35	2.21	<0.05	<0.02	<0.01	0.022	0.05	1.8	2.6	0.31	534	0.54	0.06	<0.05
459850		46.5	3.10	5.50	0.10	0.30	0.02	0.024	0.11	5.2	9.6	0.79	520	5.96	0.10	0.17
459851		180.0	1.66	2.73	0.06	<0.02	<0.01	0.062	0.05	1.9	2.5	0.31	553	0.49	0.05	<0.05
459852		118.5	1.75	2.31	<0.05	<0.02	<0.01	0.038	0.05	2.0	3.3	0.35	579	0.89	0.06	<0.05
459853		68.6	1.72	3.00	<0.05	<0.02	<0.01	0.042	0.08	1.9	3.6	0.35	526	0.46	0.05	<0.05
459854		744	5.14	3.24	0.05	<0.02	0.01	0.118	0.13	2.1	3.7	0.38	690	0.38	0.05	<0.05



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Page: 4 - C
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 8-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017098

Sample Description	Method Analyte Units LOR	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2	ME-MS41 Ti % 0.005
459833		1.2	120	1.9	4.0	<0.001	1.12	<0.05	0.3	0.3	<0.2	6.3	<0.01	0.47	2.4	<0.005
459834		1.1	110	2.3	3.4	<0.001	0.64	<0.05	0.4	0.3	<0.2	15.1	<0.01	0.29	2.2	<0.005
459835		1.0	80	1.7	3.3	<0.001	0.08	<0.05	0.4	0.2	<0.2	35.6	<0.01	0.02	1.9	<0.005
459836		1.3	180	1.1	1.6	<0.001	0.05	0.08	0.6	0.2	<0.2	50.7	<0.01	0.03	1.2	0.005
459837		1.7	310	0.8	0.6	<0.001	0.05	0.10	0.9	0.2	0.2	49.6	<0.01	<0.01	0.7	0.008
459838		1.5	220	0.6	0.7	<0.001	0.02	0.07	0.7	0.2	<0.2	36.2	<0.01	<0.01	0.7	<0.005
459839		1.6	240	0.6	0.8	<0.001	0.01	0.06	0.7	<0.2	<0.2	36.5	<0.01	<0.01	0.9	0.008
459840		1.5	250	0.6	0.8	<0.001	0.01	0.06	0.8	<0.2	<0.2	37.8	<0.01	<0.01	0.9	0.008
459841		1.7	270	0.6	0.6	<0.001	0.01	0.08	0.7	<0.2	<0.2	43.4	<0.01	<0.01	0.8	<0.005
459842		1.5	280	0.4	0.5	<0.001	0.10	0.06	0.6	0.2	<0.2	31.0	<0.01	<0.01	0.8	<0.005
459843		1.7	260	0.4	0.6	0.001	0.03	0.07	0.6	0.2	<0.2	39.4	<0.01	<0.01	0.6	<0.005
459844		1.6	290	1.0	0.7	<0.001	0.03	0.08	0.8	<0.2	<0.2	57.3	<0.01	<0.01	0.6	<0.005
459845		1.9	310	0.7	0.7	<0.001	0.11	0.09	0.8	<0.2	0.2	57.1	<0.01	0.02	0.6	<0.005
459846		1.8	310	0.6	1.0	<0.001	0.75	0.11	0.8	<0.2	<0.2	38.5	<0.01	0.06	0.8	<0.005
459847		1.8	290	0.5	1.2	<0.001	0.21	0.08	0.7	0.2	<0.2	37.1	<0.01	0.02	0.6	0.005
459848		2.1	260	0.5	1.3	<0.001	0.24	0.07	0.7	<0.2	<0.2	55.8	<0.01	0.04	0.7	<0.005
459849		1.6	250	0.5	0.8	<0.001	0.32	0.08	0.7	<0.2	<0.2	36.9	<0.01	0.11	0.6	<0.005
459850		32.4	610	3.7	3.8	0.002	0.07	0.61	5.1	0.5	1.1	51.4	<0.01	0.01	1.1	0.163
459851		1.5	300	0.5	0.8	<0.001	0.42	0.10	0.8	<0.2	0.2	46.9	<0.01	0.07	0.7	0.005
459852		1.7	310	0.5	0.8	<0.001	0.53	0.07	0.8	<0.2	<0.2	47.4	<0.01	0.09	0.6	<0.005
459853		1.9	290	0.4	1.2	<0.001	0.37	0.07	0.7	<0.2	0.2	41.0	<0.01	0.06	0.6	<0.005
459854		2.7	300	0.4	1.8	<0.001	3.79	0.07	1.0	0.3	0.4	34.1	<0.01	0.23	0.6	0.006



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Page: 4 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 8-FEB-2017
 Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017098

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
459833		0.02	1.80	1	0.07	6.97	304	<0.5	0.155		
459834		0.02	0.61	1	0.07	11.70	450	<0.5			
459835		0.02	0.64	1	<0.05	5.06	197	<0.5			
459836		<0.02	1.14	3	<0.05	5.76	40	<0.5			
459837		<0.02	0.31	6	<0.05	6.42	37	<0.5			
459838		<0.02	0.19	4	<0.05	4.73	32	<0.5			
459839		<0.02	0.29	4	<0.05	4.95	33	<0.5			
459840		<0.02	0.30	5	<0.05	5.29	34	<0.5			
459841		<0.02	0.16	6	<0.05	3.61	35	<0.5			
459842		<0.02	0.28	6	<0.05	3.49	63	<0.5			
459843		<0.02	0.12	5	<0.05	4.59	40	<0.5			
459844		<0.02	0.22	7	<0.05	4.94	66	<0.5			
459845		<0.02	0.20	7	<0.05	6.66	51	<0.5			
459846		<0.02	0.39	5	<0.05	4.83	149	<0.5			
459847		<0.02	0.36	4	<0.05	3.25	144	<0.5			
459848		<0.02	0.30	4	<0.05	3.89	306	<0.5			
459849		<0.02	0.28	4	<0.05	3.89	203	<0.5			
459850		0.06	0.31	67	0.77	7.59	46	8.6			
459851		<0.02	0.28	5	<0.05	3.39	293	<0.5			
459852		<0.02	0.49	4	0.06	3.69	87	<0.5			
459853		<0.02	0.18	5	0.05	2.71	133	<0.5			
459854		<0.02	0.37	5	0.17	3.84	121	<0.5			



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 8-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017098

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
 ME-MS41

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.			
	CRU - 31	CRU - QC	LOG - 21d	LOG - 22
	LOG - 23	PUL - 31	PUL - 31d	PUL - QC
	SPL - 21	SPL - 21d	WEI - 21	
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au - AA23	Cu - OG46	ME - MS41	ME - OG46
	Mo - OG46			



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Page: 1
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 8-FEB-2017
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CERTIFICATE KL17017102

Project: SGM2016-27

P.O. No.: S0218733

This report is for 98 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 30-JAN-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Mo-OG46	Ore Grade Mo - Aqua Regia	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **GIBRALTAR MINES LTD.**
ATTN: ALS MINERALS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 8-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017102

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
464601		4.92	0.04	1.48	0.3	<0.2	<10	70	0.13	0.02	1.19	0.02	5.40	10.1	11	0.06
464602		7.39	0.04	1.41	0.3	<0.2	<10	60	0.10	0.02	1.13	0.25	4.75	10.7	7	0.16
464603		7.84	0.02	1.53	0.2	<0.2	<10	90	0.13	0.01	0.88	0.02	5.63	10.3	10	0.50
464604		3.60	0.04	1.58	0.4	<0.2	<10	90	0.13	0.01	0.87	0.02	5.41	10.4	10	0.65
464605		3.68	0.05	1.59	0.3	<0.2	<10	60	0.11	0.01	1.13	0.02	5.62	10.4	9	0.18
464606		7.00	0.04	1.44	0.3	<0.2	<10	60	0.13	0.02	1.35	0.10	5.16	10.2	8	0.05
464607		6.65	0.08	1.48	0.4	<0.2	<10	70	0.13	0.02	1.00	1.59	4.39	10.3	8	0.06
464608		7.19	0.04	1.41	0.6	<0.2	<10	60	0.12	0.01	1.18	0.03	4.67	9.1	8	0.05
464609		7.68	0.14	1.37	0.2	<0.2	<10	60	0.11	0.04	1.20	2.42	3.35	9.7	8	0.07
464610		0.05	0.46	2.13	14.2	<0.2	20	90	0.32	0.42	1.19	0.20	9.88	52.1	267	1.23
464611		7.32	0.04	1.35	0.4	<0.2	<10	60	0.10	0.02	1.25	0.37	3.83	8.0	8	0.05
464612		7.55	0.46	1.52	0.7	<0.2	<10	60	0.11	0.15	1.05	1.46	3.83	14.9	9	0.06
464613		7.11	0.21	1.73	0.4	<0.2	<10	60	0.13	0.05	1.14	1.54	5.35	11.7	9	0.07
464614		5.26	0.40	1.59	0.4	<0.2	<10	40	0.11	0.14	1.92	4.16	11.55	11.5	7	0.12
464615		3.72	0.10	1.13	0.1	<0.2	<10	40	0.07	0.06	2.69	0.15	19.95	9.8	10	0.08
464616		3.92	0.03	0.59	<0.1	<0.2	<10	40	0.08	0.02	2.72	0.19	19.00	7.3	9	0.07
464617		5.04	0.09	0.49	0.2	<0.2	<10	50	0.08	0.05	2.67	0.33	20.8	8.7	6	0.10
464618		2.63	0.02	0.51	0.1	<0.2	<10	40	0.07	0.02	3.77	0.41	12.30	7.6	4	0.11
464619		3.41	0.05	0.57	0.3	<0.2	<10	40	0.08	0.03	3.66	0.40	18.20	9.6	3	0.17
464620		<0.02	0.04	0.60	<0.1	<0.2	<10	40	0.08	0.03	3.67	0.41	18.00	10.1	3	0.16
464621		4.73	0.02	0.41	0.3	<0.2	<10	50	0.06	0.02	3.05	0.21	15.05	8.5	5	0.09
464622		7.06	0.21	1.25	0.1	<0.2	<10	60	0.08	0.09	3.09	0.21	9.28	9.2	4	0.07
464623		6.80	0.05	1.45	<0.1	<0.2	<10	60	0.09	0.02	3.14	0.28	4.35	8.8	7	0.08
464624		7.47	0.04	1.38	0.3	<0.2	<10	70	0.12	0.01	1.48	0.06	5.39	8.5	7	0.06
464625		7.35	0.06	1.43	<0.1	<0.2	<10	60	0.13	0.01	1.08	0.02	5.81	8.7	8	0.05
464626		3.56	0.25	1.07	<0.1	<0.2	<10	60	0.07	0.06	2.93	0.16	16.20	7.9	7	0.08
464627		2.07	0.09	0.44	<0.1	<0.2	<10	40	0.07	0.13	5.08	0.44	19.55	11.0	3	0.15
464628		4.15	0.04	0.52	<0.1	<0.2	<10	70	0.07	0.02	3.11	0.30	17.00	10.1	3	0.11
464629		3.86	0.21	0.47	<0.1	<0.2	<10	60	0.07	0.04	3.13	1.03	15.55	8.4	2	0.13
464630		0.04	2.61	1.69	28.4	0.3	10	60	0.32	0.84	0.86	2.22	9.87	10.2	29	3.40
464631		6.15	0.06	1.31	0.4	<0.2	<10	50	0.10	0.03	2.87	0.17	16.75	8.8	6	0.11
464632		5.55	0.06	1.44	<0.1	<0.2	<10	60	0.10	0.04	2.66	0.32	18.10	8.2	6	0.22
464633		6.30	0.10	1.39	0.3	<0.2	<10	60	0.11	0.07	2.89	0.95	19.70	9.9	6	0.20
464634		7.01	0.16	1.54	0.6	<0.2	<10	110	0.11	0.10	1.80	2.59	15.55	11.4	7	0.31
464635		7.39	0.05	1.35	0.3	<0.2	<10	80	0.14	0.02	2.06	0.05	14.10	9.3	7	0.92
464636		3.60	0.03	1.38	0.2	<0.2	<10	110	0.16	0.03	0.80	0.01	9.74	9.9	7	0.94
464637		3.74	0.05	1.40	0.4	<0.2	<10	110	0.15	0.01	0.80	0.02	9.10	10.1	6	0.87
464638		7.40	0.01	1.30	0.2	<0.2	<10	100	0.16	0.01	0.90	0.02	8.61	8.6	7	0.75
464639		7.60	0.03	1.13	0.2	<0.2	<10	100	0.16	0.02	1.14	0.01	7.38	8.5	6	0.94
464640		<0.02	0.02	1.18	0.4	<0.2	<10	110	0.19	0.01	1.19	0.01	8.33	8.6	6	0.93



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Page: 2 - B
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 8-FEB-2017
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Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017102

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
464601		23.3	1.83	4.04	0.05	0.05	0.01	0.005	0.13	2.1	7.1	1.13	466	0.74	0.04
464602		33.7	1.80	3.66	0.06	0.04	0.02	0.009	0.15	1.9	7.0	1.09	715	0.55	0.03
464603		19.8	1.92	3.83	0.06	0.05	0.03	<0.005	0.26	2.2	7.4	1.12	517	0.60	0.04
464604		31.7	1.99	3.79	0.07	0.05	0.02	0.006	0.27	2.1	7.6	1.16	466	0.46	0.04
464605		40.3	2.02	3.83	0.06	0.05	0.03	<0.005	0.15	2.3	8.0	1.15	673	0.46	0.04
464606		27.7	1.79	3.66	0.07	0.04	0.04	0.006	0.15	2.1	7.6	1.05	1120	0.40	0.03
464607		47.8	1.89	3.75	0.07	0.04	0.05	0.072	0.14	1.7	7.5	1.11	836	1.00	0.04
464608		19.9	1.72	3.66	0.06	0.04	0.05	<0.005	0.11	1.9	7.2	1.07	856	0.52	0.04
464609		36.8	2.15	3.28	0.06	0.02	0.05	0.025	0.16	1.3	7.4	0.95	1440	1.19	0.02
464610		831	5.53	5.64	0.09	0.03	0.07	0.020	0.71	3.8	4.4	5.58	472	97.1	0.10
464611		13.1	1.74	3.45	<0.05	0.02	0.05	0.012	0.11	1.5	7.1	0.96	1200	0.66	0.04
464612		230	2.76	3.72	0.05	0.02	0.05	0.041	0.12	1.5	8.3	1.07	1280	2.75	0.03
464613		100.5	2.42	4.41	<0.05	0.02	0.05	0.034	0.10	2.1	10.1	1.20	1360	1.57	0.04
464614		208	3.29	4.42	0.05	<0.02	0.07	0.237	0.12	4.2	10.1	1.07	2920	2.61	0.03
464615		26.4	2.62	3.63	0.06	<0.02	0.05	0.020	0.11	8.0	7.9	1.11	1020	0.49	0.05
464616		13.1	2.04	1.81	<0.05	<0.02	0.04	0.011	0.10	7.0	3.4	0.97	816	0.37	0.05
464617		46.0	2.14	1.38	0.05	<0.02	0.04	0.016	0.11	9.0	1.9	0.97	1160	2.45	0.06
464618		5.1	2.53	1.42	<0.05	<0.02	0.04	0.016	0.08	4.3	2.4	1.23	1580	1.06	0.06
464619		16.7	2.76	1.63	<0.05	<0.02	0.04	0.023	0.10	7.0	2.5	1.14	2100	1.29	0.06
464620		16.0	2.75	1.67	0.05	<0.02	0.03	0.021	0.10	6.5	2.6	1.14	2120	1.04	0.06
464621		5.8	2.29	1.19	0.05	<0.02	0.04	0.009	0.09	5.4	1.5	0.98	1190	0.55	0.08
464622		66.1	2.55	3.83	<0.05	<0.02	0.03	0.012	0.10	3.3	8.3	1.07	1030	0.71	0.06
464623		30.5	2.51	4.28	<0.05	<0.02	0.03	0.013	0.13	1.7	8.9	1.03	1060	0.75	0.05
464624		17.3	1.75	3.91	0.05	0.02	0.03	<0.005	0.11	2.1	8.2	0.96	567	0.62	0.04
464625		12.8	1.65	4.10	0.06	0.02	0.03	0.008	0.09	2.3	9.5	0.97	483	0.85	0.04
464626		134.5	2.32	3.35	0.05	<0.02	0.02	0.016	0.13	5.9	7.0	0.98	2260	0.63	0.04
464627		27.5	3.44	1.13	0.05	<0.02	0.03	0.031	0.13	7.7	1.6	1.47	2590	68.5	0.05
464628		11.8	2.41	1.47	0.06	<0.02	0.03	0.011	0.14	6.0	1.7	1.01	1080	0.74	0.06
464629		131.0	2.53	1.21	<0.05	<0.02	0.07	0.078	0.12	5.3	1.6	1.01	1310	8.90	0.06
464630		2470	4.47	4.67	0.07	0.03	0.06	0.132	0.29	4.4	16.6	0.58	756	213	0.05
464631		39.1	2.68	4.11	<0.05	<0.02	0.01	0.009	0.11	6.0	7.5	1.05	1220	1.05	0.03
464632		30.4	2.60	3.96	<0.05	<0.02	0.02	0.016	0.13	6.5	7.5	0.98	1510	1.21	0.03
464633		53.2	2.61	3.89	0.05	0.02	0.04	0.017	0.14	8.2	6.5	1.04	1700	0.89	0.03
464634		118.0	2.76	3.97	0.06	0.04	0.04	0.025	0.17	5.5	7.3	1.06	1700	1.89	0.03
464635		47.9	2.36	3.82	<0.05	0.05	0.01	0.013	0.29	4.7	7.6	0.99	819	1.23	0.02
464636		32.1	1.91	3.85	0.07	0.07	0.01	0.005	0.49	3.5	7.9	1.01	420	1.51	0.04
464637		50.9	1.92	3.96	0.07	0.08	0.01	<0.005	0.49	3.2	8.2	1.03	501	45.0	0.04
464638		18.6	1.84	3.69	0.06	0.05	0.01	<0.005	0.43	2.9	7.3	0.94	443	1.15	0.03
464639		35.3	1.67	3.44	0.05	0.05	0.01	<0.005	0.49	2.6	7.2	0.86	500	1.19	0.03
464640		39.5	1.76	3.56	0.06	0.07	0.01	<0.005	0.49	2.8	7.2	0.88	515	1.13	0.03



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Page: 2 - C
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 8-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017102

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
464601		9.6	480	0.6	2.3	<0.001	0.02	0.14	1.4	0.2	0.2	44.6	<0.01	<0.01	0.6
464602		8.4	490	0.6	3.3	<0.001	0.11	0.13	1.2	<0.2	<0.2	39.6	<0.01	0.01	0.5
464603		9.5	480	0.5	7.2	<0.001	0.03	0.13	1.7	0.3	0.2	41.5	<0.01	<0.01	0.7
464604		9.2	490	0.4	7.8	<0.001	0.01	0.14	2.0	0.3	0.2	41.8	<0.01	<0.01	0.5
464605		8.6	520	0.6	3.3	<0.001	0.02	0.14	1.5	0.2	0.2	43.2	<0.01	<0.01	0.5
464606		8.4	490	0.8	2.5	<0.001	0.08	0.14	1.3	0.2	0.2	38.9	<0.01	0.01	0.6
464607		9.0	450	0.6	2.3	<0.001	0.18	0.11	1.2	0.2	0.2	36.0	<0.01	0.03	0.5
464608		8.5	420	0.7	1.7	<0.001	0.05	0.12	1.3	<0.2	0.2	40.3	<0.01	<0.01	0.7
464609		7.9	400	0.6	2.4	0.001	0.50	0.09	1.0	<0.2	<0.2	25.2	<0.01	0.10	0.7
464610		632	700	4.4	28.0	0.088	3.90	0.76	7.5	3.5	0.4	51.9	<0.01	0.20	0.8
464611		7.7	390	0.6	1.7	<0.001	0.08	0.09	1.0	<0.2	<0.2	33.9	<0.01	0.02	0.8
464612		8.6	470	0.9	1.8	0.001	1.01	0.10	1.1	<0.2	<0.2	30.0	<0.01	0.30	0.6
464613		8.7	490	0.9	1.7	0.001	0.30	0.14	1.7	0.2	<0.2	37.2	<0.01	0.10	0.7
464614		7.5	410	1.4	2.0	0.001	0.69	0.06	2.2	0.2	<0.2	38.5	<0.01	0.14	1.5
464615		8.7	420	1.1	1.8	<0.001	0.09	0.07	2.4	0.2	<0.2	57.3	<0.01	0.03	1.2
464616		8.3	370	0.9	1.6	<0.001	0.01	0.05	1.6	0.2	<0.2	52.8	<0.01	<0.01	0.8
464617		7.8	350	0.8	1.8	0.001	0.15	<0.05	1.4	0.2	<0.2	66.1	<0.01	0.02	1.2
464618		6.7	420	1.2	1.5	<0.001	0.06	<0.05	2.1	0.4	<0.2	93.3	<0.01	0.01	0.6
464619		7.2	450	1.2	1.6	0.001	0.03	<0.05	2.2	0.3	<0.2	89.4	<0.01	<0.01	0.7
464620		7.2	460	1.2	1.7	0.001	0.04	<0.05	2.3	0.3	<0.2	90.3	<0.01	0.01	0.7
464621		5.8	410	0.8	1.5	<0.001	0.03	0.06	1.7	0.2	<0.2	66.4	<0.01	<0.01	0.6
464622		5.4	460	1.0	1.7	<0.001	0.01	0.08	2.5	0.3	<0.2	70.6	<0.01	0.01	0.7
464623		7.7	430	0.8	2.1	0.001	0.06	0.07	2.0	<0.2	<0.2	72.2	<0.01	0.01	0.4
464624		7.2	430	0.7	1.9	<0.001	0.02	0.31	1.4	<0.2	<0.2	46.5	<0.01	<0.01	0.7
464625		7.6	440	0.8	1.5	<0.001	<0.01	0.55	1.7	<0.2	<0.2	50.3	<0.01	<0.01	0.6
464626		6.6	430	1.1	2.2	<0.001	0.08	0.19	2.2	<0.2	<0.2	58.3	<0.01	0.02	0.9
464627		6.0	470	1.8	2.2	0.004	0.08	0.11	1.9	<0.2	<0.2	122.5	<0.01	0.06	1.4
464628		4.4	420	0.9	2.4	<0.001	0.06	0.05	1.5	<0.2	<0.2	84.9	<0.01	0.01	0.9
464629		3.0	440	1.1	2.0	0.003	0.07	<0.05	1.4	0.3	<0.2	98.8	<0.01	0.02	1.2
464630		19.2	720	78.8	13.6	0.192	2.21	1.78	2.3	4.4	0.6	54.9	<0.01	0.66	2.7
464631		4.7	480	1.1	1.9	0.001	0.04	0.07	2.3	0.5	<0.2	77.4	<0.01	<0.01	1.1
464632		4.8	460	1.5	2.3	<0.001	0.08	0.12	2.9	0.3	0.2	76.2	<0.01	0.01	1.4
464633		5.3	440	1.3	2.3	<0.001	0.13	0.13	3.0	0.6	<0.2	82.5	<0.01	0.02	1.8
464634		5.3	470	1.2	2.9	<0.001	0.31	0.21	3.4	0.4	0.2	61.8	<0.01	0.08	1.7
464635		5.0	480	1.2	7.8	<0.001	0.02	0.27	3.1	0.2	0.2	74.7	<0.01	<0.01	1.2
464636		6.7	420	2.1	15.6	0.001	0.02	0.25	1.8	0.2	0.2	42.3	<0.01	0.01	1.3
464637		5.5	460	0.6	15.4	0.004	0.04	0.22	1.9	0.3	0.2	43.7	<0.01	0.02	1.2
464638		5.1	440	0.5	12.3	<0.001	0.01	0.19	1.5	0.2	0.2	42.3	<0.01	<0.01	0.9
464639		4.8	450	0.6	13.5	<0.001	0.11	0.21	1.6	0.3	0.2	42.2	<0.01	<0.01	0.7
464640		4.9	460	0.6	13.6	<0.001	0.11	0.19	1.7	0.2	0.2	47.2	<0.01	<0.01	0.8



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Page: 2 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 8 - FEB - 2017
 Account: GIBMIN

Project: SGM2016 - 27

CERTIFICATE OF ANALYSIS KL17017102

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46	Mo-OG46	Au-AA23
		Tl	U	V	W	Y	Zn	Zr	Cu	Mo	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001	0.005
464601		<0.02	0.28	21	<0.05	3.66	58	<0.5			
464602		0.02	0.22	19	0.07	3.14	195	<0.5			
464603		0.05	0.33	24	0.05	3.50	62	0.5			
464604		0.05	0.39	27	0.05	3.57	47	0.5			
464605		0.03	0.25	24	0.06	3.52	75	0.5			
464606		<0.02	0.28	18	0.09	3.42	178	<0.5			
464607		<0.02	0.27	17	0.07	3.13	779	<0.5			
464608		<0.02	0.31	18	0.07	3.25	131	<0.5			
464609		<0.02	0.34	13	0.09	2.44	1230	<0.5			
464610		0.61	0.26	72	10.50	4.30	63	1.1			
464611		<0.02	0.39	15	0.08	2.47	371	<0.5			
464612		<0.02	0.24	19	0.06	2.45	806	<0.5			
464613		<0.02	0.35	23	0.06	3.54	758	<0.5			
464614		<0.02	0.66	20	0.08	4.25	1720	<0.5			
464615		<0.02	0.48	21	<0.05	6.75	166	<0.5			
464616		<0.02	0.42	15	<0.05	4.51	106	<0.5			
464617		<0.02	0.46	13	<0.05	3.11	115	<0.5			
464618		<0.02	0.34	8	0.06	3.22	162	<0.5			
464619		<0.02	0.39	13	0.10	3.26	184	<0.5			
464620		<0.02	0.37	13	0.11	3.31	182	<0.5			
464621		<0.02	0.34	15	<0.05	3.41	96	<0.5			
464622		<0.02	0.30	22	<0.05	5.91	124	<0.5			
464623		<0.02	0.23	18	<0.05	5.71	202	<0.5			
464624		<0.02	0.28	16	<0.05	3.70	70	<0.5			
464625		<0.02	0.30	18	<0.05	4.04	47	<0.5			
464626		<0.02	0.50	16	0.07	6.17	132	<0.5			
464627		<0.02	0.48	8	0.25	4.29	163	<0.5			
464628		<0.02	0.36	11	0.11	3.15	129	<0.5			
464629		<0.02	0.44	11	0.11	3.24	403	<0.5			
464630		0.24	0.61	32	1.29	4.31	433	0.8	0.249	0.028	0.348
464631		<0.02	0.39	22	0.05	7.71	217	<0.5			
464632		<0.02	0.49	24	0.07	7.48	212	<0.5			
464633		<0.02	0.82	21	0.06	10.25	494	<0.5			
464634		<0.02	0.82	26	0.07	10.05	1250	<0.5			
464635		0.04	0.82	32	0.06	7.32	86	<0.5			
464636		0.09	0.81	24	<0.05	5.24	42	0.6			
464637		0.07	0.69	24	0.06	5.24	56	0.6			
464638		0.08	0.42	20	0.06	4.72	50	0.5			
464639		0.07	0.50	21	0.08	4.80	40	0.5			
464640		0.08	0.46	22	0.08	5.16	41	0.5			



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Page: 3 - A
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 8-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017102

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
464641		7.27	0.05	1.23	0.6	<0.2	<10	90	0.16	0.02	1.27	0.03	11.20	9.3	6	0.94
464642		7.28	0.01	1.28	0.3	<0.2	<10	80	0.14	0.01	1.25	0.02	9.94	9.1	5	0.75
464643		6.60	0.06	1.26	0.4	<0.2	<10	60	0.10	0.08	1.63	2.24	14.00	9.5	6	0.26
464644		7.18	0.23	1.27	0.5	<0.2	<10	60	0.09	0.03	1.21	0.42	9.60	9.8	6	0.35
464645		7.11	0.07	0.88	0.4	<0.2	<10	70	0.11	0.05	4.05	0.89	19.35	8.0	5	0.45
464646		7.53	0.04	1.33	0.4	<0.2	<10	70	0.13	0.01	1.31	0.03	9.08	9.2	8	0.53
464647		6.69	0.04	1.30	0.4	<0.2	<10	70	0.13	0.01	1.04	0.03	6.83	9.6	8	0.41
464648		5.84	0.05	1.33	0.2	<0.2	<10	60	0.10	0.02	1.87	2.34	13.80	9.4	6	0.11
464649		2.63	0.05	1.44	0.4	<0.2	<10	50	0.12	0.03	2.44	0.09	14.55	9.3	6	0.14
464650		0.04	2.62	1.71	27.8	0.2	<10	60	0.32	0.94	0.85	2.17	9.78	11.0	30	3.46
464651		5.87	0.25	1.61	1.0	<0.2	<10	60	0.09	0.11	1.44	3.37	7.30	16.4	5	0.11
464652		3.37	0.07	1.34	0.2	<0.2	<10	40	0.13	0.03	1.43	0.08	7.81	9.6	5	0.06
464653		2.43	0.07	1.46	0.3	<0.2	<10	40	0.12	0.02	1.77	0.29	6.49	9.9	7	0.11
464654		4.43	0.13	1.29	0.5	<0.2	<10	50	0.11	0.04	1.37	0.88	6.62	12.3	7	0.16
464655		3.46	0.49	1.56	1.1	<0.2	<10	80	0.14	0.10	1.20	4.11	4.15	20.0	6	0.23
464656		5.26	0.05	1.42	0.4	<0.2	<10	50	0.09	0.01	1.43	0.05	7.00	10.3	6	0.07
464657		7.28	0.04	1.48	0.6	<0.2	<10	40	0.12	0.01	1.38	0.05	6.40	10.5	6	0.23
464658		4.00	0.03	1.42	0.3	<0.2	<10	70	0.14	0.01	1.16	0.03	5.90	10.3	5	0.50
464659		3.51	0.05	1.43	0.3	<0.2	<10	70	0.14	0.02	1.33	0.02	6.08	10.9	6	0.40
464660		<0.02	0.07	1.35	0.3	<0.2	<10	60	0.13	0.01	1.26	0.02	5.84	10.6	5	0.40
464661		7.17	0.13	1.50	0.6	<0.2	<10	70	0.15	0.01	1.10	0.04	8.63	10.8	3	0.12
464662		5.72	0.30	1.62	0.7	<0.2	<10	70	0.10	0.20	1.79	3.24	17.85	11.0	3	0.07
464663		5.04	0.11	1.63	0.2	<0.2	<10	60	0.09	0.02	0.32	0.17	11.30	9.9	3	0.14
464664		6.03	0.05	1.56	0.3	<0.2	<10	60	0.09	0.02	0.29	1.29	6.45	9.7	4	0.05
464665		6.42	0.09	1.83	0.3	<0.2	<10	70	0.10	0.02	0.27	0.40	5.79	12.1	3	0.07
464666		6.50	0.12	1.84	0.1	<0.2	<10	90	0.11	0.05	0.53	0.87	6.31	15.7	3	0.07
464667		7.14	0.20	1.69	0.5	<0.2	<10	80	0.12	0.05	0.44	0.11	10.80	12.0	5	0.07
464668		3.56	0.14	1.59	0.6	<0.2	<10	80	0.10	0.03	0.36	0.13	13.75	10.1	3	0.07
464669		5.42	0.18	1.56	0.4	<0.2	<10	70	0.12	0.02	0.42	0.19	7.99	11.2	3	0.05
464670		0.04	1.21	1.58	5.7	0.2	<10	130	0.27	0.19	0.96	0.47	13.90	11.3	29	0.41
464671		5.94	0.15	1.46	0.1	<0.2	<10	80	0.08	0.02	0.38	0.02	6.11	9.5	3	0.08
464672		3.14	0.10	1.37	0.2	<0.2	<10	110	0.10	0.02	0.26	0.04	5.24	10.9	3	0.18
464673		3.87	0.16	1.45	0.3	<0.2	<10	80	0.13	0.02	0.35	0.02	7.78	9.5	3	0.23
464674		7.19	0.06	1.51	0.5	<0.2	<10	70	0.09	0.01	0.80	0.03	7.04	9.5	4	0.09
464675		3.49	0.03	1.36	0.1	<0.2	<10	90	0.09	0.02	2.76	0.08	3.45	8.0	3	0.10
464676		2.41	0.06	1.60	0.2	<0.2	<10	90	0.12	0.02	2.59	0.06	15.40	9.5	2	0.24
464677		5.71	0.03	1.99	0.3	<0.2	<10	90	0.11	0.03	3.72	0.41	13.80	9.0	3	0.15
464678		6.77	0.11	1.58	0.3	<0.2	<10	70	0.12	0.02	0.60	0.02	7.87	10.9	3	0.05
464679		6.20	0.18	1.50	0.8	<0.2	<10	80	0.11	0.04	0.81	0.97	7.00	9.5	3	0.05
464680		<0.02	0.20	1.48	0.8	<0.2	<10	80	0.12	0.04	0.78	0.98	7.16	9.9	3	0.05



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Page: 3 - B
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 8-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017102

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
464641		89.9	2.01	3.70	0.06	0.05	0.01	0.007	0.37	3.6	7.2	0.89	470	29.7	0.02
464642		3.5	1.95	3.79	0.05	0.05	0.01	<0.005	0.33	3.2	7.1	0.98	547	0.89	0.02
464643		50.4	2.26	3.74	0.06	0.04	0.04	0.091	0.16	4.8	6.6	0.88	1260	1.59	0.02
464644		303	1.97	3.62	0.05	0.05	0.01	0.008	0.18	3.2	6.6	0.99	928	8.25	0.02
464645		57.3	2.36	2.61	0.06	0.02	0.02	0.041	0.14	6.5	4.2	0.56	1340	1.17	0.01
464646		45.7	1.97	3.83	0.05	0.05	0.01	0.006	0.27	3.0	6.8	1.03	578	2.00	0.03
464647		35.8	1.81	3.76	<0.05	0.04	0.01	<0.005	0.25	2.4	6.7	1.01	629	1.00	0.03
464648		33.6	2.12	3.59	0.05	0.03	0.03	0.041	0.19	4.7	6.1	0.91	1830	1.31	0.02
464649		16.1	2.34	4.15	0.05	0.04	0.01	0.012	0.13	4.9	6.2	0.98	1810	2.43	0.03
464650		2530	4.54	4.94	0.07	0.02	0.05	0.132	0.29	4.4	17.2	0.58	741	210	0.05
464651		180.0	4.23	4.19	0.05	0.02	0.03	0.294	0.23	2.6	7.2	1.01	2200	10.95	0.01
464652		52.5	1.97	3.89	0.05	0.06	0.01	<0.005	0.11	2.6	7.1	0.99	1440	0.82	0.03
464653		54.1	2.14	3.99	0.05	0.04	0.01	0.015	0.12	2.3	7.2	1.07	1620	0.75	0.03
464654		141.0	2.47	3.57	0.05	0.04	0.02	0.033	0.15	2.6	6.9	0.97	1310	1.07	0.02
464655		507	4.98	3.85	<0.05	<0.02	0.03	0.296	0.26	1.6	6.8	1.09	2050	1.27	<0.01
464656		35.2	1.99	4.07	0.05	0.07	0.01	<0.005	0.12	2.6	7.2	1.11	1140	0.82	0.03
464657		32.8	2.03	4.07	0.05	0.06	0.01	0.005	0.13	2.4	8.0	1.23	880	1.28	0.03
464658		37.3	1.83	4.05	0.05	0.07	0.01	0.007	0.25	2.2	8.3	1.17	587	0.86	0.03
464659		112.5	1.89	3.95	0.05	0.06	0.01	<0.005	0.22	2.2	8.2	1.15	694	1.61	0.03
464660		127.0	1.78	3.67	0.05	0.05	0.01	<0.005	0.21	2.3	8.2	1.12	661	1.58	0.03
464661		181.5	1.80	4.34	0.06	0.05	0.01	<0.005	0.14	3.1	8.7	1.15	630	23.8	0.03
464662		343	2.86	4.83	0.06	0.02	0.05	0.160	0.16	6.1	8.9	1.08	1950	491	0.02
464663		60.0	2.22	4.88	<0.05	0.02	0.01	0.005	0.12	3.7	10.0	1.17	808	3.89	0.04
464664		29.9	2.06	4.64	<0.05	0.04	0.02	0.037	0.13	2.2	9.1	1.15	895	7.45	0.02
464665		83.6	3.04	5.10	<0.05	0.03	0.01	0.032	0.19	2.1	11.0	1.26	1320	0.79	0.02
464666		137.5	3.03	4.72	0.05	0.03	0.01	0.041	0.16	2.3	10.6	1.34	1360	1.09	0.02
464667		174.5	2.28	4.64	0.05	0.06	0.01	0.012	0.09	3.4	9.7	1.32	814	0.63	0.03
464668		138.0	2.36	4.70	0.05	0.05	0.01	0.012	0.11	4.3	9.0	1.10	753	2.28	0.03
464669		233	2.14	4.48	0.06	0.07	0.01	0.009	0.11	2.7	9.2	1.13	778	0.97	0.03
464670		3290	3.18	5.97	0.09	0.23	0.03	0.049	0.21	7.1	11.2	0.78	469	232	0.08
464671		189.0	2.19	4.66	0.05	0.06	<0.01	0.006	0.14	2.3	9.1	1.09	765	1.06	0.03
464672		134.5	2.21	4.19	<0.05	0.04	<0.01	0.008	0.25	2.0	9.1	0.97	828	1.09	0.03
464673		211	2.04	4.35	0.05	0.05	<0.01	0.011	0.20	2.7	8.5	1.01	705	1.08	0.03
464674		52.1	2.13	4.52	<0.05	0.05	<0.01	0.006	0.15	2.5	9.0	1.07	767	4.96	0.03
464675		13.1	2.16	3.76	<0.05	<0.02	<0.01	0.010	0.19	1.4	8.1	0.99	1060	3.19	0.03
464676		34.4	2.37	4.68	<0.05	0.02	<0.01	0.014	0.17	5.4	9.8	1.20	1200	0.59	0.03
464677		10.5	3.00	6.38	0.05	<0.02	0.01	0.051	0.10	4.7	11.7	1.15	3700	1.32	0.03
464678		69.4	1.82	4.19	<0.05	0.07	<0.01	0.007	0.08	2.6	7.9	1.19	598	4.46	0.03
464679		119.0	1.94	3.68	<0.05	0.06	0.01	0.037	0.12	2.3	6.3	1.08	987	25.0	0.03
464680		124.5	1.92	3.74	0.05	0.06	0.01	0.038	0.11	2.3	6.3	1.08	983	26.8	0.03



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Page: 3 - C
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 8-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017102

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
464641		4.7	530	0.9	10.2	0.003	0.06	0.28	2.4	0.4	0.2	57.2	<0.01	<0.01	0.7
464642		5.1	450	0.7	8.9	<0.001	0.03	0.18	1.7	0.2	0.2	55.1	<0.01	<0.01	0.8
464643		5.1	440	1.3	3.1	<0.001	0.18	0.21	3.0	0.4	0.2	59.8	<0.01	0.03	1.0
464644		5.7	440	0.7	4.4	<0.001	0.15	0.20	1.8	0.3	0.2	50.5	<0.01	0.03	0.8
464645		4.2	440	2.0	3.3	0.001	0.11	0.24	4.6	0.3	0.3	110.0	<0.01	0.02	1.1
464646		5.2	480	0.6	7.6	<0.001	0.03	0.14	1.7	0.3	0.2	54.2	<0.01	<0.01	0.7
464647		5.3	470	0.5	7.2	<0.001	0.03	0.14	1.3	0.2	<0.2	45.1	<0.01	<0.01	0.8
464648		4.9	500	0.7	3.3	<0.001	0.21	0.09	1.8	0.3	<0.2	48.8	<0.01	0.02	0.9
464649		5.4	480	1.1	2.2	<0.001	0.04	0.12	2.7	0.3	0.2	61.7	<0.01	0.01	0.8
464650		20.1	730	82.6	13.7	0.207	2.23	1.66	2.5	4.7	0.6	55.3	<0.01	0.77	3.0
464651		5.9	530	0.5	3.7	0.004	1.71	0.06	1.4	0.2	0.2	32.8	<0.01	0.23	0.9
464652		5.4	530	0.6	1.9	<0.001	0.05	0.10	1.3	0.4	0.2	39.8	<0.01	0.01	1.1
464653		5.8	470	0.5	2.1	<0.001	0.09	0.11	1.4	0.2	0.2	65.0	<0.01	0.02	0.8
464654		5.6	510	0.5	3.2	<0.001	0.61	0.10	1.2	0.3	0.2	38.3	<0.01	0.05	0.7
464655		6.0	400	0.6	5.3	<0.001	2.48	0.07	1.1	0.3	0.2	29.8	<0.01	0.34	0.6
464656		6.1	410	0.6	2.1	<0.001	0.03	0.14	1.6	0.2	0.2	48.8	<0.01	0.02	0.9
464657		6.1	470	0.6	3.1	<0.001	0.07	0.16	1.5	0.2	0.2	49.0	<0.01	0.02	1.2
464658		6.0	430	0.6	7.1	<0.001	0.06	0.13	1.8	<0.2	0.2	49.2	<0.01	0.01	0.9
464659		6.1	450	0.6	5.9	<0.001	0.06	0.15	1.6	<0.2	0.2	48.4	<0.01	0.01	0.9
464660		5.9	450	0.5	5.6	0.001	0.05	0.14	1.4	0.2	0.2	45.0	<0.01	0.02	0.8
464661		5.2	650	0.7	2.8	0.002	0.06	0.17	1.5	0.3	0.2	52.6	<0.01	0.01	0.8
464662		4.5	680	1.2	2.4	0.170	0.59	0.11	2.0	1.5	0.2	55.6	<0.01	0.21	0.8
464663		5.1	570	0.8	1.9	0.001	0.01	0.08	1.5	0.2	<0.2	37.7	<0.01	<0.01	0.8
464664		5.6	450	0.8	2.0	0.001	0.06	0.11	1.5	0.2	0.2	28.4	<0.01	0.01	0.9
464665		5.8	510	0.9	3.0	<0.001	0.22	0.11	1.4	0.3	0.2	23.4	<0.01	0.04	0.7
464666		6.5	480	0.6	2.5	<0.001	0.45	0.09	1.4	<0.2	0.2	29.1	<0.01	0.11	0.7
464667		6.3	490	0.7	1.4	<0.001	0.10	0.17	1.8	0.4	0.2	36.9	<0.01	0.05	0.8
464668		4.8	570	1.0	1.8	<0.001	0.06	0.15	1.6	0.2	0.2	39.7	<0.01	0.01	0.9
464669		4.7	570	0.6	1.7	<0.001	0.09	0.12	1.7	0.3	0.2	39.3	<0.01	0.02	0.7
464670		22.5	680	9.1	9.1	0.233	0.48	2.42	5.2	1.5	1.1	45.7	<0.01	0.10	1.7
464671		4.7	580	0.5	2.4	0.001	0.06	0.10	1.7	0.2	0.2	30.3	<0.01	0.01	0.7
464672		7.7	590	3.0	4.5	0.002	0.15	0.14	2.0	0.2	0.2	17.7	<0.01	0.01	0.8
464673		4.6	550	0.8	3.7	0.001	0.08	0.12	1.8	0.3	0.2	33.5	<0.01	<0.01	0.7
464674		4.9	570	0.6	2.4	0.001	0.02	0.08	1.8	0.2	0.2	42.0	<0.01	<0.01	0.6
464675		4.0	540	0.4	2.7	0.001	0.04	<0.05	1.5	<0.2	<0.2	57.9	<0.01	<0.01	0.5
464676		5.0	510	1.0	2.9	<0.001	0.07	0.11	3.3	0.3	0.2	73.5	<0.01	<0.01	0.9
464677		5.4	490	1.4	1.5	0.001	0.06	<0.05	2.9	0.3	<0.2	94.0	<0.01	0.02	0.9
464678		4.8	510	0.7	1.0	0.001	0.04	0.16	1.4	0.3	0.2	55.2	<0.01	<0.01	1.0
464679		5.1	490	0.7	1.4	0.010	0.19	0.13	1.3	0.3	0.2	44.8	<0.01	0.04	0.8
464680		5.3	490	0.7	1.4	0.011	0.18	0.12	1.3	0.2	0.2	43.8	<0.01	0.07	0.8



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Page: 3 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 8-FEB-2017
 Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017102

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46	Mo-OG46	Au-AA23
		Tl	U	V	W	Y	Zn	Zr	Cu	Mo	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001	0.005
464641		0.06	0.57	25	0.07	8.00	62	<0.5			
464642		0.06	0.36	22	0.11	6.65	109	0.5			
464643		<0.02	0.49	21	0.07	10.40	976	<0.5			
464644		0.03	0.38	19	0.06	6.35	311	0.5			
464645		<0.02	0.60	36	0.13	13.05	363	<0.5			
464646		0.06	0.44	23	0.05	5.81	59	<0.5			
464647		0.04	0.34	19	0.07	4.86	82	0.5			
464648		<0.02	0.42	15	0.10	7.30	784	<0.5			
464649		<0.02	0.41	22	0.19	9.68	230	<0.5			
464650		0.25	0.71	32	2.24	4.60	426	0.8	0.251	0.027	NSS
464651		0.02	0.30	16	0.27	5.16	1640	<0.5			
464652		<0.02	0.33	18	0.15	4.89	275	0.5			
464653		<0.02	0.32	17	0.18	5.45	460	<0.5			
464654		0.02	0.28	15	0.13	4.31	647	<0.5			
464655		0.03	0.20	16	0.19	3.35	1800	<0.5			
464656		<0.02	0.35	20	0.09	5.09	135	0.6			
464657		0.03	0.29	23	0.08	4.78	202	0.5			
464658		0.05	0.33	23	0.06	4.75	52	0.6			
464659		0.04	0.29	21	0.07	4.81	65	0.5			
464660		0.04	0.28	19	0.05	4.45	64	0.5			
464661		0.02	0.35	20	0.09	4.93	104	0.5			
464662		<0.02	0.34	22	0.10	9.65	1440	<0.5		0.049	
464663		<0.02	0.29	21	0.09	5.64	141	<0.5			
464664		<0.02	0.25	20	<0.05	5.93	538	<0.5			
464665		<0.02	0.27	20	<0.05	5.65	453	<0.5			
464666		<0.02	0.20	20	<0.05	6.27	611	<0.5			
464667		<0.02	0.29	27	<0.05	8.64	218	0.5			
464668		<0.02	0.37	27	<0.05	7.83	216	<0.5			
464669		<0.02	0.27	22	<0.05	7.96	232	0.6			
464670		0.10	0.42	63	14.15	7.41	58	5.8	0.315	0.029	0.294
464671		<0.02	0.17	24	<0.05	6.81	72	0.5			
464672		0.03	0.27	23	<0.05	8.04	88	<0.5			
464673		0.02	0.21	22	<0.05	6.25	74	<0.5			
464674		<0.02	0.19	22	<0.05	6.26	85	0.5			
464675		<0.02	0.11	18	0.07	3.95	102	<0.5			
464676		<0.02	0.32	27	0.09	11.75	82	<0.5			
464677		<0.02	0.21	30	<0.05	7.64	379	<0.5			
464678		<0.02	0.48	19	<0.05	5.55	56	0.6			
464679		<0.02	0.31	17	<0.05	5.42	561	0.5			
464680		<0.02	0.31	16	<0.05	5.57	550	0.5			



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Page: 4 - A
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 8-FEB-2017
 Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017102

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
464681		7.61	0.03	1.52	0.7	<0.2	<10	100	0.09	0.06	0.97	1.83	4.79	9.3	3	<0.05
464682		6.80	0.07	1.49	0.7	<0.2	<10	110	0.12	0.03	0.80	1.21	6.69	9.2	3	0.17
464683		6.92	0.09	1.62	1.5	<0.2	<10	110	0.10	0.02	0.94	0.97	5.76	10.0	3	0.13
464684		3.35	0.04	1.61	0.8	<0.2	<10	70	0.09	0.04	1.26	1.75	5.26	7.7	2	<0.05
463078		6.33	1.53	1.99	3.7	<0.2	<10	50	0.08	0.54	0.68	2.68	7.07	20.0	2	0.09
463079		3.99	11.05	0.79	6.1	0.6	<10	30	0.09	0.92	2.72	2.75	6.12	139.0	2	0.08
463080		<0.02	10.75	0.75	4.3	0.7	<10	20	0.07	0.70	2.48	2.78	4.75	126.0	2	0.06
463081		3.10	0.10	2.02	0.4	<0.2	<10	40	0.09	0.03	2.21	0.17	8.30	10.0	3	<0.05
463082		3.60	0.15	2.24	0.6	<0.2	<10	40	0.09	0.04	1.42	1.68	8.31	11.6	3	0.05
463083		3.24	0.36	2.10	0.7	<0.2	<10	40	0.09	0.04	1.19	4.08	7.53	10.1	3	<0.05
463084		7.69	1.40	1.70	1.7	<0.2	<10	40	0.10	0.06	1.19	2.00	5.91	12.2	6	<0.05
463085		7.57	0.35	1.86	0.4	<0.2	<10	40	0.11	0.04	1.45	0.97	7.87	10.5	7	0.05
463086		8.05	4.99	1.97	1.0	0.4	<10	50	0.10	0.14	0.77	2.20	6.60	13.2	5	0.07
463087		8.15	2.33	2.35	1.8	<0.2	<10	50	0.10	0.12	0.72	11.00	6.90	12.3	4	0.08
463088		7.69	0.53	2.08	0.4	<0.2	<10	40	0.10	0.07	2.03	0.48	5.29	11.8	4	0.06
463089		7.67	5.57	2.37	4.8	<0.2	<10	40	0.10	0.20	1.14	3.36	9.44	13.2	3	0.07
463090		0.04	0.88	1.57	5.6	<0.2	10	120	0.27	0.17	0.97	0.43	12.75	10.5	29	0.38
463091		8.03	5.22	1.65	0.5	<0.2	<10	60	0.09	0.17	1.60	1.14	7.52	9.2	3	0.06



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Page: 4 - B
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 8-FEB-2017
 Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017102

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
464681		24.9	2.17	3.58	0.05	0.05	0.01	0.044	0.14	1.8	5.3	1.03	1090	6.84	0.03
464682		59.1	1.93	3.59	<0.05	0.07	0.01	0.029	0.20	2.3	5.0	1.05	844	3.42	0.03
464683		52.5	2.26	3.92	0.05	0.07	0.01	0.044	0.20	2.2	5.2	1.13	959	1.57	0.03
464684		29.7	2.24	3.87	0.06	0.08	0.01	0.062	0.10	1.9	4.9	1.14	1140	0.92	0.03
463078		1190	5.00	5.57	0.05	<0.02	0.02	0.095	0.19	2.6	9.7	1.30	1620	0.46	0.02
463079		>10000	17.80	2.32	0.09	<0.02	<0.01	0.413	0.18	2.3	3.0	0.44	1640	5.02	0.03
463080		>10000	15.65	2.30	0.07	<0.02	0.02	0.420	0.16	1.8	2.9	0.43	1560	4.95	0.01
463081		56.6	2.73	6.43	<0.05	0.03	<0.01	0.020	0.08	2.8	10.9	1.68	1520	0.22	0.03
463082		93.0	3.14	6.97	<0.05	0.02	0.01	0.026	0.09	2.8	11.9	1.84	1720	0.32	0.03
463083		226	3.31	6.15	<0.05	0.02	0.01	0.089	0.12	2.5	11.2	1.56	1840	0.26	0.03
463084		1085	3.17	4.77	0.05	0.03	0.01	0.109	0.09	2.2	9.4	1.32	1160	0.62	0.03
463085		212	2.91	4.73	<0.05	0.02	0.01	0.016	0.10	2.7	9.8	1.27	1750	0.34	0.03
463086		3940	4.32	5.24	<0.05	0.02	0.01	0.115	0.17	2.3	9.9	1.25	1760	0.78	0.02
463087		1155	4.95	6.93	<0.05	<0.02	0.03	0.233	0.16	2.5	12.0	1.46	2110	0.31	0.02
463088		231	3.28	5.33	<0.05	<0.02	<0.01	0.039	0.14	2.1	11.0	1.38	2080	0.34	0.03
463089		2280	5.03	8.43	0.05	<0.02	0.01	0.508	0.15	3.4	13.2	1.55	1920	1.10	0.02
463090		3260	3.16	5.83	0.08	0.23	0.05	0.053	0.21	6.3	10.9	0.77	473	237	0.08
463091		2700	2.93	5.35	<0.05	<0.02	0.01	0.195	0.13	2.8	9.2	1.12	1640	0.93	0.04



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Page: 4 - C
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 8 -FEB- 2017
 Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017102

Sample Description	Method Analyte Units LOR	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2	ME-MS41 Ti % 0.005
464681		4.7	480	0.7	1.6	0.001	0.28	0.13	1.2	<0.2	0.2	37.9	<0.01	0.13	0.6	0.068
464682		5.2	510	0.6	3.6	<0.001	0.18	0.14	1.3	<0.2	0.2	42.3	<0.01	0.04	0.8	0.097
464683		4.9	570	0.6	3.3	<0.001	0.22	0.14	1.3	0.2	0.2	42.2	<0.01	0.07	0.9	0.096
464684		4.5	530	0.7	1.3	0.001	0.19	0.14	1.4	<0.2	0.2	49.5	<0.01	0.08	0.6	0.088
463078		5.4	530	0.9	2.7	<0.001	2.50	<0.05	2.3	0.4	0.2	29.3	<0.01	0.36	0.7	0.009
463079		6.8	350	2.6	2.9	0.001	>10.0	0.19	2.6	4.8	0.3	53.2	<0.01	1.44	0.7	0.005
463080		5.9	320	1.4	2.5	0.001	>10.0	0.11	2.2	4.0	0.3	49.1	<0.01	1.09	0.5	0.005
463081		5.1	620	0.7	1.2	<0.001	0.07	0.06	2.6	0.2	<0.2	60.2	<0.01	<0.01	0.8	0.030
463082		5.4	510	0.6	1.4	<0.001	0.24	0.05	2.8	0.3	<0.2	48.3	<0.01	0.01	1.0	0.015
463083		5.3	490	0.6	1.8	<0.001	0.38	<0.05	2.2	0.3	0.2	42.0	<0.01	0.03	0.9	0.015
463084		5.6	520	0.6	1.4	<0.001	0.88	0.06	1.6	0.3	0.2	47.8	<0.01	0.11	0.6	0.023
463085		6.3	490	1.0	1.5	<0.001	0.19	0.06	2.0	<0.2	<0.2	64.5	<0.01	0.02	0.7	0.010
463086		5.7	530	0.9	2.4	<0.001	1.56	0.05	1.9	0.4	0.3	34.7	<0.01	0.11	0.8	0.013
463087		5.9	530	0.8	2.4	<0.001	1.36	<0.05	2.1	0.2	0.2	36.0	<0.01	0.09	0.7	0.013
463088		5.7	560	0.9	2.0	0.001	0.42	<0.05	2.2	<0.2	<0.2	55.0	<0.01	0.06	0.6	0.013
463089		5.6	470	0.8	2.3	<0.001	1.63	0.05	2.7	0.4	0.3	45.3	<0.01	0.27	0.6	0.011
463090		23.0	660	8.3	8.8	0.237	0.48	2.38	5.2	1.3	1.1	46.3	<0.01	0.09	1.6	0.143
463091		4.5	390	0.8	2.1	<0.001	0.74	0.05	2.0	0.2	0.2	52.0	<0.01	0.18	1.0	0.009



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Page: 4 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 8-FEB-2017
 Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017102

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
464681		<0.02	0.28	17	<0.05	3.87	1040	0.6			
464682		0.02	0.39	20	<0.05	4.13	683	0.7			
464683		0.02	0.45	22	<0.05	4.07	548	0.6			
464684		<0.02	0.29	21	<0.05	4.08	943	0.7			
463078		<0.02	0.22	22	0.17	4.42	1380	<0.5			
463079		0.02	1.44	12	0.15	6.98	1050	<0.5	0.864		0.700
463080		<0.02	1.13	11	0.17	5.33	1000	<0.5	0.956		0.571
463081		<0.02	0.49	32	<0.05	6.32	305	<0.5			
463082		<0.02	0.39	34	<0.05	6.29	919	<0.5			
463083		<0.02	0.35	30	<0.05	5.77	2000	<0.5			
463084		<0.02	0.70	23	0.05	5.04	935	<0.5			
463085		<0.02	0.34	23	<0.05	6.14	784	<0.5			
463086		<0.02	0.54	21	0.11	4.67	1100	<0.5	0.374		0.164
463087		0.02	0.30	28	0.12	4.43	4830	<0.5			
463088		<0.02	0.22	27	0.08	4.01	559	<0.5			
463089		<0.02	0.23	31	0.11	5.12	1580	<0.5	0.227		
463090		0.09	0.34	64	13.95	7.18	58	5.7	0.314	0.028	
463091		<0.02	0.41	23	0.07	4.18	527	<0.5	0.260		



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 8-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017102

	CERTIFICATE COMMENTS			
	ANALYTICAL COMMENTS			
Applies to Method:	NSS is non-sufficient sample. ALL METHODS			
Applies to Method:	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). ME-MS41			
	LABORATORY ADDRESSES			
Applies to Method:	Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.			
	CRU-31	CRU-QC	LOG-21d	LOG-22
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au-AA23	Cu-OG46	ME-MS41	ME-OG46
	Mo-OG46			



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Page: 1
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 8-FEB-2017
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CERTIFICATE KL17017103

Project: SGM2016-27

P.O. No.: S0218733

This report is for 132 Drill Core samples submitted to our lab in Kamloops, BC,
Canada on 30-JAN-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Mo-OG46	Ore Grade Mo - Aqua Regia	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **GIBRALTAR MINES LTD.**
ATTN: ALS MINERALS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 8-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017103

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
459855		6.90	0.03	0.86	0.1	<0.2	<10	80	0.10	0.02	0.57	0.01	4.10	2.2	5	<0.05
459856		7.55	0.01	0.89	0.2	<0.2	<10	100	0.10	0.03	1.34	0.02	4.83	3.0	5	<0.05
459857		7.00	0.02	0.80	0.1	<0.2	<10	80	0.10	0.03	0.52	0.11	4.45	4.8	5	0.05
459858		7.05	0.61	0.90	0.1	<0.2	<10	90	0.10	0.02	0.42	0.07	3.92	3.3	6	<0.05
459859		6.38	0.06	0.96	<0.1	<0.2	<10	100	0.10	0.01	0.37	0.08	4.41	2.9	7	<0.05
459860		<0.02	0.09	0.96	0.1	<0.2	<10	90	0.09	0.01	0.37	0.09	4.71	2.9	9	<0.05
459861		6.98	0.03	0.83	<0.1	<0.2	<10	60	0.11	0.02	1.04	0.06	7.61	3.3	5	0.10
459862		7.48	0.82	0.89	0.4	<0.2	<10	50	0.11	0.05	0.34	0.21	3.81	3.2	9	0.05
459863		7.29	0.09	0.90	0.1	<0.2	<10	80	0.11	<0.01	0.74	0.06	4.76	2.3	5	0.15
459864		6.75	0.01	0.86	<0.1	<0.2	<10	70	0.10	<0.01	1.21	0.05	8.13	3.6	6	0.13
459865		7.41	0.01	0.77	<0.1	<0.2	<10	60	0.07	<0.01	0.52	0.01	4.80	2.8	6	<0.05
459866		6.56	0.01	0.79	<0.1	<0.2	<10	60	0.09	0.07	0.84	0.11	6.34	3.3	5	0.08
459867		6.54	0.02	0.76	<0.1	<0.2	<10	50	0.07	<0.01	0.91	0.24	6.35	3.6	6	0.19
459868		7.69	0.05	0.76	0.5	<0.2	<10	60	0.13	0.03	2.11	0.98	9.60	3.5	5	0.33
459869		6.45	0.02	0.85	<0.1	<0.2	<10	70	0.09	<0.01	0.48	0.44	4.59	3.7	6	0.20
459870		0.04	0.88	1.53	5.2	<0.2	10	120	0.30	0.15	0.92	0.39	12.90	10.1	29	0.39
459871		6.80	0.04	0.93	0.1	<0.2	<10	90	0.09	0.04	1.10	0.43	5.27	3.3	5	0.30
459872		7.85	0.06	0.77	<0.1	<0.2	<10	60	0.11	0.06	1.74	0.05	7.85	4.6	4	0.39
459873		7.03	0.02	0.85	0.1	<0.2	<10	50	0.09	<0.01	0.92	0.02	5.77	2.6	6	0.13
459874		6.95	0.02	0.83	<0.1	<0.2	<10	60	0.13	<0.01	0.48	0.01	3.32	3.7	5	0.07
459875		7.37	0.17	0.82	<0.1	<0.2	<10	50	0.08	<0.01	0.43	0.07	3.56	4.4	6	0.08
459876		7.32	0.03	0.88	<0.1	<0.2	<10	40	0.07	<0.01	1.28	0.09	6.08	3.5	7	0.28
459877		7.23	0.09	0.96	<0.1	<0.2	<10	50	0.10	0.01	0.95	0.42	4.94	4.4	5	0.19
459878		7.04	0.11	0.91	<0.1	<0.2	<10	60	0.08	<0.01	0.68	0.35	4.43	3.5	6	0.24
459879		7.20	0.01	0.85	0.3	<0.2	<10	70	0.09	<0.01	0.46	0.01	5.26	3.5	5	0.07
459880		<0.02	0.01	0.85	<0.1	<0.2	<10	70	0.10	<0.01	0.46	0.01	5.05	3.3	7	0.06
459881		6.32	0.04	0.85	<0.1	<0.2	<10	80	0.10	<0.01	0.54	0.02	4.68	3.6	6	<0.05
459882		6.72	0.02	0.87	<0.1	<0.2	<10	70	0.09	<0.01	0.55	0.02	4.65	3.4	5	0.06
459883		6.80	0.05	1.00	<0.1	<0.2	<10	50	0.09	<0.01	0.98	0.48	5.01	1.7	6	0.24
459884		7.18	0.05	0.91	0.1	<0.2	<10	50	0.08	0.02	1.08	0.27	5.56	4.1	5	0.24
459885		7.06	0.01	0.92	<0.1	<0.2	<10	80	0.09	<0.01	0.51	0.03	3.53	3.0	4	<0.05
459886		7.22	0.02	0.88	0.1	<0.2	<10	70	0.10	<0.01	0.70	0.03	4.96	3.2	4	0.06
459887		7.14	0.01	0.85	<0.1	<0.2	<10	60	0.08	<0.01	1.04	0.03	6.16	3.4	4	0.09
459888		7.33	0.02	0.96	<0.1	<0.2	<10	60	0.09	<0.01	1.32	0.05	4.18	3.7	3	0.09
459889		7.48	0.10	1.03	<0.1	<0.2	<10	100	0.11	0.01	1.29	0.16	5.75	3.2	3	0.28
459890		0.04	2.74	1.77	27.8	0.3	10	60	0.37	0.97	0.88	2.31	9.84	10.3	30	3.50
459891		6.90	0.01	0.93	0.1	<0.2	<10	70	0.10	<0.01	0.77	0.20	4.20	3.8	3	0.11
459892		6.98	0.03	0.96	0.2	<0.2	<10	90	0.08	<0.01	0.80	0.35	4.32	4.2	4	0.15
459893		7.22	0.04	0.95	1.6	<0.2	<10	60	0.08	<0.01	0.59	0.20	4.33	5.8	4	0.05
459894		7.33	0.02	0.99	0.1	<0.2	<10	60	0.09	<0.01	0.72	0.02	6.31	4.0	4	0.09



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Page: 2 - B
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 8-FEB-2017
 Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017103

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
459855		8.4	1.08	2.49	<0.05	<0.02	<0.01	0.017	0.05	1.6	3.4	0.34	378	0.61	0.05
459856		6.5	1.13	2.82	<0.05	<0.02	<0.01	0.030	0.05	1.9	3.9	0.36	575	0.46	0.05
459857		7.5	1.02	2.24	<0.05	<0.02	<0.01	0.017	0.06	1.7	3.6	0.36	324	0.48	0.06
459858		644	1.40	2.71	<0.05	<0.02	<0.01	0.027	0.10	1.5	3.4	0.42	393	0.56	0.05
459859		53.1	1.35	2.91	<0.05	<0.02	<0.01	0.010	0.10	1.7	3.5	0.45	471	0.59	0.05
459860		54.0	1.34	2.91	<0.05	<0.02	<0.01	0.013	0.10	1.9	3.5	0.45	472	0.73	0.05
459861		23.6	1.15	2.61	<0.05	0.03	<0.01	0.012	0.07	2.4	2.9	0.42	494	0.40	0.05
459862		980	1.82	2.78	<0.05	<0.02	<0.01	0.055	0.08	1.4	3.1	0.40	454	1.07	0.05
459863		93.6	1.16	2.50	0.05	<0.02	0.01	0.031	0.06	1.8	3.0	0.40	504	1.22	0.04
459864		7.7	1.16	2.73	0.05	<0.02	<0.01	0.006	0.06	3.0	3.1	0.42	572	0.48	0.05
459865		4.1	0.90	2.33	0.05	0.02	<0.01	0.005	0.07	1.7	2.6	0.38	386	0.39	0.05
459866		10.3	1.05	2.48	0.05	0.02	0.01	0.005	0.08	2.2	2.8	0.41	484	0.31	0.05
459867		11.1	1.14	2.48	0.05	<0.02	0.01	0.011	0.08	2.2	2.9	0.41	529	0.59	0.05
459868		40.6	1.28	2.31	<0.05	<0.02	0.02	0.027	0.08	3.3	3.1	0.39	996	0.48	0.05
459869		20.7	0.93	2.54	0.06	<0.02	<0.01	0.007	0.07	1.8	3.5	0.43	502	0.63	0.06
459870		3260	3.13	5.34	0.11	0.20	0.03	0.053	0.20	5.9	10.1	0.76	456	237	0.08
459871		31.5	1.69	2.38	<0.05	<0.02	0.01	0.060	0.12	2.0	3.6	0.45	620	0.93	0.04
459872		44.0	1.75	2.01	<0.05	<0.02	0.01	0.027	0.11	3.0	3.0	0.38	789	2.17	0.04
459873		21.5	1.18	2.48	<0.05	<0.02	0.01	0.019	0.08	2.4	3.4	0.45	603	0.55	0.05
459874		6.2	1.11	2.49	<0.05	<0.02	0.01	<0.005	0.07	1.3	3.2	0.44	487	0.46	0.06
459875		231	1.36	2.56	<0.05	<0.02	0.01	0.012	0.06	1.4	3.3	0.45	516	0.54	0.05
459876		17.9	1.30	2.80	0.06	<0.02	<0.01	0.013	0.05	2.5	3.8	0.45	654	0.67	0.05
459877		66.7	1.40	2.87	<0.05	<0.02	0.01	0.046	0.06	2.0	4.1	0.50	693	0.57	0.05
459878		125.5	1.27	2.73	0.05	<0.02	0.01	0.041	0.07	1.7	3.7	0.45	582	1.03	0.05
459879		3.9	1.02	2.72	0.05	0.02	<0.01	0.005	0.08	1.9	3.3	0.45	365	0.48	0.05
459880		3.8	1.01	2.61	<0.05	<0.02	<0.01	0.007	0.08	1.8	3.1	0.44	360	0.51	0.05
459881		4.3	1.00	2.68	0.05	<0.02	0.01	<0.005	0.09	1.7	3.0	0.43	323	2.03	0.05
459882		3.4	1.04	2.58	0.05	<0.02	<0.01	<0.005	0.08	1.7	3.2	0.44	352	0.37	0.05
459883		48.3	1.58	3.21	0.05	<0.02	0.01	0.019	0.08	2.0	3.7	0.47	659	0.41	0.05
459884		44.4	1.61	2.76	0.05	<0.02	0.01	0.024	0.07	2.3	4.2	0.45	676	1.37	0.05
459885		11.8	1.07	2.61	<0.05	<0.02	<0.01	0.006	0.07	1.3	3.7	0.47	482	0.30	0.05
459886		9.6	1.07	2.64	<0.05	0.02	<0.01	<0.005	0.08	1.9	2.7	0.43	452	0.44	0.05
459887		5.5	1.16	2.94	<0.05	<0.02	<0.01	0.009	0.07	2.3	3.7	0.40	453	0.42	0.05
459888		17.5	1.35	3.13	<0.05	<0.02	<0.01	0.013	0.07	1.6	4.8	0.47	678	0.99	0.05
459889		153.0	1.51	3.25	<0.05	<0.02	<0.01	0.033	0.08	2.3	5.3	0.49	894	1.01	0.05
459890		2640	4.72	4.82	0.06	0.03	0.05	0.141	0.31	4.5	16.5	0.60	769	236	0.05
459891		8.5	1.17	2.88	<0.05	<0.02	0.01	0.016	0.07	1.5	3.3	0.45	458	0.31	0.05
459892		30.1	1.35	2.72	<0.05	<0.02	0.01	0.015	0.08	1.6	3.2	0.47	522	0.45	0.05
459893		49.6	1.38	2.59	<0.05	<0.02	<0.01	0.020	0.07	1.7	3.4	0.49	490	0.49	0.05
459894		18.1	1.14	2.82	0.05	0.02	<0.01	0.009	0.07	2.3	4.5	0.50	544	0.32	0.05



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Page: 2 - C
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 8-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017103

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
459855		1.8	280	0.5	0.7	<0.001	0.11	0.10	0.7	<0.2	0.2	45.4	<0.01	0.05	0.6
459856		1.4	310	0.9	0.7	<0.001	0.15	0.09	1.0	<0.2	0.2	66.4	<0.01	0.03	0.6
459857		1.6	310	0.7	0.8	<0.001	0.34	0.08	0.7	<0.2	<0.2	46.5	<0.01	0.04	0.5
459858		1.7	340	0.6	1.2	<0.001	0.46	0.07	0.7	<0.2	0.2	35.7	<0.01	0.08	0.5
459859		1.8	330	0.5	1.2	<0.001	0.13	0.05	0.8	<0.2	<0.2	31.6	<0.01	0.01	0.4
459860		1.8	330	0.5	1.2	<0.001	0.12	0.05	0.8	<0.2	<0.2	32.2	<0.01	0.01	0.5
459861		1.6	320	0.9	0.8	<0.001	0.08	0.07	1.1	0.2	0.2	55.6	<0.01	0.01	0.6
459862		1.8	330	0.7	1.0	<0.001	0.84	0.05	0.7	<0.2	0.2	34.4	<0.01	0.10	0.5
459863		1.7	310	1.2	0.9	0.001	0.07	0.09	1.1	0.2	0.2	59.9	<0.01	0.01	0.5
459864		1.5	320	1.1	0.7	<0.001	0.04	0.06	1.5	0.2	0.2	59.9	<0.01	0.02	0.4
459865		1.4	310	0.5	0.7	<0.001	0.01	0.06	0.9	0.3	<0.2	37.6	<0.01	0.01	0.6
459866		1.6	330	0.7	0.8	<0.001	0.02	0.06	1.2	0.2	0.2	42.6	<0.01	0.01	0.5
459867		1.5	320	0.6	0.9	<0.001	0.09	0.06	1.2	<0.2	<0.2	54.9	<0.01	0.02	0.5
459868		1.4	340	1.5	1.0	<0.001	0.12	0.09	1.3	0.3	0.2	85.4	<0.01	0.01	0.5
459869		1.7	340	0.8	0.8	<0.001	0.03	0.06	0.8	<0.2	<0.2	38.4	<0.01	0.01	0.4
459870		21.3	660	8.0	8.4	0.244	0.47	2.22	4.7	1.2	1.1	43.0	<0.01	0.10	1.6
459871		1.8	380	1.2	1.5	<0.001	0.88	0.12	1.0	0.2	0.2	56.8	<0.01	0.08	0.5
459872		1.6	370	1.3	1.5	0.002	1.14	0.10	1.1	0.2	0.2	79.2	<0.01	0.12	0.4
459873		1.7	370	1.0	1.1	<0.001	0.18	0.09	1.0	<0.2	<0.2	46.6	<0.01	0.02	0.4
459874		1.6	360	0.6	0.9	<0.001	0.17	0.05	0.7	<0.2	<0.2	36.3	<0.01	0.01	0.4
459875		1.6	360	0.6	0.8	<0.001	0.36	<0.05	0.7	<0.2	<0.2	29.5	<0.01	0.06	0.4
459876		1.8	370	1.2	0.7	<0.001	0.01	0.07	1.3	<0.2	<0.2	58.9	<0.01	<0.01	0.5
459877		1.8	370	0.9	0.8	<0.001	0.16	0.05	1.1	<0.2	<0.2	48.3	<0.01	0.09	0.3
459878		1.8	350	0.9	0.9	0.001	0.10	0.06	0.9	<0.2	<0.2	44.0	<0.01	0.04	0.5
459879		1.8	370	0.7	0.9	<0.001	0.01	0.05	0.9	0.2	<0.2	35.2	<0.01	<0.01	0.5
459880		1.7	350	0.6	0.9	<0.001	0.01	<0.05	0.9	<0.2	<0.2	34.4	<0.01	<0.01	0.5
459881		1.8	370	0.6	1.0	<0.001	0.01	<0.05	0.9	0.2	<0.2	37.4	<0.01	<0.01	0.4
459882		1.6	360	0.5	1.0	<0.001	0.01	<0.05	0.9	<0.2	<0.2	39.5	<0.01	<0.01	0.4
459883		1.7	370	0.8	1.1	<0.001	0.06	0.06	1.1	0.2	0.2	46.4	<0.01	0.01	0.4
459884		1.6	370	1.0	0.9	0.001	0.34	0.07	1.0	<0.2	0.2	44.1	<0.01	0.05	0.4
459885		1.7	380	0.5	0.9	0.001	0.05	0.07	0.8	0.2	<0.2	40.6	<0.01	0.01	0.4
459886		1.5	360	0.7	0.9	<0.001	0.01	0.06	1.0	0.2	<0.2	44.6	<0.01	<0.01	0.5
459887		1.6	350	0.9	0.8	<0.001	0.03	<0.05	1.1	<0.2	<0.2	70.0	<0.01	<0.01	0.4
459888		1.6	380	0.8	0.8	<0.001	0.05	<0.05	0.9	0.2	<0.2	45.3	<0.01	0.01	0.3
459889		1.8	390	0.9	1.0	<0.001	0.10	<0.05	1.0	<0.2	<0.2	47.2	<0.01	0.03	0.3
459890		19.7	760	83.2	13.2	0.236	2.32	1.60	2.4	4.2	0.7	56.9	<0.01	0.67	2.9
459891		1.6	370	0.9	0.8	0.001	0.02	<0.05	1.0	<0.2	0.2	50.4	<0.01	<0.01	0.2
459892		1.7	390	0.7	0.8	0.001	0.13	0.05	1.0	<0.2	<0.2	60.7	<0.01	0.03	0.3
459893		1.7	390	0.6	0.7	0.001	0.16	0.11	0.8	<0.2	<0.2	38.0	<0.01	0.08	0.3
459894		1.6	380	0.7	0.8	<0.001	0.02	0.07	1.1	<0.2	0.2	53.2	<0.01	<0.01	0.5



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Page: 2 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 8-FEB-2017
 Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017103

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46	Mo-OG46	Au-AA23
		TI	U	V	W	Y	Zn	Zr	Cu	Mo	Au
		ppm 0.02	ppm 0.05	ppm 1	ppm 0.05	ppm 0.05	ppm 2	ppm 0.5	% 0.001	% 0.001	ppm 0.005
459855		<0.02	0.24	5	<0.05	3.32	47	<0.5			
459856		<0.02	0.19	6	<0.05	4.41	44	<0.5			
459857		<0.02	0.28	5	<0.05	2.86	90	<0.5			
459858		<0.02	0.27	5	<0.05	3.44	61	<0.5			
459859		<0.02	0.43	6	<0.05	3.79	122	<0.5			
459860		<0.02	0.37	6	<0.05	3.84	121	<0.5			
459861		<0.02	0.28	7	<0.05	8.55	66	<0.5			
459862		<0.02	0.22	5	<0.05	2.67	106	<0.5			
459863		<0.02	0.26	7	<0.05	3.75	75	<0.5			
459864		<0.02	0.13	10	<0.05	7.06	61	<0.5			
459865		<0.02	0.20	6	<0.05	5.97	50	<0.5			
459866		<0.02	0.19	7	<0.05	10.15	88	<0.5			
459867		<0.02	0.15	9	<0.05	5.12	153	<0.5			
459868		<0.02	0.27	9	<0.05	7.72	380	<0.5			
459869		<0.02	0.12	6	<0.05	2.66	232	<0.5			
459870		0.10	0.34	61	13.20	6.72	57	5.5	0.311	0.029	
459871		<0.02	0.16	7	0.08	3.79	238	<0.5			
459872		<0.02	0.12	6	0.06	5.05	67	<0.5			
459873		<0.02	0.16	7	0.05	4.02	70	<0.5			
459874		<0.02	0.52	6	<0.05	2.49	76	<0.5			
459875		<0.02	0.19	6	<0.05	2.72	99	<0.5			
459876		<0.02	1.04	11	0.08	4.32	108	<0.5			
459877		<0.02	0.14	9	0.09	3.93	223	<0.5			
459878		<0.02	0.13	7	0.12	2.92	218	<0.5			
459879		<0.02	0.28	7	<0.05	3.66	75	<0.5			
459880		<0.02	0.20	7	<0.05	3.41	75	<0.5			
459881		<0.02	0.13	6	0.29	3.99	61	<0.5			
459882		<0.02	0.13	7	<0.05	4.10	60	<0.5			
459883		<0.02	0.21	9	0.06	4.98	265	<0.5			
459884		<0.02	0.27	9	0.06	4.72	150	<0.5			
459885		<0.02	0.21	6	<0.05	3.73	87	<0.5			
459886		<0.02	0.25	7	<0.05	5.94	66	<0.5			
459887		<0.02	0.18	8	<0.05	3.67	56	<0.5			
459888		<0.02	0.06	8	<0.05	2.51	76	<0.5			
459889		<0.02	0.08	7	<0.05	3.76	159	<0.5			
459890		0.29	0.56	33	1.42	4.55	438	0.8	0.253	0.027	0.329
459891		<0.02	0.14	8	<0.05	3.64	118	<0.5			
459892		<0.02	0.17	8	<0.05	4.77	136	<0.5			
459893		<0.02	0.36	8	<0.05	3.32	152	<0.5			
459894		<0.02	0.20	8	<0.05	5.14	84	<0.5			



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Page: 3 - A
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 8-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017103

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
459895		7.56	0.01	0.92	<0.1	<0.2	<10	60	0.08	<0.01	0.58	0.01	4.92	4.2	4	0.05
459896		3.50	0.01	1.02	0.2	<0.2	<10	40	0.10	<0.01	1.05	0.02	5.23	3.5	4	0.07
459897		3.76	0.43	1.04	0.3	<0.2	<10	60	0.11	0.07	0.84	0.04	3.08	14.5	3	0.09
459898		3.80	0.58	1.05	0.2	<0.2	<10	40	0.08	0.03	0.54	0.06	3.86	4.2	4	0.05
459899		3.92	1.85	0.67	0.2	<0.2	<10	50	0.05	0.30	0.35	0.21	7.45	8.6	3	0.09
459900		<0.02	1.86	0.70	0.2	<0.2	<10	50	0.06	0.30	0.34	0.19	6.95	8.9	5	0.09
459901		7.46	0.54	0.88	0.3	<0.2	<10	60	0.07	0.11	0.53	0.06	4.39	5.0	4	0.24
459902		6.83	0.05	0.93	0.1	<0.2	<10	50	0.08	0.02	0.52	0.01	3.76	5.6	5	0.08
459903		7.70	0.01	0.83	0.1	<0.2	<10	50	0.08	0.01	0.69	0.01	5.93	3.9	5	0.06
459904		6.34	0.01	0.96	0.1	<0.2	<10	60	0.08	0.01	0.76	0.01	5.70	4.7	5	0.09
459905		6.88	0.01	0.89	0.1	<0.2	<10	70	0.08	0.01	0.70	0.01	5.62	4.1	4	0.11
459906		7.14	0.16	1.12	0.1	<0.2	<10	50	0.08	0.06	0.91	0.01	5.55	3.4	4	0.10
459907		6.91	0.03	0.88	0.2	<0.2	<10	50	0.08	0.04	1.40	0.01	8.41	3.3	4	0.12
459908		3.00	0.01	0.82	0.1	<0.2	<10	60	0.09	0.01	1.25	0.01	7.51	3.2	4	0.14
459909		3.51	<0.01	0.85	0.1	<0.2	<10	70	0.08	0.01	0.90	0.01	6.78	3.7	5	0.08
463147		5.11	0.21	0.82	0.2	<0.2	<10	370	0.20	0.16	2.84	3.27	14.60	5.3	3	0.36
463148		2.01	0.14	0.69	0.1	<0.2	<10	220	0.14	0.05	2.57	1.50	15.15	2.7	4	0.22
463149		2.17	0.02	0.67	0.2	<0.2	<10	160	0.12	0.11	2.88	7.54	12.40	3.5	2	0.13
463150		0.04	0.64	1.64	5.6	0.8	10	100	0.23	0.10	0.83	0.14	8.74	10.5	31	0.44
463151		3.76	0.16	0.83	0.1	<0.2	<10	330	0.13	0.11	2.51	0.99	14.60	4.0	3	0.16
463152		8.70	3.07	0.63	0.5	<0.2	<10	80	0.12	0.75	0.88	0.55	11.90	4.6	3	0.13
463153		7.30	0.03	0.65	0.2	<0.2	<10	120	0.10	0.04	1.52	0.05	14.35	3.2	4	0.15
463154		7.76	0.52	0.60	0.3	<0.2	<10	130	0.14	0.17	2.84	1.04	16.10	3.7	5	0.26
463155		6.84	0.04	0.68	0.3	<0.2	<10	70	0.12	0.09	1.46	1.11	12.40	4.2	4	0.20
463156		7.06	0.03	0.64	0.3	<0.2	<10	130	0.13	0.08	1.80	0.27	8.71	2.9	3	0.29
463157		7.15	0.18	0.75	0.4	<0.2	<10	80	0.12	0.12	1.36	1.19	8.34	2.2	4	0.23
463158		7.75	0.88	0.54	1.0	<0.2	<10	120	0.13	0.29	1.07	3.16	16.65	2.3	3	0.39
463159		7.04	1.62	0.75	1.8	<0.2	<10	140	0.31	0.37	1.80	1.64	14.85	3.4	2	0.45
463160		<0.02	1.54	0.75	1.8	<0.2	<10	130	0.29	0.35	1.88	1.67	14.55	3.2	3	0.44
463161		7.78	0.44	0.76	0.5	<0.2	<10	100	0.13	0.23	1.74	3.98	10.55	5.7	3	0.23
463162		3.62	0.03	0.83	0.2	<0.2	<10	80	0.11	0.11	1.14	1.27	7.81	4.1	3	0.16
463163		3.27	0.01	0.75	0.2	<0.2	<10	70	0.09	0.04	1.50	0.07	7.45	3.9	3	0.11
463164		6.82	0.03	0.81	0.5	<0.2	<10	80	0.09	0.12	1.29	1.43	15.80	3.2	3	0.12
463165		6.89	1.74	0.43	3.4	<0.2	<10	80	0.10	0.90	0.33	1.43	21.6	2.5	3	0.18
463166		7.10	2.39	0.48	2.3	<0.2	<10	100	0.10	1.00	0.41	0.39	28.2	2.7	3	0.17
463167		6.24	1.07	0.41	0.8	<0.2	<10	60	0.08	0.48	0.56	0.15	13.60	5.1	2	0.13
463168		7.21	1.66	0.59	1.8	<0.2	<10	40	0.09	0.80	0.77	0.52	14.30	5.2	2	0.15
463169		6.70	0.03	0.77	0.4	<0.2	<10	140	0.10	0.10	1.36	0.80	18.60	4.0	3	0.20
463170		0.06	0.73	1.99	22.3	0.2	<10	370	0.45	1.50	0.95	0.10	62.0	15.0	82	10.50
463171		5.86	0.24	0.68	1.2	<0.2	<10	90	0.13	0.72	1.18	2.84	17.45	5.9	3	0.36



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Page: 3 - B
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 8-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017103

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
459895		4.6	1.04	2.58	<0.05	<0.02	<0.01	<0.005	0.07	1.7	4.0	0.48	445	0.29	0.05
459896		6.0	1.33	3.30	<0.05	<0.02	<0.01	0.014	0.06	2.2	5.9	0.51	722	0.33	0.06
459897		884	2.43	2.98	<0.05	<0.02	<0.01	0.039	0.13	1.2	6.2	0.50	812	6.46	0.05
459898		1420	1.97	3.56	<0.05	<0.02	<0.01	0.030	0.09	1.7	5.8	0.57	579	0.30	0.04
459899		5010	5.50	2.19	<0.05	<0.02	0.01	0.099	0.16	3.0	3.6	0.28	290	7.93	0.02
459900		4700	5.67	2.28	<0.05	<0.02	0.01	0.089	0.17	2.8	3.6	0.29	299	7.06	0.03
459901		1230	2.40	2.80	<0.05	<0.02	0.01	0.041	0.12	1.7	4.6	0.44	451	3.60	0.04
459902		80.4	1.45	2.87	<0.05	<0.02	<0.01	0.011	0.06	1.4	4.8	0.53	414	1.06	0.05
459903		10.3	1.08	2.63	<0.05	0.02	<0.01	0.007	0.05	2.0	3.8	0.49	408	0.39	0.05
459904		4.2	1.26	3.17	<0.05	<0.02	<0.01	0.009	0.07	2.0	4.1	0.52	452	0.53	0.06
459905		5.9	1.11	2.99	<0.05	<0.02	<0.01	0.007	0.06	2.0	3.7	0.47	397	0.33	0.05
459906		262	1.84	3.79	<0.05	<0.02	0.01	0.033	0.07	2.3	5.9	0.56	763	1.41	0.05
459907		35.4	1.39	2.95	<0.05	<0.02	0.01	0.019	0.06	3.3	4.3	0.42	679	0.63	0.05
459908		2.8	1.11	2.85	<0.05	<0.02	0.01	0.009	0.08	2.8	3.4	0.37	446	0.25	0.06
459909		2.3	1.10	2.91	<0.05	<0.02	0.01	0.006	0.08	2.5	3.0	0.41	367	0.48	0.05
463147		258	2.23	2.91	<0.05	<0.02	0.10	0.284	0.09	5.7	4.1	0.38	1840	0.36	0.05
463148		163.0	1.42	2.01	<0.05	<0.02	0.03	0.108	0.14	6.2	3.3	0.22	1450	0.43	0.05
463149		5.2	1.67	1.92	<0.05	<0.02	0.10	0.256	0.09	5.1	3.5	0.27	1670	0.20	0.06
463150		4570	3.52	5.37	0.07	0.23	0.04	0.051	0.14	4.3	12.5	0.77	445	193.5	0.09
463151		153.5	1.88	2.69	<0.05	<0.02	0.02	0.123	0.10	6.3	3.8	0.34	1530	0.52	0.05
463152		6000	3.20	2.21	<0.05	<0.02	0.02	0.392	0.18	5.0	1.8	0.23	738	0.37	0.03
463153		29.3	1.23	2.47	<0.05	<0.02	0.01	0.025	0.09	5.8	2.8	0.33	814	0.35	0.05
463154		789	1.46	2.08	<0.05	<0.02	0.03	0.106	0.14	6.9	2.1	0.24	1440	1.24	0.03
463155		23.9	1.33	2.58	<0.05	<0.02	0.02	0.022	0.08	5.3	2.9	0.32	892	0.99	0.05
463156		68.1	1.43	2.36	<0.05	<0.02	0.01	0.027	0.09	3.7	3.1	0.27	923	3.46	0.05
463157		497	1.60	2.71	<0.05	<0.02	0.02	0.097	0.11	3.5	3.1	0.36	778	1.66	0.05
463158		2430	2.03	1.64	<0.05	<0.02	0.05	0.241	0.17	7.2	1.7	0.16	640	0.48	0.03
463159		3750	2.19	2.63	<0.05	<0.02	0.03	0.219	0.19	6.5	2.6	0.20	1000	24.9	0.06
463160		3620	2.18	2.62	<0.05	<0.02	0.03	0.212	0.18	6.3	2.6	0.20	1060	25.1	0.06
463161		530	1.84	2.76	<0.05	<0.02	0.06	0.165	0.11	3.7	3.2	0.34	1150	1.05	0.06
463162		9.6	1.54	3.14	<0.05	<0.02	0.02	0.132	0.11	2.9	3.4	0.37	756	0.26	0.05
463163		1.7	1.37	2.81	<0.05	<0.02	<0.01	0.015	0.09	2.8	3.6	0.37	804	0.14	0.05
463164		21.8	1.49	2.81	<0.05	<0.02	0.02	0.107	0.10	6.9	3.1	0.38	902	7.96	0.05
463165		3130	2.77	1.71	<0.05	<0.02	0.02	0.275	0.19	9.7	0.8	0.07	263	0.82	0.03
463166		6320	2.56	1.76	<0.05	<0.02	0.01	0.346	0.23	12.9	0.8	0.09	330	3.29	0.02
463167		4050	3.65	1.29	<0.05	<0.02	0.01	0.147	0.21	5.9	0.8	0.07	289	2.00	0.03
463168		4020	6.77	2.00	<0.05	<0.02	0.01	0.081	0.19	5.8	1.9	0.21	421	2.62	0.03
463169		27.8	1.41	2.71	<0.05	<0.02	0.01	0.116	0.11	7.9	3.0	0.34	839	1.02	0.06
463170		2600	3.97	8.55	0.15	0.38	0.01	0.191	1.05	31.4	32.7	1.17	363	89.2	0.15
463171		475	2.13	2.35	<0.05	<0.02	0.01	0.483	0.14	7.5	2.2	0.24	772	1.66	0.06



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Page: 3 - C
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 8-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017103

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
459895		1.7	400	0.6	0.8	<0.001	0.03	0.06	0.8	<0.2	0.4	48.0	<0.01	<0.01	0.4
459896		1.6	390	0.8	0.6	<0.001	0.03	0.05	1.0	<0.2	<0.2	41.6	<0.01	0.01	0.4
459897		1.7	410	0.5	1.5	0.002	1.43	<0.05	0.6	0.5	0.2	27.3	<0.01	0.17	0.3
459898		1.8	410	0.5	1.1	<0.001	0.74	<0.05	0.8	0.2	<0.2	26.9	<0.01	0.11	0.4
459899		4.9	480	3.3	2.2	0.002	5.85	<0.05	0.4	0.7	0.4	13.4	<0.01	0.48	0.5
459900		2.7	470	1.3	2.2	0.001	5.99	<0.05	0.5	0.9	0.4	13.9	<0.01	0.46	0.4
459901		2.0	410	1.0	1.7	0.003	1.66	<0.05	0.8	0.3	0.2	29.1	<0.01	0.17	0.3
459902		2.1	390	0.8	0.9	0.001	0.33	<0.05	0.9	<0.2	<0.2	40.9	<0.01	0.02	0.3
459903		1.8	340	0.7	0.7	<0.001	0.05	<0.05	1.0	0.3	<0.2	50.5	<0.01	0.01	0.3
459904		1.9	370	0.9	0.9	<0.001	0.08	0.05	1.3	0.2	<0.2	55.6	<0.01	0.01	0.3
459905		1.7	370	1.0	0.9	<0.001	0.06	<0.05	1.2	0.2	<0.2	63.3	<0.01	0.01	0.3
459906		1.8	380	0.8	1.0	0.001	0.21	<0.05	1.2	0.2	<0.2	79.8	<0.01	0.04	0.3
459907		1.7	350	1.4	0.9	<0.001	0.05	0.08	1.7	0.3	<0.2	62.5	<0.01	0.01	0.5
459908		1.6	350	1.2	1.1	<0.001	0.01	0.07	1.3	0.2	<0.2	61.7	<0.01	<0.01	0.5
459909		1.8	360	1.0	1.2	<0.001	0.02	<0.05	1.1	0.2	<0.2	58.3	<0.01	0.01	0.4
463147		2.7	270	2.5	1.5	<0.001	0.51	<0.05	1.8	0.3	<0.2	166.5	<0.01	0.10	0.7
463148		1.0	410	1.5	2.2	<0.001	0.33	<0.05	0.9	0.3	<0.2	140.5	<0.01	0.04	0.6
463149		1.5	340	1.7	1.4	<0.001	0.44	<0.05	1.2	0.2	<0.2	167.5	<0.01	0.04	0.6
463150		29.8	570	3.8	5.0	0.095	0.63	0.79	5.2	1.1	1.4	39.9	<0.01	0.06	0.9
463151		1.5	300	1.2	1.5	<0.001	0.31	<0.05	1.1	<0.2	<0.2	128.5	<0.01	0.08	0.8
463152		1.6	420	0.8	2.8	<0.001	2.63	<0.05	0.7	0.4	0.7	40.9	<0.01	0.99	0.9
463153		1.3	290	2.2	1.5	<0.001	0.08	0.09	1.6	0.3	0.2	79.3	<0.01	0.03	1.2
463154		1.4	290	2.2	2.2	<0.001	0.45	0.05	1.2	0.3	<0.2	98.0	<0.01	0.16	1.0
463155		1.4	280	2.5	1.3	0.001	0.26	0.13	1.4	0.3	0.2	85.2	<0.01	0.06	0.9
463156		1.3	300	2.6	1.5	<0.001	0.13	0.14	1.5	0.3	0.3	114.0	<0.01	0.04	0.4
463157		1.4	280	2.3	1.8	<0.001	0.34	0.10	1.4	0.3	0.3	88.1	<0.01	0.08	0.6
463158		1.3	220	2.5	2.8	<0.001	1.43	0.10	0.7	0.3	0.4	83.9	<0.01	0.35	1.3
463159		1.7	270	3.7	3.1	0.003	1.61	0.23	1.0	0.2	0.4	173.5	<0.01	0.41	1.0
463160		1.7	270	3.7	3.0	0.004	1.58	0.22	1.0	0.3	0.4	176.0	<0.01	0.38	1.0
463161		1.9	310	2.2	1.8	<0.001	0.91	0.10	1.7	<0.2	0.3	108.5	<0.01	0.19	0.7
463162		1.6	330	1.6	1.7	<0.001	0.27	0.09	1.7	0.3	0.3	62.3	<0.01	0.06	0.7
463163		1.4	320	2.1	1.4	<0.001	0.14	0.13	1.4	0.3	0.2	86.3	<0.01	0.03	0.5
463164		1.4	200	1.7	1.6	0.004	0.22	0.07	1.1	0.3	0.2	64.0	<0.01	0.05	1.3
463165		0.8	170	1.3	2.9	<0.001	2.66	0.06	0.5	0.3	0.6	37.7	<0.01	0.97	1.4
463166		1.0	270	1.2	3.7	<0.001	2.40	0.05	0.4	0.4	0.7	38.0	<0.01	1.07	1.8
463167		1.6	260	0.9	3.1	<0.001	3.72	<0.05	0.5	0.5	0.4	35.3	<0.01	0.57	1.1
463168		2.4	240	1.8	2.9	0.001	7.51	0.07	0.7	1.2	0.8	47.2	<0.01	0.77	0.9
463169		1.5	300	1.5	1.9	<0.001	0.19	0.08	1.8	0.3	0.2	85.9	<0.01	0.06	1.0
463170		38.3	980	8.8	128.0	0.002	0.37	0.44	7.4	3.7	4.3	60.2	0.01	0.10	18.0
463171		1.7	260	2.0	2.5	0.001	1.17	0.08	1.5	0.3	0.3	93.2	<0.01	0.57	1.1



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Page: 3 - D
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 8-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017103

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46	Mo-OG46	Au-AA23
		TI	U	V	W	Y	Zn	Zr	Cu	Mo	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001	0.005
459895		<0.02	0.12	7	<0.05	4.61	76	<0.5			
459896		<0.02	0.09	9	<0.05	3.18	87	<0.5			
459897		<0.02	0.16	5	0.06	1.59	79	<0.5			
459898		<0.02	0.12	6	0.06	3.30	68	<0.5			
459899		<0.02	0.25	3	0.15	2.11	37	<0.5	0.502		
459900		<0.02	0.27	4	0.13	2.04	37	<0.5	0.488		
459901		<0.02	0.37	6	0.09	2.57	59	<0.5			
459902		<0.02	0.10	7	<0.05	2.94	37	<0.5			
459903		<0.02	0.13	7	<0.05	5.63	35	<0.5			
459904		<0.02	0.13	9	<0.05	4.88	41	<0.5			
459905		<0.02	0.13	8	<0.05	3.68	42	<0.5			
459906		<0.02	0.15	9	0.07	3.65	68	<0.5			
459907		<0.02	0.20	10	0.05	6.14	52	<0.5			
459908		<0.02	0.26	10	<0.05	4.44	37	<0.5			
459909		<0.02	0.17	8	<0.05	3.36	39	<0.5			
463147		<0.02	1.10	11	0.07	6.14	1430	<0.5			
463148		<0.02	0.63	5	0.14	5.89	576	<0.5			
463149		<0.02	0.43	5	0.07	5.19	2330	<0.5			
463150		0.07	0.30	61	0.34	7.36	44	6.4	0.473	0.024	0.519
463151		<0.02	1.36	5	0.12	5.01	429	<0.5			
463152		0.02	3.45	4	0.21	5.58	255	<0.5	0.616		
463153		<0.02	0.37	9	0.07	6.71	84	<0.5			
463154		<0.02	0.86	5	0.10	6.48	488	<0.5			
463155		<0.02	0.56	9	0.07	6.33	544	<0.5			
463156		<0.02	0.53	12	0.18	6.21	217	<0.5			
463157		<0.02	1.17	10	0.12	5.38	657	<0.5			
463158		<0.02	0.74	4	0.21	4.68	1440	<0.5	0.252		
463159		0.16	1.01	5	0.10	5.32	649	<0.5	0.378		
463160		0.17	1.10	5	0.10	5.32	659	<0.5	0.367		
463161		0.02	0.66	9	0.71	5.50	1760	<0.5			
463162		<0.02	0.39	12	0.07	5.14	608	<0.5			
463163		<0.02	0.35	13	0.13	5.71	113	<0.5			
463164		<0.02	0.44	7	0.11	4.48	728	<0.5			
463165		<0.02	0.44	2	0.12	2.63	540	<0.5	0.304		
463166		0.02	1.00	1	0.18	3.88	205	<0.5	0.647		
463167		<0.02	1.35	3	0.26	3.98	90	<0.5	0.397		
463168		<0.02	0.58	5	0.14	4.47	204	<0.5	0.404		
463169		<0.02	0.40	11	0.08	6.99	520	<0.5			
463170		0.69	4.57	108	1.79	17.00	77	10.1	0.266		0.249
463171		<0.02	0.41	7	0.17	6.85	1340	<0.5			



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Page: 4 - A
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 8-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017103

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
463172		6.41	0.30	0.78	1.0	<0.2	<10	100	0.11	0.74	0.64	20.4	11.15	4.6	3	0.30
463173		6.80	0.79	0.71	1.7	<0.2	<10	130	0.10	0.23	1.28	1.39	9.44	3.6	3	0.19
463174		6.77	0.02	0.63	0.7	<0.2	<10	120	0.10	0.01	0.47	0.19	13.05	2.7	3	0.06
463175		7.02	0.03	0.74	0.7	<0.2	<10	130	0.10	0.05	0.36	0.68	9.02	3.8	3	0.08
463176		6.96	0.02	0.73	0.3	<0.2	<10	90	0.08	0.05	0.44	0.85	8.87	3.6	4	0.05
463177		4.29	0.02	0.94	0.2	<0.2	<10	90	0.11	0.07	0.80	0.68	5.81	4.2	4	0.12
463178		2.02	0.02	0.84	0.2	<0.2	<10	80	0.11	0.13	0.63	0.72	11.45	5.7	3	0.13
463179		3.20	0.02	1.05	0.1	<0.2	<10	200	0.14	0.10	1.00	1.26	7.90	4.5	3	0.25
463180		<0.02	0.02	0.98	0.3	<0.2	<10	200	0.14	0.10	1.01	1.36	7.83	4.3	3	0.26
463181		4.08	0.01	0.92	0.1	<0.2	<10	120	0.12	0.10	1.25	2.30	8.17	4.3	5	0.25
463182		7.34	0.03	0.98	0.1	<0.2	<10	140	0.12	0.16	1.84	1.17	6.83	5.2	3	0.24
463183		7.60	0.02	0.77	0.2	<0.2	<10	120	0.11	0.18	1.01	0.38	8.82	4.3	4	0.13
463184		6.92	0.28	0.83	0.2	<0.2	<10	110	0.11	0.19	1.06	0.77	10.65	4.8	4	0.21
463185		6.67	0.05	1.03	0.3	<0.2	<10	120	0.13	0.07	0.97	1.52	10.95	3.0	4	0.26
463186		7.03	0.04	0.86	0.5	<0.2	<10	90	0.09	0.04	0.51	0.99	8.85	4.3	4	0.07
463187		7.43	0.77	0.81	0.6	<0.2	<10	70	0.10	0.24	0.76	2.13	9.93	4.1	4	0.26
463188		7.17	0.52	0.97	<0.1	<0.2	<10	50	0.07	0.21	1.30	0.06	7.05	5.7	3	0.36
463189		7.25	1.03	0.83	0.2	<0.2	<10	50	0.09	0.20	1.38	0.39	7.25	4.9	3	0.37
463190		0.06	0.76	2.06	19.2	0.2	<10	390	0.53	1.72	1.01	0.09	62.1	14.9	84	9.76
463191		7.87	2.49	0.81	0.4	<0.2	<10	70	0.19	0.38	2.22	0.49	14.60	5.5	3	0.42
463192		7.80	0.59	1.10	0.2	<0.2	<10	80	0.12	0.31	1.30	0.11	5.71	6.3	3	0.37
463193		7.25	0.02	0.99	0.2	<0.2	<10	60	0.10	0.07	1.71	0.11	7.14	4.0	4	0.71
463194		7.42	0.65	0.76	0.1	<0.2	<10	70	0.11	0.25	1.50	0.81	12.85	4.2	3	0.40
463195		8.22	0.85	0.79	0.2	<0.2	<10	60	0.12	0.52	1.70	0.95	13.95	2.2	2	0.48
463196		7.75	1.59	0.71	1.2	<0.2	<10	150	0.15	0.41	1.18	1.09	14.00	3.6	4	0.27
463197		7.60	0.02	0.77	0.6	<0.2	<10	120	0.10	0.03	0.83	0.06	7.17	3.7	6	0.25
463198		3.80	0.02	0.86	0.5	<0.2	<10	100	0.10	0.02	1.02	0.02	8.33	4.1	4	0.20
463199		3.42	0.02	0.79	0.5	<0.2	<10	110	0.11	0.01	0.80	0.01	6.42	4.7	5	0.18
463200		<0.02	0.02	0.76	0.4	<0.2	<10	110	0.09	0.01	0.79	<0.01	6.76	4.3	5	0.18
463201		7.78	0.04	0.79	0.6	<0.2	<10	80	0.10	0.02	0.58	2.67	6.17	2.8	5	0.08
463202		8.12	0.02	0.66	2.9	<0.2	<10	110	0.10	0.02	0.81	0.64	6.52	3.6	4	0.10
463203		6.74	0.02	0.80	0.5	<0.2	<10	110	0.10	0.01	0.63	0.23	7.84	3.7	4	0.15
463204		7.00	0.02	0.81	1.6	<0.2	<10	200	0.12	0.03	1.29	0.20	9.40	3.7	4	0.38
463205		7.40	0.02	0.94	0.9	<0.2	<10	110	0.10	0.03	1.03	0.19	7.84	3.8	4	0.33
463206		7.55	0.03	0.83	1.4	<0.2	<10	80	0.09	0.02	0.65	0.35	6.14	4.1	5	0.10
463207		8.14	0.02	0.79	1.5	<0.2	<10	90	0.09	0.01	0.65	0.27	5.91	3.8	7	0.07
463208		8.16	0.02	0.69	1.2	<0.2	<10	80	0.08	0.02	0.69	0.08	5.83	3.6	6	0.08
463209		6.97	0.04	0.81	6.4	<0.2	<10	80	0.17	0.06	1.14	0.09	9.18	4.0	5	0.37
463210		0.04	0.46	2.06	13.6	<0.2	10	90	0.31	0.47	1.17	0.19	8.92	47.6	250	1.35
463211		7.70	0.37	0.75	4.5	<0.2	<10	110	0.10	0.07	0.96	0.24	6.63	3.9	5	0.17



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Page: 4 - B
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 8-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017103

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
463172		367	1.94	2.64	<0.05	<0.02	0.04	1.935	0.14	4.5	2.4	0.31	668	0.27	0.04
463173		1870	1.48	2.37	<0.05	<0.02	0.01	0.165	0.13	4.1	1.8	0.26	581	0.73	0.05
463174		5.5	0.83	2.22	<0.05	<0.02	<0.01	0.012	0.09	5.9	1.7	0.23	325	0.22	0.06
463175		7.5	1.07	2.30	<0.05	0.02	<0.01	0.030	0.08	3.8	2.4	0.31	370	0.23	0.06
463176		6.5	0.98	2.27	<0.05	<0.02	<0.01	0.029	0.09	3.7	2.5	0.32	397	0.13	0.05
463177		20.6	1.37	3.07	<0.05	0.02	<0.01	0.110	0.09	2.4	3.5	0.43	611	0.18	0.06
463178		1.5	1.36	2.90	0.05	0.02	0.01	0.047	0.05	4.2	4.1	0.43	530	0.24	0.06
463179		5.1	1.42	3.11	<0.05	0.02	0.01	0.046	0.08	3.0	4.0	0.42	591	0.39	0.05
463180		5.1	1.36	2.94	<0.05	0.02	<0.01	0.043	0.08	3.1	3.7	0.39	573	0.36	0.04
463181		4.2	1.25	2.82	<0.05	0.02	0.01	0.078	0.05	3.5	4.4	0.46	708	0.21	0.06
463182		15.0	1.83	3.02	<0.05	0.02	0.01	0.122	0.08	2.9	4.2	0.43	787	0.54	0.06
463183		4.0	1.80	2.70	<0.05	0.02	0.01	0.051	0.08	3.4	3.3	0.38	617	0.49	0.06
463184		369	1.69	2.99	0.05	0.02	0.01	0.093	0.09	4.1	3.7	0.43	717	0.28	0.06
463185		38.0	1.46	3.39	<0.05	0.02	0.01	0.156	0.10	4.3	3.3	0.40	742	1.25	0.06
463186		20.8	1.13	2.75	<0.05	0.02	<0.01	0.021	0.09	3.5	3.1	0.41	514	1.21	0.06
463187		1780	2.57	2.53	<0.05	<0.02	0.02	0.215	0.16	3.8	2.6	0.31	586	0.97	0.05
463188		909	1.90	3.43	<0.05	<0.02	<0.01	0.116	0.15	3.3	3.2	0.42	962	2.16	0.05
463189		1850	1.63	3.16	<0.05	<0.02	0.01	0.176	0.14	3.4	2.9	0.35	902	3.00	0.06
463190		2680	4.15	9.18	0.20	0.45	0.02	0.187	1.09	30.7	31.1	1.24	387	101.0	0.16
463191		3900	3.44	3.16	<0.05	<0.02	0.01	0.356	0.17	6.6	2.6	0.34	1600	3.69	0.05
463192		762	2.48	3.96	<0.05	<0.02	<0.01	0.162	0.17	2.5	3.8	0.53	1010	5.93	0.04
463193		18.8	1.48	3.67	<0.05	<0.02	<0.01	0.026	0.11	3.3	3.8	0.44	886	1.77	0.07
463194		1330	1.65	2.68	<0.05	<0.02	0.01	0.131	0.16	5.5	2.3	0.30	966	1.20	0.05
463195		1610	1.71	2.65	<0.05	<0.02	0.01	0.258	0.19	6.2	1.8	0.27	960	0.55	0.04
463196		2610	2.20	2.67	<0.05	<0.02	0.01	0.365	0.19	5.9	1.5	0.24	695	0.59	0.04
463197		11.2	1.05	2.93	<0.05	0.02	<0.01	0.010	0.17	3.2	2.2	0.31	401	0.29	0.06
463198		8.0	1.17	3.27	<0.05	<0.02	<0.01	0.009	0.14	3.7	2.3	0.38	460	0.15	0.06
463199		6.2	1.06	2.71	<0.05	0.02	<0.01	<0.005	0.18	2.6	2.2	0.36	399	0.17	0.06
463200		5.4	1.02	2.68	<0.05	0.03	<0.01	<0.005	0.17	2.8	2.2	0.35	389	0.15	0.06
463201		26.1	0.94	2.44	<0.05	0.02	0.01	0.322	0.12	2.4	1.9	0.36	390	0.30	0.05
463202		7.4	0.85	2.25	<0.05	0.02	<0.01	0.049	0.16	2.8	1.7	0.26	388	1.33	0.05
463203		5.0	1.04	2.80	<0.05	0.03	<0.01	0.019	0.17	3.4	2.2	0.36	395	0.19	0.06
463204		8.3	1.10	3.31	<0.05	0.02	0.01	0.034	0.14	3.8	2.0	0.30	509	0.18	0.07
463205		10.1	1.14	3.23	<0.05	0.02	0.01	0.028	0.12	3.3	2.2	0.38	535	0.15	0.06
463206		12.1	1.10	2.53	<0.05	<0.02	<0.01	0.019	0.09	2.5	2.1	0.41	483	1.00	0.06
463207		10.0	1.07	2.50	<0.05	0.02	<0.01	0.018	0.11	2.3	1.8	0.37	439	1.02	0.06
463208		9.1	0.97	2.30	<0.05	<0.02	<0.01	0.013	0.10	2.6	1.6	0.33	371	1.44	0.05
463209		24.0	1.37	3.18	<0.05	0.02	0.01	0.047	0.09	3.6	2.2	0.34	651	0.78	0.05
463210		817	5.50	5.84	0.10	0.04	0.01	0.021	0.67	3.9	4.3	5.53	461	85.4	0.10
463211		295	1.30	2.79	<0.05	<0.02	<0.01	0.077	0.13	2.9	1.7	0.31	535	0.64	0.05



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Page: 4 - C
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Plus Appendix Pages
Finalized Date: 8-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017103

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
463172		1.5	250	2.0	2.5	<0.001	1.28	0.07	1.7	0.3	0.4	45.0	<0.01	0.54	1.1
463173		1.3	290	1.6	2.2	<0.001	0.57	0.17	1.3	<0.2	0.3	59.6	<0.01	0.18	1.0
463174		1.0	230	1.0	1.6	<0.001	0.06	0.09	1.0	<0.2	<0.2	31.7	<0.01	0.02	1.5
463175		1.2	270	1.2	1.4	<0.001	0.35	0.11	0.9	<0.2	<0.2	36.9	<0.01	0.04	1.4
463176		1.3	290	0.9	1.4	<0.001	0.24	0.08	0.8	0.2	<0.2	35.5	<0.01	0.05	1.3
463177		1.6	340	1.1	1.4	<0.001	0.31	0.09	1.3	0.2	0.3	55.3	<0.01	0.06	0.8
463178		1.7	350	1.4	0.8	<0.001	0.50	0.10	1.4	0.3	0.2	62.0	<0.01	0.11	1.0
463179		1.5	350	2.1	1.6	<0.001	0.42	0.16	1.7	0.3	0.2	96.9	<0.01	0.08	0.8
463180		1.5	330	2.1	1.5	<0.001	0.40	0.17	1.7	0.3	0.2	96.0	<0.01	0.08	0.8
463181		1.6	350	1.8	1.0	<0.001	0.28	0.13	1.8	0.2	0.2	83.8	<0.01	0.09	0.8
463182		1.6	340	2.3	1.5	<0.001	0.96	0.17	2.0	0.2	0.3	113.0	<0.01	0.14	0.8
463183		1.6	340	1.5	1.6	<0.001	1.30	0.11	1.4	0.2	0.3	62.4	<0.01	0.16	1.0
463184		1.6	380	1.5	1.7	<0.001	1.02	0.12	1.8	0.3	0.3	75.5	<0.01	0.16	0.9
463185		1.5	350	1.6	1.8	<0.001	0.24	0.13	2.0	0.3	0.3	91.2	<0.01	0.03	0.9
463186		1.7	340	0.9	1.4	<0.001	0.12	0.09	1.0	0.2	0.2	38.5	<0.01	0.02	0.7
463187		1.7	370	1.2	2.7	<0.001	1.93	0.10	1.3	0.4	0.3	46.3	<0.01	0.25	0.7
463188		1.6	380	1.4	2.8	<0.001	0.50	0.06	1.8	0.2	0.3	47.0	<0.01	0.11	0.5
463189		1.5	380	1.3	2.6	<0.001	0.48	0.06	1.4	<0.2	0.4	50.7	<0.01	0.10	0.7
463190		38.6	1040	9.4	129.5	0.002	0.38	0.60	7.9	3.2	5.0	62.0	0.01	0.07	17.7
463191		1.6	420	2.9	3.1	<0.001	1.87	0.08	2.3	0.3	0.7	79.8	<0.01	0.41	0.6
463192		1.8	440	1.6	3.1	<0.001	1.05	0.06	2.4	<0.2	0.3	52.0	<0.01	0.16	0.5
463193		1.5	390	2.2	2.1	<0.001	0.07	0.11	1.8	0.2	0.3	94.0	<0.01	0.02	0.7
463194		1.3	320	1.7	2.9	<0.001	0.62	0.07	1.4	0.2	0.3	56.0	<0.01	0.13	0.9
463195		1.2	300	1.8	3.4	<0.001	0.54	0.09	1.3	0.2	0.4	72.4	<0.01	0.18	1.4
463196		1.4	300	1.8	3.1	<0.001	1.11	0.09	1.3	0.3	0.4	57.3	<0.01	0.43	1.0
463197		1.4	320	1.3	3.5	<0.001	0.03	0.08	1.5	0.2	0.2	59.8	<0.01	0.01	0.9
463198		1.6	350	1.3	2.5	<0.001	0.02	0.07	1.8	<0.2	0.2	69.2	<0.01	<0.01	0.8
463199		1.6	360	0.8	3.7	<0.001	0.04	0.09	1.2	0.2	0.2	46.2	<0.01	0.01	0.7
463200		1.5	330	0.9	3.7	<0.001	0.03	0.08	1.2	0.2	0.2	46.7	<0.01	0.01	0.7
463201		1.5	320	0.8	1.7	<0.001	0.09	0.12	1.1	0.2	0.2	43.2	<0.01	<0.01	0.9
463202		1.5	310	1.0	2.9	<0.001	0.08	0.17	1.0	<0.2	<0.2	42.9	<0.01	0.02	0.8
463203		1.4	320	0.9	3.5	<0.001	0.03	0.08	1.3	0.2	0.2	45.4	<0.01	<0.01	0.8
463204		1.6	330	2.0	2.5	<0.001	0.05	0.09	2.0	0.2	0.2	84.2	<0.01	0.01	0.8
463205		1.6	350	1.4	2.0	<0.001	0.03	0.08	1.8	0.2	0.2	72.4	<0.01	<0.01	0.7
463206		1.6	350	0.8	1.1	<0.001	0.10	0.12	1.1	<0.2	<0.2	42.9	<0.01	0.01	0.7
463207		1.6	340	0.8	1.4	<0.001	0.07	0.12	1.1	0.2	0.2	39.9	<0.01	0.01	0.6
463208		3.9	320	3.1	1.5	0.002	0.06	0.11	0.9	<0.2	<0.2	35.3	<0.01	0.01	0.6
463209		2.1	310	1.9	1.6	<0.001	0.11	0.24	2.5	0.3	0.2	74.7	<0.01	0.02	0.6
463210		631	690	5.1	27.2	0.087	3.86	0.79	8.4	3.0	0.4	49.1	<0.01	0.15	1.0
463211		2.0	340	1.3	2.0	<0.001	0.25	0.14	1.7	0.2	0.2	52.7	<0.01	0.04	0.6



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Page: 4 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 8-FEB-2017
 Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017103

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46	Mo-OG46	Au-AA23
		Tl	U	V	W	Y	Zn	Zr	Cu	Mo	Au
		ppm 0.02	ppm 0.05	ppm 1	ppm 0.05	ppm 0.05	ppm 2	ppm 0.5	% 0.001	% 0.001	ppm 0.005
463172		<0.02	0.34	7	0.05	5.10	9010	<0.5			
463173		<0.02	0.88	6	<0.05	5.17	474	<0.5	0.174		
463174		<0.02	0.54	5	<0.05	5.31	139	<0.5			
463175		<0.02	0.36	5	<0.05	4.86	335	<0.5			
463176		<0.02	0.29	5	<0.05	4.71	375	<0.5			
463177		<0.02	0.17	7	<0.05	6.84	335	<0.5			
463178		<0.02	0.14	8	<0.05	6.34	293	<0.5			
463179		<0.02	0.14	10	<0.05	7.94	581	<0.5			
463180		<0.02	0.14	9	<0.05	7.91	588	<0.5			
463181		<0.02	0.17	9	<0.05	5.25	1020	<0.5			
463182		<0.02	0.17	10	<0.05	5.20	514	<0.5			
463183		<0.02	0.22	7	<0.05	6.81	208	<0.5			
463184		<0.02	0.28	10	<0.05	6.89	363	<0.5			
463185		<0.02	0.23	10	<0.05	7.00	728	<0.5			
463186		<0.02	0.27	6	<0.05	6.39	485	<0.5			
463187		<0.02	0.60	7	0.08	5.93	956	<0.5	0.166		
463188		<0.02	0.29	8	0.08	4.38	98	<0.5			
463189		<0.02	0.40	8	0.07	4.38	188	<0.5	0.178		
463190		0.72	4.06	114	1.94	16.90	78	11.1	0.258		0.250
463191		<0.02	0.45	9	0.09	9.84	272	<0.5	0.371		
463192		<0.02	0.26	9	0.12	5.34	123	<0.5			
463193		<0.02	0.24	13	0.05	8.18	111	<0.5			
463194		<0.02	0.27	6	0.09	8.85	318	<0.5			
463195		<0.02	0.53	6	0.14	7.49	401	<0.5	0.154		
463196		0.02	0.56	6	0.08	6.78	420	<0.5	0.250		
463197		0.02	0.29	8	<0.05	5.98	68	<0.5			
463198		<0.02	0.46	8	<0.05	7.16	53	<0.5			
463199		0.03	0.56	8	<0.05	7.31	53	<0.5			
463200		0.03	0.56	8	<0.05	7.30	51	<0.5			
463201		<0.02	0.29	6	<0.05	6.31	1280	<0.5			
463202		0.03	2.03	5	<0.05	5.25	344	<0.5			
463203		0.02	0.37	7	<0.05	6.04	150	<0.5			
463204		<0.02	0.19	10	<0.05	6.97	129	<0.5			
463205		<0.02	0.33	9	<0.05	5.69	143	<0.5			
463206		<0.02	1.04	7	<0.05	5.20	226	<0.5			
463207		<0.02	0.49	7	<0.05	6.35	185	<0.5			
463208		<0.02	0.36	6	<0.05	4.39	81	<0.5			
463209		0.02	0.53	8	<0.05	10.95	96	<0.5			
463210		0.65	0.31	71	12.10	4.64	61	1.3			
463211		<0.02	0.41	7	<0.05	5.84	143	<0.5			



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Page: 5 - A
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 8-FEB-2017
 Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017103

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1	ME-MS41 Cs ppm 0.05
463212		6.81	0.85	0.69	7.0	<0.2	<10	120	0.13	0.17	0.85	1.33	8.69	5.0	6	0.25
463213		7.80	0.03	0.80	0.9	<0.2	<10	90	0.09	0.02	1.36	0.02	8.92	3.2	5	0.47
463214		7.36	0.32	0.88	0.2	<0.2	<10	70	0.15	0.11	1.57	0.08	10.15	4.3	21	0.30
463215		7.29	0.07	0.79	1.0	<0.2	<10	100	0.13	0.04	1.68	0.06	10.00	3.6	6	0.48
463216		7.46	0.02	0.78	1.0	<0.2	<10	140	0.11	0.02	0.78	0.03	7.23	3.7	7	0.26
463217		3.18	0.07	0.89	1.5	<0.2	<10	110	0.10	0.03	0.98	0.13	7.67	3.6	5	0.16
463218		2.13	0.01	0.88	0.8	<0.2	<10	90	0.09	0.01	0.75	0.01	9.49	4.3	5	0.23
463219		2.56	0.01	0.91	0.4	<0.2	<10	110	0.12	0.01	1.11	0.02	7.48	4.1	5	0.28
463220		<0.02	0.02	0.93	0.4	<0.2	<10	110	0.10	0.01	1.14	0.02	8.10	4.3	6	0.27
463221		7.54	0.01	0.84	0.6	<0.2	<10	90	0.09	0.02	1.40	0.33	5.74	3.9	5	0.21
463222		7.06	0.01	0.93	0.6	<0.2	<10	80	0.17	0.03	3.08	0.40	9.09	3.8	5	0.41
463223		6.62	0.17	0.99	0.3	<0.2	<10	60	0.09	0.25	1.34	0.66	6.45	2.3	5	0.42



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Page: 5 - B
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 8 - FEB - 2017
 Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017103

Sample Description	Method Analyte Units LOR	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01	ME-MS41 Nb ppm 0.05
463212		885	2.62	2.41	<0.05	<0.02	0.01	0.235	0.20	3.3	1.7	0.23	569	2.04	0.04	<0.05
463213		21.8	1.21	2.96	<0.05	0.02	<0.01	0.018	0.11	3.7	2.6	0.33	549	0.44	0.05	<0.05
463214		354	1.44	3.28	<0.05	<0.02	<0.01	0.035	0.12	4.0	3.3	0.44	695	0.89	0.05	<0.05
463215		69.8	1.26	3.21	<0.05	0.02	<0.01	0.023	0.14	3.9	2.5	0.33	476	1.11	0.05	<0.05
463216		17.2	1.09	2.95	<0.05	0.02	<0.01	0.011	0.13	2.9	2.6	0.33	350	0.49	0.05	<0.05
463217		79.3	1.32	3.11	<0.05	0.02	<0.01	0.024	0.10	3.2	2.8	0.42	457	0.67	0.05	<0.05
463218		8.0	1.11	3.11	<0.05	0.02	<0.01	0.007	0.09	3.3	2.5	0.41	358	0.38	0.06	<0.05
463219		2.7	1.19	3.14	<0.05	0.02	<0.01	0.006	0.09	2.8	2.4	0.42	444	0.32	0.05	<0.05
463220		2.8	1.20	3.27	<0.05	0.02	<0.01	0.006	0.09	3.1	2.5	0.44	445	0.39	0.05	<0.05
463221		7.4	1.18	2.90	<0.05	0.02	<0.01	0.022	0.08	2.4	2.4	0.41	567	0.42	0.05	<0.05
463222		7.9	1.40	3.36	<0.05	0.02	0.01	0.028	0.07	3.7	3.1	0.42	958	1.18	0.06	<0.05
463223		190.5	1.58	3.22	<0.05	<0.02	0.01	0.107	0.09	3.0	3.1	0.43	744	0.68	0.05	<0.05



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Page: 5 - C
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 8-FEB-2017
 Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017103

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
463212		1.8	330	1.4	3.3	<0.001	1.61	0.18	1.5	0.3	0.3	48.5	<0.01	0.15	0.8
463213		1.5	320	1.4	2.0	<0.001	0.05	0.06	1.6	<0.2	0.2	83.5	<0.01	<0.01	0.8
463214		7.9	370	1.6	2.4	<0.001	0.21	0.07	2.5	0.2	0.2	79.9	<0.01	0.03	0.7
463215		1.8	330	1.7	3.2	<0.001	0.06	0.07	1.9	0.2	0.2	99.3	<0.01	0.03	0.7
463216		1.6	340	1.1	2.5	<0.001	0.04	0.08	1.7	<0.2	<0.2	72.1	<0.01	<0.01	0.6
463217		1.8	350	1.1	1.6	<0.001	0.07	0.09	1.5	0.2	0.2	66.4	<0.01	0.01	0.6
463218		1.8	360	1.2	1.4	<0.001	0.02	0.07	1.5	0.2	0.2	69.6	<0.01	<0.01	0.6
463219		1.7	360	1.2	1.5	<0.001	0.02	0.07	1.6	0.2	0.2	92.8	<0.01	<0.01	0.5
463220		1.8	370	1.2	1.5	<0.001	0.02	0.07	1.6	0.2	0.2	95.1	<0.01	<0.01	0.5
463221		1.7	350	1.2	1.3	<0.001	0.04	0.09	1.5	0.2	0.2	79.9	<0.01	<0.01	0.5
463222		1.6	340	1.8	1.2	<0.001	0.05	0.11	2.3	0.2	0.2	161.5	<0.01	<0.01	0.6
463223		1.7	350	1.7	1.7	<0.001	0.34	0.16	1.8	0.2	0.3	94.8	<0.01	0.11	0.5



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Page: 5 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 8-FEB-2017
 Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017103

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
463212		0.03	0.58	6	0.06	8.21	593	<0.5			
463213		<0.02	0.26	8	<0.05	6.20	51	<0.5			
463214		<0.02	0.28	12	<0.05	6.98	78	<0.5			
463215		0.02	0.32	9	<0.05	8.73	66	<0.5			
463216		0.02	0.31	8	<0.05	6.47	61	<0.5			
463217		<0.02	0.35	8	<0.05	8.15	124	<0.5			
463218		<0.02	0.23	8	<0.05	6.34	51	<0.5			
463219		<0.02	0.19	8	<0.05	8.18	53	<0.5			
463220		<0.02	0.20	8	<0.05	8.44	54	<0.5			
463221		<0.02	0.24	7	<0.05	5.49	189	<0.5			
463222		<0.02	0.47	11	<0.05	8.66	218	<0.5			
463223		<0.02	0.35	10	0.06	4.63	302	<0.5			



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 8-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17017103

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.
CRU - 31 CRU - QC LOG - 21d LOG - 22
LOG - 23 PUL - 31 PUL - 31d PUL - QC
SPL - 21 SPL - 21d WEI - 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au - AA23 Cu - OG46 ME - MS41 ME - OG46
Mo - OG46



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Page: 1
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 14-FEB-2017
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CERTIFICATE KL17019585

Project: SGM2016-27

P.O. No.: S0218733

This report is for 6 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 2-FEB-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

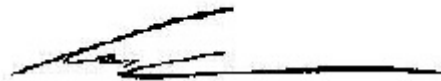
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

To: **GIBRALTAR MINES LTD.**
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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.

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

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-FEB-2017
 Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17019585

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2
463102		535	15.4	10	0.57	2.11	1.37	0.56	16.8	2.17	2.9	0.43	6.2	0.25	1.7
463118		510	14.3	10	0.46	2.17	1.38	0.49	16.0	2.20	4.5	0.43	6.1	0.22	1.7
463134		473	12.6	20	0.28	1.71	1.11	0.52	17.2	1.89	3.1	0.36	5.5	0.19	1.9
459808		1085	16.5	10	0.53	1.98	1.18	0.48	22.1	1.99	3.3	0.40	7.5	0.28	2.4
459828		767	21.4	10	0.21	2.97	1.97	0.19	15.0	2.44	3.5	0.62	9.1	0.46	4.5
459839		727	16.9	10	0.19	1.53	0.97	0.33	16.2	1.40	2.7	0.31	8.0	0.23	2.4



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Page: 2 - B
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 14-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17019585

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	Y	Yb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1	0.5	0.03
463102		2.31	18.5	2.37	1	330	0.1	0.35	0.64	0.26	0.40	107	2	12.7	1.66
463118		2.11	17.5	2.34	1	212	0.1	0.38	0.74	0.21	0.46	75	5	12.2	1.49
463134		1.85	13.8	1.78	1	377	0.1	0.29	0.48	0.18	0.68	66	1	9.9	1.19
459808		2.28	34.8	2.06	2	86.3	0.2	0.32	1.29	0.22	1.32	47	3	12.2	1.54
459828		2.98	26.7	2.38	<1	59.5	0.5	0.45	2.63	0.39	1.56	9	1	18.9	2.73
459839		2.19	9.9	1.61	<1	302	0.2	0.24	1.26	0.19	0.93	26	<1	8.7	1.29



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Page: 2 - C
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-FEB-2017
 Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17019585

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total		
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
463102		60.3	15.55	5.09	4.85	2.38	4.16	1.22	<0.01	0.42	0.15	0.12	0.04	0.06	5.04	99.38		
463118		63.9	14.40	4.40	3.97	1.79	4.14	1.27	<0.01	0.39	0.22	0.10	0.03	0.06	5.00	99.67		
463134		64.1	15.20	4.13	4.00	1.03	4.32	1.01	<0.01	0.35	0.18	0.10	0.04	0.06	5.74	100.26		
459808		70.1	13.70	6.77	1.58	1.13	1.53	2.64	<0.01	0.25	0.44	0.06	0.01	0.13	2.98	101.32		
459828		79.0	12.15	1.28	1.06	0.18	4.40	2.06	<0.01	0.09	0.06	0.01	0.01	0.09	1.14	101.53		
459839		73.0	14.30	2.44	2.63	0.73	4.72	0.86	<0.01	0.20	0.07	0.06	0.04	0.09	1.27	100.41		



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Page: 2 - D
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 14-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17019585

Sample Description	Method Analyte Units LOR	ME-MS81 TI ppm 0.5
463102		<0.5
463118		<0.5
463134		<0.5
459808		<0.5
459828		<0.5
459839		<0.5



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 14-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17019585

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02
TOT-ICP06

ME-ICP06

ME-MS81

OA-GRA05



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Page: 1
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 14-FEB-2017
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16-MAR-2017
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CERTIFICATE KL17019590

Project: SGM2016-27

P.O. No.: S0218733

This report is for 8 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 2-FEB-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

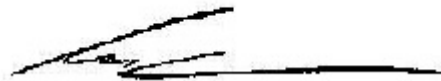
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

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ATTN: ALS MINERALS

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

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

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 14-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17019590

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2
464605		483	18.1	20	0.65	2.82	1.77	0.69	17.7	2.94	3.8	0.56	7.7	0.26	1.9
464615		536	21.9	30	0.70	3.25	1.91	0.64	17.9	3.19	4.1	0.65	9.3	0.31	2.4
464636		658	24.5	20	1.35	3.03	1.86	0.57	17.2	2.94	4.3	0.61	10.7	0.34	2.4
464652		488	21.0	20	0.48	3.24	2.12	0.70	18.1	3.25	4.4	0.68	8.5	0.33	2.2
464659		672	19.9	10	1.00	3.17	1.99	0.66	17.9	3.33	5.5	0.68	8.2	0.31	2.2
464672		915	20.9	10	1.15	4.41	2.45	0.98	18.6	4.80	8.4	0.87	8.7	0.35	2.5
464684		513	18.7	10	0.18	2.84	1.78	0.68	17.9	2.96	3.9	0.59	7.5	0.30	2.1
463083		461	17.6	10	0.51	2.84	1.60	0.57	20.1	2.73	3.1	0.58	7.7	0.27	1.7



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Page: 2 - B
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 14-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17019590

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	Y	Yb	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1	0.5	0.03	2
464605		2.70	20.4	2.61	1	331	0.1	0.45	0.86	0.25	0.59	98	1	14.9	1.69	131
464615		3.29	26.6	3.15	1	217	0.2	0.55	1.22	0.30	0.83	93	2	18.3	2.09	137
464636		3.47	29.8	3.04	1	298	0.2	0.47	1.90	0.28	1.41	93	<1	17.0	2.07	137
464652		3.25	23.9	3.64	1	277	0.1	0.52	1.92	0.30	0.90	100	2	18.8	2.22	143
464659		3.04	25.3	3.47	1	311	0.1	0.49	1.23	0.35	0.93	103	1	18.7	2.27	176
464672		3.44	35.6	4.45	1	152.0	0.1	0.72	1.41	0.36	0.91	113	1	21.7	2.32	309
464684		2.92	11.5	3.26	1	432	0.1	0.47	1.13	0.28	0.78	104	<1	16.7	2.05	144
463083		2.67	24.9	2.94	1	219	0.1	0.44	1.31	0.24	0.80	114	3	15.4	1.74	97



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Page: 2 - C
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 14-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17019590

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06	
		SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
464605		62.6	16.05	4.93	5.13	2.22	3.84	1.19	<0.01	0.50	0.13	0.12	0.04	0.06	2.73	99.54
464615		64.2	14.65	4.40	3.78	1.98	3.89	1.51	<0.01	0.44	0.13	0.09	0.02	0.06	5.76	100.91
464636		64.2	15.00	4.75	4.23	2.11	3.78	1.65	<0.01	0.46	0.09	0.10	0.04	0.08	2.01	98.50
464652		63.8	14.90	4.97	4.50	2.11	3.59	1.49	<0.01	0.48	0.35	0.11	0.03	0.06	3.04	99.43
464659		62.9	15.65	5.14	4.86	2.43	3.74	1.56	<0.01	0.47	0.13	0.09	0.04	0.08	2.81	99.90
464672		67.3	15.70	4.90	1.30	2.11	3.86	2.38	<0.01	0.59	0.13	0.13	0.02	0.11	2.34	100.87
464684		63.5	15.70	5.27	5.57	2.13	3.74	0.91	<0.01	0.47	0.33	0.12	0.05	0.06	2.69	100.54
463083		61.9	15.90	6.46	3.04	2.95	3.42	1.63	<0.01	0.49	0.49	0.11	0.03	0.06	3.50	99.98

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



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Page: 2 - D
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 14-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17019590

Sample Description	Method Analyte Units LOR	ME-MS81 TI ppm 0.5
464605		<0.5
464615		<0.5
464636		<0.5
464652		<0.5
464659		<0.5
464672		<0.5
464684		<0.5
463083		<0.5



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 14-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17019590

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02
TOT-ICP06

ME-ICP06

ME-MS81

OA-GRA05



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Page: 1
Total # Pages: 2 (A - D)
Plus Appendix Pages
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CERTIFICATE KL17019593

Project: SGM2016-27

P.O. No.: S0218733

This report is for 12 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 2-FEB-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

To: **GIBRALTAR MINES LTD.**
ATTN: ALS MINERALS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-FEB-2017
 Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17019593

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2
459855		749	13.9	20	0.08	1.51	0.96	0.40	17.7	1.51	2.3	0.32	6.5	0.16	1.9
459869		691	21.1	20	0.43	1.21	0.65	0.58	17.4	1.65	2.5	0.21	9.5	0.13	5.7
459882		695	13.7	10	0.19	1.45	0.80	0.42	16.6	1.43	2.5	0.30	6.3	0.16	1.8
459897		788	12.8	10	0.59	1.28	0.66	0.40	18.7	1.41	2.5	0.24	5.8	0.13	1.6
459909		694	20.2	20	0.33	1.00	0.55	0.39	16.9	1.27	1.7	0.18	9.9	0.10	1.4
463149		1430	13.6	10	0.54	1.84	1.06	0.40	15.1	1.73	2.7	0.37	5.9	0.21	1.9
463163		790	7.9	10	0.39	1.14	0.69	0.37	16.3	1.28	2.6	0.23	3.3	0.13	1.8
463178		782	22.9	10	0.12	1.68	0.91	0.46	16.4	1.83	2.4	0.30	10.7	0.16	4.9
463179		2190	13.3	10	0.37	1.95	1.17	0.45	16.4	1.96	2.5	0.42	5.4	0.21	2.9
463199		833	20.1	10	0.36	2.03	1.26	0.42	16.4	2.22	2.8	0.43	8.6	0.25	2.2
463207		806	16.0	30	0.25	1.84	0.96	0.52	17.8	1.73	2.5	0.36	6.8	0.19	1.9
463218		696	17.5	20	0.59	1.67	1.06	0.54	17.2	1.77	2.2	0.36	7.2	0.16	1.9



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Page: 2 - B
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 14-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17019593

Sample Description	Method Analyte Units LOR	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03	ME-MS81 Zr ppm 2
459855		1.96	8.4	1.87	1	418	0.1	0.26	0.91	0.14	0.63	32	1	9.0	1.13	72
459869		2.80	9.4	1.94	<1	318	0.1	0.21	0.97	0.10	0.46	33	1	6.0	0.81	74
459882		1.95	11.1	1.70	<1	317	0.1	0.25	0.70	0.13	0.33	34	1	7.5	1.11	81
459897		1.81	23.9	1.48	2	249	0.1	0.20	0.61	0.10	0.73	38	3	6.3	0.74	80
459909		2.62	13.4	1.56	<1	290	0.1	0.18	0.89	0.10	0.34	34	1	5.2	0.63	55
463149		1.95	20.7	1.98	1	422	0.1	0.28	0.64	0.19	0.58	37	1	10.1	1.29	81
463163		1.17	13.1	1.34	1	213	0.1	0.19	0.51	0.11	0.56	32	1	6.6	0.79	77
463178		3.18	7.6	2.14	1	269	0.2	0.26	1.30	0.15	0.30	33	1	7.9	1.00	69
463179		2.18	14.6	2.23	1	349	0.1	0.36	0.95	0.18	0.36	37	1	11.3	1.23	79
463199		2.77	14.8	2.27	<1	308	0.2	0.31	1.28	0.21	1.13	35	1	12.7	1.54	83
463207		2.25	13.8	1.86	1	339	0.2	0.30	0.97	0.17	0.80	37	1	11.0	1.20	79
463218		2.57	12.0	2.27	1	330	0.1	0.28	0.81	0.16	0.50	37	1	8.8	1.03	75



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Page: 2 - C
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-FEB-2017
 Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17019593

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
459855		70.3	13.95	2.95	4.57	0.66	2.99	0.60	<0.01	0.22	0.13	0.06	0.05	0.09	1.74	98.31
459869		70.1	14.85	2.46	3.27	0.85	4.50	0.88	<0.01	0.22	0.17	0.07	0.04	0.08	1.71	99.20
459882		71.3	15.20	2.82	3.24	0.92	4.69	0.96	<0.01	0.25	0.09	0.07	0.04	0.08	1.55	101.21
459897		67.0	15.30	4.35	2.13	0.98	2.76	2.03	<0.01	0.26	0.13	0.09	0.03	0.09	3.18	98.33
459909		69.6	15.10	2.73	3.16	0.91	4.55	1.09	<0.01	0.25	0.08	0.09	0.04	0.08	2.33	100.01
463149		68.6	13.90	3.12	4.25	0.61	2.35	1.57	<0.01	0.24	0.23	0.08	0.05	0.17	5.19	100.36
463163		70.8	14.55	2.49	2.58	0.82	4.90	1.03	<0.01	0.23	0.14	0.07	0.03	0.09	3.16	100.89
463178		71.7	14.80	2.61	2.50	0.83	4.72	0.60	<0.01	0.25	0.13	0.08	0.03	0.09	2.43	100.77
463179		71.0	14.15	3.25	3.68	0.85	2.50	1.15	<0.01	0.23	0.16	0.08	0.05	0.26	3.25	100.61
463199		72.3	14.70	2.55	3.02	0.83	4.81	1.27	<0.01	0.24	0.10	0.07	0.03	0.10	1.72	101.74
463207		71.8	14.70	2.60	3.05	0.84	4.64	1.12	<0.01	0.23	0.15	0.07	0.04	0.09	1.76	101.09
463218		71.4	15.05	2.67	3.15	0.93	4.65	0.99	<0.01	0.25	0.11	0.08	0.04	0.08	2.09	101.49



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Page: 2 - D
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-FEB-2017
 Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17019593

Sample Description	Method Analyte Units LOR	ME-MS81 TI ppm 0.5
459855		<0.5
459869		<0.5
459882		<0.5
459897		<0.5
459909		<0.5
463149		<0.5
463163		<0.5
463178		<0.5
463179		<0.5
463199		<0.5
463207		<0.5
463218		<0.5



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 14-FEB-2017
Account: GIBMIN

Project: SGM2016-27

CERTIFICATE OF ANALYSIS KL17019593

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02
TOT-ICP06

ME-ICP06

ME-MS81

OA-GRA05



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Page: 1
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 14-FEB-2017
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CERTIFICATE KL17022016

Project: SGM2016-28

P.O. No.: S0218733

This report is for 154 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 6-FEB-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Mo-OG46	Ore Grade Mo - Aqua Regia	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **GIBRALTAR MINES LTD.**
ATTN: ALS MINERALS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 14-FEB-2017
Account: GIBMIN

Project: SGM2016-28

CERTIFICATE OF ANALYSIS KL17022016

Sample Description	Method Analyte Units LOR	WEI-21	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
		Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
464685		3.64	0.13	1.55	1.3	<0.2	10	100	0.15	0.09	0.68	2.60	6.32	11.1	4	0.07
464686		7.25	0.09	1.51	2.2	<0.2	10	90	0.16	0.02	0.60	0.48	7.71	11.3	4	0.16
464687		7.06	0.07	1.50	1.1	<0.2	10	100	0.15	0.03	1.33	0.93	5.98	13.9	4	0.07
464688		7.44	0.37	1.57	2.0	<0.2	10	110	0.13	0.03	1.41	2.18	5.35	11.9	5	0.06
464689		6.75	0.16	1.66	5.2	<0.2	10	90	0.15	0.05	0.75	3.35	8.12	11.4	4	0.05
464690		0.04	2.86	1.76	30.5	0.3	10	70	0.40	1.04	0.85	2.38	10.25	11.7	30	3.84
464691		7.29	0.13	1.66	2.0	<0.2	<10	80	0.14	0.02	0.99	0.43	7.50	12.0	4	<0.05
464692		7.87	0.12	1.65	1.8	<0.2	<10	70	0.15	0.05	1.11	1.23	6.05	10.8	4	<0.05
464693		6.71	0.19	2.05	4.4	<0.2	<10	70	0.10	0.22	0.41	14.05	5.90	10.9	3	0.08
464694		7.11	1.66	2.14	2.1	<0.2	<10	60	0.13	0.27	0.49	2.59	4.13	11.8	5	0.09
464695		6.51	0.11	1.71	0.5	<0.2	<10	70	0.14	0.04	1.04	0.28	6.17	11.5	5	<0.05
464696		8.09	0.20	1.54	0.3	<0.2	<10	70	0.14	0.04	0.78	0.08	7.06	11.1	4	<0.05
464697		6.55	0.55	1.67	0.3	<0.2	<10	80	0.13	0.24	0.35	0.31	7.15	11.7	5	0.07
464698		6.84	1.35	1.52	0.3	<0.2	<10	60	0.11	0.20	0.31	4.24	5.95	10.4	6	0.06
464699		3.73	0.29	1.71	0.3	<0.2	<10	70	0.20	0.03	0.82	0.03	7.36	11.7	5	<0.05
464700		<0.02	0.25	1.62	0.3	<0.2	<10	60	0.15	0.03	0.72	0.03	6.80	12.5	6	<0.05
464701		3.84	0.65	1.77	0.3	<0.2	<10	70	0.16	0.05	0.83	0.09	7.01	13.6	4	0.06
464702		7.91	0.97	1.60	0.4	<0.2	<10	70	0.15	0.11	0.68	2.04	6.18	12.9	4	0.07
464703		8.22	1.59	1.58	0.5	<0.2	<10	80	0.10	0.11	0.71	1.12	5.57	12.9	4	0.05
464704		7.13	0.38	1.63	0.5	<0.2	<10	70	0.11	0.06	0.64	0.21	7.27	11.3	5	<0.05
464705		8.21	3.89	1.59	0.9	<0.2	<10	60	0.09	0.13	0.33	1.84	7.06	13.1	4	0.06
464706		7.49	1.97	1.79	0.8	<0.2	<10	60	0.11	0.11	0.41	3.54	6.15	15.6	5	0.07
464707		7.81	4.31	1.80	1.0	0.2	<10	70	0.09	0.19	0.17	3.97	5.62	27.9	4	0.10
464708		7.58	0.50	1.79	0.3	<0.2	<10	60	0.07	0.11	0.36	1.08	7.90	11.5	3	0.07
464709		7.94	2.57	1.97	0.6	<0.2	<10	50	0.09	0.21	0.34	1.03	6.74	11.5	4	0.07
464710		0.03	0.10	1.54	4.5	<0.2	10	110	0.22	0.06	1.18	0.15	11.75	8.7	36	0.38
464711		3.98	0.08	1.76	0.3	<0.2	<10	60	0.11	0.08	0.94	0.86	6.44	10.4	4	0.05
464712		3.37	0.05	1.68	0.3	<0.2	<10	60	0.11	0.01	0.63	0.04	8.66	10.3	4	<0.05
464713		8.00	0.18	1.64	0.2	<0.2	<10	60	0.10	0.01	1.12	0.08	7.14	10.4	5	<0.05
464714		7.72	0.28	1.75	0.3	<0.2	<10	50	0.11	0.03	0.77	0.26	9.35	10.9	3	0.07
464715		7.15	0.12	1.89	0.5	<0.2	<10	60	0.09	0.03	1.79	0.17	8.78	8.8	5	0.06
464716		7.64	0.05	1.65	1.2	<0.2	<10	70	0.10	0.02	0.61	1.46	7.26	9.4	7	<0.05
464717		7.42	0.05	1.60	0.6	<0.2	<10	80	0.11	0.02	0.84	0.03	8.33	9.0	6	<0.05
464718		7.86	0.05	1.37	0.8	<0.2	<10	80	0.08	0.03	0.91	0.75	6.92	8.0	7	<0.05
464719		7.75	2.36	1.62	0.8	<0.2	<10	60	0.08	0.07	0.72	3.00	5.19	8.4	6	<0.05
464720		<0.02	2.44	1.63	0.7	<0.2	<10	60	0.10	0.07	0.72	3.15	5.15	8.2	6	0.05
464721		3.72	0.87	1.57	0.6	<0.2	10	60	0.09	0.07	0.80	2.10	5.27	13.4	5	<0.05
464722		3.23	0.07	1.47	0.3	<0.2	10	70	0.10	0.02	0.75	0.65	5.02	11.0	7	<0.05
464723		7.57	0.06	1.18	3.2	<0.2	<10	80	0.09	0.04	0.92	1.55	6.13	7.3	7	0.05
464724		7.38	0.64	1.42	5.8	<0.2	<10	50	0.08	0.13	0.80	5.12	5.46	7.4	6	0.05



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Page: 2 - B
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Plus Appendix Pages
Finalized Date: 14-FEB-2017
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CERTIFICATE OF ANALYSIS KL17022016

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
464685		59.7	2.21	3.73	0.06	0.07	0.01	0.146	0.14	2.3	7.3	1.09	911	1.27	0.04
464686		53.2	2.00	4.01	0.05	0.08	<0.01	0.017	0.15	2.9	8.1	1.09	805	1.32	0.04
464687		59.2	2.19	4.00	0.05	0.06	<0.01	0.025	0.13	2.2	7.0	1.02	1140	1.51	0.04
464688		205	2.55	3.98	<0.05	0.05	0.01	0.090	0.16	2.2	7.0	1.01	1330	2.54	0.03
464689		128.0	2.66	4.11	0.05	0.07	0.02	0.131	0.13	3.1	8.4	1.03	1160	1.19	0.04
464690		2510	4.53	5.03	0.06	0.03	0.05	0.145	0.31	5.1	23.0	0.59	770	230	0.06
464691		88.1	2.21	4.15	<0.05	0.07	<0.01	0.022	0.08	2.9	8.4	1.12	969	1.02	0.04
464692		66.3	2.38	4.08	0.05	0.06	0.01	0.051	0.09	2.3	9.2	1.09	1140	0.79	0.04
464693		138.0	3.74	5.56	<0.05	<0.02	0.19	1.315	0.17	2.5	10.1	1.13	1380	1.97	0.03
464694		1615	4.22	6.16	<0.05	0.03	0.07	0.543	0.17	1.6	11.2	1.28	1460	34.2	0.03
464695		123.5	2.32	4.25	<0.05	0.07	<0.01	0.021	0.11	2.4	8.4	1.18	1080	9.49	0.05
464696		209	1.96	4.45	<0.05	0.07	<0.01	0.012	0.10	2.8	7.9	1.13	760	57.2	0.05
464697		465	2.85	4.88	<0.05	0.04	<0.01	0.041	0.18	2.8	8.9	1.10	898	12.20	0.04
464698		1060	2.56	4.79	<0.05	0.04	0.03	0.233	0.15	2.2	8.0	1.04	976	30.2	0.04
464699		232	2.00	4.73	<0.05	0.07	<0.01	0.017	0.11	2.8	7.3	1.26	566	59.1	0.05
464700		226	1.89	4.31	<0.05	0.07	<0.01	0.015	0.10	2.6	7.4	1.25	537	72.8	0.04
464701		549	2.57	4.84	<0.05	0.07	<0.01	0.018	0.14	2.7	8.7	1.30	988	52.6	0.05
464702		771	2.60	4.66	<0.05	0.05	0.01	0.112	0.16	2.4	8.1	1.19	999	41.9	0.04
464703		1360	2.86	4.17	<0.05	0.04	<0.01	0.146	0.16	2.1	7.0	1.14	1080	80.7	0.03
464704		386	2.36	4.36	<0.05	0.05	<0.01	0.029	0.13	2.6	7.3	1.15	795	1.08	0.05
464705		4630	3.27	4.59	<0.05	0.03	0.01	0.151	0.19	2.6	6.7	1.03	857	1.85	0.03
464706		2470	3.32	4.95	<0.05	0.03	0.01	0.466	0.21	2.3	7.1	1.09	1180	1.77	0.03
464707		5970	4.45	5.21	<0.05	<0.02	0.01	0.179	0.23	2.2	6.8	1.06	1380	0.60	0.02
464708		708	3.10	5.25	<0.05	<0.02	<0.01	0.038	0.18	3.0	8.4	1.04	1350	8.56	0.03
464709		3750	4.03	6.24	<0.05	<0.02	<0.01	0.288	0.18	2.6	10.2	1.16	1400	1.63	0.03
464710		52.6	2.91	5.17	0.08	0.26	0.02	0.021	0.11	5.2	9.2	0.75	482	5.57	0.09
464711		99.8	2.42	4.55	<0.05	0.04	<0.01	0.043	0.12	2.3	8.5	1.18	1060	5.07	0.04
464712		47.5	2.14	4.82	<0.05	0.04	<0.01	0.011	0.11	3.2	8.2	1.18	908	0.51	0.04
464713		205	2.06	4.67	<0.05	0.04	<0.01	0.010	0.09	2.6	8.4	1.26	694	0.43	0.04
464714		312	2.74	5.10	<0.05	0.02	<0.01	0.028	0.12	3.4	8.5	1.20	1660	0.34	0.04
464715		97.4	2.95	6.24	<0.05	0.02	<0.01	0.035	0.11	3.1	9.7	1.34	1440	0.96	0.04
464716		35.2	2.26	4.68	<0.05	0.06	0.01	0.099	0.10	2.5	8.0	1.19	937	0.91	0.05
464717		24.0	1.93	4.81	<0.05	0.05	<0.01	0.008	0.09	3.0	7.6	1.23	686	0.75	0.06
464718		35.8	2.02	4.17	<0.05	0.03	<0.01	0.041	0.12	2.4	6.4	0.88	991	1.17	0.05
464719		2280	2.83	5.30	<0.05	<0.02	0.03	0.341	0.13	1.8	5.9	1.00	1170	1.73	0.03
464720		2220	2.81	5.36	<0.05	<0.02	0.03	0.350	0.13	1.8	5.9	1.00	1170	1.96	0.04
464721		964	2.79	3.77	0.05	0.03	0.03	0.123	0.09	1.9	6.8	1.24	947	4.00	0.04
464722		63.8	1.88	3.60	<0.05	0.04	0.01	0.022	0.07	1.8	6.0	1.17	625	1.17	0.05
464723		26.9	1.76	3.06	<0.05	0.03	0.01	0.027	0.10	2.1	4.5	0.76	771	0.90	0.05
464724		695	2.66	3.55	<0.05	0.02	0.04	0.369	0.12	2.0	5.5	0.82	1020	3.87	0.03



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Page: 2 - C
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 14-FEB-2017
Account: GIBMIN

Project: SGM2016-28

CERTIFICATE OF ANALYSIS KL17022016

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
464685		5.6	490	1.1	2.3	<0.001	0.23	0.22	1.5	0.2	0.4	35.6	<0.01	0.13	0.7
464686		5.2	500	0.7	3.2	<0.001	0.09	0.16	1.4	0.2	0.3	41.6	<0.01	0.03	0.9
464687		5.5	480	0.6	2.1	0.001	0.20	0.13	1.5	0.2	0.2	47.3	<0.01	0.07	0.9
464688		5.6	480	0.8	2.3	<0.001	0.41	0.10	1.4	0.3	0.2	41.5	<0.01	0.10	1.0
464689		5.1	490	1.0	1.7	<0.001	0.53	0.14	1.5	0.2	0.3	36.2	<0.01	0.13	1.1
464690		21.5	730	76.0	15.1	0.215	2.28	1.75	2.7	4.7	0.7	55.9	<0.01	0.71	3.4
464691		5.3	480	0.7	1.2	<0.001	0.14	0.13	1.5	0.2	0.2	52.9	<0.01	0.04	1.0
464692		5.2	460	0.7	1.3	<0.001	0.26	0.11	1.4	0.2	0.3	45.2	<0.01	0.09	0.9
464693		5.5	420	0.7	2.4	<0.001	0.92	<0.05	1.5	0.3	0.3	22.0	<0.01	0.20	1.2
464694		5.9	450	0.5	2.4	0.008	1.28	<0.05	1.6	0.5	0.3	21.7	<0.01	0.52	0.6
464695		5.9	500	0.6	1.8	0.002	0.32	0.09	1.7	0.3	0.3	47.5	<0.01	0.06	0.7
464696		6.0	500	0.6	1.9	0.010	0.22	0.07	1.7	0.3	0.3	51.0	<0.01	0.04	1.0
464697		6.0	500	0.6	3.0	0.002	0.86	<0.05	1.5	0.3	0.3	32.2	<0.01	0.21	0.9
464698		5.4	400	0.6	2.7	0.005	0.71	0.07	1.6	0.2	0.3	29.9	<0.01	0.27	0.6
464699		6.1	460	0.7	2.1	0.011	0.13	0.13	2.1	0.3	0.3	67.1	<0.01	0.02	0.7
464700		5.9	470	0.6	1.9	0.013	0.15	0.14	1.9	0.3	0.3	56.7	<0.01	0.03	0.7
464701		7.4	500	0.6	2.7	0.009	0.52	0.07	1.9	0.3	0.3	47.9	<0.01	0.08	0.9
464702		5.7	490	0.5	3.1	0.005	0.83	0.07	1.5	0.3	0.3	38.4	<0.01	0.17	0.8
464703		5.3	470	0.5	2.8	0.009	1.08	0.05	1.3	0.3	0.3	35.6	<0.01	0.27	0.7
464704		5.3	500	0.5	2.2	<0.001	0.44	0.07	1.5	0.3	0.3	41.6	<0.01	0.05	0.7
464705		5.1	510	0.4	3.1	0.001	1.54	0.08	1.2	0.6	0.4	24.4	<0.01	0.15	0.7
464706		4.9	500	0.4	3.5	<0.001	1.07	<0.05	1.2	0.2	0.2	25.4	<0.01	0.11	0.5
464707		4.8	500	0.3	3.9	<0.001	2.20	<0.05	1.0	0.7	0.3	10.6	<0.01	0.35	0.7
464708		4.9	510	0.5	3.1	0.001	0.67	<0.05	1.4	0.3	0.2	23.0	<0.01	0.07	0.7
464709		5.1	530	0.6	2.8	0.001	1.52	<0.05	1.7	0.2	0.4	18.1	<0.01	0.27	0.8
464710		30.6	570	3.6	4.0	0.002	0.06	0.52	4.6	0.6	1.1	47.9	<0.01	0.02	1.2
464711		4.9	480	0.7	1.9	0.001	0.25	0.07	1.5	0.3	0.2	50.7	<0.01	0.04	0.6
464712		5.2	450	0.7	1.9	<0.001	0.03	0.07	2.1	0.4	0.2	51.3	<0.01	0.02	0.9
464713		5.3	480	0.5	1.7	<0.001	0.05	0.05	1.6	0.2	0.2	54.3	<0.01	0.01	0.5
464714		5.3	480	0.6	2.0	<0.001	0.25	<0.05	2.1	0.5	0.2	38.7	<0.01	0.02	0.6
464715		4.9	460	0.6	1.7	<0.001	0.21	<0.05	2.0	0.3	0.2	61.3	<0.01	0.04	0.4
464716		4.8	420	0.6	1.5	<0.001	0.22	0.06	1.4	0.2	0.2	35.2	<0.01	0.04	0.4
464717		5.0	410	0.6	1.5	<0.001	0.03	0.06	1.4	0.2	0.2	44.1	<0.01	0.02	0.5
464718		4.4	380	0.5	1.9	<0.001	0.23	<0.05	1.2	0.3	0.2	36.4	<0.01	0.03	0.4
464719		4.3	390	0.4	1.9	<0.001	0.61	<0.05	1.1	0.3	0.2	27.1	<0.01	0.11	0.4
464720		4.4	390	0.4	2.0	<0.001	0.60	<0.05	1.2	0.2	0.2	28.5	<0.01	0.11	0.4
464721		5.4	610	0.8	1.4	0.001	0.94	0.13	1.1	<0.2	<0.2	31.8	<0.01	0.20	0.3
464722		5.2	520	0.5	1.2	<0.001	0.12	0.10	1.0	0.4	<0.2	43.5	<0.01	0.02	0.3
464723		3.9	390	0.5	1.5	<0.001	0.24	0.13	1.0	0.2	<0.2	37.2	<0.01	0.09	0.5
464724		3.8	370	0.6	1.6	0.001	0.80	0.13	1.1	<0.2	0.2	25.1	<0.01	0.13	0.6



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Page: 2 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-FEB-2017
 Account: GIBMIN

Project: SGM2016-28

CERTIFICATE OF ANALYSIS KL17022016

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46	Mo-OG46	Au-AA23
		TI	U	V	W	Y	Zn	Zr	Cu	Mo	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001	0.005
464685		0.02	0.29	20	<0.05	4.74	1160	0.9			
464686		0.02	0.59	22	<0.05	5.38	264	0.9			
464687		<0.02	0.42	21	<0.05	4.71	504	0.7			
464688		<0.02	0.31	19	0.05	3.89	1140	0.6			
464689		<0.02	0.79	21	<0.05	5.45	1790	0.8			
464690		0.27	0.70	32	1.46	4.99	445	0.9	0.247	0.028	0.311
464691		<0.02	0.40	23	<0.05	4.80	291	0.8			
464692		<0.02	0.38	22	0.06	4.42	679	0.7			
464693		<0.02	0.28	21	0.15	2.98	5790	<0.5			
464694		<0.02	0.38	24	0.12	3.30	1370	<0.5	0.165		
464695		<0.02	0.33	24	0.05	4.64	270	0.8			
464696		<0.02	0.46	24	<0.05	4.76	135	0.8			
464697		<0.02	0.36	20	<0.05	4.47	348	0.5			
464698		<0.02	0.33	23	<0.05	4.51	1920	<0.5			
464699		<0.02	0.31	27	<0.05	5.85	70	0.8			
464700		<0.02	0.28	25	<0.05	5.50	69	0.7			
464701		0.02	0.39	25	<0.05	5.38	130	0.8			
464702		0.02	0.38	23	<0.05	4.49	934	0.5			
464703		0.02	0.35	19	<0.05	4.84	588	0.5			
464704		<0.02	0.26	22	<0.05	5.59	279	0.5			
464705		<0.02	0.74	16	<0.05	5.06	794	<0.5	0.463		
464706		0.02	0.18	17	0.08	3.79	1820	<0.5	0.243		
464707		0.02	0.30	14	0.20	3.18	1720	<0.5	0.602		0.169
464708		0.02	0.30	20	0.08	4.64	731	<0.5			
464709		0.02	0.33	21	18.15	3.96	542	<0.5	0.381		
464710		0.06	0.32	63	0.49	7.90	43	8.5			
464711		<0.02	0.22	23	<0.05	5.54	507	<0.5			
464712		<0.02	0.37	22	<0.05	7.83	121	<0.5			
464713		<0.02	0.28	22	<0.05	5.44	73	<0.5			
464714		<0.02	0.55	23	<0.05	9.77	243	<0.5			
464715		<0.02	0.21	27	0.05	7.95	239	<0.5			
464716		<0.02	0.18	21	0.05	5.34	710	0.5			
464717		<0.02	0.26	22	<0.05	5.77	93	0.5			
464718		<0.02	0.19	16	<0.05	4.93	426	<0.5			
464719		<0.02	0.25	16	0.08	3.86	1220	<0.5	0.240		
464720		<0.02	0.24	16	0.08	3.96	1300	<0.5	0.231		
464721		<0.02	0.16	23	0.09	3.64	1040	<0.5			
464722		<0.02	0.14	21	0.06	3.55	375	<0.5			
464723		<0.02	0.26	11	0.05	4.94	854	<0.5			
464724		<0.02	0.29	12	0.08	4.57	2660	<0.5			



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Page: 3 - A
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 14-FEB-2017
Account: GIBMIN

Project: SGM2016-28

CERTIFICATE OF ANALYSIS KL17022016

Sample Description	Method Analyte Units LOR	WEI-21	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
		Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
464725		8.19	0.18	1.50	1.3	<0.2	<10	50	0.08	0.05	1.03	1.33	6.27	9.2	6	<0.05
464726		7.69	1.40	0.81	1.4	<0.2	<10	80	0.09	0.25	1.35	0.99	9.62	8.5	4	0.07
464727		6.80	0.02	0.45	0.3	<0.2	<10	100	0.09	0.01	0.92	0.02	7.13	2.6	5	<0.05
464728		7.40	0.02	0.85	0.3	<0.2	<10	90	0.08	0.01	0.71	0.01	8.58	4.9	5	0.06
464729		6.63	0.03	0.95	0.3	<0.2	<10	80	0.10	0.11	0.60	0.77	7.44	5.6	3	0.09
464730		0.06	0.72	1.99	16.2	0.2	10	380	0.44	1.57	0.99	0.09	59.3	14.4	83	9.58
464731		7.66	1.55	0.85	2.0	<0.2	<10	70	0.09	0.74	0.37	2.67	8.07	7.9	5	0.06
464732		4.08	0.03	0.89	0.6	<0.2	<10	70	0.07	0.07	0.59	0.02	5.73	5.8	5	<0.05
464733		3.04	0.01	0.94	0.4	<0.2	<10	100	0.08	0.02	0.82	0.04	3.81	5.3	6	<0.05
464734		7.99	0.30	0.55	0.7	<0.2	<10	130	0.09	0.33	0.62	0.46	7.30	4.5	4	<0.05
464735		8.15	0.43	0.39	0.7	<0.2	<10	80	0.09	0.35	0.93	0.13	12.20	2.8	5	0.07
464736		3.72	0.22	0.32	1.4	<0.2	<10	50	0.06	0.28	0.05	0.07	18.40	7.8	3	0.05
464737		3.25	0.29	0.44	3.3	<0.2	<10	80	0.09	0.18	0.12	0.84	15.95	2.5	4	0.09
464738		5.03	0.14	0.45	2.1	<0.2	<10	100	0.09	0.14	0.12	0.09	13.70	2.0	3	0.06
464739		6.85	8.31	0.33	7.3	<0.2	<10	70	0.10	1.14	0.13	2.11	13.40	6.7	3	0.07
464740		<0.02	7.87	0.36	6.9	0.2	<10	70	0.10	1.08	0.13	2.01	13.35	6.7	6	0.07
464741		2.79	0.38	0.49	1.3	<0.2	<10	100	0.12	0.16	1.23	0.16	15.05	3.0	3	0.23
464742		4.49	0.67	0.49	1.0	<0.2	<10	80	0.07	0.67	0.60	0.15	10.80	5.9	5	0.08
464743		7.50	2.16	0.48	1.5	<0.2	<10	100	0.08	0.57	0.73	0.69	7.20	4.5	6	<0.05
464744		7.68	5.74	0.51	0.9	<0.2	<10	80	0.07	1.67	0.36	0.79	6.53	4.4	5	<0.05
464745		1.02	0.06	0.31	0.1	<0.2	<10	20	0.40	0.22	0.33	0.04	100.0	0.7	3	0.44
464746		7.41	0.14	0.65	1.2	<0.2	<10	100	0.08	0.11	0.54	2.40	5.31	3.5	4	<0.05
464747		7.05	0.15	0.62	1.8	<0.2	<10	100	0.07	0.46	0.58	3.34	5.12	3.1	3	<0.05
464748		4.52	3.06	0.90	2.9	<0.2	<10	90	0.08	0.48	0.27	2.35	4.29	4.9	2	0.05
464749		2.63	0.02	0.66	0.7	<0.2	<10	80	0.05	0.02	0.83	0.19	3.77	3.1	4	<0.05
464750		0.04	0.63	1.66	6.2	0.6	10	100	0.24	0.11	0.86	0.17	8.59	10.2	31	0.42
464751		6.97	0.17	0.68	1.1	<0.2	<10	90	0.07	0.03	0.96	0.72	5.17	3.0	3	<0.05
464752		7.53	1.48	0.91	1.1	<0.2	<10	110	0.09	0.06	0.56	1.74	6.21	4.4	3	<0.05
464753		7.38	0.02	0.83	0.5	<0.2	<10	100	0.07	0.02	0.80	0.29	8.01	4.1	5	<0.05
464754		7.14	0.03	0.89	0.3	<0.2	<10	110	0.10	0.03	0.63	1.35	9.06	3.9	3	<0.05
464755		7.31	0.96	1.12	0.8	<0.2	<10	110	0.14	0.10	1.38	0.41	11.30	7.7	34	0.05
464756		7.54	0.03	0.85	0.8	<0.2	<10	170	0.09	0.05	0.95	1.56	7.77	5.3	3	<0.05
464757		7.79	0.43	1.17	1.6	<0.2	<10	110	0.08	0.10	0.75	3.88	8.28	4.8	2	0.08
464758		7.13	0.92	1.06	0.6	<0.2	<10	90	0.08	0.16	0.97	3.55	6.59	4.6	2	0.07
464759		7.63	0.55	0.83	0.3	<0.2	<10	90	0.08	0.08	1.25	1.38	7.06	4.3	2	0.08
464760		<0.02	0.56	0.81	0.3	<0.2	<10	90	0.07	0.08	1.24	1.29	7.12	4.3	2	0.09
464761		4.17	0.42	0.65	0.5	<0.2	<10	70	0.06	0.13	0.75	0.11	8.12	14.6	2	0.08
464762		3.22	0.09	0.85	0.3	<0.2	<10	80	0.07	0.02	0.52	0.78	8.35	3.7	3	<0.05
464763		7.58	0.36	0.64	0.3	<0.2	<10	80	<0.05	0.21	0.67	1.17	12.60	4.8	4	0.05
464764		7.32	0.03	0.67	0.7	<0.2	<10	100	0.13	0.05	0.80	0.29	14.55	3.5	3	0.16



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Page: 3 - B
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 14-FEB-2017
Account: GIBMIN

Project: SGM2016-28

CERTIFICATE OF ANALYSIS KL17022016

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
464725		153.0	2.49	4.00	<0.05	0.02	0.01	0.054	0.09	2.4	6.7	0.92	1090	0.56	0.05
464726		1455	2.39	2.62	<0.05	<0.02	0.02	0.134	0.15	3.5	3.4	0.43	987	0.67	0.04
464727		10.5	0.62	1.50	<0.05	0.02	<0.01	<0.005	0.11	2.4	1.5	0.21	436	2.25	0.06
464728		4.2	1.17	2.63	<0.05	0.03	<0.01	<0.005	0.13	2.5	3.2	0.51	390	0.68	0.05
464729		36.9	1.55	2.79	<0.05	0.03	0.01	0.041	0.15	2.5	3.1	0.53	810	0.38	0.05
464730		2600	4.02	8.06	0.18	0.37	0.01	0.182	1.06	29.5	32.5	1.20	360	90.2	0.16
464731		5040	3.33	2.48	<0.05	<0.02	0.03	0.384	0.22	2.8	2.7	0.43	636	3.07	0.02
464732		65.7	1.47	2.77	<0.05	0.02	0.01	0.006	0.13	1.8	3.2	0.52	574	2.54	0.06
464733		7.2	1.42	2.81	<0.05	0.02	<0.01	<0.005	0.12	1.3	3.5	0.59	717	0.98	0.06
464734		1050	1.53	1.59	<0.05	<0.02	0.01	0.043	0.18	3.0	1.6	0.23	478	0.44	0.04
464735		1335	1.31	1.30	<0.05	<0.02	<0.01	0.054	0.17	5.1	1.0	0.09	367	0.50	0.05
464736		779	4.90	0.86	<0.05	<0.02	<0.01	0.026	0.21	8.0	0.4	0.01	179	1.07	0.02
464737		864	1.11	1.41	<0.05	<0.02	0.01	0.133	0.18	6.6	1.1	0.11	198	0.39	0.05
464738		187.0	0.69	1.44	<0.05	<0.02	<0.01	0.032	0.18	5.8	1.0	0.11	160	0.36	0.05
464739		>10000	3.52	1.02	<0.05	<0.02	0.04	0.495	0.21	5.6	0.6	0.02	664	1.22	0.02
464740		>10000	3.56	1.11	<0.05	<0.02	0.04	0.503	0.22	5.6	0.6	0.02	697	1.40	0.02
464741		625	1.02	1.48	<0.05	<0.02	<0.01	0.057	0.18	6.3	1.3	0.15	636	0.35	0.05
464742		1345	1.88	1.38	<0.05	<0.02	<0.01	0.155	0.22	4.5	1.0	0.13	397	0.50	0.03
464743		4400	2.52	1.45	<0.05	<0.02	0.01	0.230	0.17	2.9	1.2	0.18	416	0.63	0.04
464744		>10000	3.27	1.49	<0.05	<0.02	0.03	0.252	0.19	2.6	1.2	0.18	352	0.68	0.04
464745		18.5	0.92	2.47	0.09	0.23	<0.01	0.018	0.17	55.3	6.4	0.09	239	0.87	0.07
464746		207	1.26	1.82	<0.05	<0.02	0.01	0.164	0.18	2.0	1.5	0.26	452	0.33	0.05
464747		96.1	1.20	1.90	<0.05	<0.02	0.02	0.339	0.16	2.0	1.7	0.24	461	0.49	0.05
464748		2690	2.93	2.90	<0.05	<0.02	0.02	0.607	0.22	1.7	1.8	0.33	647	0.93	0.03
464749		10.1	0.94	2.07	<0.05	<0.02	<0.01	<0.005	0.10	1.4	2.1	0.30	479	0.13	0.06
464750		4560	3.58	5.16	0.08	0.22	0.03	0.049	0.14	4.0	11.0	0.79	443	203	0.10
464751		136.5	1.06	2.13	<0.05	<0.02	<0.01	0.046	0.13	2.0	2.0	0.29	608	0.60	0.05
464752		1100	1.97	2.95	<0.05	<0.02	0.02	0.360	0.17	2.3	2.2	0.39	668	0.65	0.04
464753		7.3	1.22	2.67	<0.05	0.02	<0.01	0.014	0.10	2.8	2.9	0.45	604	0.20	0.05
464754		11.9	1.26	2.73	<0.05	0.02	0.01	0.075	0.11	3.0	3.3	0.47	578	0.32	0.05
464755		980	2.15	3.57	<0.05	<0.02	<0.01	0.189	0.14	4.3	4.8	0.71	1050	0.37	0.05
464756		15.3	1.35	2.73	<0.05	0.02	<0.01	0.053	0.10	2.9	3.2	0.41	652	2.87	0.05
464757		365	2.45	3.76	<0.05	<0.02	0.01	0.446	0.14	3.3	3.1	0.50	918	0.46	0.04
464758		1050	2.16	3.40	<0.05	<0.02	0.03	0.548	0.16	2.6	3.4	0.51	879	0.33	0.04
464759		811	1.53	2.60	<0.05	<0.02	0.01	0.271	0.16	2.9	2.7	0.41	860	0.27	0.04
464760		833	1.52	2.52	<0.05	<0.02	0.01	0.281	0.16	2.9	2.7	0.40	873	0.38	0.04
464761		1330	2.66	1.87	<0.05	<0.02	<0.01	0.067	0.20	3.3	1.8	0.27	413	0.44	0.04
464762		193.5	1.25	2.48	<0.05	0.03	<0.01	0.039	0.11	2.9	2.6	0.41	459	0.26	0.05
464763		826	2.02	1.96	<0.05	0.02	0.01	0.144	0.15	5.1	2.0	0.27	549	0.40	0.05
464764		42.6	1.46	2.11	<0.05	0.02	<0.01	0.031	0.16	5.2	1.7	0.28	1710	0.09	0.04



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Page: 3 - C
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 14-FEB-2017
Account: GIBMIN

Project: SGM2016-28

CERTIFICATE OF ANALYSIS KL17022016

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
464725		4.4	420	0.5	1.2	<0.001	0.37	0.06	1.2	<0.2	<0.2	34.7	<0.01	0.06	0.5
464726		2.5	310	0.5	2.2	<0.001	1.44	0.05	0.8	0.2	0.2	39.3	<0.01	0.25	0.9
464727		1.3	150	0.5	1.8	<0.001	0.06	0.05	0.5	<0.2	<0.2	31.7	<0.01	0.02	1.5
464728		2.5	330	0.7	2.2	<0.001	0.03	0.05	0.9	<0.2	<0.2	37.9	<0.01	0.01	0.6
464729		2.7	350	0.8	2.2	<0.001	0.30	0.05	1.0	<0.2	0.2	32.6	<0.01	0.04	0.6
464730		38.9	1000	8.4	122.0	0.003	0.37	0.46	7.0	3.1	4.5	57.3	<0.01	0.08	16.5
464731		3.0	370	0.4	3.2	<0.001	2.56	0.05	0.6	0.3	0.4	11.9	<0.01	0.79	0.5
464732		2.6	330	0.4	1.8	<0.001	0.33	0.05	0.7	<0.2	<0.2	30.7	<0.01	0.06	0.3
464733		2.7	340	0.5	1.7	<0.001	0.16	<0.05	1.0	<0.2	<0.2	30.8	<0.01	0.03	0.3
464734		1.6	230	0.6	2.5	<0.001	1.05	0.05	0.5	<0.2	0.2	16.4	<0.01	0.19	0.8
464735		1.1	220	1.1	2.6	<0.001	1.01	0.06	0.6	0.2	0.2	30.6	<0.01	0.17	1.5
464736		1.2	140	0.7	2.5	<0.001	5.64	<0.05	0.2	0.8	0.2	4.1	<0.01	0.25	1.6
464737		1.3	190	1.4	2.5	<0.001	0.66	0.06	0.4	0.2	0.2	14.7	<0.01	0.07	2.5
464738		1.2	220	1.3	2.7	<0.001	0.18	0.05	0.4	<0.2	<0.2	14.4	<0.01	0.03	2.0
464739		1.7	230	1.7	2.8	<0.001	3.49	0.17	0.4	0.6	0.6	8.9	<0.01	1.87	1.3
464740		1.8	230	1.7	3.0	<0.001	3.50	0.16	0.4	0.4	0.6	9.1	<0.01	1.71	1.2
464741		1.4	230	1.9	2.8	<0.001	0.41	0.05	0.6	<0.2	<0.2	40.3	<0.01	0.14	1.2
464742		1.5	300	0.9	3.2	<0.001	1.67	<0.05	0.5	<0.2	0.2	17.0	<0.01	0.61	1.1
464743		1.6	250	1.2	2.4	<0.001	2.31	0.07	0.5	0.3	0.5	20.6	<0.01	0.69	1.0
464744		1.5	250	0.8	2.6	<0.001	3.00	0.05	0.4	0.3	1.7	13.9	<0.01	1.84	0.7
464745		0.7	120	5.4	10.2	<0.001	0.02	<0.05	0.8	0.6	0.6	13.1	<0.01	<0.01	26.2
464746		1.5	260	0.7	2.4	<0.001	0.60	0.05	0.5	<0.2	<0.2	19.8	<0.01	0.10	0.6
464747		1.4	240	0.9	2.2	<0.001	0.54	0.05	0.5	0.2	<0.2	19.5	<0.01	0.35	1.1
464748		1.5	240	0.9	3.1	<0.001	1.70	0.05	0.6	0.3	0.3	9.9	<0.01	0.59	1.1
464749		1.6	240	0.6	1.4	<0.001	0.10	0.06	0.5	<0.2	<0.2	24.3	<0.01	0.02	0.5
464750		30.9	560	3.7	5.0	0.100	0.64	0.76	5.1	0.9	1.4	38.2	<0.01	0.05	0.9
464751		1.6	240	0.7	1.8	<0.001	0.19	0.06	0.5	<0.2	<0.2	23.2	<0.01	0.03	1.0
464752		2.2	260	0.6	2.4	<0.001	0.69	0.05	0.6	<0.2	0.2	18.7	<0.01	0.12	1.1
464753		2.4	300	0.7	1.4	<0.001	0.08	<0.05	0.9	<0.2	<0.2	32.2	<0.01	0.01	0.7
464754		2.3	280	0.6	1.7	<0.001	0.15	0.05	0.8	<0.2	0.2	31.0	<0.01	0.03	1.0
464755		11.8	400	0.8	2.3	0.001	0.66	<0.05	2.1	0.3	0.2	44.1	<0.01	0.15	1.1
464756		1.8	330	0.8	1.6	0.001	0.32	0.07	0.8	<0.2	<0.2	37.0	<0.01	0.07	1.0
464757		2.1	340	1.0	2.1	<0.001	0.74	0.08	0.9	0.2	0.3	24.7	<0.01	0.08	0.8
464758		1.8	350	0.6	2.4	<0.001	0.76	0.05	0.8	<0.2	0.3	25.5	<0.01	0.11	0.7
464759		1.5	340	0.6	2.4	<0.001	0.57	0.05	0.7	0.2	0.2	31.0	<0.01	0.10	0.9
464760		1.5	340	0.6	2.4	<0.001	0.56	0.05	0.7	<0.2	0.2	31.0	<0.01	0.08	0.8
464761		1.6	320	0.8	2.8	<0.001	2.34	0.05	0.5	0.4	0.2	22.2	<0.01	0.20	1.0
464762		1.6	330	0.7	1.5	<0.001	0.23	0.09	0.7	0.2	0.2	32.2	<0.01	0.04	0.9
464763		1.5	260	0.7	2.0	<0.001	1.55	0.06	0.5	0.3	0.2	26.6	<0.01	0.23	1.2
464764		1.4	310	1.3	2.5	<0.001	0.10	0.08	1.4	0.5	0.2	41.7	<0.01	0.03	1.0



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Page: 3 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-FEB-2017
 Account: GIBMIN

Project: SGM2016-28

CERTIFICATE OF ANALYSIS KL17022016

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
464725		<0.02	0.22	17	0.07	4.67	732	<0.5			
464726		0.02	1.33	7	0.06	6.94	345	<0.5			
464727		<0.02	0.46	4	<0.05	5.04	15	<0.5			
464728		<0.02	0.29	8	<0.05	7.40	36	<0.5			
464729		<0.02	0.16	9	<0.05	6.15	437	<0.5			
464730		0.64	4.73	108	2.14	16.40	77	9.8	0.254		0.245
464731		0.02	0.77	6	0.09	6.07	1230	<0.5	0.481		
464732		<0.02	0.13	7	0.05	4.37	84	<0.5			
464733		<0.02	0.09	8	<0.05	3.70	126	<0.5			
464734		<0.02	0.46	3	<0.05	4.13	244	<0.5			
464735		<0.02	0.83	3	0.06	6.92	69	<0.5			
464736		<0.02	1.54	1	0.19	6.25	31	<0.5			
464737		<0.02	1.03	4	0.10	6.01	393	<0.5			
464738		<0.02	0.69	3	0.05	5.00	62	<0.5			
464739		0.02	2.74	1	0.21	7.33	762	<0.5	1.315		
464740		0.02	2.40	1	0.18	7.54	742	<0.5	1.320		0.061
464741		0.02	1.36	2	0.09	6.26	82	<0.5			
464742		0.02	1.07	2	0.06	5.11	63	<0.5			
464743		<0.02	0.50	3	<0.05	5.58	310	<0.5	0.434		
464744		0.02	1.55	3	<0.05	5.22	393	<0.5	1.580		
464745		0.06	3.21	8	0.28	14.10	19	5.6			
464746		<0.02	0.48	4	<0.05	4.61	1100	<0.5			
464747		<0.02	1.28	3	<0.05	4.42	1540	<0.5			
464748		0.02	1.30	3	0.14	4.42	1060	<0.5	0.277		
464749		<0.02	0.37	4	<0.05	3.96	131	<0.5			
464750		0.07	0.39	61	0.36	7.12	46	6.2	0.468	0.023	0.606
464751		<0.02	0.51	3	<0.05	3.84	345	<0.5			
464752		<0.02	0.40	6	<0.05	4.08	822	<0.5			
464753		<0.02	0.23	8	<0.05	5.74	188	<0.5			
464754		<0.02	0.19	7	<0.05	6.12	629	<0.5			
464755		<0.02	0.47	13	0.06	9.02	244	<0.5			
464756		<0.02	0.28	6	<0.05	4.98	712	<0.5			
464757		<0.02	0.68	6	<0.05	5.23	1520	<0.5			
464758		<0.02	0.55	6	0.08	4.75	1460	<0.5			
464759		<0.02	0.32	5	<0.05	4.29	618	<0.5			
464760		<0.02	0.33	5	<0.05	4.33	590	<0.5			
464761		<0.02	0.41	4	<0.05	4.38	68	<0.5			
464762		<0.02	0.46	6	<0.05	6.20	349	<0.5			
464763		<0.02	0.50	5	<0.05	5.58	474	<0.5			
464764		<0.02	0.36	7	<0.05	22.0	209	<0.5			



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Page: 4 - A
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-FEB-2017
 Account: GIBMIN

Project: SGM2016-28

CERTIFICATE OF ANALYSIS KL17022016

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
464765		7.06	0.74	0.59	0.3	<0.2	<10	100	0.11	0.11	1.17	0.66	17.80	3.7	3	0.10
464766		6.63	0.02	0.67	0.2	<0.2	<10	140	0.09	0.01	1.05	0.12	8.84	3.1	4	0.10
464767		7.67	0.01	0.72	0.1	<0.2	<10	160	0.10	<0.01	0.62	0.01	8.67	3.7	6	0.36
464768		7.67	0.02	0.70	0.7	<0.2	<10	140	0.13	<0.01	0.50	0.01	8.68	4.0	8	0.30
464769		6.47	0.02	0.69	0.4	<0.2	<10	140	0.11	0.01	0.49	0.01	8.54	3.1	5	0.26
464770		0.02	0.50	2.14	15.5	<0.2	10	80	0.27	0.49	1.16	0.21	10.55	49.4	265	1.39
464771		6.92	<0.01	0.69	0.7	<0.2	<10	130	0.10	<0.01	0.53	0.01	9.84	3.6	8	0.24
464772		7.65	0.01	0.65	0.3	<0.2	<10	110	0.10	<0.01	0.56	0.01	7.10	3.3	6	0.13
464773		7.81	0.01	0.66	0.2	<0.2	<10	140	0.09	0.01	0.95	0.01	6.36	3.7	6	0.07
464774		3.68	0.01	0.68	0.1	<0.2	<10	120	0.09	<0.01	0.54	<0.01	6.15	3.7	6	<0.05
464775		3.93	0.01	0.70	0.1	<0.2	<10	110	0.10	<0.01	0.48	0.01	5.91	3.6	4	<0.05
464776		7.77	0.11	0.61	0.1	<0.2	<10	90	0.07	0.03	1.06	0.03	4.92	4.2	3	<0.05
464777		7.92	0.88	0.53	0.2	<0.2	<10	70	0.06	0.36	0.65	0.75	10.25	8.6	3	0.06
464778		8.50	0.91	0.35	1.1	<0.2	<10	30	<0.05	1.01	0.28	0.52	9.56	171.0	3	0.05
464779		<0.02	0.86	0.34	1.2	<0.2	<10	30	<0.05	0.99	0.28	0.53	9.66	175.5	3	0.05
464780		1.15	0.04	0.30	0.1	<0.2	<10	30	0.26	0.18	0.31	0.04	111.0	1.4	4	0.51
464781		7.63	0.01	0.43	0.1	<0.2	<10	100	0.05	0.02	1.06	0.04	8.21	1.8	5	<0.05
464782		6.90	0.03	0.38	0.5	<0.2	<10	130	0.07	0.01	0.53	0.13	5.84	1.9	5	0.10
464783		7.01	0.13	0.41	1.2	<0.2	<10	120	0.06	0.04	0.70	0.11	9.89	1.8	5	0.10
464784		6.76	0.02	0.53	0.5	<0.2	<10	120	0.07	0.01	0.55	0.27	6.12	2.4	5	0.19
464785		7.35	0.01	0.54	0.5	<0.2	<10	120	0.07	0.01	0.69	0.40	12.20	2.6	6	0.31
464786		3.61	0.01	0.52	0.4	<0.2	<10	100	0.08	0.01	0.58	0.03	9.27	2.1	3	0.48
464787		3.52	0.01	0.56	0.4	<0.2	<10	120	0.07	0.01	0.51	0.44	7.43	2.3	5	0.28
464788		6.86	0.04	0.58	0.8	<0.2	<10	110	0.08	0.02	0.47	0.26	5.42	2.9	4	0.28
464789		7.21	0.05	0.47	0.4	<0.2	<10	90	0.07	0.02	0.55	0.38	6.08	2.8	5	0.14
464790		0.04	0.97	1.51	5.6	0.3	<10	120	0.24	0.19	0.90	0.43	13.75	10.6	27	0.44
464791		7.43	0.11	0.47	0.3	<0.2	<10	110	0.07	0.01	0.69	0.09	5.08	2.7	6	0.19
464792		7.59	0.03	0.44	0.2	<0.2	<10	100	0.06	0.02	1.03	0.04	5.18	1.9	5	0.20
464793		7.35	0.10	0.48	0.3	<0.2	<10	100	0.11	0.02	1.00	0.04	3.17	2.7	5	0.25
464794		7.66	0.01	0.45	0.2	<0.2	<10	110	0.11	0.01	0.83	0.02	4.50	2.6	5	0.29
464795		7.30	0.04	0.38	0.4	<0.2	<10	90	0.08	0.02	0.60	0.17	6.80	3.4	5	0.14
464796		7.32	0.07	0.41	0.3	<0.2	<10	80	0.11	0.02	0.77	0.14	6.15	2.5	5	0.09
464797		6.77	0.02	1.19	<0.1	<0.2	<10	50	0.14	0.03	3.86	0.19	13.85	9.2	109	0.10
464798		3.82	0.01	0.61	0.1	<0.2	<10	60	0.10	0.03	0.93	0.60	3.89	3.4	5	0.06
464799		3.42	0.01	0.61	0.2	<0.2	<10	70	0.09	0.02	0.90	0.04	3.04	3.5	3	0.08
464800		<0.02	0.02	0.64	<0.1	<0.2	<10	70	0.12	0.02	0.91	0.04	3.18	3.7	4	0.09
464801		6.51	0.27	0.41	0.2	<0.2	<10	90	0.10	0.25	0.66	0.87	13.65	3.8	4	0.14
464802		6.49	0.43	0.28	0.1	<0.2	<10	70	0.10	0.11	0.69	0.20	24.1	1.8	3	0.13
464803		6.10	0.20	0.26	0.1	<0.2	<10	60	0.12	0.07	0.73	0.90	20.4	0.9	4	0.06
464804		6.79	0.39	0.30	0.1	<0.2	<10	60	0.11	0.11	0.75	0.17	20.4	2.0	4	0.07



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Page: 4 - B
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-FEB-2017
 Account: GIBMIN

Project: SGM2016-28

CERTIFICATE OF ANALYSIS KL17022016

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
464765		2040	1.65	1.89	<0.05	0.02	<0.01	0.067	0.16	7.2	1.4	0.25	1300	0.20	0.04
464766		39.5	1.06	2.33	<0.05	0.02	<0.01	0.009	0.16	3.4	1.9	0.33	440	0.25	0.05
464767		7.4	0.91	2.36	<0.05	0.04	<0.01	0.006	0.35	2.8	2.4	0.35	310	1.06	0.06
464768		6.8	0.87	2.36	<0.05	0.04	<0.01	0.006	0.36	2.9	2.3	0.29	238	0.55	0.07
464769		10.7	0.82	2.19	<0.05	0.03	<0.01	<0.005	0.40	3.1	2.3	0.27	208	0.36	0.06
464770		810	5.42	5.69	0.07	0.04	0.01	0.029	0.71	4.5	3.4	5.49	461	88.4	0.11
464771		1.8	0.92	2.39	<0.05	0.03	<0.01	<0.005	0.30	3.1	2.2	0.29	273	0.87	0.06
464772		2.1	0.81	2.18	<0.05	0.03	<0.01	0.005	0.19	2.4	1.9	0.29	271	1.05	0.06
464773		19.1	0.91	2.21	<0.05	0.02	<0.01	0.007	0.14	2.1	1.9	0.35	341	2.58	0.06
464774		3.2	0.76	2.10	<0.05	0.02	<0.01	<0.005	0.13	1.9	1.9	0.38	252	2.60	0.06
464775		6.7	0.76	2.12	<0.05	0.02	<0.01	<0.005	0.14	1.9	2.1	0.38	316	0.14	0.06
464776		168.5	0.96	1.93	<0.05	<0.02	<0.01	0.013	0.15	1.8	1.8	0.32	600	4.71	0.05
464777		1670	2.99	1.57	<0.05	<0.02	<0.01	0.075	0.21	4.2	1.2	0.19	437	3.74	0.03
464778		1500	12.35	0.86	<0.05	<0.02	<0.01	0.068	0.20	4.0	0.3	0.04	149	49.1	0.03
464779		1430	12.50	0.79	<0.05	<0.02	0.01	0.064	0.20	4.1	0.3	0.03	148	50.8	0.03
464780		11.1	1.03	2.19	0.07	0.24	<0.01	0.021	0.19	62.1	4.7	0.09	240	1.65	0.07
464781		14.7	0.63	1.42	<0.05	<0.02	<0.01	<0.005	0.15	3.5	0.8	0.13	396	0.13	0.06
464782		42.4	0.48	1.22	<0.05	<0.02	<0.01	0.005	0.20	2.5	0.6	0.07	224	0.14	0.06
464783		236	0.60	1.30	<0.05	<0.02	<0.01	0.019	0.20	4.3	0.6	0.10	323	0.10	0.05
464784		22.4	0.78	1.65	<0.05	<0.02	<0.01	0.023	0.25	2.4	1.0	0.19	284	0.20	0.05
464785		18.3	0.82	1.86	<0.05	<0.02	<0.01	0.019	0.25	5.0	1.3	0.18	303	0.43	0.06
464786		5.6	0.66	1.84	<0.05	0.02	<0.01	0.007	0.23	3.1	1.2	0.14	262	0.56	0.05
464787		11.7	0.74	1.76	<0.05	<0.02	<0.01	0.010	0.33	2.5	1.2	0.19	322	0.19	0.05
464788		64.7	0.92	1.89	<0.05	<0.02	<0.01	0.022	0.32	2.0	1.6	0.23	313	0.23	0.05
464789		98.7	0.83	1.41	<0.05	<0.02	<0.01	0.023	0.23	2.3	0.9	0.13	313	0.41	0.05
464790		3070	3.02	5.36	0.07	0.23	0.02	0.052	0.20	7.0	8.4	0.74	441	229	0.09
464791		186.5	0.86	1.53	<0.05	<0.02	<0.01	0.012	0.24	2.3	1.0	0.16	366	0.32	0.05
464792		55.9	0.67	1.40	<0.05	<0.02	<0.01	0.010	0.21	2.2	1.0	0.15	481	0.13	0.05
464793		188.5	0.70	1.59	<0.05	<0.02	<0.01	0.008	0.28	1.4	1.6	0.14	452	0.10	0.05
464794		22.3	0.61	1.63	<0.05	<0.02	<0.01	<0.005	0.25	2.0	1.4	0.13	344	0.11	0.05
464795		66.1	0.60	1.35	<0.05	<0.02	<0.01	0.014	0.19	3.0	0.9	0.07	288	0.14	0.06
464796		104.0	0.60	1.49	<0.05	<0.02	0.01	0.012	0.16	2.9	1.0	0.12	359	0.08	0.06
464797		25.1	2.05	3.73	0.05	<0.02	<0.01	0.043	0.11	6.0	5.2	1.19	1800	0.87	0.03
464798		12.0	0.95	2.30	<0.05	<0.02	0.01	0.031	0.12	1.6	2.3	0.31	527	0.37	0.05
464799		11.1	0.86	2.23	<0.05	<0.02	<0.01	0.006	0.14	1.2	2.2	0.30	585	1.39	0.05
464800		10.5	0.87	2.31	<0.05	<0.02	<0.01	0.006	0.15	1.3	2.3	0.31	599	1.13	0.06
464801		528	1.16	1.40	<0.05	<0.02	0.02	0.146	0.22	5.8	1.0	0.09	487	6.73	0.04
464802		791	0.76	0.98	<0.05	<0.02	0.01	0.056	0.20	10.1	0.5	0.02	386	0.57	0.05
464803		459	0.54	0.90	<0.05	<0.02	0.03	0.117	0.19	8.1	0.4	0.01	374	0.45	0.05
464804		1135	0.67	1.03	<0.05	<0.02	0.01	0.045	0.21	8.4	0.4	0.02	384	0.34	0.05



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Page: 4 - C
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 14-FEB-2017
Account: GIBMIN

Project: SGM2016-28

CERTIFICATE OF ANALYSIS KL17022016

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
464765		1.6	260	1.5	2.5	<0.001	0.69	0.06	1.2	0.2	0.2	44.2	<0.01	0.21	1.0
464766		1.5	290	0.8	2.8	<0.001	0.02	0.06	0.8	<0.2	<0.2	39.7	<0.01	0.01	0.8
464767		1.9	290	0.5	8.9	<0.001	0.01	0.05	1.0	<0.2	0.2	33.1	<0.01	<0.01	0.6
464768		2.0	290	0.6	9.2	<0.001	0.04	0.07	0.9	<0.2	0.2	36.8	<0.01	<0.01	0.7
464769		1.4	300	0.5	9.6	<0.001	0.01	0.06	0.9	<0.2	<0.2	31.9	<0.01	<0.01	0.8
464770		616	680	4.9	28.3	0.099	3.87	0.81	7.8	3.3	0.4	53.3	<0.01	0.22	1.0
464771		1.7	330	0.7	6.9	<0.001	0.02	0.06	1.1	0.2	0.2	36.6	<0.01	<0.01	0.6
464772		1.5	330	0.5	3.9	<0.001	0.05	0.06	1.0	<0.2	0.2	37.5	<0.01	<0.01	0.5
464773		1.6	340	0.6	2.2	0.001	0.08	0.05	0.9	0.2	<0.2	44.9	<0.01	<0.01	0.4
464774		1.6	340	0.4	1.9	0.001	0.05	0.06	0.8	<0.2	<0.2	39.1	<0.01	<0.01	0.4
464775		1.6	330	0.5	1.9	<0.001	0.02	0.05	0.8	0.2	<0.2	37.5	<0.01	<0.01	0.4
464776		1.3	300	0.7	2.2	0.002	0.24	0.05	0.7	<0.2	<0.2	41.9	<0.01	0.03	0.5
464777		1.5	310	0.9	2.8	0.002	2.80	<0.05	0.5	0.4	0.2	21.7	<0.01	0.28	1.2
464778		1.6	140	1.2	2.4	0.003	>10.0	0.05	0.2	4.2	0.3	11.2	<0.01	1.14	1.0
464779		1.6	130	1.1	2.4	0.004	>10.0	0.05	0.2	4.3	0.3	10.7	<0.01	1.07	1.0
464780		0.6	120	5.9	10.2	<0.001	0.06	<0.05	0.7	0.2	0.6	13.2	<0.01	0.01	30.3
464781		0.8	200	0.9	2.2	<0.001	0.05	<0.05	0.5	<0.2	<0.2	33.3	<0.01	0.01	1.5
464782		0.8	180	0.9	3.7	<0.001	0.07	0.10	0.5	<0.2	<0.2	24.2	<0.01	0.01	1.3
464783		0.8	190	0.9	3.2	<0.001	0.15	0.07	0.5	<0.2	<0.2	25.6	<0.01	0.03	1.5
464784		1.1	240	0.7	5.0	<0.001	0.13	0.07	0.6	<0.2	<0.2	24.5	<0.01	0.01	0.7
464785		1.2	240	1.0	5.0	<0.001	0.08	0.11	0.7	0.2	<0.2	37.1	<0.01	0.02	0.6
464786		1.0	240	1.1	4.4	<0.001	0.02	0.10	0.8	<0.2	0.2	40.0	<0.01	<0.01	0.9
464787		1.1	250	0.7	6.4	<0.001	0.06	0.06	0.8	0.2	0.2	27.8	<0.01	0.01	0.5
464788		1.3	260	0.9	6.0	<0.001	0.17	0.09	0.7	<0.2	<0.2	26.9	<0.01	0.04	0.5
464789		1.0	220	0.8	3.8	<0.001	0.36	0.06	0.7	<0.2	0.2	26.9	<0.01	0.03	0.6
464790		20.7	630	8.8	9.8	0.251	0.46	2.69	4.7	1.0	1.1	45.9	<0.01	0.10	2.1
464791		1.1	210	0.7	4.5	<0.001	0.28	0.06	0.5	<0.2	<0.2	26.0	<0.01	0.03	0.6
464792		1.0	220	1.0	4.0	<0.001	0.09	0.05	0.7	<0.2	<0.2	36.2	<0.01	0.01	0.6
464793		1.3	230	1.1	6.3	<0.001	0.14	<0.05	0.8	<0.2	<0.2	33.1	<0.01	0.02	0.6
464794		1.1	220	1.1	5.7	<0.001	0.08	0.05	0.7	0.2	<0.2	38.0	<0.01	<0.01	1.1
464795		1.1	190	1.1	3.7	<0.001	0.20	0.05	0.6	0.2	<0.2	27.9	<0.01	0.02	1.3
464796		0.9	180	1.0	2.6	<0.001	0.14	<0.05	0.6	<0.2	<0.2	32.2	<0.01	0.02	1.1
464797		46.0	540	1.9	2.0	<0.001	0.10	<0.05	3.9	0.3	<0.2	114.5	<0.01	0.01	1.0
464798		1.9	300	1.0	2.1	<0.001	0.12	0.05	1.0	<0.2	<0.2	43.6	<0.01	0.02	0.7
464799		1.5	310	0.9	2.4	<0.001	0.10	0.06	1.0	0.2	<0.2	43.5	<0.01	0.01	0.7
464800		1.5	310	0.9	2.6	<0.001	0.10	0.06	1.0	<0.2	<0.2	44.2	<0.01	0.01	0.7
464801		1.2	150	1.2	4.0	0.002	0.86	<0.05	0.7	0.2	<0.2	24.7	<0.01	0.16	2.3
464802		0.7	80	1.7	3.2	<0.001	0.64	<0.05	0.5	0.3	<0.2	22.0	<0.01	0.08	3.0
464803		0.6	60	2.0	2.9	<0.001	0.37	<0.05	0.4	0.2	<0.2	21.9	<0.01	0.05	3.0
464804		0.6	120	1.1	3.4	<0.001	0.51	<0.05	0.3	0.2	<0.2	23.5	<0.01	0.12	2.6



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Page: 4 - D
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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46	Mo-OG46	Au-AA23
		TI	U	V	W	Y	Zn		Cu	Mo	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001	0.005
464765		<0.02	2.37	6	<0.05	14.15	281	<0.5	0.218		
464766		0.02	0.94	7	<0.05	6.21	81	<0.5			
464767		0.05	0.32	9	<0.05	7.62	34	<0.5			
464768		0.05	0.47	9	<0.05	8.13	32	<0.5			
464769		0.06	0.42	8	<0.05	6.79	26	<0.5			
464770		0.60	0.28	71	10.75	5.10	58	1.2			
464771		0.05	0.33	8	<0.05	9.19	31	<0.5			
464772		0.02	0.39	7	<0.05	6.68	33	<0.5			
464773		<0.02	0.27	6	<0.05	6.01	36	<0.5			
464774		<0.02	0.27	6	<0.05	6.05	30	<0.5			
464775		<0.02	0.21	5	<0.05	5.49	38	<0.5			
464776		<0.02	0.25	4	0.08	4.89	43	<0.5			
464777		<0.02	0.97	4	0.20	3.47	134	<0.5	0.166		
464778		<0.02	0.72	2	0.22	2.56	103	<0.5	0.145		
464779		<0.02	0.74	2	0.20	2.50	102	<0.5			
464780		0.05	3.69	8	0.26	14.40	19	5.6			
464781		<0.02	0.80	3	<0.05	6.05	28	<0.5			
464782		0.03	0.44	3	<0.05	5.17	53	<0.5			
464783		0.02	0.51	2	<0.05	5.13	52	<0.5			
464784		0.03	0.73	5	<0.05	5.04	138	<0.5			
464785		0.04	0.41	5	<0.05	8.02	193	<0.5			
464786		0.03	0.39	5	<0.05	6.99	34	<0.5			
464787		0.05	0.51	5	<0.05	7.40	189	<0.5			
464788		0.04	0.86	5	<0.05	5.21	155	<0.5			
464789		0.02	0.31	3	<0.05	4.86	171	<0.5			
464790		0.09	0.39	60	14.70	7.95	55	6.3	0.307	0.029	0.288
464791		0.03	0.24	4	<0.05	3.04	62	<0.5			
464792		0.03	0.24	3	<0.05	3.58	34	<0.5			
464793		0.04	0.35	4	<0.05	3.95	34	<0.5			
464794		0.04	0.78	4	<0.05	5.78	28	<0.5			
464795		0.02	0.56	3	<0.05	3.91	93	<0.5			
464796		<0.02	0.79	3	<0.05	4.02	79	<0.5			
464797		<0.02	0.93	23	<0.05	8.55	274	<0.5			
464798		<0.02	0.61	5	<0.05	5.84	238	<0.5			
464799		<0.02	0.36	4	<0.05	5.08	87	<0.5			
464800		<0.02	0.32	4	<0.05	5.11	88	<0.5			
464801		0.02	0.43	2	0.10	6.31	370	<0.5			
464802		0.02	0.69	1	0.10	7.91	70	<0.5			
464803		<0.02	0.94	1	0.07	6.07	334	<0.5			
464804		0.02	1.01	1	0.12	4.90	42	<0.5			



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Page: 5 - A
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 14-FEB-2017
Account: GIBMIN

Project: SGM2016-28

CERTIFICATE OF ANALYSIS KL17022016

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
464805		6.08	0.22	0.32	0.4	<0.2	<10	50	0.08	0.06	0.95	0.06	18.05	1.7	7	0.07
464806		6.75	0.60	0.38	0.7	<0.2	<10	70	0.10	0.23	0.59	0.56	16.50	2.6	5	0.11
464807		7.46	0.72	0.35	0.1	<0.2	<10	80	0.08	0.25	0.29	0.22	15.10	2.7	8	0.08
464808		7.77	0.72	0.36	0.1	<0.2	<10	50	0.08	0.43	0.21	0.43	10.10	10.0	7	0.09
464809		6.85	0.28	0.33	0.1	<0.2	<10	90	0.08	0.11	0.83	0.22	9.46	3.6	6	0.08
464810		0.03	0.93	1.54	5.4	<0.2	10	100	0.29	0.21	0.94	0.39	12.65	11.6	29	0.46
464811		3.39	0.12	0.38	0.1	<0.2	<10	60	0.07	0.05	1.04	0.32	6.25	2.5	6	0.06
464812		3.43	0.29	0.37	<0.1	<0.2	<10	110	0.09	0.19	0.61	0.21	7.30	4.1	5	0.06
464813		7.32	1.14	0.34	0.1	<0.2	<10	20	0.06	0.28	0.29	0.66	8.20	6.8	6	0.08
464814		7.42	0.38	0.36	0.1	<0.2	<10	80	0.08	0.08	0.84	0.20	11.90	3.6	6	0.05
464815		7.18	0.43	0.38	0.1	<0.2	<10	60	0.08	0.07	0.83	0.38	9.69	2.7	6	0.05
464816		7.20	0.59	0.36	0.1	<0.2	<10	60	0.07	0.12	0.45	0.17	14.65	2.9	6	0.07
464817		7.28	0.46	0.38	<0.1	<0.2	<10	120	0.08	0.09	0.76	0.06	14.55	3.7	7	0.06
464818		7.21	0.30	0.42	0.1	<0.2	<10	40	0.08	0.05	0.72	0.05	9.47	4.1	5	0.08
464819		7.31	0.26	0.50	0.1	<0.2	<10	50	0.09	0.04	0.76	0.09	5.65	5.0	7	0.08
464820		<0.02	0.26	0.47	0.1	<0.2	<10	50	0.09	0.04	0.74	0.08	5.00	5.1	8	0.08
464821		3.44	0.20	0.58	0.1	<0.2	<10	40	0.09	0.03	0.82	0.05	2.88	3.6	5	0.06
464822		3.77	0.16	0.53	0.2	<0.2	<10	30	0.06	0.11	0.38	0.04	6.06	7.0	5	0.10
464823		7.27	0.27	0.36	0.5	<0.2	<10	10	0.10	0.44	0.43	0.05	12.00	20.6	3	0.30
464824		6.84	0.14	0.49	0.1	<0.2	<10	30	0.07	0.29	0.40	0.02	10.85	9.7	6	0.11
464825		7.08	0.81	0.46	0.2	<0.2	<10	30	0.07	0.39	0.37	0.04	8.63	5.1	5	0.10
464826		5.59	0.44	0.77	0.1	<0.2	<10	50	0.11	0.11	1.20	0.03	7.96	4.7	5	0.08
464827		3.31	0.07	0.22	0.1	<0.2	<10	10	0.05	0.02	1.07	0.02	3.70	4.8	12	<0.05
464828		2.98	1.76	0.01	3.3	<0.2	<10	<10	<0.05	0.23	0.12	0.39	0.34	2.9	19	<0.05
464829		1.99	0.20	0.04	0.1	<0.2	<10	10	<0.05	0.02	0.10	0.03	1.34	0.4	17	<0.05
464830		0.03	2.75	1.69	27.5	0.4	10	60	0.29	1.00	0.84	2.09	9.56	10.0	30	3.43
464831		3.53	0.02	0.81	0.3	<0.2	<10	60	0.08	0.02	1.47	0.02	6.35	2.8	5	0.10
464832		6.50	0.01	0.85	0.5	<0.2	<10	60	0.10	0.01	0.98	0.01	7.54	3.3	5	0.08
464833		7.18	0.01	1.74	0.2	<0.2	<10	40	0.13	0.02	2.68	0.03	9.92	9.7	155	0.05
464834		6.68	0.04	1.15	0.2	<0.2	<10	50	0.11	0.02	1.79	0.03	7.21	5.4	68	<0.05
464835		7.44	0.01	0.92	0.4	<0.2	<10	60	0.09	0.01	0.95	0.03	6.58	3.2	6	<0.05
464836		7.30	0.03	0.87	0.2	<0.2	<10	60	0.08	0.02	0.89	0.02	5.22	3.7	7	<0.05
464837		3.76	<0.01	0.93	0.3	<0.2	<10	60	0.10	0.01	0.59	0.01	5.24	4.0	6	<0.05
464838		3.84	0.01	0.95	0.2	<0.2	<10	70	0.07	0.02	1.08	0.01	4.31	3.2	5	<0.05



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Page: 5 - B
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-FEB-2017
 Account: GIBMIN

Project: SGM2016-28

CERTIFICATE OF ANALYSIS KL17022016

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
464805		587	0.66	1.07	<0.05	<0.02	<0.01	0.038	0.20	8.1	0.5	0.03	496	0.78	0.05
464806		2090	1.87	1.29	<0.05	<0.02	0.01	0.173	0.21	7.3	0.7	0.05	288	1.78	0.04
464807		2350	2.30	1.17	<0.05	<0.02	0.01	0.130	0.24	6.6	0.4	0.02	169	1.61	0.03
464808		2030	3.49	1.15	<0.05	<0.02	0.01	0.131	0.24	4.4	0.5	0.02	134	15.75	0.02
464809		705	1.12	1.06	<0.05	<0.02	<0.01	0.048	0.20	4.3	0.5	0.03	456	0.65	0.04
464810		3230	3.14	6.00	0.11	0.25	0.03	0.049	0.20	6.6	11.4	0.76	472	242	0.09
464811		337	0.62	1.18	<0.05	<0.02	<0.01	0.030	0.20	2.9	0.7	0.05	606	0.78	0.06
464812		936	1.49	1.18	<0.05	<0.02	0.01	0.050	0.23	3.2	0.5	0.03	344	2.91	0.04
464813		3470	3.16	1.12	<0.05	<0.02	0.01	0.199	0.22	3.6	0.5	0.02	125	7.11	0.03
464814		977	1.26	1.19	<0.05	<0.02	<0.01	0.053	0.19	5.5	0.7	0.06	382	0.83	0.05
464815		1330	1.47	1.24	<0.05	<0.02	<0.01	0.076	0.18	4.4	0.7	0.07	316	0.67	0.04
464816		1700	2.10	1.16	<0.05	<0.02	<0.01	0.133	0.18	6.8	0.7	0.06	172	1.88	0.05
464817		1635	1.40	1.37	<0.05	<0.02	0.01	0.073	0.17	6.7	0.9	0.09	317	0.73	0.05
464818		1015	1.15	1.49	<0.05	<0.02	<0.01	0.036	0.16	4.4	1.5	0.13	425	1.69	0.05
464819		643	1.37	1.72	<0.05	<0.02	<0.01	0.014	0.16	2.8	2.0	0.19	712	3.67	0.05
464820		667	1.38	1.60	<0.05	<0.02	<0.01	0.014	0.15	2.4	1.9	0.18	688	3.72	0.05
464821		474	1.37	1.91	<0.05	<0.02	<0.01	0.013	0.16	1.2	2.3	0.23	865	1.01	0.06
464822		623	2.55	1.57	<0.05	<0.02	<0.01	0.025	0.21	2.7	1.6	0.14	383	4.77	0.04
464823		973	10.55	1.14	0.08	<0.02	<0.01	0.019	0.21	5.4	0.4	0.03	195	13.85	0.03
464824		332	6.14	1.61	0.06	<0.02	<0.01	0.014	0.18	4.8	1.6	0.15	367	5.07	0.03
464825		2200	4.38	1.45	<0.05	<0.02	0.01	0.059	0.22	3.8	0.9	0.08	190	0.97	0.03
464826		1030	2.03	2.75	<0.05	<0.02	<0.01	0.034	0.16	3.4	3.6	0.34	679	0.49	0.05
464827		161.0	0.78	0.83	<0.05	<0.02	<0.01	0.011	0.05	1.7	0.9	0.09	380	1.09	0.02
464828		3780	0.75	0.11	<0.05	<0.02	0.02	0.032	<0.01	<0.2	0.1	<0.01	71	2.22	0.01
464829		486	0.56	0.19	<0.05	<0.02	0.01	<0.005	0.01	0.6	0.2	0.01	92	1.77	<0.01
464830		2540	4.49	4.70	0.06	0.02	0.04	0.125	0.30	4.7	15.1	0.57	743	228	0.05
464831		25.5	1.12	2.77	<0.05	<0.02	0.01	0.009	0.08	2.5	3.3	0.39	475	0.91	0.05
464832		3.2	1.08	2.88	<0.05	<0.02	0.01	0.006	0.08	3.0	2.9	0.39	312	0.40	0.05
464833		16.8	1.92	4.73	0.05	<0.02	0.01	0.012	0.05	3.8	7.3	1.57	1040	1.18	0.04
464834		53.6	1.38	3.37	<0.05	<0.02	0.02	0.045	0.08	2.9	4.6	0.84	815	0.88	0.05
464835		22.1	1.13	3.07	<0.05	<0.02	0.01	0.007	0.09	2.7	3.3	0.53	421	0.63	0.05
464836		63.6	1.20	2.75	<0.05	<0.02	0.01	0.012	0.09	1.9	3.0	0.48	389	0.63	0.05
464837		3.1	1.01	2.87	<0.05	<0.02	0.01	<0.005	0.07	2.0	3.1	0.50	382	0.50	0.05
464838		6.0	1.00	2.63	<0.05	<0.02	0.01	0.011	0.08	1.6	3.6	0.56	477	0.43	0.04



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Page: 5 - C
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-FEB-2017
 Account: GIBMIN

Project: SGM2016-28

CERTIFICATE OF ANALYSIS KL17022016

Sample Description	Method Analyte Units LOR	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2	ME-MS41 Ti % 0.005
464805		0.9	140	1.0	3.4	<0.001	0.38	<0.05	0.4	0.2	<0.2	20.0	<0.01	0.04	2.1	<0.005
464806		1.0	170	1.1	3.3	<0.001	1.76	<0.05	0.5	0.3	0.3	19.2	<0.01	0.17	2.0	<0.005
464807		1.0	160	0.6	3.5	<0.001	2.47	<0.05	0.3	0.3	0.3	7.9	<0.01	0.25	2.5	<0.005
464808		1.1	210	0.7	3.7	0.002	3.76	<0.05	0.3	0.5	0.3	7.0	<0.01	0.47	1.9	<0.005
464809		1.0	200	0.7	3.0	<0.001	1.04	<0.05	0.4	0.3	<0.2	19.5	<0.01	0.10	1.6	<0.005
464810		24.0	670	9.3	9.8	0.248	0.46	2.43	5.4	1.4	1.2	46.2	<0.01	0.09	2.1	0.139
464811		0.9	190	1.1	3.1	<0.001	0.35	<0.05	0.4	<0.2	<0.2	24.7	<0.01	0.04	1.3	<0.005
464812		1.0	200	0.6	3.3	<0.001	1.48	<0.05	0.3	0.2	<0.2	14.0	<0.01	0.15	1.4	<0.005
464813		1.1	210	0.7	3.1	0.001	3.39	<0.05	0.3	0.3	0.3	9.3	<0.01	0.36	1.5	<0.005
464814		1.1	200	0.8	2.7	<0.001	1.09	<0.05	0.5	0.3	<0.2	23.7	<0.01	0.12	1.7	<0.005
464815		1.2	220	0.9	2.6	<0.001	1.35	<0.05	0.4	0.2	0.2	23.0	<0.01	0.09	1.5	<0.005
464816		1.4	220	0.5	2.6	<0.001	2.14	<0.05	0.4	0.4	0.3	15.5	<0.01	0.17	1.6	<0.005
464817		1.2	210	0.6	2.6	<0.001	1.26	<0.05	0.4	0.3	0.2	19.4	<0.01	0.14	1.9	<0.005
464818		1.1	190	0.5	2.6	<0.001	0.91	<0.05	0.5	0.2	0.2	17.5	<0.01	0.07	1.6	<0.005
464819		1.3	250	0.5	2.7	0.001	1.01	<0.05	0.6	0.2	<0.2	20.0	<0.01	0.08	1.1	<0.005
464820		1.4	260	0.5	2.5	0.001	1.03	<0.05	0.6	0.2	<0.2	18.5	<0.01	0.07	1.0	<0.005
464821		1.4	290	0.5	2.7	<0.001	0.86	0.05	0.6	0.2	<0.2	21.3	<0.01	0.06	0.8	<0.005
464822		1.5	270	0.4	3.3	<0.001	2.48	<0.05	0.4	0.4	0.2	12.1	<0.01	0.12	0.8	<0.005
464823		2.0	190	0.7	3.2	0.002	>10.0	<0.05	0.4	2.4	0.3	15.9	<0.01	0.46	0.7	<0.005
464824		1.9	250	0.6	2.9	0.001	6.76	<0.05	0.8	1.0	0.2	14.3	<0.01	0.26	0.6	<0.005
464825		2.0	360	0.3	3.7	<0.001	4.55	<0.05	0.6	0.5	0.3	14.9	<0.01	0.39	0.7	<0.005
464826		2.4	390	0.6	2.7	<0.001	1.12	<0.05	1.2	0.3	<0.2	36.5	<0.01	0.13	0.7	<0.005
464827		1.4	80	0.4	0.9	<0.001	0.22	<0.05	1.0	<0.2	<0.2	33.4	<0.01	0.04	0.3	<0.005
464828		2.1	<10	0.3	0.1	<0.001	0.39	0.06	0.1	<0.2	<0.2	2.2	<0.01	0.71	<0.2	<0.005
464829		2.9	20	1.8	0.3	0.001	0.04	0.05	0.1	<0.2	<0.2	3.0	<0.01	0.02	<0.2	<0.005
464830		19.7	740	69.2	13.7	0.215	2.16	1.62	2.4	4.1	0.6	51.3	<0.01	0.74	2.9	0.045
464831		2.1	340	1.3	1.2	0.001	<0.01	0.07	1.2	0.3	<0.2	56.3	<0.01	<0.01	0.5	<0.005
464832		1.7	340	1.5	1.1	<0.001	<0.01	0.09	1.2	0.5	<0.2	104.5	<0.01	<0.01	0.6	<0.005
464833		43.8	650	1.1	0.8	<0.001	0.02	0.06	4.4	0.4	<0.2	74.7	<0.01	0.02	0.6	<0.005
464834		18.9	470	0.9	1.3	<0.001	0.18	0.08	2.5	0.3	<0.2	67.4	<0.01	0.03	0.5	<0.005
464835		2.3	370	1.0	1.4	<0.001	0.02	0.09	1.5	0.5	<0.2	71.2	<0.01	<0.01	0.5	<0.005
464836		1.9	360	0.9	1.5	<0.001	0.22	0.08	1.5	0.4	<0.2	65.5	<0.01	0.02	0.4	<0.005
464837		1.7	350	0.8	1.0	<0.001	<0.01	0.10	1.1	0.2	<0.2	58.2	<0.01	<0.01	0.4	<0.005
464838		1.6	370	0.7	1.1	<0.001	0.05	0.09	1.2	0.3	<0.2	64.9	<0.01	0.01	0.4	<0.005



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Page: 5 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-FEB-2017
 Account: GIBMIN

Project: SGM2016-28

CERTIFICATE OF ANALYSIS KL17022016

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
464805		0.02	0.81	1	0.19	5.72	19	<0.5			
464806		<0.02	0.91	1	0.10	6.05	182	<0.5	0.194		
464807		<0.02	0.56	1	0.11	5.13	41	<0.5	0.223		
464808		0.02	0.42	1	0.13	3.80	88	<0.5	0.192		
464809		<0.02	0.56	1	0.10	4.38	74	<0.5			
464810		0.09	0.40	62	13.95	7.92	58	7.3	0.312	0.029	
464811		<0.02	0.22	2	0.08	3.27	100	<0.5			
464812		<0.02	0.28	1	0.11	2.98	53	<0.5			
464813		<0.02	0.86	1	0.24	2.85	153	<0.5	0.325		
464814		<0.02	0.73	1	0.13	5.43	45	<0.5			
464815		<0.02	0.51	2	0.16	4.27	57	<0.5			
464816		<0.02	0.71	1	0.21	4.69	39	<0.5	0.157		
464817		<0.02	0.57	1	0.19	5.61	22	<0.5	0.155		
464818		<0.02	0.32	1	0.06	4.25	35	<0.5			
464819		<0.02	0.26	2	0.12	3.59	74	<0.5			
464820		<0.02	0.27	2	0.11	3.52	73	<0.5			
464821		<0.02	0.18	3	0.09	3.50	63	<0.5			
464822		0.02	0.63	2	0.17	3.24	36	<0.5			
464823		0.02	2.84	2	0.19	5.01	8	<0.5			
464824		<0.02	0.81	3	0.22	5.63	19	<0.5			
464825		0.02	0.93	2	0.33	4.58	13	<0.5	0.205		
464826		<0.02	0.28	5	0.17	6.98	48	<0.5			
464827		<0.02	1.73	2	0.08	4.94	14	<0.5			
464828		<0.02	0.13	<1	<0.05	0.63	63	<0.5	0.365		
464829		<0.02	0.07	1	0.06	0.95	6	<0.5			
464830		0.27	0.57	32	1.37	4.57	431	0.8	0.250	0.029	0.347
464831		<0.02	0.12	8	0.05	5.36	38	<0.5			
464832		<0.02	0.17	10	<0.05	5.79	36	<0.5			
464833		<0.02	0.16	34	<0.05	5.21	104	<0.5			
464834		<0.02	0.15	20	<0.05	4.56	62	<0.5			
464835		<0.02	0.14	9	<0.05	4.09	45	<0.5			
464836		<0.02	0.20	8	<0.05	4.50	41	<0.5			
464837		<0.02	0.34	8	<0.05	3.98	36	<0.5			
464838		<0.02	0.22	7	<0.05	3.96	35	<0.5			



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 14-FEB-2017
Account: GIBMIN

Project: SGM2016-28

CERTIFICATE OF ANALYSIS KL17022016

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.
CRU - 31 CRU - QC LOG - 21d LOG - 22
LOG - 23 PUL - 31 PUL - 31d PUL - QC
SPL - 21 SPL - 21d WEI - 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au - AA23 Cu - OG46 ME - MS41 ME - OG46
Mo - OG46



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Page: **1**
Total # Pages: **2 (A - D)**
Plus Appendix Pages
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CERTIFICATE KL17023546

Project: SGM2016-28

P.O. No.: S0218733

This report is for 12 Pulp samples submitted to our lab in Kamloops, BC, Canada on 8-FEB-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

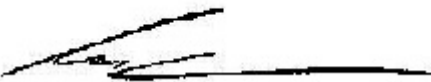
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

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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.

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

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 20 - FEB - 2017
 Account: GIBMIN

Project: SGM2016-28

CERTIFICATE OF ANALYSIS KL17023546

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2
464699		535	19.5	10	0.32	2.88	1.64	0.74	19.0	3.02	3.3	0.58	7.7	0.29	2.0
464712		635	20.5	10	0.46	3.28	1.81	0.83	19.7	3.22	4.3	0.69	8.1	0.35	2.0
464722		654	18.3	30	0.25	2.43	1.39	0.74	19.7	2.58	2.6	0.50	7.2	0.26	1.8
464733		927	13.1	20	0.30	1.76	0.99	0.54	17.4	2.01	3.4	0.37	5.6	0.19	1.6
464749		835	13.9	10	0.20	1.56	1.00	0.49	16.6	1.53	3.2	0.34	6.1	0.23	4.2
464762		762	19.4	10	0.28	1.62	1.06	0.52	17.3	1.80	2.8	0.36	8.3	0.21	2.7
464774		1030	18.1	10	0.37	1.86	1.04	0.54	17.6	1.87	2.8	0.38	7.6	0.22	2.5
464787		942	21.0	10	0.59	2.62	1.42	0.47	15.9	2.78	2.4	0.55	8.3	0.24	2.4
464798		951	10.6	10	0.38	1.78	1.06	0.42	16.6	1.47	2.9	0.37	4.2	0.22	2.5
464811		815	21.2	30	0.57	1.51	1.07	0.39	16.1	1.70	2.8	0.32	9.1	0.26	2.9
464821		649	10.5	20	0.53	1.56	0.97	0.44	17.4	1.40	2.4	0.34	4.3	0.21	1.9
464837		699	16.0	30	0.25	1.37	0.87	0.55	16.9	1.57	3.2	0.30	6.9	0.16	1.9



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Page: 2 - B
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 20-FEB-2017
Account: GIBMIN

Project: SGM2016-28

CERTIFICATE OF ANALYSIS KL17023546

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	Y	Yb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1	0.5	0.03
464699		2.72	17.5	2.81	1	470	0.1	0.46	1.06	0.25	0.75	128	2	16.1	1.67
464712		2.96	21.1	3.21	1	464	0.1	0.54	1.37	0.30	0.87	117	2	19.2	2.13
464722		2.62	12.3	2.62	1	536	0.1	0.40	0.70	0.22	0.51	122	2	14.2	1.52
464733		1.88	18.6	2.14	1	310	0.1	0.31	0.69	0.16	0.40	58	7	10.9	1.27
464749		1.82	15.9	1.58	1	291	0.2	0.24	1.44	0.17	0.98	29	1	9.8	1.30
464762		2.43	15.7	2.10	1	326	0.1	0.28	1.23	0.16	0.81	39	2	10.6	1.20
464774		2.41	19.8	2.09	1	358	0.1	0.29	0.97	0.17	1.01	45	1	11.6	1.32
464787		2.98	22.0	3.25	1	254	0.2	0.43	1.03	0.21	0.86	30	3	14.2	1.45
464798		1.49	22.4	1.44	1	306	0.3	0.27	1.06	0.17	1.17	33	3	11.1	1.36
464811		2.59	33.7	2.10	1	157.5	0.2	0.26	1.73	0.18	0.92	19	2	10.2	1.40
464821		1.42	28.1	1.38	1	171.0	0.1	0.24	0.99	0.16	0.92	28	5	10.6	1.18
464837		2.09	14.5	1.91	1	382	0.1	0.26	0.83	0.12	0.62	37	1	8.5	1.04



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Page: 2 - C
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 20-FEB-2017
 Account: GIBMIN

Project: SGM2016-28

CERTIFICATE OF ANALYSIS KL17023546

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
464699		62.1	16.30	5.65	5.28	2.49	3.92	0.94	<0.01	0.50	0.14	0.11	0.05	0.06	2.29	99.83
464712		64.6	16.70	5.17	3.93	2.31	4.21	1.18	<0.01	0.46	0.17	0.11	0.05	0.07	2.42	101.38
464722		62.6	16.40	5.00	5.05	2.23	4.36	0.78	<0.01	0.46	0.17	0.12	0.05	0.07	2.28	99.57
464733		67.7	14.95	3.30	2.97	1.22	4.79	1.26	<0.01	0.25	0.16	0.08	0.03	0.10	1.95	98.76
464749		71.4	14.75	2.08	2.65	0.65	4.92	1.18	<0.01	0.19	0.09	0.07	0.03	0.09	1.74	99.84
464762		71.2	15.00	2.92	2.76	0.87	4.60	1.21	<0.01	0.24	0.12	0.09	0.04	0.08	1.60	100.73
464774		68.9	15.05	2.83	3.19	0.99	4.80	1.31	<0.01	0.26	0.07	0.08	0.04	0.11	1.50	99.13
464787		72.7	14.30	2.23	2.19	0.66	4.69	1.80	<0.01	0.20	0.15	0.07	0.02	0.10	1.35	100.46
464798		72.3	14.65	2.38	2.11	0.80	5.05	1.57	<0.01	0.21	0.09	0.07	0.03	0.11	1.98	101.35
464811		74.2	13.90	1.94	2.10	0.52	3.73	2.39	<0.01	0.16	0.11	0.05	0.02	0.09	2.23	101.44
464821		71.8	14.40	3.09	2.10	0.65	4.19	1.88	<0.01	0.19	0.16	0.07	0.02	0.07	2.31	100.93
464837		70.6	15.15	2.50	2.90	1.00	4.61	0.94	<0.01	0.24	0.09	0.08	0.04	0.07	1.85	100.07



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Page: 2 - D
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 20-FEB-2017
 Account: GIBMIN

Project: SGM2016-28

CERTIFICATE OF ANALYSIS KL17023546

Sample Description	Method Analyte Units LOR	ME-MS81 TI ppm 0.5
464699		<0.5
464712		<0.5
464722		<0.5
464733		<0.5
464749		<0.5
464762		<0.5
464774		<0.5
464787		<0.5
464798		<0.5
464811		<0.5
464821		<0.5
464837		<0.5



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 20-FEB-2017
Account: GIBMIN

Project: SGM2016-28

CERTIFICATE OF ANALYSIS KL17023546

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02
TOT-ICP06

ME-ICP06

ME-MS81

OA-GRA05



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Page: 1
Total # Pages: 5 (A - D)
Plus Appendix Pages
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CERTIFICATE KL17022021

Project: SGM2017-1

P.O. No.: S0218733

This report is for 139 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 6-FEB-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Mo-OG46	Ore Grade Mo - Aqua Regia	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

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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.

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A

Total # Pages: 5 (A - D)

Plus Appendix Pages

Finalized Date: 15-FEB-2017

Account: GIBMIN

Project: SGM2017-1

CERTIFICATE OF ANALYSIS KL17022021

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
459910		0.06	0.72	2.01	24.3	0.2	<10	380	0.46	1.52	0.97	0.09	58.5	14.0	86	9.44
459911		4.53	0.05	1.44	0.5	<0.2	<10	70	0.09	0.01	1.10	0.05	6.18	10.1	11	0.12
459912		7.57	0.09	1.90	0.3	<0.2	<10	120	0.20	0.01	0.96	0.07	7.61	13.9	13	1.57
459913		7.22	0.06	1.44	0.4	<0.2	<10	70	0.12	0.01	0.97	0.41	6.49	10.0	12	0.30
459914		7.81	0.06	1.50	0.4	<0.2	<10	70	0.11	0.03	1.15	0.30	5.02	10.1	8	0.08
459915		7.33	0.08	1.43	0.3	<0.2	<10	70	0.11	0.02	1.16	0.55	5.39	9.5	9	0.07
459916		7.23	0.04	1.40	0.2	<0.2	<10	70	0.10	0.01	1.15	0.35	5.29	9.4	9	0.07
459917		7.33	0.09	1.31	0.3	<0.2	<10	60	0.11	0.01	1.44	1.22	4.74	8.1	9	0.07
459918		7.87	0.04	1.32	0.3	<0.2	<10	70	0.11	0.01	1.13	0.07	5.41	9.4	8	0.08
459919		7.64	0.11	1.40	0.5	<0.2	<10	50	0.10	0.02	1.37	1.07	4.92	9.7	10	0.06
459920		<0.02	0.10	1.49	0.4	<0.2	<10	60	0.11	0.02	1.41	1.04	6.70	10.3	10	0.07
459921		7.07	0.12	1.04	0.9	<0.2	<10	80	0.09	0.02	0.87	3.28	4.53	8.0	7	0.06
459922		7.51	0.10	1.51	0.5	<0.2	<10	60	0.14	0.02	1.07	0.71	5.75	9.9	11	<0.05
459923		7.78	2.52	1.60	1.3	<0.2	<10	70	0.08	0.41	0.94	12.60	4.01	16.7	10	0.08
459924		3.74	1.00	1.88	0.8	<0.2	<10	80	0.09	0.05	1.74	5.81	4.59	13.1	9	0.10
459925		3.39	0.87	1.64	0.4	<0.2	<10	70	0.08	0.06	1.91	1.80	8.04	11.0	7	0.09
459926		7.02	0.87	1.64	0.3	<0.2	<10	70	0.08	0.11	1.45	4.91	8.87	10.6	8	0.12
459927		8.22	0.85	1.70	0.9	<0.2	<10	70	0.07	0.07	1.19	4.30	4.93	11.5	8	0.10
459928		6.54	3.97	1.75	1.2	<0.2	<10	70	0.09	0.35	1.10	7.19	3.77	23.5	8	0.13
459929		7.68	0.14	1.60	0.2	<0.2	<10	50	0.09	0.08	2.01	2.37	7.51	8.0	7	0.14
459930		0.04	0.50	2.16	15.8	<0.2	10	70	0.29	0.46	1.19	0.20	9.38	49.3	276	1.26
459931		5.90	0.28	1.45	0.7	<0.2	<10	50	0.08	0.13	1.48	15.05	11.65	10.3	7	0.15
459932		5.85	0.36	0.98	0.5	<0.2	<10	50	0.08	0.29	2.20	5.58	15.00	11.8	5	0.13
459933		4.63	0.10	0.55	0.4	<0.2	<10	50	0.07	0.02	2.81	0.70	14.15	8.0	3	0.14
459934		4.09	0.31	0.64	0.2	<0.2	<10	20	0.07	0.10	2.65	0.37	11.15	7.2	6	0.13
459935		5.57	0.06	1.29	0.1	<0.2	<10	40	0.09	0.01	2.15	0.06	10.75	8.7	6	0.11
459936		6.69	0.10	1.47	0.1	<0.2	<10	50	0.09	0.04	1.70	0.05	7.08	10.0	6	0.06
459937		4.46	0.07	1.45	0.1	<0.2	<10	50	0.09	0.03	1.96	0.11	5.47	8.8	5	0.08
459938		3.67	0.08	1.24	0.2	<0.2	<10	40	0.08	0.06	2.36	1.96	8.32	9.8	4	0.17
459939		2.32	0.08	0.89	0.2	<0.2	<10	40	0.08	0.04	2.87	1.20	6.15	9.8	3	0.09
459940		<0.02	0.08	0.90	0.1	<0.2	<10	50	0.09	0.04	2.82	1.28	6.16	9.2	4	0.10
459941		7.38	0.62	0.68	0.5	<0.2	<10	50	0.07	0.47	2.74	15.20	8.41	25.7	4	0.15
459942		3.44	0.06	1.01	0.1	<0.2	<10	30	0.08	0.02	2.54	0.16	6.06	9.2	4	0.11
459943		7.12	0.26	1.29	0.3	<0.2	<10	40	0.09	0.10	1.96	8.07	10.20	9.3	5	0.18
459944		6.51	0.07	1.05	0.1	<0.2	<10	30	0.08	0.02	2.26	0.17	7.27	7.9	5	0.07
459945		4.19	0.07	0.68	<0.1	<0.2	<10	40	0.07	0.03	1.79	0.19	7.86	5.7	3	0.09
459946		3.21	0.03	0.76	0.2	<0.2	<10	30	0.07	0.03	1.84	0.18	4.98	4.8	4	0.07
459947		4.99	0.12	1.04	0.3	<0.2	<10	40	0.08	0.04	2.18	1.66	5.27	7.5	5	0.09
459948		2.45	0.11	1.93	0.3	<0.2	<10	30	0.11	0.04	2.86	0.13	5.42	12.6	8	0.07
459949		5.29	0.10	1.55	0.2	<0.2	<10	30	0.09	0.05	1.85	0.22	4.75	9.8	6	0.07



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Page: 2 - B
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 15-FEB-2017
Account: GIBMIN

Project: SGM2017-1

CERTIFICATE OF ANALYSIS KL17022021

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
459910		2720	4.13	8.37	0.16	0.35	0.02	0.174	1.12	29.2	29.3	1.20	376	91.8	0.16
459911		33.3	1.98	3.79	<0.05	0.05	0.01	<0.005	0.14	2.5	6.6	1.08	790	0.62	0.04
459912		52.8	2.70	5.07	0.05	0.05	0.01	0.008	0.45	3.0	9.3	1.48	714	0.56	0.05
459913		37.7	1.87	3.82	0.05	0.05	0.01	0.008	0.19	2.6	6.7	1.04	626	0.45	0.04
459914		48.5	1.97	3.82	<0.05	0.04	0.01	0.005	0.14	1.9	6.6	1.04	904	0.58	0.04
459915		67.0	1.96	3.71	<0.05	0.04	0.01	0.013	0.13	2.2	6.9	1.01	1090	2.59	0.04
459916		23.4	1.93	3.78	<0.05	0.04	0.01	0.006	0.13	2.1	7.1	1.02	1080	0.39	0.04
459917		44.7	1.79	3.42	<0.05	0.03	0.01	0.024	0.13	1.9	6.7	0.92	1140	0.50	0.04
459918		17.8	1.73	3.70	<0.05	0.04	<0.01	0.006	0.12	2.2	6.7	0.98	821	0.60	0.04
459919		46.8	2.00	3.43	<0.05	0.03	0.01	0.034	0.12	1.9	7.0	1.01	1220	0.74	0.03
459920		41.1	2.12	3.87	<0.05	0.04	0.01	0.027	0.13	2.8	7.5	1.04	1280	0.68	0.04
459921		36.6	1.54	2.66	<0.05	0.02	0.01	0.024	0.14	1.9	5.1	0.65	903	0.44	0.04
459922		38.6	2.02	3.95	<0.05	0.05	0.01	0.014	0.10	2.3	7.3	1.08	1260	0.52	0.04
459923		1275	4.41	3.74	<0.05	<0.02	0.05	0.460	0.19	1.6	7.8	1.03	1720	2.90	0.02
459924		543	3.24	4.32	<0.05	<0.02	0.02	0.239	0.23	1.9	9.0	1.19	2790	5.44	0.02
459925		524	2.57	4.07	<0.05	<0.02	0.01	0.071	0.20	3.1	8.3	1.04	2830	4.27	0.02
459926		402	2.71	3.98	<0.05	<0.02	0.03	0.281	0.17	3.7	7.5	1.01	2310	4.06	0.02
459927		357	3.17	4.04	<0.05	<0.02	0.02	0.217	0.19	2.1	8.1	1.01	2190	12.80	0.02
459928		2360	4.80	4.10	<0.05	<0.02	0.05	0.658	0.22	1.5	8.2	1.04	2220	3.72	0.02
459929		63.4	2.80	4.36	<0.05	<0.02	0.02	0.133	0.17	3.1	8.5	0.96	3240	0.73	0.03
459930		891	5.73	5.75	0.08	0.04	0.01	0.020	0.72	4.0	4.0	5.59	478	92.4	0.11
459931		166.5	4.35	3.67	<0.05	<0.02	0.39	0.541	0.18	4.5	7.9	1.03	4360	0.90	0.03
459932		214	3.65	2.61	<0.05	<0.02	0.10	0.362	0.13	6.0	5.2	1.02	3240	2.85	0.05
459933		58.8	2.41	1.61	<0.05	<0.02	0.01	0.034	0.10	5.6	2.2	0.99	2230	0.47	0.07
459934		150.0	2.29	2.10	<0.05	<0.02	<0.01	0.024	0.08	4.5	4.1	0.80	1240	0.67	0.06
459935		20.6	2.10	4.10	<0.05	0.03	<0.01	0.009	0.10	4.3	8.8	0.91	683	0.81	0.05
459936		28.0	2.07	4.40	<0.05	0.02	<0.01	0.006	0.09	2.9	9.8	1.01	600	0.80	0.05
459937		56.0	2.16	4.42	<0.05	<0.02	<0.01	0.007	0.11	2.4	8.8	0.96	919	1.19	0.05
459938		34.1	2.52	3.84	<0.05	<0.02	0.04	0.088	0.13	3.3	7.4	0.96	1390	0.81	0.05
459939		44.8	2.76	2.66	<0.05	<0.02	0.02	0.040	0.14	2.6	4.9	1.20	2750	1.07	0.05
459940		43.9	2.80	2.71	<0.05	<0.02	0.02	0.041	0.15	2.7	4.7	1.18	2720	0.80	0.06
459941		357	3.39	1.89	<0.05	<0.02	0.36	0.622	0.15	3.4	3.0	0.97	2250	3.18	0.05
459942		26.8	2.37	3.03	<0.05	<0.02	<0.01	0.011	0.12	2.6	6.4	1.01	1660	0.93	0.06
459943		137.5	3.49	3.62	<0.05	<0.02	0.17	0.679	0.18	4.2	7.2	1.02	3490	1.65	0.03
459944		28.5	2.18	3.26	<0.05	<0.02	<0.01	0.008	0.12	3.0	6.2	0.86	837	0.98	0.07
459945		21.2	1.56	1.90	<0.05	<0.02	<0.01	0.011	0.14	3.4	3.4	0.51	1080	1.14	0.06
459946		13.4	1.15	2.28	<0.05	<0.02	<0.01	0.005	0.13	2.4	3.8	0.38	684	1.12	0.05
459947		49.0	1.69	2.93	<0.05	<0.02	0.03	0.045	0.16	2.5	5.6	0.56	1510	0.54	0.06
459948		55.7	3.12	6.10	<0.05	<0.02	<0.01	0.012	0.11	2.2	10.1	1.39	1730	1.07	0.05
459949		60.8	2.38	4.42	<0.05	0.02	<0.01	0.016	0.11	2.0	8.2	1.09	1440	2.40	0.05



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Page: 2 - C
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 15-FEB-2017
Account: GIBMIN

Project: SGM2017-1

CERTIFICATE OF ANALYSIS KL17022021

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
459910		37.4	1020	8.3	121.0	0.003	0.36	0.48	6.9	3.3	4.5	58.3	<0.01	0.07	16.2
459911		9.3	460	0.5	2.8	<0.001	0.04	0.12	1.4	<0.2	0.2	38.0	<0.01	0.01	1.1
459912		11.8	530	0.6	15.6	<0.001	0.07	0.17	2.8	0.3	0.2	49.2	<0.01	0.01	1.1
459913		9.6	440	0.5	5.0	<0.001	0.03	0.15	1.6	0.2	0.2	42.5	<0.01	0.01	0.9
459914		8.3	500	0.6	2.5	<0.001	0.04	0.13	1.5	0.4	0.2	45.9	<0.01	0.01	0.5
459915		8.5	460	0.5	2.3	<0.001	0.07	0.12	1.4	0.4	0.2	42.4	<0.01	0.01	0.6
459916		8.3	460	0.6	2.2	<0.001	0.09	0.13	1.4	0.5	0.2	38.5	<0.01	0.02	0.7
459917		7.8	420	0.6	2.2	<0.001	0.08	0.13	1.2	0.3	<0.2	39.2	<0.01	0.02	0.7
459918		8.2	440	0.6	2.1	<0.001	0.08	0.12	1.3	0.3	0.2	40.1	<0.01	0.01	0.7
459919		8.7	460	0.7	1.9	0.001	0.17	0.11	1.3	0.2	<0.2	35.6	<0.01	0.05	0.8
459920		9.4	460	0.6	2.2	<0.001	0.17	0.12	1.5	0.2	0.2	40.2	<0.01	0.05	1.0
459921		6.1	360	0.5	2.2	<0.001	0.27	0.10	0.9	0.2	<0.2	30.2	<0.01	0.03	0.7
459922		9.4	460	0.6	1.5	<0.001	0.09	0.15	1.6	0.3	0.2	38.9	<0.01	0.02	0.5
459923		10.6	460	0.7	2.8	0.001	2.37	0.09	1.3	0.4	<0.2	19.5	<0.01	0.90	0.6
459924		9.8	490	0.6	3.5	0.001	0.37	0.07	1.5	0.4	<0.2	23.6	<0.01	0.09	0.8
459925		8.5	440	0.7	3.2	<0.001	0.16	0.10	1.9	0.5	<0.2	30.3	<0.01	0.04	1.4
459926		8.5	440	0.9	2.7	<0.001	0.29	0.14	1.8	0.4	<0.2	32.0	<0.01	0.14	1.5
459927		8.4	410	0.7	3.1	0.001	0.55	0.08	1.3	0.3	<0.2	23.4	<0.01	0.15	1.5
459928		9.5	470	0.7	3.2	0.001	2.53	0.07	1.4	0.5	<0.2	17.0	<0.01	0.61	0.8
459929		8.3	410	1.0	2.8	0.002	0.20	0.07	1.8	0.4	<0.2	35.9	<0.01	0.03	0.8
459930		664	720	4.7	26.8	0.098	3.88	0.78	7.9	3.2	0.4	50.5	<0.01	0.26	0.9
459931		9.2	380	0.8	3.0	0.002	0.66	0.05	1.5	0.5	<0.2	29.7	<0.01	0.13	0.7
459932		7.3	390	0.8	2.1	0.001	0.61	0.05	1.6	0.5	<0.2	46.3	<0.01	0.24	1.0
459933		6.6	370	0.9	1.7	0.001	0.07	0.05	1.6	0.4	<0.2	65.7	<0.01	0.04	0.7
459934		5.5	350	1.2	1.7	<0.001	0.03	0.06	2.1	0.3	<0.2	67.9	<0.01	0.14	1.0
459935		5.0	380	1.1	2.0	<0.001	0.01	0.20	2.7	0.3	<0.2	71.6	<0.01	<0.01	1.4
459936		5.5	400	1.1	1.8	<0.001	<0.01	0.16	2.6	0.2	<0.2	62.6	<0.01	0.01	1.6
459937		4.8	450	1.1	2.0	<0.001	0.01	0.16	2.4	0.2	<0.2	67.7	<0.01	0.01	1.3
459938		4.7	450	1.0	2.4	0.001	0.19	0.05	2.1	0.3	<0.2	67.0	<0.01	0.05	1.9
459939		5.3	460	1.0	2.6	<0.001	0.14	<0.05	2.1	0.3	<0.2	78.4	<0.01	0.04	1.2
459940		5.3	440	1.0	2.8	<0.001	0.13	<0.05	2.1	0.3	<0.2	77.6	<0.01	0.04	1.3
459941		6.8	390	1.5	2.7	0.001	1.26	0.05	1.9	0.4	<0.2	80.1	<0.01	0.53	1.1
459942		4.9	410	1.7	2.4	<0.001	0.02	0.05	2.1	0.2	<0.2	70.7	<0.01	0.01	1.4
459943		5.3	430	1.6	3.5	0.001	0.68	0.06	1.9	0.3	<0.2	50.3	<0.01	0.11	1.2
459944		4.4	420	1.2	2.2	<0.001	0.02	0.08	2.1	0.2	<0.2	62.3	<0.01	0.01	1.3
459945		3.2	380	1.1	2.6	<0.001	0.22	<0.05	1.0	0.2	<0.2	49.2	<0.01	0.03	1.2
459946		2.4	310	1.0	2.4	0.001	0.02	0.07	0.9	0.2	<0.2	53.4	<0.01	<0.01	1.2
459947		3.4	360	1.2	3.1	<0.001	0.16	0.07	1.2	0.2	<0.2	63.5	<0.01	0.04	1.4
459948		7.6	520	1.3	2.2	0.001	0.01	0.07	3.5	0.4	<0.2	84.2	<0.01	0.03	0.9
459949		6.0	410	1.1	2.2	<0.001	0.01	0.08	2.0	0.2	<0.2	54.2	<0.01	0.02	1.0



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Page: 2 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 15-FEB-2017
 Account: GIBMIN

Project: SGM2017-1

CERTIFICATE OF ANALYSIS KL17022021

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46	Mo-OG46	Au-AA23
		Ti	U	V	W	Y	Zn	Zr	Cu	Mo	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001	0.005
459910		0.69	4.17	113	2.60	16.30	80	9.6	0.263		0.239
459911		0.02	0.43	20	0.06	4.06	111	0.6			
459912		0.13	0.47	40	0.06	5.59	135	0.7			
459913		0.04	0.37	21	<0.05	3.87	225	0.5			
459914		0.02	0.23	20	0.08	3.72	271	0.5			
459915		<0.02	0.29	18	0.12	3.32	338	0.5			
459916		0.02	0.30	19	0.09	3.50	268	0.5			
459917		0.02	0.27	16	0.06	3.16	572	<0.5			
459918		<0.02	0.28	17	0.05	3.55	132	<0.5			
459919		<0.02	0.32	18	0.07	3.27	632	<0.5			
459920		<0.02	0.30	20	0.07	3.72	600	<0.5			
459921		<0.02	0.26	11	0.07	2.42	1090	<0.5			
459922		<0.02	0.25	19	0.10	3.89	572	0.6			
459923		0.02	0.22	17	0.15	2.49	6310	<0.5			
459924		0.03	0.24	17	0.12	3.03	2790	<0.5			
459925		0.02	0.60	15	0.08	5.58	845	<0.5			
459926		0.02	0.76	18	0.10	4.78	2360	<0.5			
459927		0.02	0.43	16	0.15	2.74	2070	<0.5			
459928		0.02	0.43	16	0.21	2.50	3550	<0.5	0.229		
459929		0.02	0.33	16	0.06	4.70	1200	<0.5			
459930		0.63	0.27	74	10.25	4.82	64	1.2			
459931		0.02	0.34	19	0.08	3.50	5220	<0.5			
459932		0.02	0.41	15	0.06	2.97	1100	<0.5			
459933		<0.02	0.37	9	<0.05	3.03	159	<0.5			
459934		<0.02	0.50	12	0.05	3.52	127	<0.5			
459935		<0.02	0.67	20	<0.05	6.18	65	<0.5			
459936		<0.02	0.82	20	<0.05	4.81	72	<0.5			
459937		<0.02	0.53	19	<0.05	4.60	140	0.7			
459938		<0.02	0.42	17	0.06	6.82	706	<0.5			
459939		0.02	0.64	13	0.05	5.98	561	<0.5			
459940		<0.02	0.62	13	0.06	5.91	559	<0.5			
459941		<0.02	1.65	9	0.11	6.69	5480	<0.5			
459942		<0.02	0.44	17	0.05	5.19	204	<0.5			
459943		0.02	0.37	18	0.11	5.44	3160	<0.5			
459944		<0.02	0.34	17	0.09	5.78	115	<0.5			
459945		<0.02	0.56	6	0.14	6.01	157	<0.5			
459946		<0.02	0.40	7	<0.05	3.31	133	<0.5			
459947		<0.02	0.40	9	0.13	3.76	760	<0.5			
459948		<0.02	0.21	33	0.06	5.85	295	<0.5			
459949		<0.02	0.23	20	0.07	3.90	353	<0.5			



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Page: 3 - A
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 15-FEB-2017
Account: GIBMIN

Project: SGM2017-1

CERTIFICATE OF ANALYSIS KL17022021

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
459950		0.03	2.93	1.70	26.7	0.3	<10	40	0.34	1.06	0.85	2.51	9.86	11.2	30	4.01
459951		5.84	0.02	1.52	0.3	<0.2	<10	30	0.10	0.01	0.56	0.04	6.49	10.2	6	0.05
459952		6.38	0.04	1.54	0.1	<0.2	<10	30	0.09	0.01	0.51	0.47	6.34	10.1	5	0.06
459953		6.12	0.11	1.49	0.4	<0.2	<10	30	0.09	0.02	0.35	0.70	7.06	11.6	5	0.06
459954		6.26	0.08	1.55	0.2	<0.2	<10	30	0.12	0.02	0.56	1.04	6.75	10.2	6	0.07
459955		6.36	0.06	1.55	0.4	<0.2	<10	30	0.10	0.02	0.39	0.84	8.56	9.8	6	0.12
459956		5.67	0.06	1.53	0.3	<0.2	<10	20	0.08	0.04	0.27	2.03	8.23	10.0	6	0.12
459957		5.94	0.10	1.69	0.3	<0.2	<10	30	0.10	0.05	0.33	1.44	9.58	10.5	6	0.11
459958		5.60	0.35	1.84	0.4	<0.2	<10	40	0.11	0.12	0.83	13.30	10.40	12.9	5	0.14
459959		5.97	0.11	1.61	0.6	<0.2	<10	30	0.09	0.05	1.23	0.70	7.08	9.5	5	0.12
459960		<0.02	0.11	1.56	0.6	<0.2	<10	20	0.08	0.05	1.12	0.63	6.78	9.1	4	0.12
459961		6.95	0.06	1.36	0.3	<0.2	<10	30	0.12	0.01	0.81	0.03	6.71	9.9	5	0.06
459962		6.17	0.02	1.34	0.3	<0.2	<10	50	0.14	0.01	0.91	0.01	6.50	9.8	6	0.21
459963		6.63	0.02	1.38	0.2	<0.2	<10	40	0.12	<0.01	1.48	0.02	5.67	9.9	6	0.10
459964		6.71	0.02	1.54	0.1	<0.2	<10	50	0.12	0.01	1.16	0.08	6.77	11.4	6	0.13
459965		7.32	0.02	1.46	0.5	<0.2	<10	40	0.12	0.01	1.37	0.06	6.13	11.2	6	0.28
459966		6.56	0.09	1.42	0.3	<0.2	<10	90	0.16	0.03	2.22	0.08	13.20	9.7	4	0.44
459967		6.84	0.10	1.65	0.4	<0.2	<10	30	0.15	0.02	1.86	0.23	11.30	11.0	4	0.69
459968		7.43	0.15	1.55	0.3	<0.2	<10	50	0.13	<0.01	1.67	0.04	6.74	11.8	4	0.86
459969		7.13	0.05	1.41	0.3	<0.2	<10	50	0.13	<0.01	0.98	0.01	6.43	10.6	5	0.37
459970		0.04	0.91	1.45	5.3	0.2	<10	100	0.26	0.19	0.88	0.41	11.80	10.9	28	0.42
459971		4.43	0.05	1.14	0.3	<0.2	<10	40	0.12	<0.01	0.89	0.01	6.40	9.1	5	0.07
459972		2.42	0.05	1.43	0.2	<0.2	<10	30	0.13	0.02	1.00	0.04	7.28	11.3	5	0.05
459973		5.19	0.13	1.53	0.2	<0.2	<10	30	0.07	0.05	1.55	0.58	8.36	10.9	4	0.09
459974		5.31	0.25	1.68	0.4	<0.2	<10	40	0.12	0.19	0.80	2.80	9.81	13.5	3	0.18
459975		5.18	0.13	1.46	0.3	<0.2	<10	30	0.11	0.05	1.59	0.74	13.20	12.9	5	0.08
459976		7.42	0.05	1.63	0.2	<0.2	<10	50	0.12	0.01	0.58	0.11	8.57	11.5	5	<0.05
459977		6.98	0.24	1.54	0.3	<0.2	<10	40	0.10	0.04	0.94	6.94	8.80	12.6	4	0.10
459978		7.32	0.04	1.53	0.4	<0.2	<10	60	0.12	0.02	0.75	0.09	9.40	11.9	5	0.10
459979		6.22	0.18	1.61	0.5	<0.2	<10	50	0.10	0.05	0.27	3.95	8.20	14.5	4	0.09
459980		<0.02	0.18	1.71	0.5	<0.2	<10	50	0.12	0.04	0.29	4.07	8.17	14.8	4	0.10
459981		6.33	0.10	1.61	0.3	<0.2	<10	50	0.12	0.01	0.57	0.71	8.74	11.3	5	0.06
459982		6.78	0.11	1.70	0.3	<0.2	<10	50	0.11	0.01	0.84	0.86	7.61	10.8	5	0.05
459983		6.52	0.31	1.89	1.0	<0.2	<10	30	0.10	0.08	0.32	4.65	5.44	14.6	4	0.10
459984		2.31	0.55	2.30	2.4	<0.2	<10	40	0.12	0.19	0.21	4.98	8.18	16.0	4	0.14
459985		3.78	0.10	2.14	0.4	<0.2	<10	30	0.09	0.03	0.35	0.43	5.97	10.8	3	0.09
463251		2.69	0.15	1.47	0.3	<0.2	<10	30	0.09	0.03	1.14	1.25	5.01	10.7	8	<0.05
463252		3.57	0.67	1.39	0.4	<0.2	<10	40	0.08	0.10	1.30	11.35	5.38	9.7	7	0.06
463253		3.50	0.91	1.27	0.8	<0.2	<10	40	0.06	0.14	1.07	9.23	5.00	8.0	5	0.09
463254		4.57	0.62	1.50	0.2	<0.2	<10	20	0.11	0.08	0.74	2.84	6.30	10.6	10	0.12



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Page: 3 - B
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 15-FEB-2017
 Account: GIBMIN

Project: SGM2017-1

CERTIFICATE OF ANALYSIS KL17022021

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
459950		2530	4.54	5.15	0.06	0.03	0.05	0.147	0.29	4.9	17.5	0.58	770	223	0.06
459951		5.7	2.06	4.56	<0.05	0.08	<0.01	<0.005	0.09	2.6	8.1	1.15	534	1.17	0.05
459952		9.2	2.20	4.66	<0.05	0.05	<0.01	0.016	0.09	2.6	8.3	1.15	715	12.95	0.05
459953		44.1	2.11	4.14	<0.05	0.05	0.01	0.026	0.10	2.8	7.9	1.08	712	0.73	0.05
459954		35.4	2.38	4.37	<0.05	0.05	0.02	0.050	0.14	2.7	8.3	1.06	1140	0.94	0.05
459955		18.7	2.29	4.65	<0.05	0.04	0.01	0.016	0.13	3.6	8.2	1.03	925	1.50	0.06
459956		23.2	2.53	4.61	<0.05	0.02	0.02	0.041	0.12	3.2	8.7	1.04	783	1.69	0.05
459957		52.1	2.83	4.94	<0.05	<0.02	0.03	0.043	0.17	3.8	10.2	1.09	2300	0.75	0.05
459958		212	3.92	4.79	0.05	<0.02	0.31	1.115	0.25	4.2	10.0	1.13	3730	0.79	0.02
459959		45.0	2.69	4.50	<0.05	<0.02	0.02	0.102	0.17	2.9	9.4	1.05	2480	1.46	0.04
459960		42.5	2.58	4.33	<0.05	<0.02	0.01	0.091	0.17	2.8	9.1	1.01	2300	1.50	0.04
459961		53.1	1.82	3.83	<0.05	0.06	<0.01	0.005	0.10	2.8	7.6	1.01	516	0.66	0.04
459962		19.8	1.74	3.64	<0.05	0.07	<0.01	<0.005	0.16	2.6	7.0	0.98	400	1.23	0.05
459963		5.0	1.95	3.97	<0.05	0.05	<0.01	<0.005	0.13	2.3	7.3	1.05	930	1.26	0.05
459964		5.2	2.15	4.59	<0.05	0.06	<0.01	0.007	0.16	2.8	8.5	1.14	877	1.24	0.05
459965		5.5	2.01	4.38	<0.05	0.06	<0.01	0.006	0.17	2.5	8.4	1.12	842	0.66	0.04
459966		47.2	2.19	4.44	<0.05	0.04	<0.01	0.011	0.15	5.1	7.5	1.02	1050	15.40	0.04
459967		127.5	2.48	5.06	<0.05	0.03	0.01	0.020	0.18	4.3	9.2	1.19	1220	5.78	0.04
459968		225	2.26	4.84	<0.05	0.05	<0.01	0.006	0.28	2.7	9.8	1.26	929	12.35	0.04
459969		62.1	1.83	3.98	<0.05	0.06	<0.01	0.005	0.19	2.6	8.1	1.10	550	18.10	0.04
459970		3100	3.01	5.64	0.11	0.23	0.05	0.047	0.19	6.0	10.8	0.72	448	216	0.09
459971		70.2	1.45	3.37	<0.05	0.07	<0.01	<0.005	0.11	2.7	6.8	0.85	378	1.22	0.04
459972		66.5	1.91	4.43	<0.05	0.07	<0.01	0.006	0.10	3.0	8.8	1.12	669	2.04	0.04
459973		86.9	2.56	4.68	<0.05	<0.02	0.01	0.031	0.12	3.4	9.2	1.05	1660	10.45	0.03
459974		111.5	2.93	4.76	<0.05	0.02	0.03	0.163	0.15	3.7	10.5	1.09	1860	5.39	0.03
459975		63.9	2.89	5.21	0.05	<0.02	0.01	0.052	0.13	5.2	10.5	1.13	2440	0.67	0.05
459976		27.0	2.16	4.83	<0.05	0.07	<0.01	0.011	0.09	3.1	10.5	1.23	704	0.96	0.04
459977		165.0	2.51	4.85	<0.05	0.04	0.03	0.248	0.11	3.3	9.9	1.12	1240	1.30	0.04
459978		19.8	2.17	5.03	<0.05	0.07	<0.01	0.006	0.11	3.3	9.4	1.17	819	2.76	0.05
459979		113.0	2.93	4.67	0.05	0.03	0.02	0.166	0.16	3.0	10.4	1.13	1120	1.77	0.04
459980		120.5	3.09	4.89	<0.05	0.03	0.02	0.174	0.18	3.0	10.8	1.17	1200	1.60	0.04
459981		62.7	2.34	5.46	<0.05	0.06	<0.01	0.021	0.09	3.2	10.5	1.22	958	5.15	0.05
459982		62.4	2.37	5.20	<0.05	0.05	0.01	0.024	0.08	2.9	10.3	1.28	901	1.35	0.05
459983		157.5	3.15	5.04	0.06	<0.02	0.02	0.149	0.11	2.2	11.8	1.15	1260	37.1	0.03
459984		303	3.74	7.45	0.06	<0.02	0.04	0.344	0.12	3.2	16.0	1.51	1140	290	0.03
459985		65.6	3.27	6.57	0.05	<0.02	<0.01	0.074	0.10	2.4	15.1	1.45	1260	4.26	0.05
463251		36.9	2.16	4.69	<0.05	<0.02	0.01	0.011	0.07	2.2	9.6	1.03	1720	0.99	0.04
463252		259	2.35	3.61	<0.05	<0.02	0.03	0.242	0.14	2.5	8.1	0.83	2060	4.05	0.03
463253		273	2.21	3.03	<0.05	<0.02	0.03	0.303	0.19	2.2	7.7	0.70	1930	9.56	0.02
463254		142.5	2.38	4.36	<0.05	<0.02	0.02	0.114	0.10	2.8	9.0	1.02	904	1.61	0.04



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Page: 3 - C
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 15-FEB-2017
Account: GIBMIN

Project: SGM2017-1

CERTIFICATE OF ANALYSIS KL17022021

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
459950		21.8	750	76.4	14.7	0.215	2.21	1.94	2.9	4.4	0.7	56.3	<0.01	0.75	3.3
459951		5.7	450	1.0	1.8	0.001	0.01	0.18	1.9	0.2	0.2	43.9	<0.01	0.01	1.1
459952		5.8	460	1.4	1.8	0.001	0.04	0.15	1.7	0.2	0.2	36.2	<0.01	0.02	1.3
459953		6.1	460	2.4	2.0	<0.001	0.14	0.18	1.8	0.3	0.2	38.3	<0.01	0.02	1.6
459954		5.9	460	1.7	2.8	<0.001	0.16	0.15	1.9	0.2	0.2	38.7	<0.01	0.02	1.5
459955		5.8	480	2.1	2.8	0.001	0.08	0.14	2.2	0.2	0.2	40.4	<0.01	0.02	1.5
459956		5.7	470	1.6	2.4	<0.001	0.12	0.09	2.0	0.2	<0.2	27.1	<0.01	0.02	1.4
459957		6.0	500	1.3	3.4	<0.001	0.13	0.05	2.5	0.3	<0.2	13.9	<0.01	0.02	1.9
459958		6.3	500	1.0	4.8	<0.001	0.96	<0.05	2.1	0.5	<0.2	20.6	<0.01	0.15	1.7
459959		6.2	520	1.0	3.4	0.001	0.22	0.07	2.1	0.2	<0.2	33.4	<0.01	0.04	1.4
459960		5.9	500	1.1	3.3	0.001	0.21	0.05	1.9	0.2	<0.2	31.2	<0.01	0.04	1.2
459961		5.2	450	0.8	2.1	0.001	<0.01	0.20	1.7	0.2	0.2	43.4	<0.01	<0.01	1.2
459962		5.4	430	0.5	4.6	<0.001	<0.01	0.21	1.8	0.2	0.2	44.9	<0.01	0.01	1.2
459963		5.4	460	0.5	3.0	<0.001	0.04	0.15	1.7	0.3	0.2	45.4	<0.01	0.01	1.1
459964		6.5	420	0.7	3.9	<0.001	0.04	0.16	2.2	0.3	0.2	48.4	<0.01	<0.01	1.2
459965		6.8	460	0.5	5.3	<0.001	0.03	0.18	2.0	0.3	0.2	50.1	<0.01	0.01	0.9
459966		5.3	490	1.4	3.7	0.002	0.03	0.17	3.5	0.3	0.2	74.0	<0.01	0.02	1.0
459967		6.5	460	1.0	4.8	0.001	0.06	0.16	3.1	0.4	0.2	64.0	<0.01	<0.01	1.2
459968		6.1	500	0.5	9.1	0.001	0.07	0.14	2.1	0.3	0.2	51.8	<0.01	<0.01	1.0
459969		5.6	470	0.5	5.5	0.003	0.03	0.16	1.8	0.2	0.2	50.5	<0.01	<0.01	0.9
459970		25.4	640	11.3	9.0	0.207	0.44	2.56	5.4	1.3	1.1	41.7	<0.01	0.10	1.9
459971		5.3	450	0.9	2.3	<0.001	0.01	0.17	1.5	0.2	0.2	45.2	<0.01	<0.01	0.9
459972		6.5	490	1.0	2.1	0.001	0.02	0.17	2.0	0.2	0.2	48.2	<0.01	0.01	0.8
459973		5.6	480	1.0	2.3	0.003	0.16	0.08	1.9	0.2	<0.2	48.4	<0.01	0.03	0.8
459974		6.5	540	1.3	3.3	0.001	0.47	0.11	1.9	0.3	0.2	40.1	<0.01	0.11	1.0
459975		7.2	480	1.1	2.8	<0.001	0.18	0.07	2.9	0.3	<0.2	47.6	<0.01	0.03	0.9
459976		7.0	430	0.9	1.7	<0.001	0.03	0.19	2.1	0.2	0.2	44.5	<0.01	0.01	0.9
459977		6.0	600	1.0	2.2	<0.001	0.30	0.13	1.9	0.3	0.2	41.6	<0.01	0.05	0.8
459978		6.6	500	0.8	2.2	<0.001	0.03	0.19	2.2	0.4	0.3	47.1	<0.01	0.01	0.8
459979		7.2	500	1.6	3.1	<0.001	0.42	0.10	1.7	0.2	0.2	23.7	<0.01	0.05	1.0
459980		7.4	510	1.1	3.5	0.001	0.45	0.09	1.8	0.3	0.2	25.2	<0.01	0.05	0.9
459981		6.6	490	0.9	1.8	0.001	0.07	0.13	2.0	0.3	0.2	40.0	<0.01	0.01	0.9
459982		7.1	530	0.8	1.5	<0.001	0.04	0.13	2.0	0.3	0.2	44.8	<0.01	0.01	0.8
459983		7.3	520	3.7	2.0	0.003	0.29	0.12	2.0	0.3	0.2	39.8	<0.01	0.07	0.8
459984		7.6	490	0.9	2.3	0.061	0.40	<0.05	2.7	0.4	<0.2	28.0	<0.01	0.21	1.1
459985		6.3	510	0.9	1.8	0.001	0.03	0.05	3.4	0.3	<0.2	26.9	<0.01	0.02	0.8
463251		9.1	410	1.0	1.3	<0.001	0.11	0.08	1.8	0.2	<0.2	36.0	<0.01	0.03	1.4
463252		7.8	380	1.1	2.6	<0.001	0.51	0.06	1.5	0.4	<0.2	29.6	<0.01	0.08	2.2
463253		7.1	330	1.1	3.5	<0.001	0.57	<0.05	1.3	0.4	<0.2	17.3	<0.01	0.10	1.1
463254		10.7	420	1.5	2.0	<0.001	0.15	0.07	1.9	0.3	<0.2	27.1	<0.01	0.17	1.1



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Page: 3 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 15-FEB-2017
 Account: GIBMIN

Project: SGM2017-1

CERTIFICATE OF ANALYSIS KL17022021

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46	Mo-OG46	Au-AA23
		TI	U	V	W	Y	Zn	Zr	Cu	Mo	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001	0.005
459950		0.28	0.67	32	2.22	5.07	446	1.0	0.246	0.028	0.326
459951		<0.02	0.36	21	0.06	5.03	73	0.7			
459952		<0.02	0.40	20	<0.05	4.58	266	0.5			
459953		<0.02	0.85	18	<0.05	5.17	401	0.5			
459954		<0.02	0.46	20	0.08	5.51	541	0.5			
459955		<0.02	0.48	21	0.05	5.86	479	0.5			
459956		0.02	0.37	21	0.07	4.77	685	<0.5			
459957		0.02	0.54	20	0.10	9.86	816	<0.5			
459958		0.03	0.55	17	0.19	10.20	5330	<0.5			
459959		0.02	0.35	18	0.18	5.67	603	<0.5			
459960		0.02	0.32	17	0.18	5.21	559	<0.5			
459961		<0.02	0.39	19	<0.05	4.83	56	0.5			
459962		0.04	0.42	20	0.09	4.95	34	0.6			
459963		0.02	0.41	19	0.05	4.60	51	0.5			
459964		0.03	0.43	22	<0.05	5.77	175	0.6			
459965		0.04	0.41	23	<0.05	5.54	102	0.6			
459966		0.02	0.40	26	<0.05	9.15	87	<0.5			
459967		0.03	0.44	28	<0.05	8.86	250	<0.5			
459968		0.07	0.40	27	<0.05	6.17	94	<0.5			
459969		0.03	0.32	22	<0.05	4.81	55	0.7			
459970		0.11	0.39	59	13.65	7.11	58	6.3	0.310	0.030	0.275
459971		<0.02	0.32	17	<0.05	4.40	31	0.7			
459972		<0.02	0.29	22	<0.05	5.56	93	0.7			
459973		<0.02	0.36	21	0.13	4.95	519	<0.5			
459974		0.02	0.26	18	0.12	6.39	1280	<0.5			
459975		0.02	0.23	25	0.07	6.88	420	<0.5			
459976		<0.02	0.28	22	<0.05	6.57	197	0.6			
459977		<0.02	0.19	21	<0.05	6.16	2850	<0.5			
459978		<0.02	0.20	24	<0.05	7.91	185	0.7			
459979		0.02	0.23	19	<0.05	6.29	1740	<0.5			
459980		0.02	0.23	20	<0.05	6.27	1810	<0.5			
459981		<0.02	0.27	23	<0.05	7.39	439	0.7			
459982		<0.02	0.25	24	<0.05	6.85	445	0.5			
459983		0.02	0.22	19	0.09	3.82	1600	<0.5			
459984		<0.02	0.18	29	0.16	5.00	1620	<0.5		0.031	
459985		<0.02	0.27	29	0.09	5.98	610	<0.5			
463251		<0.02	0.39	17	<0.05	3.04	505	<0.5			
463252		0.02	0.57	11	0.05	3.18	5040	<0.5			
463253		0.02	0.21	9	0.07	2.84	4020	<0.5			
463254		<0.02	0.37	19	<0.05	3.75	1360	<0.5			



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Page: 4 - A
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 15-FEB-2017
Account: GIBMIN

Project: SGM2017-1

CERTIFICATE OF ANALYSIS KL17022021

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
463255		4.86	0.16	1.36	0.3	<0.2	<10	20	0.10	0.03	1.87	0.31	9.47	9.8	10	0.19
463256		5.09	0.90	1.36	1.0	<0.2	<10	30	0.10	0.20	2.09	11.15	15.95	11.5	10	0.10
463257		6.72	0.29	1.53	0.2	<0.2	<10	30	0.09	0.10	2.06	3.53	9.51	10.7	11	0.12
463258		4.29	0.65	1.49	1.6	<0.2	<10	30	0.10	0.31	0.95	8.52	17.25	12.6	8	0.10
463259		6.93	4.48	1.43	0.8	0.2	<10	30	0.10	0.35	1.46	8.45	10.55	13.0	8	0.11
463260		<0.02	5.28	1.44	0.8	<0.2	<10	30	0.10	0.31	1.51	8.70	11.25	13.1	9	0.11
463261		6.02	0.30	1.32	0.3	<0.2	<10	20	0.09	0.18	1.42	10.50	11.30	10.1	7	0.12
463262		2.11	0.50	1.45	0.4	<0.2	<10	20	0.11	0.35	1.01	8.49	15.05	12.0	5	0.13
463263		3.70	0.46	1.30	0.4	<0.2	<10	20	0.07	0.58	2.28	6.14	7.29	9.8	5	0.10
463264		6.93	0.07	1.21	0.1	<0.2	<10	40	0.11	0.04	1.56	0.63	6.11	8.6	7	0.09
463265		7.35	0.05	1.13	0.3	<0.2	<10	40	0.11	0.02	1.32	0.04	6.18	8.5	8	0.08
463266		7.75	0.08	1.13	0.2	<0.2	<10	40	0.08	0.02	1.30	0.34	5.57	8.2	8	0.06
463267		7.36	0.15	1.28	0.2	<0.2	<10	40	0.10	0.02	1.32	0.52	6.83	9.6	8	0.06
463268		5.42	0.16	1.29	0.5	<0.2	<10	40	0.10	0.03	1.10	2.09	7.27	9.8	8	0.08
463269		7.34	0.05	1.12	0.2	<0.2	<10	40	0.09	0.01	1.15	0.28	5.45	8.2	8	0.06
463270		0.04	0.50	2.07	14.5	<0.2	10	70	0.36	0.51	1.19	0.22	9.53	53.5	266	1.37
463271		7.89	0.09	1.23	0.2	<0.2	<10	60	0.10	0.01	1.23	0.04	6.99	8.9	9	0.07
463272		7.66	0.16	1.31	0.4	<0.2	<10	60	0.11	0.05	1.21	2.52	6.32	9.2	8	0.06
463273		7.27	0.18	1.16	0.8	<0.2	<10	80	0.10	0.11	0.99	1.48	4.59	11.7	6	0.09
463274		7.64	0.06	0.96	0.2	<0.2	<10	60	0.10	0.01	1.14	0.03	5.53	7.4	7	<0.05
463275		7.34	0.23	1.32	0.2	<0.2	<10	70	0.10	0.04	1.10	1.89	5.57	9.9	9	0.06
463276		2.68	0.14	1.27	0.4	<0.2	<10	60	0.13	0.03	0.86	0.60	5.97	9.6	9	<0.05
463277		4.37	0.28	1.28	0.5	<0.2	<10	60	0.09	0.03	1.66	4.39	5.17	9.7	8	0.06
463278		5.86	0.08	0.96	0.3	<0.2	<10	90	0.09	0.02	1.15	0.16	4.82	7.8	6	<0.05
463279		6.49	0.16	1.14	0.3	<0.2	<10	60	0.09	0.03	1.00	1.10	4.69	9.1	7	0.05
463280		<0.02	0.17	1.13	0.2	<0.2	<10	60	0.09	0.03	0.96	1.13	5.30	9.3	8	0.05
463281		7.04	0.52	1.21	0.6	<0.2	<10	60	0.11	0.08	1.50	2.80	5.84	10.1	8	0.07
463282		5.67	0.82	1.42	0.3	<0.2	<10	60	0.11	0.08	0.63	4.70	9.64	11.2	8	0.10
463283		6.55	0.12	1.21	0.3	<0.2	<10	70	0.12	0.01	0.37	0.34	11.20	9.2	8	0.08
463284		6.34	0.15	1.25	0.4	<0.2	<10	70	0.10	0.04	0.29	1.61	9.46	10.4	7	0.09
463285		6.58	0.09	1.20	0.3	<0.2	<10	70	0.11	0.02	0.29	0.08	9.96	8.9	7	0.11
463286		5.85	0.16	1.10	0.3	<0.2	<10	90	0.09	0.06	0.22	0.47	10.40	9.3	8	0.11
463287		5.55	0.76	1.22	0.6	<0.2	<10	70	0.11	0.23	0.74	10.60	9.91	11.3	7	0.11
463288		6.92	0.33	1.17	0.5	<0.2	<10	50	0.11	0.05	1.57	3.20	9.73	9.1	8	0.11
463289		6.07	0.32	1.20	0.4	<0.2	<10	60	0.12	0.06	1.12	5.97	9.00	9.4	9	0.12
463290		0.04	2.91	1.74	28.5	0.3	<10	60	0.36	1.06	0.84	2.19	9.92	11.3	30	4.01
463291		5.36	0.76	1.40	0.4	<0.2	<10	50	0.11	0.33	0.45	4.53	8.68	10.9	9	0.10
463292		4.11	0.62	1.64	0.7	<0.2	<10	50	0.12	0.16	0.29	11.25	11.55	14.0	10	0.12
463293		6.28	0.82	1.53	0.8	<0.2	<10	70	0.13	0.18	0.84	8.06	10.95	13.1	8	0.13
463294		7.44	0.21	1.33	0.5	<0.2	<10	70	0.12	0.03	0.91	1.96	6.55	10.7	9	0.27



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Page: 4 - B
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 15-FEB-2017
Account: GIBMIN

Project: SGM2017-1

CERTIFICATE OF ANALYSIS KL17022021

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
463255		33.3	2.23	4.12	<0.05	<0.02	0.01	0.010	0.10	3.9	8.0	0.92	733	0.69	0.04
463256		214	2.68	4.03	0.05	0.02	0.06	0.277	0.16	6.4	7.6	0.89	2010	0.67	0.03
463257		73.6	2.59	4.46	<0.05	<0.02	0.02	0.070	0.15	3.7	8.8	0.97	1910	0.61	0.04
463258		152.5	2.86	4.05	0.06	<0.02	0.06	0.165	0.20	6.7	8.2	0.95	2890	0.88	0.03
463259		2880	2.84	3.90	<0.05	<0.02	0.06	0.256	0.18	4.2	7.1	0.89	2610	4.70	0.03
463260		2910	2.94	3.96	0.05	<0.02	0.06	0.261	0.17	4.5	7.4	0.91	2700	4.45	0.03
463261		80.0	2.33	3.65	<0.05	<0.02	0.07	0.078	0.19	4.7	7.4	0.80	3260	0.74	0.03
463262		107.5	2.64	3.50	0.06	<0.02	0.05	0.113	0.26	6.1	8.0	0.83	4820	3.48	0.02
463263		103.5	2.40	3.27	<0.05	<0.02	0.04	0.215	0.19	3.1	7.9	0.76	3090	1.15	0.03
463264		21.3	1.89	3.55	<0.05	0.03	0.01	0.009	0.14	2.5	6.6	0.77	1060	0.47	0.04
463265		23.9	1.74	3.42	<0.05	0.04	<0.01	0.005	0.12	2.5	6.7	0.76	887	0.73	0.04
463266		32.0	1.69	3.01	<0.05	0.03	<0.01	0.007	0.13	2.3	5.7	0.73	964	0.83	0.04
463267		47.4	1.93	3.95	<0.05	0.03	<0.01	0.007	0.13	3.0	7.2	0.84	1120	0.94	0.04
463268		82.1	2.02	3.72	<0.05	0.03	0.02	0.028	0.13	3.0	7.0	0.86	1060	0.68	0.04
463269		22.0	1.70	3.37	<0.05	0.04	<0.01	0.005	0.11	2.3	5.5	0.74	865	0.95	0.04
463270		851	5.58	6.25	0.09	0.04	0.02	0.023	0.69	4.2	4.7	5.59	479	91.1	0.11
463271		33.6	1.80	3.57	<0.05	0.04	<0.01	0.005	0.11	2.9	6.0	0.82	685	0.66	0.04
463272		49.8	1.99	3.41	<0.05	0.03	0.01	0.054	0.15	2.7	6.3	0.82	1180	0.84	0.03
463273		45.9	2.38	3.07	<0.05	0.02	0.01	0.019	0.19	1.9	6.2	0.75	1270	2.15	0.03
463274		10.5	1.38	2.62	<0.05	0.03	<0.01	<0.005	0.11	2.4	4.7	0.65	780	1.25	0.04
463275		72.8	1.98	3.50	<0.05	0.04	0.01	0.017	0.14	2.3	6.7	0.87	1320	1.78	0.04
463276		38.7	1.80	3.50	<0.05	0.04	<0.01	<0.005	0.10	2.5	6.5	0.85	1010	1.15	0.04
463277		86.3	2.11	3.26	<0.05	0.02	0.02	0.043	0.15	2.2	6.6	0.79	1580	1.03	0.03
463278		20.7	1.45	2.75	<0.05	<0.02	<0.01	<0.005	0.12	2.2	5.0	0.60	1000	0.91	0.04
463279		53.1	1.59	3.00	<0.05	0.03	0.01	0.020	0.14	1.9	5.8	0.77	1140	0.70	0.03
463280		46.6	1.56	3.06	<0.05	0.03	0.01	0.019	0.14	2.2	6.2	0.76	1110	0.95	0.03
463281		161.0	1.85	3.31	<0.05	0.03	0.02	0.116	0.15	2.4	6.2	0.83	1500	0.70	0.03
463282		276	2.24	4.02	<0.05	0.03	0.04	0.174	0.15	3.7	6.7	0.95	1360	0.67	0.03
463283		39.7	1.65	3.50	<0.05	0.03	<0.01	0.011	0.12	4.4	5.7	0.81	590	0.46	0.04
463284		49.4	1.84	3.22	<0.05	0.03	0.01	0.050	0.18	3.9	6.4	0.80	994	0.54	0.03
463285		34.3	1.69	3.48	<0.05	0.03	<0.01	0.008	0.14	3.9	5.9	0.76	672	0.55	0.04
463286		45.7	1.75	3.16	<0.05	0.02	<0.01	0.016	0.16	4.0	5.8	0.65	728	1.44	0.04
463287		231	2.52	3.01	<0.05	0.02	0.04	0.653	0.17	4.1	5.5	0.72	1360	3.23	0.03
463288		80.2	1.96	3.14	<0.05	0.03	0.01	0.215	0.10	3.8	5.8	0.77	1380	1.05	0.03
463289		71.2	2.24	3.25	<0.05	0.03	0.03	0.386	0.13	3.5	5.6	0.74	1160	1.27	0.04
463290		2520	4.53	5.02	0.05	0.03	0.04	0.141	0.30	4.9	16.6	0.57	761	216	0.06
463291		280	2.24	3.67	<0.05	0.03	0.02	0.469	0.12	3.5	6.6	0.90	1120	1.19	0.04
463292		152.0	3.25	4.62	<0.05	0.02	0.05	0.586	0.13	4.4	8.0	1.05	1760	1.12	0.04
463293		262	3.12	3.94	<0.05	<0.02	0.05	0.255	0.18	4.3	7.8	0.91	1970	3.24	0.03
463294		69.3	1.96	3.66	<0.05	0.03	0.01	0.051	0.16	2.7	6.2	0.92	900	1.25	0.04



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Page: 4 - C
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 15-FEB-2017
Account: GIBMIN

Project: SGM2017-1

CERTIFICATE OF ANALYSIS KL17022021

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
463255		9.7	420	1.8	2.2	<0.001	0.04	0.10	2.7	0.2	<0.2	59.8	<0.01	0.03	1.3
463256		9.8	410	2.5	3.3	<0.001	0.43	0.09	2.9	0.5	<0.2	52.1	<0.01	0.14	1.9
463257		10.0	400	2.6	3.2	<0.001	0.16	0.08	2.8	0.3	<0.2	49.6	<0.01	0.03	1.8
463258		10.9	400	3.6	4.3	0.001	0.52	<0.05	2.7	0.5	<0.2	24.3	<0.01	0.18	2.3
463259		10.2	380	4.3	3.6	<0.001	0.74	<0.05	2.0	0.6	<0.2	35.6	<0.01	0.22	1.4
463260		10.5	400	4.3	3.6	0.001	0.75	0.05	2.1	0.6	<0.2	36.7	<0.01	0.24	1.5
463261		8.8	400	3.8	4.1	<0.001	0.45	0.05	2.1	0.4	<0.2	34.3	<0.01	0.06	1.7
463262		9.2	440	3.6	5.3	0.002	0.63	<0.05	1.9	0.3	<0.2	15.4	<0.01	0.13	1.4
463263		7.2	380	2.5	3.6	0.001	0.52	<0.05	1.6	0.3	<0.2	40.1	<0.01	0.30	1.0
463264		7.1	380	1.2	2.8	<0.001	0.09	0.11	1.6	0.2	<0.2	41.5	<0.01	0.02	1.1
463265		7.4	370	1.0	2.5	<0.001	0.03	0.12	1.6	0.3	<0.2	42.7	<0.01	0.01	1.0
463266		6.1	360	0.9	2.4	<0.001	0.07	0.10	1.3	0.2	<0.2	36.4	<0.01	0.02	0.7
463267		8.0	390	1.0	2.7	<0.001	0.09	0.10	1.5	0.2	<0.2	39.8	<0.01	0.03	1.2
463268		8.1	430	1.0	2.5	<0.001	0.15	0.13	1.6	0.3	<0.2	33.5	<0.01	0.02	0.9
463269		6.8	380	0.9	2.2	<0.001	0.04	0.09	1.4	0.2	<0.2	38.5	<0.01	0.01	0.8
463270		648	690	5.5	28.6	0.097	3.85	0.76	8.9	3.5	0.4	53.7	<0.01	0.18	1.0
463271		7.8	390	1.2	2.3	<0.001	<0.01	0.10	1.6	0.2	0.2	43.8	<0.01	0.02	1.1
463272		7.5	410	0.9	2.8	<0.001	0.20	<0.05	1.4	<0.2	<0.2	32.5	<0.01	0.06	1.0
463273		7.0	390	1.2	3.5	<0.001	1.03	<0.05	1.2	0.2	<0.2	26.9	<0.01	0.23	0.8
463274		5.8	340	0.9	1.8	0.001	0.02	0.05	1.0	0.2	<0.2	34.2	<0.01	0.02	0.8
463275		7.7	410	1.1	2.4	<0.001	0.23	<0.05	1.5	0.2	0.2	34.2	<0.01	0.08	0.9
463276		7.4	400	1.1	1.6	<0.001	0.13	0.06	1.3	0.2	0.2	35.3	<0.01	0.07	0.8
463277		7.6	410	1.1	2.5	<0.001	0.33	<0.05	1.3	0.2	<0.2	33.3	<0.01	0.08	0.6
463278		5.6	320	1.6	2.0	<0.001	0.10	<0.05	1.0	<0.2	<0.2	34.4	<0.01	0.03	0.8
463279		6.7	390	7.2	2.4	<0.001	0.14	<0.05	1.3	<0.2	<0.2	30.7	<0.01	0.03	0.7
463280		7.2	390	7.3	2.6	<0.001	0.14	0.05	1.3	0.2	<0.2	30.3	<0.01	0.04	0.7
463281		7.6	410	5.8	2.8	<0.001	0.33	0.06	1.5	0.2	0.2	35.0	<0.01	0.09	0.8
463282		9.1	450	3.3	3.0	<0.001	0.37	0.05	2.1	0.3	0.2	23.9	<0.01	0.07	0.7
463283		7.7	410	3.0	2.2	<0.001	0.06	0.09	1.5	0.2	0.2	33.2	<0.01	0.02	1.0
463284		7.8	440	2.1	3.3	<0.001	0.25	0.05	1.5	0.2	<0.2	21.8	<0.01	0.02	0.9
463285		7.0	390	1.8	2.6	<0.001	0.06	0.05	1.5	0.2	0.2	27.6	<0.01	0.01	1.0
463286		6.5	360	1.4	3.0	<0.001	0.14	0.05	1.3	0.2	<0.2	18.4	<0.01	0.02	1.2
463287		7.1	390	1.2	3.0	<0.001	1.18	<0.05	2.2	0.4	0.2	29.1	<0.01	0.23	1.1
463288		7.0	380	1.2	1.9	<0.001	0.23	0.08	2.2	0.3	0.2	51.8	<0.01	0.04	1.0
463289		7.0	380	1.0	2.5	<0.001	0.63	0.07	1.9	0.2	0.2	40.4	<0.01	0.08	0.8
463290		21.1	740	75.5	14.6	0.221	2.21	1.48	2.9	3.8	0.7	54.1	<0.01	0.62	3.5
463291		8.3	460	1.1	2.2	0.001	0.43	0.07	1.9	0.3	0.2	26.4	<0.01	0.19	0.8
463292		9.4	490	2.1	2.6	<0.001	0.99	<0.05	3.3	0.5	0.2	19.8	<0.01	0.09	0.9
463293		8.3	440	2.3	3.4	0.001	1.05	<0.05	2.5	0.4	0.2	33.6	<0.01	0.12	0.8
463294		8.2	440	1.0	4.4	<0.001	0.23	0.11	1.7	0.2	0.2	36.5	<0.01	0.05	0.5



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Page: 4 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 15-FEB-2017
 Account: GIBMIN

Project: SGM2017-1

CERTIFICATE OF ANALYSIS KL17022021

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46	Mo-OG46	Au-AA23
		TI	U	V	W	Y	Zn	Zr	Cu	Mo	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001	0.005
463255		<0.02	0.40	20	<0.05	6.00	206	<0.5			
463256		0.02	0.59	18	<0.05	9.88	4460	<0.5			
463257		0.02	0.66	19	<0.05	6.75	1400	<0.5			
463258		0.04	0.64	14	0.06	10.90	3670	<0.5			
463259		0.02	0.49	14	0.07	5.85	3630	<0.5	0.277		0.063
463260		0.02	0.47	14	0.07	6.21	3760	<0.5	0.275		
463261		0.03	0.55	12	0.10	6.03	3970	<0.5			
463262		0.04	0.74	11	0.12	7.59	3770	<0.5			
463263		0.02	0.27	10	0.07	4.77	2640	<0.5			
463264		0.02	0.42	14	<0.05	5.14	344	<0.5			
463265		<0.02	0.28	14	<0.05	5.17	98	<0.5			
463266		<0.02	0.25	12	<0.05	4.04	202	<0.5			
463267		0.02	0.47	14	<0.05	4.38	310	<0.5			
463268		<0.02	0.38	14	<0.05	4.83	964	<0.5			
463269		<0.02	0.33	13	<0.05	3.96	230	<0.5			
463270		0.68	0.30	72	12.00	5.18	64	1.3			
463271		<0.02	0.37	15	<0.05	4.98	74	0.5			
463272		<0.02	0.34	13	<0.05	4.39	1280	<0.5			
463273		0.02	0.42	10	<0.05	3.97	770	<0.5			
463274		<0.02	0.21	10	<0.05	3.55	79	<0.5			
463275		<0.02	0.43	15	<0.05	4.49	882	0.5			
463276		<0.02	0.37	15	<0.05	4.29	341	0.5			
463277		<0.02	0.33	12	<0.05	4.07	2000	<0.5			
463278		<0.02	0.33	9	<0.05	2.84	180	<0.5			
463279		0.02	0.22	12	<0.05	4.23	635	<0.5			
463280		<0.02	0.23	12	<0.05	4.29	600	<0.5			
463281		0.02	0.42	13	<0.05	4.46	1400	<0.5			
463282		<0.02	0.32	17	<0.05	6.16	2280	<0.5			
463283		<0.02	0.36	14	<0.05	6.10	230	<0.5			
463284		0.02	0.50	13	<0.05	5.50	814	<0.5			
463285		<0.02	0.41	13	<0.05	5.06	155	<0.5			
463286		0.02	0.48	11	<0.05	5.20	366	<0.5			
463287		0.02	0.34	14	<0.05	7.18	4850	<0.5			
463288		<0.02	0.28	16	<0.05	8.27	1560	<0.5			
463289		<0.02	0.32	15	<0.05	6.64	2450	<0.5			
463290		0.28	0.69	32	1.31	5.06	438	1.0	0.245	0.029	0.318
463291		<0.02	0.43	17	<0.05	6.18	2130	<0.5			
463292		<0.02	0.31	25	0.06	7.49	5410	<0.5			
463293		0.02	0.38	16	0.11	8.16	3910	<0.5			
463294		0.03	0.28	18	<0.05	5.16	982	<0.5			



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Page: 5 - A
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 15-FEB-2017
 Account: GIBMIN

Project: SGM2017-1

CERTIFICATE OF ANALYSIS KL17022021

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
463295		3.94	0.06	1.07	0.4	<0.2	<10	70	0.12	<0.01	0.75	0.01	6.32	8.7	10	0.47
463296		3.55	0.26	1.24	0.3	<0.2	<10	80	0.12	0.01	0.87	0.01	6.47	9.8	9	0.64
463297		7.69	0.05	1.17	0.5	<0.2	<10	70	0.10	0.01	0.79	0.19	6.08	9.9	8	0.07
463298		7.19	0.07	1.29	0.2	<0.2	<10	70	0.11	0.02	0.66	0.01	7.44	9.5	5	0.13
463299		6.68	0.37	1.28	0.4	<0.2	<10	60	0.11	0.09	0.25	3.81	10.20	10.2	6	0.10
463300		<0.02	0.39	1.26	0.3	<0.2	<10	50	0.10	0.09	0.26	4.20	10.10	10.7	6	0.11
463301		6.67	0.14	1.45	0.5	<0.2	<10	50	0.09	0.08	0.91	0.63	14.10	11.6	6	0.08
463302		5.50	0.11	0.79	0.2	<0.2	<10	50	0.09	0.14	2.40	0.86	24.0	13.2	5	0.10
463303		2.39	0.04	0.63	<0.1	<0.2	<10	60	0.07	0.03	2.48	0.12	10.70	11.9	4	0.09
463304		8.25	0.04	0.91	0.2	<0.2	<10	70	0.08	0.02	1.57	0.07	8.07	8.9	6	0.09
463305		5.79	0.48	1.48	0.2	<0.2	<10	70	0.11	0.03	0.48	0.10	9.83	10.2	6	0.07
463306		7.43	0.16	1.36	0.2	<0.2	<10	70	0.10	<0.01	0.99	0.01	12.30	10.1	7	0.06
463307		7.53	0.11	1.45	0.3	<0.2	<10	80	0.12	0.01	0.98	0.03	13.85	10.1	8	<0.05
463308		6.73	0.05	1.46	0.2	<0.2	<10	80	0.08	0.02	1.37	0.03	12.25	10.8	7	0.06
463309		7.39	0.08	1.69	0.2	<0.2	<10	100	0.11	0.01	1.28	0.04	10.60	10.2	7	0.05
463310		0.04	0.53	2.27	15.4	<0.2	10	80	0.33	0.43	1.24	0.19	10.35	54.1	284	1.31
463311		6.78	0.10	1.98	0.2	<0.2	<10	50	0.08	0.02	1.71	0.11	7.37	9.3	5	<0.05
463312		4.65	0.10	1.75	0.2	<0.2	<10	60	0.07	0.04	1.71	0.31	8.38	9.9	5	0.09
463313		1.94	0.16	1.36	0.2	<0.2	<10	80	0.10	0.06	2.38	0.98	6.07	11.7	3	0.14



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Page: 5 - B
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 15-FEB-2017
Account: GIBMIN

Project: SGM2017-1

CERTIFICATE OF ANALYSIS KL17022021

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
463295		20.0	1.47	3.06	<0.05	0.05	<0.01	<0.005	0.18	2.6	5.1	0.75	424	0.66	0.04
463296		18.2	1.59	3.63	<0.05	0.06	<0.01	0.005	0.23	2.5	6.3	0.89	618	0.79	0.04
463297		16.0	1.59	3.34	<0.05	0.05	<0.01	0.007	0.13	2.5	5.9	0.83	843	0.67	0.04
463298		37.7	1.80	3.83	<0.05	0.05	<0.01	0.005	0.14	2.9	6.6	0.90	688	0.61	0.04
463299		221	2.26	3.58	<0.05	0.02	0.07	0.264	0.16	4.0	6.9	0.79	1090	0.58	0.04
463300		216	2.27	3.57	<0.05	0.02	0.07	0.290	0.15	3.9	7.0	0.80	1110	0.65	0.03
463301		64.1	2.65	4.69	0.05	<0.02	0.02	0.036	0.12	5.3	9.6	1.06	2130	1.27	0.05
463302		28.0	3.12	2.58	0.06	<0.02	0.02	0.046	0.12	8.9	4.8	1.04	3820	2.10	0.04
463303		9.0	2.51	1.85	<0.05	<0.02	<0.01	0.008	0.13	3.9	3.6	0.98	1280	2.95	0.04
463304		9.7	2.25	2.87	<0.05	<0.02	<0.01	0.010	0.16	3.1	4.6	0.96	892	6.40	0.05
463305		226	2.29	4.62	<0.05	0.04	0.02	0.019	0.13	3.4	8.2	1.04	588	1.49	0.04
463306		119.0	1.86	4.17	0.05	0.08	<0.01	0.007	0.11	3.9	7.0	1.02	584	1.55	0.04
463307		81.4	2.07	4.09	<0.05	0.07	<0.01	0.009	0.12	4.8	6.0	1.08	740	1.28	0.05
463308		27.8	2.28	4.21	<0.05	0.04	<0.01	0.006	0.12	4.5	6.4	1.07	932	36.7	0.05
463309		54.7	2.40	5.12	<0.05	0.04	<0.01	0.009	0.12	3.9	7.7	1.36	809	1.08	0.05
463310		876	5.87	5.80	0.07	0.03	0.02	0.025	0.73	4.6	3.8	5.95	497	95.7	0.12
463311		46.1	3.08	6.27	<0.05	<0.02	<0.01	0.018	0.10	2.6	8.5	1.66	1430	2.36	0.06
463312		49.4	2.61	4.88	<0.05	0.02	<0.01	0.014	0.15	2.9	7.3	1.38	1840	3.72	0.05
463313		86.2	2.27	3.08	<0.05	<0.02	0.01	0.014	0.23	2.1	5.5	0.94	2170	1.21	0.03



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Page: 5 - C
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 15-FEB-2017
 Account: GIBMIN

Project: SGM2017-1

CERTIFICATE OF ANALYSIS KL17022021

Sample Description	Method Analyte Units LOR	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2	ME-MS41 Ti % 0.005
463295		7.2	430	0.5	6.2	<0.001	0.03	0.11	1.5	0.2	0.2	37.2	<0.01	0.01	0.5	0.093
463296		7.7	420	0.7	8.0	<0.001	0.07	0.12	1.7	0.2	0.2	39.9	<0.01	0.02	0.9	0.095
463297		7.3	420	0.7	2.7	<0.001	0.11	0.12	1.4	0.3	0.2	34.5	<0.01	0.02	0.7	0.072
463298		5.2	440	0.9	3.4	<0.001	0.03	0.10	1.6	0.3	0.2	33.2	<0.01	0.01	0.9	0.066
463299		6.1	400	1.4	3.4	<0.001	0.55	0.06	1.8	0.3	<0.2	16.9	<0.01	0.05	1.7	0.017
463300		6.1	410	1.4	3.2	<0.001	0.60	0.05	1.8	0.4	<0.2	16.7	<0.01	0.05	1.6	0.016
463301		6.6	440	1.7	2.6	<0.001	0.20	<0.05	2.5	0.2	<0.2	36.2	<0.01	0.04	1.5	0.005
463302		5.7	430	1.4	2.3	<0.001	0.25	<0.05	4.3	0.6	<0.2	80.8	<0.01	0.11	1.5	<0.005
463303		4.9	400	1.1	2.5	<0.001	0.05	<0.05	1.8	0.3	<0.2	93.1	<0.01	0.01	1.4	<0.005
463304		4.8	410	0.9	3.1	0.002	0.01	<0.05	1.9	0.3	<0.2	55.5	<0.01	0.01	1.1	0.014
463305		6.3	470	0.9	2.7	<0.001	0.06	0.07	2.3	0.3	0.2	31.4	<0.01	0.02	1.2	0.039
463306		5.6	410	0.9	2.3	<0.001	0.03	0.16	2.3	0.4	0.3	50.3	<0.01	0.01	1.5	0.060
463307		7.3	430	2.1	2.1	0.001	0.03	0.15	2.1	0.4	0.2	54.5	<0.01	0.01	1.6	0.044
463308		5.3	470	1.0	2.1	0.009	0.05	0.11	2.1	0.4	<0.2	55.5	<0.01	0.01	0.8	0.032
463309		5.1	480	0.8	2.0	<0.001	0.02	0.09	2.1	0.4	0.2	48.4	<0.01	0.01	0.9	0.037
463310		667	730	4.8	29.1	0.104	4.13	0.67	8.7	3.8	0.4	54.1	<0.01	0.22	0.9	0.062
463311		5.9	480	0.6	1.7	<0.001	0.04	<0.05	2.9	0.4	<0.2	45.7	<0.01	0.01	0.5	0.025
463312		5.2	480	0.7	2.7	0.001	0.18	<0.05	2.1	0.3	<0.2	40.0	<0.01	0.03	0.6	0.020
463313		4.9	500	0.9	3.9	<0.001	0.49	<0.05	1.5	0.2	<0.2	44.7	<0.01	0.05	0.8	0.026



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Page: 5 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 15-FEB-2017
 Account: GIBMIN

Project: SGM2017-1

CERTIFICATE OF ANALYSIS KL17022021

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
463295		0.04	0.22	16	<0.05	4.62	34	0.6			
463296		0.06	0.29	19	<0.05	5.27	51	0.6			
463297		0.02	0.25	13	<0.05	5.00	202	0.5			
463298		0.02	0.36	16	<0.05	6.30	82	0.6			
463299		0.02	1.03	13	<0.05	6.38	1790	<0.5			
463300		0.02	0.68	13	<0.05	6.44	1940	<0.5			
463301		<0.02	0.31	20	<0.05	7.53	350	<0.5			
463302		0.02	0.37	13	0.16	19.40	409	<0.5			
463303		<0.02	0.45	9	0.06	8.73	144	<0.5			
463304		<0.02	0.31	13	0.07	7.71	144	<0.5			
463305		<0.02	0.32	18	<0.05	7.83	369	0.5			
463306		<0.02	0.39	19	<0.05	11.65	67	0.8			
463307		<0.02	0.49	19	<0.05	11.70	155	0.6			
463308		<0.02	0.28	19	<0.05	9.78	120	0.5			
463309		<0.02	0.34	22	<0.05	9.29	80	<0.5			
463310		0.59	0.28	76	10.05	5.30	64	1.2			
463311		<0.02	0.15	30	<0.05	7.44	620	<0.5			
463312		<0.02	0.17	20	<0.05	7.39	546	<0.5			
463313		0.02	0.25	11	<0.05	5.31	605	<0.5			



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 15-FEB-2017
Account: GIBMIN

Project: SGM2017-1

CERTIFICATE OF ANALYSIS KL17022021

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.
CRU - 31 CRU - QC LOG - 21d LOG - 22
LOG - 23 PUL - 31 PUL - 31d PUL - QC
SPL - 21 SPL - 21d WEI - 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au - AA23 Cu - OG46 ME - MS41 ME - OG46
Mo - OG46



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Page: 1
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 23-FEB-2017
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CERTIFICATE KL17023551

Project: SGM2017-1

P.O. No.: S0218733

This report is for 11 Pulp samples submitted to our lab in Kamloops, BC, Canada on 8-FEB-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

To: **GIBALTAR MINES LTD.**
ATTN: ALS MINERALS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 23 - FEB - 2017
 Account: GIBMIN

Project: SGM2017-1

CERTIFICATE OF ANALYSIS KL17023551

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2
459924		870	22.4	20	1.27	3.23	1.85	0.75	18.8	3.13	5.2	0.66	9.0	0.30	2.7
459939		797	21.3	20	0.74	3.02	1.79	0.68	16.6	2.75	4.8	0.62	8.5	0.31	2.7
459948		577	23.5	10	0.52	3.51	2.14	0.81	17.3	3.68	4.6	0.74	8.8	0.37	2.7
459957		577	25.0	10	0.89	3.56	2.09	0.76	18.0	3.37	4.8	0.73	10.5	0.31	2.6
459972		556	25.2	10	0.55	3.42	2.21	0.86	18.5	3.59	4.6	0.72	10.3	0.35	2.4
459985		647	17.5	10	0.59	3.07	1.98	0.70	16.7	3.19	5.2	0.68	6.6	0.28	2.1
463262		509	20.3	10	1.61	3.00	1.87	0.75	16.9	3.09	4.1	0.63	8.4	0.30	2.1
463276		569	23.3	30	0.43	2.98	1.88	0.72	15.0	3.27	4.7	0.64	9.4	0.30	4.8
463297		667	21.0	20	0.68	3.21	1.84	0.77	16.7	3.38	5.0	0.66	8.2	0.28	2.1
463303		878	24.0	20	0.78	4.18	2.61	0.75	15.8	4.43	4.2	0.92	8.9	0.43	2.5
463313		960	24.2	10	1.08	4.02	2.66	0.87	17.4	4.29	7.3	0.94	9.1	0.39	2.1



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Page: 2 - B
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 23 -FEB- 2017
Account: GIBMIN

Project: SGM2017-1

CERTIFICATE OF ANALYSIS KL17023551

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	Y	Yb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1	0.5	0.03
459924		3.12	48.7	3.34	1	127.5	0.2	0.50	1.54	0.28	1.53	111	3	18.9	1.90
459939		2.91	33.3	3.08	1	237	0.1	0.47	1.47	0.25	1.12	103	1	17.5	1.86
459948		3.36	23.0	3.67	1	312	0.4	0.57	1.22	0.32	0.91	130	3	21.6	2.24
459957		3.36	40.5	3.57	1	121.0	0.1	0.55	2.39	0.29	1.34	107	2	21.3	2.15
459972		3.53	20.4	3.73	1	421	0.1	0.58	1.40	0.28	0.91	121	2	21.4	2.24
459985		2.52	20.5	3.22	1	302	0.1	0.53	1.06	0.27	0.80	102	3	18.2	1.73
463262		2.81	69.2	3.03	1	42.5	0.1	0.49	1.67	0.28	1.06	90	3	18.3	1.96
463276		3.15	17.3	3.07	1	360	0.1	0.50	1.42	0.27	0.96	83	2	17.4	1.78
463297		3.07	26.3	3.27	1	315	0.1	0.53	1.15	0.29	0.67	84	1	18.3	1.83
463303		3.57	36.6	4.71	1	281	0.1	0.71	1.46	0.37	0.90	91	5	25.2	2.60
463313		3.56	49.6	4.75	1	165.0	0.1	0.68	1.61	0.40	1.05	99	4	24.4	2.55



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Page: 2 - C
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 23 - FEB - 2017
 Account: GIBMIN

Project: SGM2017-1

CERTIFICATE OF ANALYSIS KL17023551

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	TOT-ICP06
		SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
459924		61.3	15.40	6.66	3.55	2.40	1.46	2.91	<0.01	0.51	0.68	0.12	0.01	0.09	3.90	98.99
459939		60.4	14.40	4.75	3.88	2.13	3.57	2.08	<0.01	0.47	0.36	0.10	0.02	0.08	6.57	98.81
459948		59.9	14.35	5.55	4.80	2.50	3.80	1.27	<0.01	0.54	0.26	0.12	0.03	0.06	4.91	98.09
459957		65.8	16.25	5.25	0.79	2.12	3.72	2.33	<0.01	0.48	0.33	0.11	0.01	0.06	2.42	99.67
459972		63.7	16.00	5.26	4.66	2.42	4.15	1.16	<0.01	0.51	0.15	0.12	0.05	0.06	2.43	100.67
459985		65.2	16.50	5.72	1.25	2.73	3.49	1.50	<0.01	0.52	0.18	0.11	0.04	0.08	2.93	100.25
463262		64.7	15.70	6.01	1.66	2.05	0.41	4.14	<0.01	0.48	1.31	0.10	<0.01	0.06	3.81	100.43
463276		67.8	15.15	4.40	4.07	1.81	3.96	1.15	<0.01	0.42	0.31	0.11	0.04	0.07	2.08	101.37
463297		64.2	15.60	4.59	3.97	1.92	3.98	1.54	<0.01	0.44	0.24	0.10	0.04	0.08	2.15	98.85
463303		64.0	14.80	4.59	3.61	1.87	3.03	2.35	<0.01	0.48	0.17	0.09	0.03	0.10	6.45	101.57
463313		61.8	15.90	5.30	4.21	2.19	1.94	3.26	<0.01	0.49	0.43	0.11	0.02	0.11	4.37	100.13



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Page: 2 - D
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 23-FEB-2017
Account: GIBMIN

Project: SGM2017-1

CERTIFICATE OF ANALYSIS KL17023551

Sample Description	Method Analyte Units LOR	ME-MS81 TI ppm 0.5
459924		<0.5
459939		<0.5
459948		<0.5
459957		<0.5
459972		<0.5
459985		<0.5
463262		<0.5
463276		<0.5
463297		<0.5
463303		<0.5
463313		<0.5



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 23-FEB-2017
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Project: SGM2017-1

CERTIFICATE OF ANALYSIS KL17023551

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02
TOT-ICP06

ME-ICP06

ME-MS81

OA-GRA05



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Page: 1
Total # Pages: 4 (A - D)
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16-MAR-2017
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CERTIFICATE KL17029933

Project: SGM2017-02

P.O. No.: S0218733

This report is for 100 Drill Core samples submitted to our lab in Kamloops, BC,
Canada on 17-FEB-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Mo-OG46	Ore Grade Mo - Aqua Regia	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **GIBRALTAR MINES LTD.**
ATTN: ALS MINERALS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 4 (A - D)
Plus Appendix Pages
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CERTIFICATE OF ANALYSIS KL17029933

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
463314		7.57	0.13	1.33	0.3	<0.2	<10	50	0.11	0.02	0.98	0.03	10.00	9.8	6	0.09
463315		7.28	0.92	1.19	2.0	<0.2	<10	60	0.08	0.30	0.78	19.05	7.66	9.8	6	0.09
463316		7.02	0.67	1.88	1.8	<0.2	<10	80	0.09	0.52	0.79	17.05	7.81	15.9	6	0.11
463317		8.77	0.10	1.22	0.2	<0.2	<10	80	0.10	0.09	3.15	1.67	5.89	12.1	6	0.11
463318		7.15	0.58	1.40	0.3	<0.2	<10	60	0.08	0.12	1.61	23.2	7.41	9.3	7	0.10
463319		7.37	0.10	1.35	0.1	<0.2	<10	60	0.09	0.06	2.41	0.49	9.76	10.6	5	0.10
463320		<0.02	0.08	1.29	0.4	<0.2	<10	50	0.09	0.05	2.44	0.48	10.10	10.9	6	0.09
463321		7.56	0.08	1.61	0.5	<0.2	<10	60	0.11	0.01	1.23	0.12	8.43	13.1	7	0.05
463322		7.32	0.09	1.59	0.3	<0.2	<10	70	0.09	0.02	0.93	1.15	6.95	11.7	8	0.07
463323		7.67	0.07	1.47	0.5	<0.2	<10	60	0.10	0.01	0.94	0.95	6.34	10.7	7	0.14
463324		7.36	0.11	1.52	0.6	<0.2	<10	70	0.12	0.01	0.77	0.40	6.80	12.0	8	0.22
463325		7.00	0.45	1.51	0.4	<0.2	<10	50	0.08	0.19	1.74	9.00	6.24	12.8	5	0.08
463326		7.46	0.67	1.75	0.7	<0.2	<10	60	0.10	0.29	1.35	20.5	8.83	15.1	6	0.15
463327		6.93	0.06	1.64	0.6	<0.2	<10	70	0.11	0.02	1.85	0.06	9.79	11.6	6	0.11
463328		3.70	0.10	1.56	1.9	<0.2	<10	80	0.11	0.04	1.52	1.19	7.40	11.2	6	0.12
463329		5.69	0.12	1.86	1.2	<0.2	<10	80	0.11	0.04	1.68	3.39	7.31	12.2	7	0.08
463330		0.04	1.11	1.49	5.7	0.2	<10	120	0.24	0.18	0.89	0.48	12.40	11.1	28	0.40
463331		2.64	0.13	1.57	0.7	<0.2	<10	50	0.11	0.03	2.53	0.24	8.96	12.5	4	0.09
463332		2.33	0.05	1.62	0.3	<0.2	<10	60	0.10	0.02	3.00	0.30	13.20	12.3	4	0.11
463333		5.88	0.31	1.76	1.1	<0.2	<10	40	0.09	0.03	2.23	0.13	6.77	11.1	5	0.06
463334		7.14	0.09	1.70	2.1	<0.2	<10	60	0.10	0.02	0.86	1.71	7.46	10.8	4	<0.05
463335		6.91	0.06	1.54	1.7	<0.2	<10	70	0.09	0.02	1.37	0.99	5.57	11.9	5	0.05
463336		6.66	0.08	1.74	1.2	<0.2	<10	110	0.11	0.05	1.78	1.33	8.22	10.2	5	0.11
463337		6.42	0.31	1.84	0.9	<0.2	<10	60	0.11	0.25	1.61	1.11	7.05	13.3	6	0.10
463338		6.43	0.11	1.63	0.6	<0.2	<10	60	0.09	0.03	1.70	1.47	6.92	11.5	5	0.06
463339		6.60	0.17	1.76	0.8	<0.2	<10	60	0.09	0.03	1.51	1.31	8.07	12.1	5	0.06
463340		<0.02	0.16	1.73	0.6	<0.2	<10	50	0.08	0.03	1.53	1.46	7.61	12.7	5	0.06
463341		6.76	0.18	1.57	1.7	<0.2	<10	60	0.08	0.02	0.67	2.36	7.21	12.0	9	<0.05
463342		6.99	0.05	1.50	1.2	<0.2	<10	80	0.09	0.01	0.70	1.76	6.89	10.5	9	0.06
463343		6.90	0.17	1.64	1.8	<0.2	<10	100	0.10	0.03	0.67	5.76	7.17	10.5	7	0.29
463344		4.13	0.12	1.44	0.7	<0.2	<10	80	0.10	0.02	0.79	1.46	6.58	10.4	10	0.32
463345		2.09	0.04	1.57	0.5	<0.2	<10	70	0.08	0.01	0.96	0.10	7.93	11.9	8	<0.05
463346		7.30	0.09	1.60	0.3	<0.2	<10	60	0.09	0.05	1.09	0.29	6.38	11.0	7	0.05
463347		7.02	1.50	1.71	0.4	<0.2	<10	60	0.10	0.11	0.91	0.81	6.37	10.6	7	0.06
463348		7.35	0.64	1.64	0.5	<0.2	<10	60	0.08	0.21	0.86	0.32	6.52	12.9	7	0.06
463349		7.50	0.81	1.74	0.3	<0.2	<10	50	0.08	0.07	1.16	0.26	5.71	12.5	6	0.05
463350		0.07	0.75	1.92	18.6	0.2	<10	360	0.47	1.50	0.93	0.11	62.0	14.7	82	9.74
463351		7.05	0.06	1.37	0.1	<0.2	<10	60	0.10	0.01	1.01	0.03	6.00	10.0	8	<0.05
463352		7.30	0.52	1.40	0.9	<0.2	<10	50	0.08	0.05	0.93	0.50	5.05	14.5	6	0.05
463353		7.17	1.68	1.45	0.4	<0.2	<10	60	0.09	0.06	1.06	0.36	8.33	13.2	8	0.07



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Page: 2 - B
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Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029933

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
463314		82.4	1.86	3.59	0.11	0.04	<0.01	0.005	0.09	3.4	6.0	0.99	826	1.49	0.03
463315		467	2.54	2.81	0.10	0.03	0.08	0.602	0.17	2.8	5.4	0.80	1170	37.3	0.01
463316		286	5.47	4.65	0.12	<0.02	0.05	1.365	0.26	3.1	8.2	1.13	2380	22.2	0.01
463317		33.6	2.28	2.81	0.10	<0.02	0.01	0.106	0.22	2.5	5.4	0.72	3350	7.64	0.02
463318		331	2.82	3.39	0.10	<0.02	0.12	1.940	0.19	2.9	6.4	0.83	2100	2.13	0.02
463319		49.6	2.48	3.71	0.11	<0.02	<0.01	0.037	0.18	4.0	6.7	1.00	2560	1.33	0.03
463320		47.9	2.48	3.55	0.11	<0.02	<0.01	0.035	0.15	4.2	6.5	1.00	2610	1.27	0.02
463321		46.3	2.29	4.48	0.11	0.04	<0.01	0.011	0.09	3.4	7.6	1.20	898	0.86	0.04
463322		38.9	2.26	4.09	0.11	0.03	<0.01	0.049	0.12	2.8	7.5	1.17	956	1.41	0.03
463323		55.3	2.11	3.68	0.11	0.04	<0.01	0.015	0.12	2.6	7.1	1.14	870	1.79	0.03
463324		89.8	2.05	3.85	0.10	0.04	0.01	0.007	0.14	2.7	7.7	1.22	788	1.22	0.03
463325		269	2.90	3.87	0.11	<0.02	0.06	1.020	0.15	2.4	7.8	1.07	1840	5.78	0.02
463326		293	3.27	4.52	0.11	0.02	0.12	1.735	0.16	3.2	9.3	1.20	1640	4.12	0.03
463327		29.5	2.41	4.68	0.11	0.04	<0.01	0.010	0.10	3.6	8.4	1.20	1220	14.70	0.04
463328		48.4	2.41	3.94	0.11	0.02	0.01	0.016	0.11	2.9	8.7	1.07	1740	3.31	0.02
463329		46.9	3.00	5.27	0.12	<0.02	0.06	0.096	0.12	3.0	10.8	1.18	1760	0.99	0.04
463330		3100	3.02	5.41	0.14	0.21	0.03	0.047	0.19	6.3	9.9	0.73	440	224	0.08
463331		60.9	3.19	4.85	0.12	<0.02	<0.01	0.023	0.10	3.5	10.0	1.24	1800	4.05	0.04
463332		23.6	3.01	4.45	0.12	<0.02	<0.01	0.025	0.11	5.1	9.8	1.12	1880	5.08	0.07
463333		133.0	2.62	4.97	0.12	<0.02	<0.01	0.022	0.06	2.5	10.8	1.14	2510	29.4	0.04
463334		45.8	2.46	4.01	0.12	0.04	0.03	0.083	0.06	2.6	9.3	1.11	1320	5.16	0.03
463335		32.5	2.37	3.71	0.11	0.03	0.01	0.033	0.07	2.1	8.6	1.06	1700	14.70	0.03
463336		45.4	2.58	4.51	0.12	<0.02	0.03	0.112	0.11	3.3	9.3	1.08	2060	27.5	0.03
463337		271	3.28	5.23	0.12	<0.02	0.01	0.150	0.11	2.7	9.4	1.13	1240	18.50	0.03
463338		105.0	2.58	4.83	0.11	0.02	0.02	0.063	0.10	2.6	9.2	1.16	1120	9.84	0.04
463339		125.0	2.85	4.55	0.11	0.02	0.01	0.078	0.09	2.9	9.0	1.15	1220	6.28	0.03
463340		127.5	2.87	4.53	0.11	0.02	0.01	0.082	0.08	2.8	9.4	1.16	1240	6.58	0.03
463341		107.5	2.45	3.73	0.11	0.05	0.01	0.065	0.07	2.6	7.3	1.11	802	3.48	0.04
463342		76.1	2.30	3.50	0.11	0.04	<0.01	0.036	0.09	2.4	5.7	1.06	800	1.96	0.03
463343		175.0	2.60	3.86	0.12	0.06	0.02	0.304	0.17	2.6	6.9	1.14	825	35.0	0.04
463344		77.4	2.07	3.43	0.12	0.05	<0.01	0.022	0.15	2.4	7.0	1.08	679	3.71	0.03
463345		42.5	2.25	4.01	0.11	0.04	<0.01	0.007	0.08	2.9	7.1	1.15	807	3.13	0.04
463346		118.5	2.45	3.95	0.11	0.02	<0.01	0.020	0.12	2.4	7.7	1.12	1060	22.5	0.03
463347		2260	3.29	5.04	0.11	0.02	0.01	0.061	0.17	2.5	7.3	1.10	1340	17.55	0.03
463348		1075	3.35	4.84	0.11	0.03	<0.01	0.054	0.13	2.5	7.3	1.13	1070	5.44	0.03
463349		2090	3.36	4.83	0.10	<0.02	<0.01	0.064	0.13	2.2	8.3	1.28	1040	1.25	0.03
463350		2520	3.84	8.13	0.13	0.41	0.02	0.183	1.02	30.3	32.8	1.13	356	88.2	0.14
463351		92.2	1.78	3.55	<0.05	0.05	0.02	0.006	0.09	2.2	7.2	1.08	549	3.62	0.04
463352		942	2.95	3.67	<0.05	0.02	0.02	0.031	0.14	1.8	7.5	1.06	859	2.14	0.03
463353		2460	3.06	4.07	<0.05	0.02	0.02	0.110	0.15	3.0	8.0	1.09	826	2.36	0.03



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Page: 2 - C
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		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
463314		5.6	470	1.7	1.7	0.001	0.08	0.12	1.6	0.2	0.2	41.7	<0.01	0.03	0.9
463315		4.8	470	1.3	2.9	0.002	1.43	0.09	1.3	0.4	<0.2	23.6	<0.01	0.26	1.2
463316		5.9	530	1.3	4.5	0.001	2.65	<0.05	1.8	0.4	<0.2	15.5	<0.01	0.57	1.5
463317		4.5	550	1.6	3.9	0.001	0.60	0.05	1.7	<0.2	<0.2	42.7	<0.01	0.07	1.3
463318		4.7	460	1.6	3.4	0.001	0.86	0.05	1.7	0.3	<0.2	35.6	<0.01	0.11	1.5
463319		5.7	420	1.3	3.2	<0.001	0.18	<0.05	1.9	<0.2	<0.2	62.2	<0.01	0.03	1.4
463320		5.7	440	1.2	2.6	<0.001	0.20	<0.05	1.7	<0.2	<0.2	61.3	<0.01	0.03	1.3
463321		7.1	440	1.0	1.7	<0.001	0.08	0.13	2.0	0.2	0.2	61.1	<0.01	0.01	1.2
463322		7.0	450	0.5	2.2	<0.001	0.07	0.09	1.5	<0.2	0.2	42.8	<0.01	0.01	0.8
463323		6.6	410	0.5	2.6	0.001	0.07	0.11	1.5	<0.2	0.2	36.6	<0.01	0.02	0.7
463324		6.8	430	0.5	3.5	<0.001	0.07	0.12	1.5	0.2	<0.2	40.1	<0.01	0.01	0.7
463325		6.2	460	0.6	2.5	0.001	0.66	0.06	1.4	0.2	<0.2	40.6	<0.01	0.15	0.8
463326		6.6	580	0.8	2.7	0.001	0.95	0.10	2.0	0.4	0.2	43.6	<0.01	0.31	1.0
463327		6.1	530	0.9	1.7	0.002	0.10	0.15	2.4	0.3	0.2	66.6	<0.01	0.03	0.8
463328		5.9	540	0.7	1.7	0.001	0.29	0.10	1.8	0.2	<0.2	48.9	<0.01	0.03	0.9
463329		7.3	510	0.9	1.9	<0.001	0.24	0.06	2.5	0.2	<0.2	59.5	<0.01	0.01	1.0
463330		23.4	640	8.6	9.4	0.239	0.46	2.25	5.1	1.1	1.1	43.6	<0.01	0.10	1.8
463331		6.2	520	1.0	1.8	<0.001	0.13	<0.05	3.0	0.2	<0.2	67.0	<0.01	0.03	1.1
463332		6.5	490	1.3	1.8	0.001	0.05	<0.05	2.9	0.2	<0.2	79.1	<0.01	0.02	0.7
463333		6.1	470	1.4	1.1	0.002	0.14	0.07	2.6	<0.2	<0.2	62.6	<0.01	0.05	0.4
463334		5.6	460	0.7	0.9	0.001	0.20	0.11	1.6	0.4	0.2	47.0	<0.01	0.03	0.8
463335		5.3	450	0.6	1.1	0.001	0.33	0.10	1.4	0.2	0.2	45.9	<0.01	0.03	0.8
463336		5.6	510	1.3	1.8	0.002	0.25	0.09	2.2	<0.2	0.2	58.9	<0.01	0.05	0.8
463337		4.8	470	1.2	1.8	0.002	0.36	0.06	2.0	0.2	0.2	44.0	<0.01	0.23	0.8
463338		5.8	430	0.9	1.7	0.001	0.28	0.06	1.9	0.2	<0.2	52.1	<0.01	0.05	0.8
463339		5.3	440	0.7	1.4	0.001	0.27	0.07	1.7	<0.2	<0.2	44.4	<0.01	0.06	0.8
463340		5.3	430	0.8	1.3	0.001	0.29	0.07	1.6	<0.2	<0.2	43.5	<0.01	0.05	0.8
463341		5.0	440	0.4	1.2	<0.001	0.27	0.08	1.3	0.2	<0.2	33.2	<0.01	0.04	0.6
463342		4.9	430	0.4	1.7	<0.001	0.22	0.10	1.3	0.2	0.2	35.3	<0.01	0.04	0.6
463343		5.2	430	0.3	4.3	0.007	0.36	0.08	1.7	<0.2	0.2	38.3	<0.01	0.13	0.7
463344		5.3	460	0.3	4.2	0.001	0.14	0.08	1.5	0.2	<0.2	47.4	<0.01	0.03	0.6
463345		5.5	480	0.3	1.5	<0.001	0.12	0.06	1.6	<0.2	<0.2	41.6	<0.01	0.02	0.6
463346		5.2	470	0.3	2.0	0.003	0.23	<0.05	1.5	0.2	<0.2	33.9	<0.01	0.06	0.6
463347		6.1	450	0.4	2.8	0.003	0.75	<0.05	1.6	0.2	0.2	30.5	<0.01	0.13	0.9
463348		6.2	490	0.5	2.2	0.001	1.10	0.05	1.8	0.2	0.2	35.3	<0.01	0.32	0.7
463349		5.9	470	0.4	2.0	0.001	1.02	0.05	1.7	<0.2	0.2	43.2	<0.01	0.15	0.4
463350		40.9	980	10.1	122.5	0.003	0.36	0.47	7.2	3.4	4.3	58.6	<0.01	0.09	19.1
463351		5.7	460	0.6	1.6	<0.001	0.02	0.06	1.4	<0.2	<0.2	49.8	<0.01	0.01	0.6
463352		5.6	450	0.5	2.2	0.001	1.31	<0.05	1.1	0.3	<0.2	31.8	<0.01	0.13	0.5
463353		6.7	460	0.6	2.7	0.001	1.32	0.06	1.4	0.6	0.2	37.8	<0.01	0.14	0.7



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Page: 2 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 26 -FEB- 2017
 Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029933

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46	Mo-OG46	Au-AA23
		Tl	U	V	W	Y	Zn	Zr	Cu	Mo	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001	0.005
463314		<0.02	0.26	16	<0.05	8.85	119	0.5			
463315		0.02	0.27	11	<0.05	6.32	9090	<0.5			
463316		0.03	0.18	19	0.22	5.74	7500	<0.5			
463317		0.02	0.26	11	0.12	5.79	829	<0.5			
463318		0.03	0.33	14	0.12	5.57	9760	<0.5			
463319		0.02	0.35	17	<0.05	6.80	332	<0.5			
463320		0.02	0.30	16	0.10	6.81	324	<0.5			
463321		<0.02	0.36	23	<0.05	5.79	169	0.6			
463322		<0.02	0.31	19	<0.05	4.10	671	<0.5			
463323		0.02	0.38	19	<0.05	4.46	561	0.5			
463324		0.03	0.33	20	<0.05	4.50	337	0.5			
463325		0.02	0.24	16	0.07	4.86	3800	<0.5			
463326		0.02	0.41	21	0.05	6.52	8120	<0.5			
463327		<0.02	0.40	27	<0.05	8.92	117	0.5			
463328		<0.02	0.42	17	<0.05	4.64	772	<0.5			
463329		<0.02	0.24	25	<0.05	5.32	1710	<0.5			
463330		0.10	0.34	59	14.00	7.78	55	6.2	0.314	0.028	0.301
463331		<0.02	0.25	27	<0.05	5.21	232	<0.5			
463332		<0.02	0.23	23	<0.05	5.76	270	<0.5			
463333		<0.02	0.13	25	<0.05	4.74	159	<0.5			
463334		<0.02	0.24	20	<0.05	5.84	897	<0.5			
463335		<0.02	0.25	17	<0.05	4.67	529	<0.5			
463336		<0.02	0.21	20	<0.05	4.78	739	0.5			
463337		<0.02	0.14	24	<0.05	4.92	611	<0.5			
463338		<0.02	0.19	23	<0.05	5.86	631	<0.5			
463339		<0.02	0.30	23	<0.05	5.17	698	<0.5			
463340		<0.02	0.28	22	<0.05	5.04	738	<0.5			
463341		<0.02	0.27	19	<0.05	5.12	994	0.6			
463342		<0.02	0.59	20	<0.05	5.33	884	0.5			
463343		0.04	0.38	22	0.05	6.34	2510	0.7			
463344		0.04	0.28	20	<0.05	5.45	407	0.6			
463345		<0.02	0.24	21	<0.05	6.45	211	0.5			
463346		<0.02	0.18	19	<0.05	4.79	312	<0.5			
463347		<0.02	0.42	17	0.09	4.30	446	<0.5	0.224		
463348		<0.02	0.34	18	0.07	4.98	278	<0.5			
463349		<0.02	0.29	20	0.06	5.31	180	<0.5	0.208		
463350		0.66	4.43	105	2.11	16.80	75	9.8	0.260		0.247
463351		<0.02	0.26	19	<0.05	4.95	55	0.5			
463352		0.02	0.32	16	0.06	4.16	328	<0.5			
463353		0.02	1.79	17	0.05	5.90	151	<0.5	0.239		



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Page: 3 - A
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 26-FEB-2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029933

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
463354		7.04	0.98	1.48	0.4	<0.2	<10	60	0.09	0.02	1.59	0.58	6.03	12.5	5	0.05
463355		2.50	0.10	1.53	0.3	<0.2	<10	50	0.10	0.02	1.15	0.05	6.82	11.3	7	0.05
463356		4.44	0.23	1.58	0.5	<0.2	<10	50	0.11	0.02	1.53	0.12	7.90	11.4	5	0.07
463357		6.82	0.78	1.25	0.8	<0.2	<10	40	0.10	0.24	1.60	0.87	9.26	17.7	5	0.08
463358		7.28	0.13	1.44	0.4	<0.2	<10	50	0.09	0.02	1.21	0.59	8.13	10.3	4	<0.05
463359		7.49	2.70	1.37	0.7	<0.2	<10	50	0.08	0.03	0.69	2.04	7.82	9.4	6	<0.05
463360		<0.02	3.04	1.49	0.9	<0.2	<10	60	0.10	0.03	0.71	2.25	8.24	10.3	6	0.05
463361		7.33	0.15	1.42	0.2	<0.2	<10	50	0.10	0.02	0.94	0.04	9.49	9.9	4	<0.05
463362		6.63	0.10	1.54	0.4	<0.2	<10	40	0.11	0.02	1.59	0.08	9.18	8.7	4	<0.05
463363		7.96	2.41	1.35	0.9	<0.2	<10	90	0.10	0.06	1.09	1.19	9.58	12.0	5	0.08
463364		7.23	0.74	1.63	0.6	<0.2	<10	120	0.13	0.05	1.35	0.89	11.85	10.2	6	0.10
463365		7.37	0.46	1.59	0.7	<0.2	<10	150	0.14	0.07	1.79	1.98	15.40	10.1	5	0.11
463366		6.62	0.18	1.40	0.6	<0.2	<10	60	0.09	0.01	1.14	0.53	10.05	8.9	6	<0.05
463367		8.40	0.35	1.47	0.6	<0.2	<10	90	0.09	0.04	1.16	2.41	7.04	9.7	5	0.05
463368		6.98	0.82	1.36	0.9	<0.2	<10	60	0.09	0.04	0.93	1.01	8.06	9.9	4	<0.05
463369		3.21	0.38	1.23	0.5	<0.2	<10	60	0.10	0.03	1.13	1.38	10.10	9.3	5	0.05
463370		4.62	1.52	1.46	0.6	<0.2	<10	60	0.09	0.03	0.78	1.17	10.55	10.6	6	<0.05
463371		2.57	0.13	1.46	0.2	<0.2	<10	70	0.11	0.01	0.92	0.02	10.80	10.1	4	<0.05
463372		3.61	0.37	1.48	0.3	<0.2	<10	50	0.09	0.04	1.16	0.13	11.65	9.5	5	<0.05
463373		7.45	7.67	1.30	2.3	<0.2	<10	50	0.08	1.37	0.49	1.18	6.70	18.5	5	0.07
463374		0.99	0.07	0.30	0.1	<0.2	<10	30	0.42	0.29	0.33	0.05	101.5	0.8	5	0.50
463375		8.05	1.14	1.63	0.6	<0.2	<10	100	0.10	0.17	0.73	1.36	6.75	10.0	5	0.05
463376		8.49	0.07	1.52	0.2	<0.2	<10	70	0.11	0.04	1.00	0.51	6.81	10.7	5	0.05
463377		7.55	1.59	1.41	0.4	<0.2	<10	70	0.09	0.37	0.71	0.48	6.93	13.7	4	0.11
463378		8.42	0.11	1.54	0.2	<0.2	<10	50	0.12	0.06	0.95	0.02	9.72	10.6	4	0.11
463379		7.88	0.02	1.64	0.2	<0.2	<10	50	0.12	0.02	2.11	0.07	12.10	10.3	5	0.17
463380		<0.02	0.02	1.59	0.4	<0.2	<10	50	0.11	0.02	2.07	0.08	12.00	10.2	4	0.16
463381		7.80	1.05	1.36	0.6	<0.2	<10	40	0.10	1.13	1.52	0.11	10.70	18.0	4	0.17
463382		7.84	0.03	1.63	0.2	<0.2	<10	80	0.11	0.01	1.08	0.03	10.95	11.3	5	0.05
463383		3.71	0.03	1.50	0.1	<0.2	<10	70	0.08	0.01	0.81	<0.01	11.45	10.9	5	0.06
463384		3.94	0.04	1.56	0.2	<0.2	<10	80	0.11	0.01	1.00	0.01	10.55	10.9	6	0.07
463385		8.04	0.05	1.41	0.1	<0.2	<10	80	0.09	0.01	1.09	0.81	8.78	10.7	5	<0.05
463386		7.24	0.67	1.45	0.4	<0.2	<10	90	0.10	0.08	0.77	1.50	6.66	9.7	6	0.07
463387		8.11	0.05	1.39	0.1	<0.2	<10	80	0.10	0.01	1.34	0.04	8.80	9.6	5	0.06
463388		8.17	0.02	1.50	<0.1	<0.2	<10	50	0.11	0.04	2.14	0.17	11.35	8.7	4	0.13
463389		7.79	0.39	1.55	0.5	<0.2	<10	60	0.12	0.10	1.89	1.95	11.45	9.8	4	0.14
463390		8.32	1.10	1.46	0.1	<0.2	<10	60	0.08	0.13	2.28	0.43	10.85	7.6	5	0.12
463391		7.32	0.01	1.55	0.3	<0.2	<10	70	0.11	0.04	2.62	0.12	9.19	7.6	4	0.10
463392		3.91	0.04	1.47	0.1	<0.2	<10	270	0.12	0.02	1.65	0.07	7.88	8.7	5	0.09
463393		3.76	5.30	1.13	0.8	<0.2	<10	30	0.13	1.16	1.87	0.57	10.95	24.0	5	0.33



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Page: 3 - B
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 26-FEB-2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029933

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
463354		1020	2.39	3.83	<0.05	0.02	0.02	0.017	0.12	2.1	8.2	1.13	1220	1.60	0.02
463355		97.6	2.08	3.93	<0.05	0.02	0.01	0.009	0.10	2.4	8.6	1.18	782	2.43	0.04
463356		253	2.36	4.20	<0.05	0.03	0.01	0.020	0.11	2.8	8.6	1.16	1160	0.64	0.03
463357		919	4.32	3.59	<0.05	0.02	0.02	0.064	0.11	3.5	6.8	0.91	1080	2.17	0.03
463358		110.5	1.98	3.77	<0.05	0.02	0.01	0.027	0.09	2.7	7.7	1.07	755	0.40	0.03
463359		5680	2.80	3.78	<0.05	0.03	0.02	0.215	0.11	2.8	7.6	0.98	783	1.10	0.02
463360		5710	2.97	4.25	<0.05	0.03	0.02	0.230	0.14	2.9	8.3	1.03	820	1.08	0.03
463361		137.0	1.89	3.86	<0.05	0.05	<0.01	0.010	0.09	3.2	7.3	1.05	734	0.60	0.03
463362		67.0	2.23	4.18	<0.05	0.03	<0.01	0.016	0.08	3.3	7.6	1.13	1240	0.39	0.03
463363		2520	2.86	3.77	<0.05	0.03	0.01	0.296	0.11	3.3	6.7	0.98	881	0.88	0.03
463364		428	2.78	4.84	<0.05	0.03	0.01	0.075	0.13	4.4	7.7	1.06	1260	0.63	0.03
463365		219	2.94	4.32	0.05	0.03	0.02	0.081	0.13	5.8	6.6	0.98	1900	0.39	0.02
463366		99.9	1.96	3.57	<0.05	0.03	<0.01	0.009	0.09	3.6	5.7	1.02	885	0.32	0.04
463367		157.0	2.53	3.95	<0.05	0.02	0.03	0.122	0.15	2.6	5.9	0.95	1270	0.46	0.03
463368		425	2.50	3.69	<0.05	0.02	0.01	0.063	0.14	3.0	5.4	0.91	842	0.68	0.03
463369		189.5	1.97	3.59	<0.05	0.03	0.01	0.045	0.12	3.6	5.1	0.85	831	0.35	0.02
463370		943	2.44	3.88	<0.05	0.03	0.01	0.065	0.14	3.9	5.6	1.00	798	0.47	0.03
463371		83.7	2.06	3.85	<0.05	0.02	<0.01	0.007	0.11	3.8	5.6	1.04	723	0.56	0.04
463372		179.0	2.24	4.05	<0.05	0.04	<0.01	0.029	0.09	4.0	5.8	1.06	805	0.59	0.03
463373		>10000	6.35	4.04	<0.05	<0.02	0.01	0.615	0.22	2.6	4.3	0.74	850	0.87	0.02
463374		7.6	1.10	2.31	0.08	0.21	<0.01	0.018	0.17	56.5	6.6	0.09	264	2.08	0.05
463375		2050	3.19	4.65	<0.05	0.02	0.01	0.125	0.14	2.5	6.9	1.09	1140	0.75	0.02
463376		99.1	2.29	4.42	<0.05	0.03	0.01	0.040	0.09	2.3	6.4	1.08	1040	0.95	0.04
463377		3040	3.71	4.03	<0.05	0.02	0.01	0.144	0.14	2.5	6.2	0.92	852	0.49	0.03
463378		206	2.33	4.55	<0.05	0.03	0.01	0.019	0.09	3.3	6.6	1.05	690	0.26	0.04
463379		26.7	2.44	5.52	0.05	0.02	0.01	0.020	0.07	4.2	6.6	1.11	1020	0.25	0.04
463380		26.2	2.36	5.26	<0.05	0.02	<0.01	0.020	0.07	4.3	6.6	1.09	999	0.23	0.04
463381		1675	4.85	3.99	<0.05	0.03	0.01	0.079	0.10	3.7	6.0	0.93	1030	1.39	0.03
463382		35.4	2.21	4.67	<0.05	0.06	<0.01	0.012	0.08	3.6	6.0	1.17	700	0.36	0.04
463383		21.5	1.98	4.36	<0.05	0.06	<0.01	0.013	0.07	3.7	6.5	1.13	606	0.22	0.03
463384		29.8	2.13	4.63	<0.05	0.05	<0.01	0.008	0.07	3.4	6.7	1.20	570	1.12	0.04
463385		41.5	1.99	3.82	<0.05	0.03	0.01	0.019	0.08	2.9	4.9	1.02	741	0.63	0.04
463386		558	2.38	4.10	0.05	0.04	0.01	0.138	0.10	2.3	5.5	1.03	821	0.26	0.04
463387		40.6	1.97	4.08	<0.05	0.03	0.01	0.009	0.06	3.0	5.4	1.02	676	0.22	0.04
463388		15.6	2.26	4.95	<0.05	0.02	0.01	0.022	0.08	3.9	6.7	0.97	1220	0.82	0.05
463389		423	2.79	4.73	<0.05	0.02	0.03	0.105	0.10	4.1	6.1	1.02	1140	2.61	0.04
463390		2150	2.60	4.52	<0.05	0.02	0.02	0.049	0.06	3.9	6.1	0.98	1090	0.40	0.05
463391		5.0	2.43	4.82	0.05	<0.02	0.01	0.022	0.06	3.4	6.6	1.05	1280	1.31	0.05
463392		57.2	2.21	4.66	0.05	0.02	0.01	0.014	0.05	2.9	7.0	0.96	814	0.44	0.05
463393		>10000	6.12	3.70	<0.05	<0.02	0.02	0.347	0.18	3.8	5.2	0.58	1320	0.58	0.03



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Page: 3 - C
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 26-FEB-2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029933

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
463354		5.9	450	0.6	2.0	0.001	0.37	<0.05	1.3	<0.2	<0.2	46.8	<0.01	0.02	0.6
463355		6.4	470	0.5	1.7	<0.001	0.12	<0.05	1.5	0.2	<0.2	55.1	<0.01	0.03	0.7
463356		5.8	510	0.8	1.9	0.001	0.25	0.07	1.9	0.2	<0.2	52.5	<0.01	0.03	0.9
463357		4.8	420	1.2	1.8	0.001	2.86	0.08	1.8	0.8	0.2	48.5	<0.01	0.27	1.0
463358		4.5	520	0.6	1.6	<0.001	0.12	0.06	1.5	0.3	<0.2	61.8	<0.01	0.02	0.6
463359		5.1	460	0.6	1.8	<0.001	0.97	0.09	1.2	0.4	0.3	33.8	<0.01	0.11	1.0
463360		5.6	480	0.6	2.4	<0.001	0.99	0.09	1.4	0.6	0.3	38.8	<0.01	0.11	1.0
463361		4.8	460	0.6	1.6	<0.001	0.10	0.07	1.6	0.2	<0.2	47.9	<0.01	0.01	1.4
463362		5.0	520	0.9	1.5	<0.001	0.09	0.06	2.2	0.3	0.2	65.7	<0.01	0.01	1.0
463363		5.4	540	0.9	2.0	0.001	1.14	0.07	1.7	0.4	0.2	54.3	<0.01	0.07	1.0
463364		5.7	460	1.2	2.4	<0.001	0.50	0.06	3.1	0.4	0.3	57.7	<0.01	0.05	1.0
463365		5.1	480	1.1	2.1	<0.001	0.50	0.06	2.8	0.5	0.3	67.4	<0.01	0.05	1.1
463366		4.8	500	0.5	1.5	<0.001	0.12	0.06	1.4	0.5	<0.2	64.4	<0.01	0.02	0.8
463367		4.8	470	0.5	2.5	<0.001	0.33	0.05	1.6	0.3	<0.2	39.9	<0.01	0.03	0.8
463368		4.4	440	0.4	2.3	<0.001	0.64	<0.05	1.3	0.3	<0.2	38.9	<0.01	0.05	0.7
463369		4.8	460	0.7	2.3	<0.001	0.29	0.06	1.3	0.3	<0.2	47.8	<0.01	0.03	1.0
463370		5.0	520	0.6	2.4	<0.001	0.43	0.05	1.4	0.3	<0.2	40.7	<0.01	0.04	0.9
463371		4.9	500	0.5	1.7	<0.001	0.10	<0.05	1.5	0.3	<0.2	46.9	<0.01	0.02	0.8
463372		5.2	520	0.5	1.6	<0.001	0.17	0.06	1.5	0.3	<0.2	46.0	<0.01	0.02	1.0
463373		5.5	500	0.5	3.3	<0.001	5.51	0.05	1.3	0.8	0.7	14.4	<0.01	1.80	0.4
463374		0.8	130	6.3	10.3	<0.001	0.02	<0.05	0.8	0.4	0.6	13.3	<0.01	0.01	26.5
463375		5.6	480	0.5	2.2	<0.001	1.06	0.05	1.7	0.2	0.2	30.3	<0.01	0.18	0.3
463376		5.4	460	0.5	1.6	<0.001	0.31	0.06	1.7	0.2	0.2	50.2	<0.01	0.07	0.2
463377		5.6	480	0.7	2.3	<0.001	2.20	0.06	1.6	0.4	0.3	36.2	<0.01	0.43	0.2
463378		5.0	470	0.8	1.7	<0.001	0.34	0.06	2.1	0.3	0.2	55.3	<0.01	0.05	0.4
463379		5.7	470	1.1	1.5	<0.001	0.03	0.10	3.5	0.5	0.2	85.0	<0.01	0.02	0.3
463380		5.6	460	1.0	1.4	<0.001	0.03	0.09	3.4	0.6	0.2	81.7	<0.01	0.02	0.3
463381		5.6	460	1.7	1.8	<0.001	3.27	0.15	2.5	0.8	0.3	54.8	<0.01	1.04	0.3
463382		6.5	520	0.7	1.7	<0.001	0.04	0.08	2.2	0.4	0.2	64.2	<0.01	<0.01	0.4
463383		6.2	520	0.6	1.7	<0.001	0.03	0.08	1.9	0.3	0.2	59.8	<0.01	0.01	0.4
463384		6.1	520	0.5	1.9	<0.001	0.02	0.07	2.0	0.3	0.2	59.1	<0.01	<0.01	0.3
463385		4.9	480	0.4	1.7	<0.001	0.12	<0.05	1.6	0.3	<0.2	50.1	<0.01	0.03	0.3
463386		5.4	480	0.6	1.8	<0.001	0.41	0.07	1.8	0.2	0.2	42.0	<0.01	0.11	0.3
463387		5.1	480	0.6	1.2	<0.001	0.04	0.07	2.2	0.3	<0.2	62.6	<0.01	<0.01	0.3
463388		4.8	430	0.9	1.5	<0.001	0.05	0.06	3.6	0.3	0.2	77.2	<0.01	0.01	0.4
463389		5.0	430	1.1	1.9	<0.001	0.51	0.07	3.5	0.4	0.3	75.7	<0.01	0.13	0.4
463390		5.0	470	1.6	1.2	<0.001	0.23	0.10	3.9	<0.2	0.2	78.7	<0.01	0.30	0.2
463391		5.0	450	1.3	1.2	0.001	<0.01	0.08	3.3	<0.2	0.2	82.7	<0.01	<0.01	0.2
463392		4.9	440	1.4	1.1	<0.001	0.02	0.08	2.9	0.2	<0.2	74.7	<0.01	0.01	0.3
463393		5.3	530	3.3	3.1	<0.001	4.74	0.06	2.2	0.7	0.6	61.6	<0.01	1.42	0.4



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Page: 3 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 26 -FEB- 2017
 Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029933

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46	Mo-OG46	Au-AA23
		Tl	U	V	W	Y	Zn	Zr	Cu	Mo	Au
		ppm 0.02	ppm 0.05	ppm 1	ppm 0.05	ppm 0.05	ppm 2	ppm 0.5	% 0.001	% 0.001	ppm 0.005
463354		<0.02	0.24	16	<0.05	4.56	328	<0.5			
463355		<0.02	0.28	18	<0.05	5.20	111	<0.5			
463356		<0.02	0.21	18	<0.05	6.54	154	<0.5			
463357		<0.02	0.74	16	<0.05	9.20	423	<0.5			
463358		<0.02	0.46	17	<0.05	6.93	340	<0.5			
463359		<0.02	0.23	14	<0.05	5.61	713	<0.5	0.576		
463360		0.02	0.25	16	<0.05	6.04	769	<0.5	0.581		
463361		<0.02	0.25	17	<0.05	7.89	100	<0.5			
463362		<0.02	0.27	19	<0.05	9.17	258	<0.5			
463363		<0.02	1.21	17	<0.05	7.86	417	<0.5	0.247		
463364		<0.02	0.20	21	<0.05	8.90	531	<0.5			
463365		<0.02	0.30	19	<0.05	12.90	897	<0.5			
463366		<0.02	0.33	16	<0.05	6.84	285	<0.5			
463367		<0.02	0.24	16	<0.05	5.12	1080	<0.5			
463368		<0.02	0.21	15	0.05	5.15	402	<0.5			
463369		<0.02	0.24	13	<0.05	6.76	564	<0.5			
463370		<0.02	0.24	16	<0.05	6.38	519	<0.5			
463371		<0.02	0.12	16	<0.05	5.82	85	<0.5			
463372		<0.02	0.22	18	<0.05	7.34	184	<0.5			
463373		0.02	1.77	12	0.19	4.19	518	<0.5	1.020		
463374		0.05	3.31	8	0.22	14.00	22	4.9			
463375		<0.02	0.30	16	0.06	5.69	812	<0.5	0.210		
463376		<0.02	0.19	20	0.06	5.81	401	<0.5			
463377		<0.02	0.40	17	0.07	5.17	304	<0.5	0.311		
463378		<0.02	0.18	22	<0.05	7.36	72	<0.5			
463379		<0.02	0.12	34	<0.05	11.00	117	<0.5			
463380		<0.02	0.12	33	<0.05	10.80	114	<0.5			
463381		<0.02	2.15	24	<0.05	8.61	111	<0.5	0.170		
463382		<0.02	0.33	24	<0.05	10.15	67	0.5			
463383		<0.02	0.15	23	<0.05	9.39	55	0.5			
463384		<0.02	0.13	25	<0.05	9.01	53	<0.5			
463385		<0.02	0.13	19	<0.05	9.32	400	<0.5			
463386		<0.02	0.21	18	<0.05	5.98	738	<0.5			
463387		<0.02	0.14	21	<0.05	9.73	73	<0.5			
463388		<0.02	0.14	27	<0.05	9.68	237	<0.5			
463389		<0.02	0.16	26	0.05	10.40	850	<0.5			
463390		<0.02	0.22	34	0.05	8.69	244	<0.5	0.218		
463391		<0.02	0.23	28	<0.05	7.42	374	<0.5			
463392		<0.02	0.40	27	<0.05	6.13	106	<0.5			
463393		0.02	2.52	15	0.10	5.02	205	<0.5	1.985		



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Page: 4 - A
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 26-FEB-2017
 Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029933

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
463394		5.11	3.69	0.88	2.6	<0.2	<10	20	0.10	1.81	1.66	0.22	8.81	57.8	5	0.29
463395		1.23	0.07	0.26	0.1	<0.2	<10	30	0.39	0.22	0.32	0.15	96.5	1.1	6	0.44
463396		3.14	0.40	1.69	0.3	<0.2	<10	30	0.20	0.15	3.63	0.09	16.50	10.0	3	0.30
463397		8.69	1.56	1.56	1.4	<0.2	<10	60	0.14	0.16	3.79	0.70	17.20	10.8	3	0.27
463398		8.23	3.26	1.89	0.8	<0.2	<10	70	0.13	0.08	1.94	1.21	12.65	10.7	3	0.15
463399		8.43	0.99	1.67	0.4	<0.2	<10	40	0.14	0.10	2.59	1.35	15.55	10.2	4	0.16
463400		<0.02	1.15	1.63	0.4	<0.2	<10	40	0.14	0.10	2.60	1.42	15.65	10.2	4	0.17
463401		7.81	0.16	1.74	0.2	<0.2	<10	50	0.11	0.02	1.32	0.26	7.18	11.0	4	0.06
463402		8.13	0.03	1.57	0.2	<0.2	<10	60	0.11	<0.01	0.88	0.01	6.51	11.6	7	<0.05
463403		7.48	0.11	1.54	<0.1	<0.2	<10	50	0.12	0.01	1.53	0.04	5.26	10.5	5	0.07
463404		3.51	0.15	1.85	0.1	<0.2	<10	260	0.11	0.03	1.43	0.06	6.93	11.7	5	0.06
463405		5.38	0.05	0.62	0.1	<0.2	<10	50	0.06	0.02	3.36	0.24	16.70	9.7	3	0.06
463406		2.45	0.04	0.44	<0.1	<0.2	<10	40	0.07	0.01	4.04	0.35	15.25	9.6	2	0.34
463407		3.26	0.11	0.49	<0.1	<0.2	<10	50	0.05	0.01	3.36	0.21	13.90	12.0	5	0.08
463408		7.43	0.05	0.61	<0.1	<0.2	<10	50	0.07	0.03	3.40	0.24	8.02	10.0	5	0.05
463409		6.77	0.84	1.74	0.2	<0.2	<10	50	0.09	0.07	2.32	0.39	8.56	12.3	5	0.09
463410		0.04	0.49	2.08	14.9	<0.2	10	80	0.31	0.43	1.16	0.20	9.60	50.0	260	1.31
463411		7.30	1.30	1.53	0.1	<0.2	<10	50	0.09	0.09	2.55	0.46	7.78	8.3	6	0.08
463412		6.83	0.11	1.65	0.3	<0.2	<10	50	0.13	0.01	1.14	0.07	7.25	11.3	5	0.06
463413		7.32	0.10	1.60	0.1	<0.2	<10	40	0.11	0.03	0.91	0.46	5.45	10.9	5	0.09



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Page: 4 - B
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 26-FEB-2017
 Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029933

Sample Description	Method Analyte Units LOR	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01	ME-MS41 Nb ppm 0.05
463394		10000	11.60	2.85	0.06	<0.02	0.03	0.136	0.14	3.1	4.2	0.47	967	2.69	0.02	<0.05
463395		24.9	1.19	2.20	0.07	0.18	<0.01	0.041	0.15	53.5	6.6	0.10	259	1.06	0.05	3.25
463396		505	3.52	5.25	0.05	<0.02	0.01	0.045	0.12	5.6	8.6	1.04	1500	0.93	0.05	<0.05
463397		1045	3.67	5.12	0.05	0.02	0.01	0.243	0.10	6.4	7.2	0.98	1780	0.96	0.04	<0.05
463398		4320	3.73	6.55	<0.05	0.02	0.01	0.609	0.11	4.6	7.5	1.17	1560	0.59	0.04	<0.05
463399		540	2.96	5.02	0.05	0.02	0.01	0.162	0.12	6.2	5.8	1.04	1450	17.45	0.04	<0.05
463400		609	2.90	4.90	0.05	0.02	0.02	0.170	0.12	6.2	5.8	1.03	1440	19.50	0.04	<0.05
463401		80.3	2.40	4.68	<0.05	0.02	0.01	0.017	0.10	2.7	7.1	1.34	961	0.43	0.04	<0.05
463402		20.4	1.98	4.11	<0.05	0.05	0.01	<0.005	0.09	2.6	6.1	1.23	439	0.27	0.05	<0.05
463403		64.2	2.04	4.36	<0.05	0.02	0.01	0.008	0.08	2.0	7.0	1.19	688	0.23	0.04	<0.05
463404		75.4	2.38	5.26	<0.05	<0.02	0.01	0.012	0.06	2.8	10.1	1.39	836	0.85	0.05	<0.05
463405		36.5	2.70	2.02	<0.05	<0.02	0.01	0.010	0.07	6.5	3.2	1.22	1240	0.33	0.07	<0.05
463406		9.0	2.85	1.42	<0.05	<0.02	0.01	0.025	0.07	5.8	1.8	1.15	1630	0.49	0.07	<0.05
463407		82.6	2.66	1.71	<0.05	<0.02	0.01	0.014	0.07	5.4	2.1	1.24	896	0.46	0.07	<0.05
463408		31.8	2.70	2.08	<0.05	<0.02	0.01	0.013	0.07	3.0	2.9	1.23	1150	0.42	0.08	<0.05
463409		452	2.67	5.39	<0.05	<0.02	0.01	0.023	0.07	3.2	9.5	1.20	1680	0.69	0.06	<0.05
463410		818	5.42	5.93	0.07	0.06	0.02	0.022	0.68	4.0	4.2	5.43	460	92.4	0.10	<0.05
463411		1040	2.64	5.10	<0.05	<0.02	0.01	0.038	0.07	2.9	6.9	1.04	1380	0.82	0.05	<0.05
463412		59.3	2.13	4.58	<0.05	0.02	0.01	0.007	0.05	3.1	6.4	1.19	590	0.31	0.05	<0.05
463413		51.2	2.19	4.01	<0.05	<0.02	0.01	0.022	0.05	2.0	6.4	1.15	847	0.47	0.05	<0.05



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Page: 4 - C
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 26-FEB-2017
 Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029933

Sample Description	Method Analyte Units LOR	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2	ME-MS41 Ti % 0.005
463394		6.3	340	2.9	2.6	<0.001	>10.0	0.20	1.7	2.3	0.6	45.7	<0.01	1.68	0.3	<0.005
463395		0.9	120	5.7	9.1	<0.001	0.11	<0.05	0.8	0.4	0.5	11.6	<0.01	0.02	24.8	0.014
463396		4.7	500	2.6	2.3	<0.001	0.17	0.07	4.4	0.2	0.4	122.0	<0.01	0.03	0.5	<0.005
463397		4.9	480	2.6	2.1	<0.001	0.61	0.18	4.6	0.2	0.4	136.0	<0.01	0.10	0.5	0.005
463398		5.3	500	1.9	2.2	<0.001	0.88	0.09	4.6	0.3	0.3	82.7	<0.01	0.12	0.7	0.005
463399		5.0	460	1.3	2.5	0.001	0.40	0.08	4.1	0.4	0.3	140.0	<0.01	0.06	0.9	0.005
463400		5.0	470	1.4	2.3	0.001	0.40	0.08	4.1	0.4	0.3	146.0	<0.01	0.05	1.0	0.005
463401		5.2	530	0.6	1.8	<0.001	0.11	<0.05	2.3	0.2	<0.2	51.2	<0.01	0.01	0.7	0.007
463402		5.4	600	0.4	1.7	<0.001	<0.01	0.07	1.6	<0.2	<0.2	62.8	<0.01	<0.01	0.4	0.057
463403		5.4	510	0.5	1.5	<0.001	0.02	0.06	1.9	<0.2	<0.2	56.1	<0.01	<0.01	0.5	0.021
463404		6.1	480	0.8	1.1	<0.001	0.01	0.08	3.3	<0.2	<0.2	62.7	<0.01	<0.01	0.7	<0.005
463405		4.9	490	0.5	1.3	<0.001	0.05	<0.05	2.3	0.2	<0.2	85.6	<0.01	<0.01	0.9	0.010
463406		4.3	500	0.6	1.2	<0.001	0.05	<0.05	2.2	<0.2	<0.2	102.0	<0.01	<0.01	0.7	<0.005
463407		4.9	450	0.5	1.4	<0.001	0.04	<0.05	2.1	0.3	<0.2	79.6	<0.01	<0.01	0.7	0.010
463408		4.8	470	0.6	1.4	<0.001	0.03	<0.05	2.6	0.2	<0.2	78.3	<0.01	<0.01	0.5	0.016
463409		5.0	460	1.1	1.2	<0.001	0.13	0.06	3.6	0.2	<0.2	89.3	<0.01	0.20	0.4	<0.005
463410		624	680	4.5	27.1	0.097	3.86	0.71	8.1	3.0	0.3	50.5	<0.01	0.19	0.9	0.057
463411		5.7	470	0.9	1.1	<0.001	0.20	0.05	3.4	0.3	<0.2	86.3	<0.01	0.23	0.4	<0.005
463412		5.8	530	0.7	1.0	<0.001	0.02	0.08	2.1	0.2	<0.2	66.3	<0.01	0.01	0.9	0.006
463413		5.3	530	0.7	0.8	<0.001	0.15	0.09	1.9	<0.2	<0.2	59.6	<0.01	0.05	0.6	0.005



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Page: 4 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 26-FEB-2017
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Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029933

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
463394		0.04	3.14	11	0.10	4.26	80	<0.5	0.968		
463395		0.05	3.05	9	0.22	13.80	38	4.5			
463396		<0.02	0.67	48	0.14	9.73	124	<0.5			
463397		0.02	0.61	46	0.12	10.55	365	<0.5			
463398		<0.02	0.19	33	0.07	7.98	411	<0.5	0.425		
463399		<0.02	0.36	28	<0.05	12.40	695	<0.5			
463400		<0.02	0.37	27	0.05	12.60	712	<0.5			
463401		<0.02	0.16	25	<0.05	4.68	242	<0.5			
463402		<0.02	0.22	23	<0.05	4.62	54	0.5			
463403		<0.02	0.19	22	<0.05	3.98	86	<0.5			
463404		<0.02	0.12	30	<0.05	3.78	105	<0.5			
463405		<0.02	0.37	20	<0.05	5.57	120	<0.5			
463406		<0.02	0.36	11	<0.05	6.37	127	<0.5			
463407		<0.02	0.21	17	<0.05	6.19	114	<0.5			
463408		<0.02	0.18	21	<0.05	5.50	134	<0.5			
463409		<0.02	0.13	30	<0.05	5.42	256	<0.5			
463410		0.60	0.29	70	10.30	4.78	60	1.1			
463411		<0.02	0.15	27	0.05	5.75	302	<0.5			
463412		<0.02	0.17	26	<0.05	4.00	107	<0.5			
463413		<0.02	0.20	24	<0.05	3.81	384	<0.5			



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 26-FEB-2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029933

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.

CRU - 31	CRU - QC	LOG - 21d	LOG - 22
LOG - 23	PUL - 31	PUL - 31d	PUL - QC
SPL - 21	SPL - 21d	WEI - 21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au - AA23	Cu - OG46	ME - MS41	ME - OG46
Mo - OG46			



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Page: 1
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 26-FEB-2017
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CERTIFICATE KL17029935

Project: SGM2017-02

P.O. No.: S0218733

This report is for 100 Drill Core samples submitted to our lab in Kamloops, BC,
Canada on 17-FEB-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Mo-OG46	Ore Grade Mo - Aqua Regia	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **GIBRALTAR MINES LTD.**
ATTN: ALS MINERALS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 26-FEB-2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029935

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
463414		7.72	0.13	1.68	0.2	<0.2	<10	40	0.10	0.14	2.16	2.80	9.10	11.0	5	0.11
463415		2.59	0.08	1.27	0.1	<0.2	<10	30	0.12	0.07	3.93	0.80	13.50	9.2	5	0.09
463416		3.87	0.26	1.47	<0.1	<0.2	<10	40	0.15	0.07	4.98	0.81	14.70	8.7	4	0.23
463417		5.53	0.09	1.40	0.1	<0.2	<10	50	0.11	0.05	3.93	0.28	12.35	12.8	6	0.10
463418		4.12	0.02	1.74	0.2	<0.2	<10	70	0.11	<0.01	1.80	0.04	6.09	11.1	6	0.09
463419		7.26	0.01	1.44	0.1	<0.2	<10	60	0.10	0.01	2.24	0.07	8.11	9.4	6	0.10
463420		<0.02	0.01	1.44	0.2	<0.2	<10	60	0.10	0.01	2.19	0.06	7.88	9.4	7	0.10
463421		7.80	0.02	0.80	0.2	<0.2	<10	70	0.17	0.02	3.76	0.19	15.75	9.4	8	0.09
463422		8.36	0.03	1.33	0.2	<0.2	<10	60	0.13	0.02	2.54	0.11	9.72	9.8	5	0.09
463423		7.46	0.03	1.58	0.3	<0.2	<10	60	0.14	0.02	2.70	0.10	12.60	10.5	6	0.11
463424		7.79	0.03	1.54	0.2	<0.2	<10	70	0.12	0.01	1.70	0.05	8.18	10.1	6	0.13
463425		8.01	0.12	1.54	<0.1	<0.2	<10	80	0.15	0.03	5.18	0.21	15.70	9.6	4	0.14
463426		6.31	0.04	1.42	0.1	<0.2	<10	50	0.11	0.07	2.57	0.16	10.10	10.3	6	0.07
463427		4.53	4.47	0.64	1.7	<0.2	<10	60	0.06	1.29	0.53	0.42	15.30	15.1	6	0.08
463428		7.19	0.35	1.15	0.4	<0.2	<10	50	0.12	0.28	2.88	0.21	12.65	13.6	5	0.12
463429		4.33	0.01	1.59	0.1	<0.2	<10	30	0.10	0.10	1.65	0.02	6.24	10.5	7	0.07
463430		0.05	0.85	1.46	5.7	<0.2	<10	120	0.27	0.19	0.87	0.39	12.40	10.9	28	0.41
463431		7.69	1.53	1.72	0.5	<0.2	<10	50	0.10	0.53	0.88	0.42	8.64	10.2	5	0.09
463432		3.74	3.15	1.21	0.2	<0.2	<10	50	0.09	0.46	2.97	0.82	6.68	7.7	7	0.08
463433		3.45	0.03	1.33	0.1	<0.2	<10	60	0.11	0.03	1.17	0.03	6.95	8.3	8	0.08
463434		7.44	0.86	1.48	0.3	<0.2	<10	60	0.10	0.29	1.51	0.63	10.15	7.1	5	0.19
463435		7.42	0.24	1.49	0.4	<0.2	<10	50	0.16	0.04	2.27	0.38	12.70	7.8	6	0.30
463436		7.26	0.03	1.42	0.4	<0.2	<10	50	0.16	0.03	1.93	0.07	12.15	7.8	6	0.27
463437		7.96	0.04	1.29	0.3	<0.2	<10	50	0.11	0.02	0.88	0.24	8.87	8.5	8	0.06
463438		7.64	0.27	1.49	0.3	<0.2	<10	60	0.11	0.06	0.86	2.54	8.38	9.5	9	0.08
463439		6.41	0.13	1.38	0.3	<0.2	<10	40	0.08	0.07	1.46	0.22	6.92	9.0	6	0.14
463440		<0.02	0.13	1.43	0.3	<0.2	<10	40	0.09	0.08	1.48	0.23	6.95	9.1	8	0.14
463441		8.22	6.02	2.39	1.3	0.2	<10	60	0.11	0.45	0.79	2.67	10.10	11.8	6	0.06
463442		8.35	1.78	1.63	1.0	<0.2	<10	50	0.07	0.22	0.84	3.28	6.80	8.2	6	0.06
463443		3.28	0.06	1.23	<0.1	<0.2	<10	60	0.09	0.04	1.17	0.04	6.36	5.8	5	<0.05
463444		3.71	0.06	1.11	0.2	<0.2	<10	50	0.09	0.02	0.70	0.02	8.36	7.1	7	<0.05
463445		6.95	0.05	1.17	0.2	<0.2	<10	60	0.08	0.01	0.73	0.02	7.41	7.0	7	0.05
463446		7.14	0.13	1.13	0.4	<0.2	<10	60	0.09	0.01	0.99	0.01	5.71	5.7	6	0.06
463447		6.37	0.04	1.16	0.3	<0.2	<10	30	0.08	0.04	1.36	0.06	4.84	8.0	7	0.08
463448		7.25	0.05	0.77	0.1	<0.2	<10	40	0.14	0.05	2.93	0.34	10.75	6.5	7	0.11
463449		7.45	0.86	0.53	0.2	<0.2	<10	70	0.09	0.15	1.21	0.88	8.29	4.5	8	0.07
463450		0.04	0.91	1.53	5.8	<0.2	<10	120	0.28	0.18	0.92	0.40	12.90	11.5	28	0.42
463451		7.35	0.06	0.60	0.1	<0.2	<10	40	0.08	0.07	1.44	1.18	7.49	3.8	7	0.06
463452		6.61	1.02	0.73	0.3	<0.2	<10	30	0.10	0.19	1.31	3.77	7.62	3.8	9	0.12
463453		6.92	2.07	0.66	0.2	<0.2	<10	50	0.10	0.23	1.66	2.09	11.50	4.0	6	0.08



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Page: 2 - B
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 26-FEB-2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029935

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
463414		76.2	2.99	4.69	<0.05	<0.02	0.04	0.215	0.07	3.5	9.3	1.14	1910	0.65	0.04
463415		48.5	3.53	4.14	0.05	<0.02	0.01	0.141	0.05	5.2	8.5	1.10	2980	0.81	0.07
463416		166.5	3.71	4.53	<0.05	<0.02	0.01	0.138	0.06	5.8	10.9	0.87	3530	1.35	0.08
463417		56.7	3.23	4.44	<0.05	<0.02	0.01	0.048	0.06	4.6	8.3	1.15	1640	0.93	0.06
463418		8.0	2.40	5.21	<0.05	<0.02	<0.01	0.012	0.08	2.2	6.3	1.26	709	0.80	0.06
463419		8.0	2.36	4.49	<0.05	<0.02	<0.01	0.013	0.07	3.0	6.2	1.00	963	1.54	0.06
463420		10.0	2.34	4.53	<0.05	<0.02	0.01	0.012	0.06	2.9	6.4	1.01	932	1.48	0.05
463421		8.4	2.49	2.52	0.10	<0.02	<0.01	0.019	0.06	6.1	4.7	0.70	1640	1.22	0.07
463422		24.0	2.41	4.15	0.09	<0.02	<0.01	0.016	0.07	3.5	8.7	0.94	1010	0.64	0.06
463423		50.8	2.64	4.95	0.10	<0.02	<0.01	0.019	0.08	4.5	11.4	1.06	985	0.71	0.06
463424		25.1	2.24	4.33	0.09	<0.02	<0.01	0.010	0.07	2.9	9.5	1.04	674	0.92	0.06
463425		118.5	2.78	4.54	0.11	0.02	<0.01	0.023	0.05	5.9	10.6	1.04	2080	0.87	0.05
463426		80.3	3.04	4.52	0.10	<0.02	<0.01	0.064	0.07	3.6	9.1	1.02	1180	0.58	0.06
463427		9000	5.90	2.00	0.11	<0.02	0.02	0.349	0.20	5.6	3.0	0.30	462	1.41	0.03
463428		791	4.29	3.37	0.10	<0.02	<0.01	0.052	0.12	4.8	7.0	0.68	1260	1.35	0.05
463429		13.9	2.33	5.01	0.10	<0.02	<0.01	0.010	0.06	2.2	8.1	1.19	1110	0.43	0.05
463430		3100	2.98	5.31	0.14	0.20	0.03	0.047	0.19	6.2	11.3	0.72	443	222	0.08
463431		3070	3.89	5.92	0.10	<0.02	0.01	0.272	0.16	3.2	7.9	1.14	1220	0.94	0.04
463432		6610	2.82	3.97	0.08	<0.02	0.01	0.411	0.10	2.8	5.3	0.77	1860	0.74	0.04
463433		32.1	1.86	4.04	0.09	<0.02	<0.01	0.008	0.07	2.8	5.5	0.88	555	0.50	0.05
463434		1165	2.63	4.91	0.09	<0.02	0.01	0.194	0.08	4.0	7.1	0.87	867	1.58	0.05
463435		152.5	2.52	4.72	0.09	0.02	0.01	0.057	0.10	5.0	5.5	0.81	873	1.08	0.06
463436		14.5	2.08	4.52	0.09	0.02	<0.01	0.018	0.08	4.7	5.2	0.81	713	3.81	0.06
463437		11.9	1.86	3.76	0.09	0.05	<0.01	0.010	0.06	3.2	4.6	0.86	675	1.34	0.05
463438		162.0	2.56	4.22	0.10	0.04	0.01	0.297	0.07	3.0	5.2	0.98	954	3.77	0.04
463439		58.3	2.47	4.43	0.09	<0.02	<0.01	0.039	0.06	2.8	5.5	0.89	1020	13.45	0.04
463440		64.1	2.52	4.62	0.10	<0.02	<0.01	0.042	0.07	2.8	5.6	0.91	1040	10.95	0.05
463441		4620	6.64	11.05	0.10	<0.02	0.01	1.040	0.18	4.0	6.3	1.16	1680	3.63	0.03
463442		1215	3.75	5.13	0.10	<0.02	0.01	0.440	0.12	2.8	5.6	0.86	1060	1.55	0.04
463443		28.6	1.73	3.69	0.08	0.02	<0.01	0.016	0.07	2.5	3.7	0.79	611	4.99	0.06
463444		28.5	1.53	3.23	0.08	0.04	<0.01	0.005	0.06	3.1	3.3	0.74	343	1.11	0.05
463445		14.2	1.62	3.19	0.08	0.04	<0.01	0.006	0.07	2.6	3.2	0.74	367	1.43	0.06
463446		4.4	1.65	3.25	0.07	0.02	<0.01	0.008	0.07	2.2	3.4	0.70	517	1.44	0.05
463447		5.8	1.95	3.81	0.08	<0.02	<0.01	0.010	0.05	2.0	5.4	0.69	1060	0.74	0.06
463448		33.3	2.50	2.61	0.09	<0.02	<0.01	0.045	0.08	4.4	4.6	0.50	1980	0.65	0.06
463449		849	2.01	1.82	0.08	<0.02	0.01	0.438	0.12	3.3	2.1	0.32	950	1.63	0.05
463450		3200	3.10	5.61	0.14	0.21	0.02	0.051	0.20	6.4	10.2	0.76	459	239	0.09
463451		44.9	1.62	2.18	0.08	<0.02	0.01	0.137	0.08	3.0	2.7	0.34	1240	1.20	0.05
463452		1015	2.16	2.46	0.08	<0.02	0.06	0.336	0.10	3.0	3.0	0.34	1150	1.18	0.04
463453		2920	2.64	2.36	0.09	<0.02	0.04	0.238	0.10	4.6	2.4	0.30	1190	3.80	0.05



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Page: 2 - C
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 26-FEB-2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029935

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
463414		4.6	460	1.0	1.1	<0.001	0.49	0.08	2.6	<0.2	0.2	66.6	<0.01	0.13	0.8
463415		4.8	450	0.9	0.9	<0.001	0.19	<0.05	3.8	0.3	<0.2	119.5	<0.01	0.03	1.1
463416		4.9	460	1.5	1.1	<0.001	0.22	<0.05	3.9	0.3	<0.2	210	<0.01	0.11	1.1
463417		5.7	490	1.0	1.1	<0.001	0.29	0.05	3.5	0.2	<0.2	158.0	<0.01	0.04	0.4
463418		6.3	440	0.8	1.5	<0.001	<0.01	0.07	2.7	<0.2	<0.2	70.8	<0.01	<0.01	<0.2
463419		5.0	460	0.8	1.3	<0.001	0.02	0.07	2.7	<0.2	<0.2	79.6	<0.01	<0.01	0.2
463420		5.3	460	0.8	1.2	<0.001	0.02	0.08	2.6	<0.2	<0.2	77.6	<0.01	<0.01	0.2
463421		5.0	500	1.9	1.1	0.001	0.12	0.07	3.3	0.6	<0.2	109.5	<0.01	0.02	0.5
463422		4.9	510	1.2	1.4	<0.001	0.02	0.06	3.4	0.2	<0.2	94.4	<0.01	0.03	0.2
463423		5.1	500	1.1	1.5	<0.001	0.01	0.08	3.9	0.4	<0.2	98.7	<0.01	0.02	0.2
463424		4.6	500	1.1	1.4	<0.001	0.01	0.10	2.7	0.3	<0.2	70.8	<0.01	0.01	0.2
463425		4.5	460	1.8	1.1	<0.001	0.07	0.11	4.3	0.5	<0.2	189.0	<0.01	0.03	0.3
463426		5.0	540	0.8	1.3	<0.001	0.16	0.05	3.3	<0.2	<0.2	80.5	<0.01	0.07	0.3
463427		6.0	520	0.6	3.2	<0.001	6.15	0.05	0.9	0.9	0.6	24.4	<0.01	1.34	0.3
463428		4.4	490	1.1	1.7	<0.001	2.43	0.06	2.7	0.5	<0.2	113.0	<0.01	0.14	0.3
463429		5.5	450	1.0	1.0	<0.001	0.12	0.07	2.4	0.3	<0.2	51.1	<0.01	0.04	0.3
463430		22.8	640	8.5	9.2	0.216	0.46	2.23	5.1	1.5	1.0	42.4	<0.01	0.11	1.8
463431		5.1	490	0.7	2.5	0.001	1.63	0.05	2.1	0.3	0.3	32.9	<0.01	0.56	0.4
463432		4.1	460	1.1	1.8	<0.001	0.99	0.07	2.8	0.2	0.3	74.3	<0.01	0.91	0.4
463433		4.6	460	1.1	1.5	<0.001	0.02	0.07	2.0	0.2	<0.2	59.8	<0.01	0.02	0.4
463434		3.9	410	1.3	1.5	0.001	0.37	0.07	3.0	0.2	0.2	161.5	<0.01	0.25	0.5
463435		4.2	400	1.5	2.0	<0.001	0.23	0.10	3.8	0.3	0.2	110.5	<0.01	0.04	0.5
463436		4.3	410	1.3	1.7	0.002	0.05	0.10	3.8	0.3	0.2	114.5	<0.01	0.03	0.4
463437		4.4	420	0.6	1.1	0.001	0.14	0.08	1.9	0.2	0.2	61.3	<0.01	0.04	0.7
463438		4.9	470	0.7	1.2	0.001	0.41	0.07	2.0	0.4	0.2	48.4	<0.01	0.05	0.5
463439		4.5	420	0.8	1.1	0.003	0.28	0.06	2.3	0.3	<0.2	48.4	<0.01	0.05	0.3
463440		4.5	420	0.8	1.2	0.004	0.28	0.05	2.3	0.2	<0.2	50.1	<0.01	0.05	0.3
463441		4.9	450	0.4	2.7	0.001	2.33	0.05	2.5	0.4	0.4	26.7	<0.01	0.66	0.4
463442		4.3	470	0.5	1.9	<0.001	1.12	0.06	1.8	0.3	0.2	33.9	<0.01	0.11	0.6
463443		3.6	480	0.6	1.3	0.002	0.02	0.05	1.5	0.2	<0.2	54.7	<0.01	0.02	0.5
463444		3.9	470	0.6	1.2	0.001	0.02	0.08	1.3	0.3	<0.2	51.6	<0.01	0.01	0.5
463445		3.6	500	0.5	1.3	<0.001	0.01	0.08	1.3	0.2	<0.2	50.9	<0.01	0.01	0.4
463446		3.5	430	0.7	1.2	<0.001	0.05	0.05	1.3	0.2	<0.2	58.6	<0.01	0.02	0.4
463447		3.6	420	0.9	0.8	0.001	0.36	0.08	1.8	<0.2	<0.2	56.7	<0.01	0.07	0.4
463448		3.2	420	1.0	1.3	<0.001	0.39	<0.05	1.8	0.2	<0.2	128.5	<0.01	0.05	0.6
463449		1.7	260	0.4	1.8	0.001	0.54	<0.05	0.8	0.3	<0.2	34.9	<0.01	0.26	0.9
463450		23.3	660	8.7	9.6	0.257	0.48	2.24	5.3	1.2	1.1	44.6	<0.01	0.11	1.9
463451		2.0	320	0.8	1.3	0.001	0.28	0.05	1.0	<0.2	<0.2	46.6	<0.01	0.05	1.0
463452		2.6	320	0.8	1.6	<0.001	0.82	0.05	1.1	0.2	<0.2	47.1	<0.01	0.32	0.8
463453		2.5	310	0.8	1.6	0.001	1.36	<0.05	1.0	0.2	0.3	51.9	<0.01	0.37	1.0



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Page: 2 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 26-FEB-2017
 Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029935

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
463414		<0.02	0.27	26	0.05	4.65	1140	<0.5			
463415		<0.02	0.35	32	<0.05	6.59	337	<0.5			
463416		<0.02	0.60	32	<0.05	7.21	351	<0.5			
463417		<0.02	0.24	27	<0.05	6.90	163	<0.5			
463418		<0.02	0.08	26	<0.05	5.08	85	<0.5			
463419		<0.02	0.21	25	0.07	6.01	83	<0.5			
463420		<0.02	0.20	24	0.08	5.92	82	<0.5			
463421		<0.02	1.90	18	<0.05	11.30	128	<0.5			
463422		<0.02	0.20	25	<0.05	7.82	113	<0.5			
463423		<0.02	0.32	29	<0.05	8.63	121	<0.5			
463424		<0.02	0.09	27	<0.05	5.73	72	<0.5			
463425		<0.02	0.37	31	0.11	14.25	134	<0.5			
463426		<0.02	0.22	28	<0.05	6.09	222	<0.5			
463427		0.02	3.11	7	0.15	5.18	91	<0.5	0.895		
463428		<0.02	1.60	20	0.08	8.90	173	<0.5			
463429		<0.02	0.11	26	<0.05	4.27	91	<0.5			
463430		0.11	0.36	59	14.00	7.43	55	5.9	0.320	0.029	
463431		0.02	2.53	19	0.18	5.76	307	<0.5	0.304		
463432		<0.02	2.02	15	0.08	6.01	295	<0.5	0.658		
463433		<0.02	0.14	20	<0.05	4.05	88	<0.5			
463434		<0.02	0.32	24	0.06	6.01	378	<0.5			
463435		<0.02	0.25	31	0.05	8.12	226	<0.5			
463436		<0.02	0.23	29	<0.05	8.03	164	<0.5			
463437		<0.02	0.29	19	<0.05	6.89	227	<0.5			
463438		<0.02	0.25	23	<0.05	7.33	1240	<0.5			
463439		<0.02	0.13	20	0.18	4.99	268	<0.5			
463440		<0.02	0.13	21	0.17	5.00	277	<0.5			
463441		0.02	0.71	20	0.18	7.03	1180	<0.5	0.475		0.251
463442		<0.02	0.38	14	0.09	4.66	1340	<0.5			
463443		<0.02	0.12	14	<0.05	3.45	154	<0.5			
463444		<0.02	0.11	14	<0.05	4.15	70	<0.5			
463445		<0.02	0.09	15	<0.05	4.42	53	<0.5			
463446		<0.02	0.10	12	1.28	4.75	133	<0.5			
463447		<0.02	0.11	14	0.07	3.89	152	<0.5			
463448		<0.02	0.36	14	0.06	5.52	183	<0.5			
463449		<0.02	0.60	3	0.07	3.29	243	<0.5			
463450		0.10	0.37	62	14.15	7.73	58	6.3	0.315	0.030	
463451		<0.02	0.50	5	0.07	3.98	416	<0.5			
463452		<0.02	1.37	5	0.20	3.92	1330	<0.5			
463453		<0.02	2.12	5	0.08	4.66	799	<0.5	0.287		



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Page: 3 - A
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 26 - FEB - 2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029935

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
463454		7.54	0.04	0.69	0.2	<0.2	<10	70	0.10	0.04	1.34	0.61	11.15	3.7	8	0.07
463455		7.02	0.33	0.50	0.2	<0.2	<10	90	0.07	0.14	0.59	3.67	7.25	3.4	8	0.15
463456		3.49	0.03	0.28	0.1	<0.2	<10	370	0.07	0.05	0.82	0.25	8.97	2.0	8	0.07
463457		3.25	0.02	0.27	0.1	<0.2	<10	90	0.10	0.01	0.49	0.01	5.51	1.2	8	0.06
463458		7.08	0.01	0.28	0.1	<0.2	<10	140	0.10	<0.01	0.92	0.01	6.69	1.3	10	0.07
463459		6.82	0.01	0.27	<0.1	<0.2	<10	110	0.08	<0.01	0.68	0.01	5.98	0.9	9	0.06
463460		<0.02	0.01	0.26	0.1	<0.2	<10	100	0.09	0.01	0.68	0.01	5.69	1.0	10	0.06
463461		7.26	0.01	0.29	0.2	<0.2	<10	120	0.10	0.01	0.63	0.42	4.92	1.8	9	0.08
463462		7.66	0.26	0.36	4.0	<0.2	<10	110	0.10	0.15	0.36	4.11	8.77	1.5	8	0.06
463463		6.19	1.01	0.41	1.0	<0.2	<10	60	0.10	1.12	0.42	1.62	9.82	2.1	8	0.13
463464		6.61	0.30	0.74	0.4	<0.2	<10	90	0.09	0.19	0.32	1.86	4.36	1.7	10	0.07
463465		7.62	0.18	0.52	1.2	<0.2	<10	70	0.10	0.26	0.52	1.16	9.45	2.2	9	0.07
463466		3.12	0.02	0.32	<0.1	<0.2	<10	80	0.07	0.03	0.63	0.94	4.85	0.8	7	0.05
463467		3.33	0.03	0.33	0.2	<0.2	<10	120	0.07	0.01	0.54	0.33	6.36	1.9	9	<0.05
463468		7.16	0.09	0.38	0.1	<0.2	<10	80	0.10	0.07	0.67	1.38	8.96	2.1	7	0.08
463469		6.28	0.21	0.44	0.1	<0.2	<10	60	0.09	0.27	1.48	0.20	15.95	2.6	7	0.13
463470		0.04	0.12	1.56	4.5	<0.2	10	110	0.24	0.09	1.20	0.15	11.60	9.5	37	0.39
463471		7.12	0.01	0.52	0.2	<0.2	<10	100	0.09	0.01	0.72	0.01	5.62	2.6	9	0.16
463472		7.08	0.01	0.38	0.5	<0.2	<10	120	0.11	0.01	0.74	0.12	8.23	1.9	8	0.14
463473		6.79	0.11	0.50	0.2	<0.2	<10	100	0.09	0.03	0.86	0.18	10.10	2.8	8	0.12
463474		7.00	0.04	0.62	0.1	<0.2	<10	70	0.10	0.03	1.13	0.77	7.55	2.5	4	0.13
463475		7.16	0.21	0.88	0.3	<0.2	<10	70	0.11	0.16	1.27	3.69	8.47	3.0	5	0.14
463476		6.83	0.11	0.75	0.1	<0.2	<10	100	0.09	0.11	1.29	2.22	7.24	3.5	4	0.08
463477		6.52	1.08	1.41	0.3	<0.2	<10	50	0.08	0.18	1.01	2.52	5.04	8.5	5	0.06
463478		6.56	0.08	0.77	0.3	<0.2	<10	50	0.11	0.07	1.14	2.05	8.32	2.5	5	0.16
463479		6.90	0.09	0.70	0.4	<0.2	<10	70	0.11	0.08	0.92	0.15	8.67	3.7	6	0.16
463480		<0.02	0.08	0.70	0.4	<0.2	<10	60	0.10	0.08	0.94	0.14	9.45	3.7	8	0.17
463481		3.41	0.04	0.64	0.3	<0.2	<10	150	0.09	0.02	0.47	0.05	9.23	4.0	6	0.09
463482		3.14	0.05	0.56	0.2	<0.2	<10	80	0.10	0.03	0.52	0.01	7.80	3.4	6	<0.05
463483		7.07	0.03	0.59	0.5	<0.2	<10	80	0.08	0.02	0.66	0.18	5.26	3.5	7	<0.05
463484		7.55	0.05	0.60	0.4	<0.2	<10	80	0.11	0.04	0.69	0.04	6.49	3.1	6	0.05
463485		7.29	0.02	0.65	0.4	<0.2	<10	90	0.08	0.02	0.58	0.47	5.61	4.1	5	0.05
463486		7.95	0.02	0.64	0.9	<0.2	<10	90	0.09	0.01	0.63	0.07	5.04	3.5	6	<0.05
463487		7.02	0.11	0.74	0.8	<0.2	<10	90	0.10	0.03	0.46	0.74	3.65	4.2	4	0.06
463488		7.17	0.10	0.95	0.1	<0.2	<10	60	0.08	0.03	0.48	0.02	5.23	4.4	7	0.07
463489		7.69	1.03	1.23	0.2	<0.2	<10	70	0.09	0.08	0.47	0.07	4.52	5.7	5	0.06
463490		0.04	0.51	2.24	14.5	<0.2	<10	80	0.32	0.43	1.21	0.20	10.20	51.4	279	1.37
463491		7.55	0.20	0.90	0.8	<0.2	<10	80	0.09	0.24	0.74	0.68	5.61	3.7	3	0.07
463492		6.98	0.05	1.11	0.1	<0.2	<10	60	0.22	0.04	2.44	0.14	12.70	8.8	97	0.07
463493		7.46	0.02	0.79	0.2	<0.2	<10	50	0.09	0.03	1.08	0.29	6.89	3.4	4	0.12



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Page: 3 - B
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 26-FEB-2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029935

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
463454		42.2	1.56	2.51	0.09	<0.02	0.01	0.051	0.09	4.4	2.9	0.36	798	1.60	0.05
463455		255	1.28	1.54	0.07	<0.02	0.02	0.214	0.17	3.1	1.2	0.15	475	0.66	0.04
463456		5.4	0.70	1.08	0.08	<0.02	<0.01	0.019	0.14	3.7	0.6	0.05	317	0.66	0.05
463457		2.4	0.61	1.03	0.08	<0.02	<0.01	<0.005	0.13	2.3	0.7	0.03	167	0.42	0.05
463458		2.6	0.69	1.06	0.08	<0.02	<0.01	<0.005	0.15	2.9	0.7	0.03	232	0.56	0.05
463459		2.5	0.53	0.98	0.07	<0.02	<0.01	<0.005	0.14	2.5	0.6	0.03	189	1.08	0.05
463460		2.6	0.51	0.94	0.07	<0.02	<0.01	<0.005	0.14	2.4	0.6	0.03	184	1.01	0.05
463461		4.2	0.65	1.04	0.06	<0.02	<0.01	0.029	0.15	2.0	0.6	0.03	276	0.91	0.05
463462		489	1.10	1.22	0.07	<0.02	0.03	0.305	0.20	3.6	0.6	0.03	245	2.92	0.04
463463		1845	1.41	1.44	0.07	<0.02	0.02	0.232	0.15	4.0	1.1	0.10	373	0.75	0.03
463464		177.5	1.68	2.35	0.07	<0.02	0.01	0.148	0.15	1.8	2.4	0.23	600	1.46	0.04
463465		111.5	1.52	1.67	0.08	<0.02	0.01	0.119	0.15	3.9	1.2	0.13	652	1.37	0.04
463466		3.8	0.64	1.08	0.07	<0.02	0.01	0.023	0.14	2.1	0.7	0.06	350	0.57	0.04
463467		4.2	0.67	1.24	0.07	<0.02	<0.01	0.007	0.11	2.6	0.9	0.09	329	0.48	0.05
463468		58.0	0.89	1.37	0.08	<0.02	0.01	0.106	0.16	3.7	0.9	0.09	404	0.80	0.04
463469		171.0	1.10	1.67	0.08	<0.02	0.01	0.056	0.12	7.1	1.5	0.17	630	8.06	0.05
463470		52.3	3.02	5.50	0.13	0.27	0.02	0.019	0.10	5.1	9.6	0.77	501	5.68	0.09
463471		3.5	1.02	2.13	0.08	<0.02	<0.01	0.005	0.15	2.3	1.8	0.20	357	0.72	0.05
463472		1.7	0.87	1.60	0.07	<0.02	<0.01	0.006	0.13	3.5	1.1	0.09	328	0.67	0.05
463473		154.5	1.09	1.85	0.08	<0.02	<0.01	0.024	0.12	4.3	1.3	0.19	485	0.61	0.05
463474		21.2	0.97	2.21	0.07	<0.02	0.01	0.039	0.11	2.9	1.6	0.25	660	0.47	0.05
463475		141.0	1.69	2.99	0.08	<0.02	0.03	0.208	0.14	3.4	2.0	0.35	924	0.63	0.04
463476		70.4	1.31	2.54	0.08	<0.02	0.02	0.157	0.12	2.8	2.1	0.34	827	1.46	0.04
463477		540	2.10	4.42	0.08	<0.02	0.03	0.240	0.08	2.0	5.7	0.83	957	0.51	0.05
463478		76.4	1.12	2.40	0.07	<0.02	0.02	0.151	0.13	3.0	2.0	0.33	737	1.42	0.04
463479		89.4	1.16	2.44	0.08	0.02	<0.01	0.035	0.11	3.0	2.3	0.30	536	0.78	0.05
463480		73.1	1.18	2.47	0.07	0.02	<0.01	0.034	0.11	3.2	2.3	0.31	554	0.80	0.05
463481		60.2	0.87	2.29	0.08	0.02	0.01	0.007	0.09	3.2	1.7	0.30	350	0.34	0.05
463482		72.8	0.72	1.87	0.07	0.02	<0.01	0.010	0.11	2.4	1.4	0.26	332	0.37	0.04
463483		33.0	0.88	1.88	0.07	0.02	<0.01	0.017	0.10	1.6	1.4	0.31	388	0.55	0.04
463484		70.0	0.89	1.97	0.09	0.02	<0.01	0.009	0.10	2.3	1.5	0.29	393	0.40	0.04
463485		25.2	0.87	2.14	0.07	0.02	<0.01	0.016	0.11	1.7	1.8	0.36	390	0.44	0.04
463486		20.9	0.82	2.11	0.07	<0.02	<0.01	0.005	0.12	1.8	1.6	0.32	362	0.56	0.05
463487		129.5	1.11	2.24	0.07	<0.02	0.01	0.025	0.12	1.4	2.2	0.38	483	0.50	0.04
463488		144.0	1.74	2.98	0.08	<0.02	<0.01	0.025	0.13	2.1	3.1	0.43	566	0.57	0.04
463489		844	4.08	3.54	0.09	<0.02	<0.01	0.109	0.15	1.8	3.1	0.47	669	0.38	0.03
463490		865	5.73	6.08	0.12	0.03	0.02	0.022	0.72	4.2	3.7	5.74	486	91.1	0.11
463491		261	3.68	3.21	0.08	<0.02	0.01	0.195	0.14	2.0	1.5	0.32	595	1.54	0.03
463492		50.2	2.02	3.55	0.09	<0.02	<0.01	0.023	0.11	5.1	4.3	1.10	924	1.15	0.04
463493		20.7	1.04	2.60	<0.05	<0.02	<0.01	0.025	0.08	2.7	3.7	0.42	655	1.02	0.04



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Page: 3 - C
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 26-FEB-2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029935

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
463454		2.1	300	0.9	1.4	<0.001	0.12	<0.05	1.2	0.3	<0.2	50.4	<0.01	0.04	0.9
463455		1.6	230	1.1	2.7	<0.001	0.62	0.06	0.7	<0.2	<0.2	30.3	<0.01	0.13	1.0
463456		1.0	170	1.2	2.2	<0.001	0.14	0.06	0.7	<0.2	<0.2	38.3	<0.01	0.02	1.3
463457		1.1	210	1.7	2.1	<0.001	0.09	0.07	0.6	<0.2	<0.2	34.2	<0.01	0.02	1.3
463458		1.2	190	1.4	2.6	<0.001	0.05	0.07	0.6	<0.2	<0.2	37.0	<0.01	0.01	1.3
463459		0.9	160	1.2	2.2	<0.001	0.03	<0.05	0.6	<0.2	<0.2	33.0	<0.01	0.01	1.4
463460		1.1	170	1.2	2.2	<0.001	0.03	0.05	0.6	<0.2	<0.2	33.1	<0.01	0.02	1.4
463461		1.3	190	1.0	2.1	<0.001	0.09	0.05	0.6	<0.2	<0.2	31.3	<0.01	0.01	1.2
463462		1.1	170	1.1	3.0	<0.001	0.69	0.05	0.6	<0.2	<0.2	24.5	<0.01	0.19	1.5
463463		1.5	210	1.3	2.4	<0.001	0.79	0.05	0.8	<0.2	0.2	29.6	<0.01	0.87	1.3
463464		1.5	180	0.7	2.4	<0.001	0.28	<0.05	0.6	<0.2	<0.2	19.2	<0.01	0.18	1.2
463465		1.2	190	0.8	2.4	<0.001	0.26	0.06	0.7	<0.2	<0.2	19.9	<0.01	0.20	1.2
463466		1.0	170	0.8	2.1	<0.001	0.06	0.05	0.5	<0.2	<0.2	24.4	<0.01	0.02	1.0
463467		1.3	160	0.7	1.7	<0.001	0.07	0.06	0.7	0.2	<0.2	24.0	<0.01	0.03	1.3
463468		1.0	170	1.2	2.4	<0.001	0.17	0.07	0.8	<0.2	<0.2	30.6	<0.01	0.08	1.4
463469		1.5	210	1.4	1.9	0.001	0.20	0.05	0.9	0.2	<0.2	49.3	<0.01	0.16	1.3
463470		33.5	600	4.2	4.2	0.002	0.07	0.54	5.2	0.6	1.0	49.3	<0.01	0.03	1.1
463471		1.8	250	1.0	3.1	<0.001	0.02	0.07	1.1	<0.2	<0.2	39.1	<0.01	0.01	0.8
463472		1.2	210	1.1	2.5	<0.001	0.03	0.05	0.9	<0.2	<0.2	42.4	<0.01	0.02	1.1
463473		1.6	220	1.2	1.8	<0.001	0.17	0.06	0.8	<0.2	<0.2	42.2	<0.01	0.03	1.2
463474		1.2	240	1.1	1.7	<0.001	0.05	0.05	1.1	<0.2	<0.2	48.6	<0.01	0.02	1.0
463475		1.6	280	1.0	2.2	<0.001	0.18	<0.05	1.4	<0.2	<0.2	36.6	<0.01	0.15	0.8
463476		1.6	300	0.7	1.9	<0.001	0.29	<0.05	1.1	<0.2	<0.2	36.0	<0.01	0.06	0.6
463477		3.6	430	0.7	1.3	<0.001	0.34	0.05	1.7	0.2	<0.2	47.3	<0.01	0.29	0.4
463478		1.7	300	1.2	2.0	<0.001	0.18	0.06	1.4	<0.2	0.2	45.0	<0.01	0.07	0.7
463479		1.5	290	1.1	1.8	<0.001	0.29	0.05	1.1	<0.2	0.2	44.6	<0.01	0.09	0.8
463480		1.6	310	1.1	1.7	<0.001	0.28	0.05	1.1	<0.2	0.2	45.6	<0.01	0.08	0.8
463481		1.7	280	1.1	1.5	<0.001	0.08	0.05	1.1	<0.2	0.2	39.6	<0.01	0.02	0.7
463482		1.7	300	0.7	1.5	<0.001	0.14	0.06	0.9	0.2	<0.2	33.4	<0.01	0.06	0.7
463483		1.6	310	0.5	1.4	<0.001	0.16	0.06	0.8	<0.2	<0.2	28.2	<0.01	0.04	0.5
463484		1.5	300	0.7	1.4	<0.001	0.25	0.08	1.1	<0.2	<0.2	37.9	<0.01	0.07	0.6
463485		1.6	320	0.5	1.9	<0.001	0.13	0.06	0.9	0.2	<0.2	29.7	<0.01	0.05	0.5
463486		1.6	320	0.6	1.7	<0.001	0.06	0.07	0.9	<0.2	<0.2	32.7	<0.01	0.03	0.5
463487		1.6	330	0.5	1.8	<0.001	0.25	0.06	1.0	<0.2	<0.2	30.7	<0.01	0.08	0.5
463488		1.7	320	0.5	2.0	<0.001	0.45	0.05	1.2	<0.2	0.2	34.2	<0.01	0.03	0.6
463489		2.0	350	0.3	2.2	<0.001	1.93	<0.05	1.1	<0.2	0.3	28.2	<0.01	0.14	0.6
463490		660	710	5.0	29.2	0.096	4.05	0.67	8.4	3.4	0.4	53.0	<0.01	0.22	0.9
463491		3.5	380	0.7	2.2	<0.001	1.64	0.08	1.2	<0.2	0.5	42.5	<0.01	0.18	0.6
463492		37.4	510	0.7	2.2	<0.001	0.25	<0.05	3.9	<0.2	<0.2	92.1	<0.01	0.04	0.8
463493		2.8	350	2.0	1.3	<0.001	0.06	0.06	0.9	0.4	<0.2	55.1	<0.01	0.01	0.5



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Page: 3 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 26 -FEB- 2017
 Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029935

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46	Mo-OG46	Au-AA23
		TI	U	V	W	Y	Zn	Zr	Cu	Mo	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001	0.005
463454		<0.02	0.39	5	<0.05	5.44	327	<0.5			
463455		0.02	0.31	3	<0.05	3.46	1640	<0.5			
463456		<0.02	0.32	2	<0.05	4.77	108	<0.5			
463457		<0.02	0.32	3	<0.05	3.47	11	<0.5			
463458		<0.02	0.66	2	<0.05	4.46	10	<0.5			
463459		<0.02	0.71	2	<0.05	3.44	13	<0.5			
463460		<0.02	0.96	2	<0.05	3.54	8	<0.5			
463461		<0.02	1.14	2	<0.05	3.19	160	<0.5			
463462		0.02	0.70	2	<0.05	4.22	1670	<0.5			
463463		0.02	0.39	2	0.06	4.95	742	<0.5	0.186		
463464		<0.02	0.28	2	0.05	2.76	803	<0.5			
463465		0.02	0.40	2	0.09	4.26	545	<0.5			
463466		<0.02	0.25	2	<0.05	2.99	379	<0.5			
463467		<0.02	1.12	2	<0.05	4.05	168	<0.5			
463468		<0.02	1.00	2	<0.05	4.99	570	<0.5			
463469		<0.02	1.03	3	<0.05	5.05	115	<0.5			
463470		0.06	0.32	65	0.72	8.17	45	8.6			
463471		0.02	0.46	5	<0.05	5.28	42	<0.5			
463472		0.02	0.58	4	<0.05	6.26	74	<0.5			
463473		<0.02	0.33	4	<0.05	4.10	78	<0.5			
463474		<0.02	0.72	5	<0.05	4.95	349	<0.5			
463475		<0.02	0.32	5	0.06	5.43	1580	<0.5			
463476		<0.02	0.24	5	<0.05	4.69	973	<0.5			
463477		<0.02	0.14	15	0.19	3.42	921	<0.5			
463478		<0.02	0.36	5	<0.05	5.96	906	<0.5			
463479		<0.02	0.33	5	<0.05	6.70	113	<0.5			
463480		<0.02	0.38	5	<0.05	6.99	111	<0.5			
463481		<0.02	0.19	5	<0.05	6.96	66	<0.5			
463482		<0.02	0.25	4	<0.05	7.88	33	<0.5			
463483		<0.02	0.54	4	<0.05	5.94	127	<0.5			
463484		<0.02	0.34	5	<0.05	7.17	62	<0.5			
463485		<0.02	0.35	5	<0.05	7.53	231	<0.5			
463486		<0.02	0.42	5	<0.05	4.71	86	<0.5			
463487		<0.02	0.54	5	<0.05	4.80	383	<0.5			
463488		<0.02	0.27	5	0.07	3.47	62	<0.5			
463489		<0.02	0.19	8	1.22	2.82	96	<0.5			
463490		0.61	0.28	75	9.83	4.97	62	1.2			
463491		<0.02	0.41	12	0.09	5.35	319	<0.5			
463492		<0.02	0.72	21	<0.05	7.11	136	<0.5			
463493		<0.02	0.10	6	<0.05	4.78	180	<0.5			



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Page: 4 - A
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 26-FEB-2017
 Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029935

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
463494		3.53	0.03	0.70	0.1	<0.2	<10	60	0.08	0.01	0.38	0.01	5.62	3.7	4	0.05
463495		3.69	0.06	0.68	<0.1	<0.2	<10	60	0.09	0.02	0.43	0.01	4.11	3.3	4	<0.05
463496		7.36	0.07	0.86	0.2	<0.2	<10	50	0.08	0.02	0.57	0.24	4.53	3.6	4	0.08
463497		7.70	0.03	0.90	0.2	<0.2	<10	70	0.11	0.01	0.77	0.11	5.22	3.8	7	0.08
463498		7.80	0.10	0.97	0.4	<0.2	<10	70	0.12	0.11	1.33	1.26	6.42	4.2	6	0.17
463499		7.48	0.02	0.97	1.6	<0.2	<10	40	0.13	0.02	0.94	0.11	5.83	3.8	6	0.27
463500		<0.02	0.02	0.96	1.5	<0.2	<10	40	0.12	0.02	0.93	0.08	5.99	3.7	8	0.24
463501		7.94	0.01	0.84	0.6	<0.2	<10	50	0.09	0.01	0.54	0.02	4.17	3.8	6	0.15
463502		6.68	0.01	0.83	0.3	<0.2	<10	100	0.08	0.06	1.27	0.03	5.55	12.2	7	0.35
463503		1.89	0.02	1.09	0.4	<0.2	<10	60	0.07	0.03	1.16	0.27	8.96	4.8	7	0.25
463504		5.80	0.02	1.20	2.4	<0.2	<10	110	0.15	0.07	2.02	0.21	9.81	5.9	6	0.40
463505		7.27	0.04	1.26	0.2	<0.2	<10	60	0.15	0.03	2.16	0.10	13.15	6.9	67	0.25
459986		6.89	0.13	1.61	0.6	<0.2	<10	60	0.08	0.05	0.81	0.33	6.29	9.1	12	0.07
459987		6.37	0.23	1.76	2.4	<0.2	<10	30	0.10	0.01	0.38	0.05	6.50	11.6	5	0.06
459988		6.63	0.37	1.59	1.3	<0.2	<10	30	0.09	0.01	0.39	0.06	6.37	11.7	6	0.09
459989		7.62	0.26	1.75	4.3	<0.2	<10	60	0.11	0.02	0.46	1.98	8.52	12.8	7	0.08
459990		0.04	0.44	2.08	15.1	<0.2	<10	90	0.33	0.44	1.14	0.19	9.53	50.7	259	1.24
459991		6.94	0.15	1.67	0.8	<0.2	<10	50	0.12	0.05	0.38	2.46	7.67	11.6	5	0.11
459992		7.68	0.05	1.48	0.9	<0.2	<10	40	0.08	0.01	0.76	0.15	7.00	10.2	6	<0.05
459993		7.35	0.11	1.84	0.8	<0.2	<10	60	0.10	0.06	0.54	1.45	6.15	10.6	5	0.06



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Page: 4 - B
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 26-FEB-2017
 Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029935

Sample Description	Method Analyte Units LOR	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01	ME-MS41 Nb ppm 0.05
463494		28.0	0.76	2.26	<0.05	0.02	<0.01	0.005	0.08	1.8	3.0	0.42	289	0.58	0.04	<0.05
463495		60.8	0.76	2.18	<0.05	<0.02	<0.01	<0.005	0.08	1.4	3.1	0.42	382	1.05	0.05	<0.05
463496		62.3	1.18	2.70	<0.05	<0.02	0.01	0.021	0.08	1.6	4.0	0.55	588	0.77	0.04	<0.05
463497		13.7	1.43	2.70	<0.05	<0.02	0.01	0.022	0.08	2.0	4.3	0.51	716	1.73	0.05	<0.05
463498		92.6	2.03	3.04	<0.05	<0.02	0.02	0.092	0.09	2.7	3.5	0.39	907	1.06	0.05	<0.05
463499		25.2	1.78	3.35	<0.05	<0.02	0.01	0.028	0.06	2.2	3.5	0.44	642	0.58	0.05	<0.05
463500		23.4	1.77	3.30	<0.05	<0.02	0.01	0.027	0.06	2.3	3.3	0.42	630	0.70	0.06	<0.05
463501		4.6	1.19	2.41	<0.05	0.02	0.01	0.006	0.04	1.4	3.4	0.43	408	0.59	0.05	<0.05
463502		3.8	1.86	2.76	<0.05	0.02	0.01	0.029	0.04	2.0	3.9	0.42	561	0.58	0.06	<0.05
463503		3.1	1.63	3.85	<0.05	0.02	0.01	0.029	0.04	3.2	4.4	0.53	633	0.62	0.06	<0.05
463504		12.2	1.74	4.04	<0.05	0.03	0.01	0.089	0.05	3.7	5.2	0.55	812	0.86	0.06	<0.05
463505		14.4	1.76	4.19	<0.05	0.02	0.01	0.021	0.06	4.6	5.6	0.91	869	0.70	0.05	<0.05
459986		63.2	3.34	4.85	<0.05	<0.02	<0.01	0.065	0.09	2.4	9.5	1.10	2020	90.0	0.05	<0.05
459987		101.0	2.50	4.79	<0.05	0.02	<0.01	0.013	0.05	2.4	9.9	1.18	1380	2.58	0.05	<0.05
459988		92.3	2.22	3.87	<0.05	0.03	0.01	0.010	0.05	2.5	8.5	1.12	1130	0.93	0.04	<0.05
459989		96.4	2.86	4.40	<0.05	0.04	0.02	0.092	0.09	3.2	8.5	1.13	1410	2.22	0.04	<0.05
459990		809	5.36	5.72	0.07	0.03	0.04	0.023	0.67	3.9	4.2	5.37	455	91.8	0.10	<0.05
459991		58.2	2.58	4.55	<0.05	0.02	0.01	0.078	0.08	2.8	8.9	1.08	1420	6.40	0.04	<0.05
459992		34.8	2.01	3.79	<0.05	0.05	<0.01	0.012	0.05	2.4	7.8	1.07	1080	1.19	0.04	<0.05
459993		88.5	3.04	4.91	<0.05	0.03	0.01	0.142	0.10	2.4	9.4	1.15	1160	1.82	0.04	<0.05



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Page: 4 - C
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 26-FEB-2017
 Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029935

Sample Description	Method Analyte Units LOR	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2	ME-MS41 Ti % 0.005
463494		2.0	360	0.8	1.0	<0.001	0.02	0.05	0.7	0.3	<0.2	31.7	<0.01	<0.01	0.4	0.006
463495		1.7	340	0.5	1.0	<0.001	0.02	0.05	0.6	<0.2	<0.2	31.2	<0.01	<0.01	0.4	0.011
463496		1.8	360	0.7	1.1	<0.001	0.14	<0.05	0.8	0.3	<0.2	33.6	<0.01	0.03	0.4	<0.005
463497		2.2	340	0.7	1.1	<0.001	0.07	0.05	1.0	0.3	<0.2	38.6	<0.01	0.01	0.6	<0.005
463498		2.0	350	1.0	1.4	<0.001	0.30	0.05	1.6	0.2	0.2	63.9	<0.01	0.03	0.5	0.006
463499		2.2	340	1.0	0.9	<0.001	0.17	0.07	1.6	<0.2	0.2	67.0	<0.01	0.01	0.4	<0.005
463500		2.2	330	1.0	0.9	<0.001	0.16	0.08	1.6	0.3	0.2	66.5	<0.01	0.02	0.4	<0.005
463501		2.0	350	0.6	0.6	<0.001	0.06	0.08	0.9	<0.2	<0.2	50.0	<0.01	0.01	0.3	0.010
463502		2.7	370	1.3	0.6	<0.001	0.98	0.09	1.6	0.3	<0.2	90.4	<0.01	0.04	0.3	<0.005
463503		2.4	380	1.6	0.6	<0.001	0.06	0.09	2.4	0.3	0.2	123.5	<0.01	0.01	0.8	<0.005
463504		2.3	360	2.0	0.9	0.001	0.13	0.14	2.8	0.4	0.3	176.0	<0.01	0.04	0.5	<0.005
463505		21.1	510	1.4	1.2	<0.001	0.05	0.05	4.5	0.4	0.2	110.5	<0.01	0.01	0.5	<0.005
459986		6.2	390	0.9	1.4	0.016	0.15	<0.05	3.0	0.3	<0.2	31.5	<0.01	0.06	0.7	<0.005
459987		6.4	450	1.3	0.8	<0.001	0.12	0.09	2.4	0.3	<0.2	44.5	<0.01	0.01	0.7	<0.005
459988		6.2	470	1.4	0.8	<0.001	0.11	0.10	1.9	0.3	<0.2	41.1	<0.01	0.01	0.8	0.007
459989		6.5	470	1.0	1.3	0.001	0.44	0.12	1.6	0.4	0.2	35.0	<0.01	0.02	0.9	0.020
459990		618	670	4.3	26.9	0.094	3.83	0.72	8.2	3.4	0.3	49.6	<0.01	0.17	0.9	0.057
459991		5.7	510	1.6	1.2	0.001	0.27	0.09	1.9	0.2	0.2	44.9	<0.01	0.05	0.7	0.005
459992		5.2	490	0.6	0.7	<0.001	0.12	0.11	1.4	0.4	0.2	40.9	<0.01	0.03	0.7	0.039
459993		5.5	490	0.6	1.4	<0.001	0.32	0.07	1.4	<0.2	<0.2	33.3	<0.01	0.07	0.8	0.012



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Page: 4 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 26-FEB-2017
 Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029935

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46	Mo-OG46	Au-AA23
		Tl	U	V	W	Y	Zn	Zr	Cu	Mo	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001	0.005
463494		<0.02	0.11	5	<0.05	5.36	44	<0.5			
463495		<0.02	0.12	5	<0.05	4.60	49	<0.5			
463496		<0.02	0.10	6	<0.05	3.32	150	<0.5			
463497		<0.02	0.14	6	<0.05	4.42	151	<0.5			
463498		<0.02	0.25	7	0.07	4.90	616	<0.5			
463499		<0.02	0.17	9	<0.05	4.89	107	<0.5			
463500		<0.02	0.17	9	<0.05	4.65	99	<0.5			
463501		<0.02	0.15	6	<0.05	3.79	62	<0.5			
463502		<0.02	0.14	9	<0.05	3.92	82	<0.5			
463503		<0.02	0.23	14	<0.05	5.36	142	<0.5			
463504		<0.02	0.25	14	<0.05	7.71	132	<0.5			
463505		<0.02	0.15	24	<0.05	10.05	96	<0.5			
459986		<0.02	0.18	22	0.24	7.29	329	<0.5			
459987		<0.02	0.21	26	0.05	5.55	102	<0.5			
459988		<0.02	0.19	26	0.23	4.26	80	<0.5			
459989		<0.02	0.23	20	<0.05	6.10	1010	0.5			
459990		0.59	0.26	70	10.45	4.70	61	1.2			
459991		<0.02	0.17	26	0.11	5.68	526	<0.5			
459992		<0.02	0.20	19	<0.05	5.89	226	0.6			
459993		<0.02	0.15	21	<0.05	3.53	857	<0.5			



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 26-FEB-2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029935

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
 ME-MS41

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.			
	CRU - 31	CRU - QC	LOG - 21d	LOG - 22
	LOG - 23	PUL - 31	PUL - 31d	PUL - QC
	SPL - 21	SPL - 21d	WEI - 21	
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au - AA23	Cu - OG46	ME - MS41	ME - OG46
	Mo - OG46			



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Page: **1**
Total # Pages: **5 (A - D)**
Plus Appendix Pages
Finalized Date: **28-FEB-2017**
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CERTIFICATE KL17029938

Project: SGM2017-02

P.O. No.: S0218733

This report is for 158 Drill Core samples submitted to our lab in Kamloops, BC, Canada on 17-FEB-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Mo-OG46	Ore Grade Mo - Aqua Regia	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **GIBRALTAR MINES LTD.**
ATTN: ALS MINERALS

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 28-FEB-2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029938

Sample Description	Method Analyte Units LOR	WEI-21	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
		Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
459994		6.71	0.13	1.74	0.5	<0.2	<10	60	0.12	0.02	0.73	0.41	9.35	12.1	4	0.05
459995		2.22	0.11	1.64	0.4	<0.2	<10	40	0.13	0.02	0.38	0.04	10.55	11.2	4	0.08
459996		4.21	0.29	2.05	0.9	<0.2	<10	30	0.19	0.33	0.40	3.85	15.50	11.0	3	0.26
459997		2.93	2.21	2.51	0.4	<0.2	<10	40	0.10	2.97	0.13	1.01	16.55	11.6	3	0.10
459998		5.49	3.64	2.14	0.8	<0.2	<10	40	0.09	0.85	0.13	1.17	17.20	9.6	2	0.11
459999		<0.02	4.98	2.12	0.7	<0.2	<10	40	0.07	1.25	0.13	1.14	16.55	9.4	3	0.11
460000		1.10	0.05	0.28	<0.1	<0.2	<10	30	0.42	0.27	0.34	0.04	97.3	0.7	3	0.42
460001		5.15	0.93	1.80	1.5	<0.2	<10	30	0.07	0.56	0.20	1.24	17.60	20.8	3	0.16
460002		6.91	0.74	0.76	3.0	<0.2	<10	20	0.05	0.49	0.15	0.15	13.75	69.2	2	0.21
460003		4.08	0.21	0.34	3.3	<0.2	<10	30	0.05	0.65	0.05	0.10	9.40	119.5	4	0.06
460004		3.29	0.24	1.43	0.5	<0.2	<10	40	0.08	0.06	0.27	0.48	8.04	14.4	3	0.06
460005		7.39	0.36	1.42	0.4	<0.2	<10	40	0.08	0.04	0.33	0.08	7.23	11.4	5	0.05
460006		6.20	0.81	1.70	0.6	<0.2	<10	50	0.10	0.08	0.24	0.42	6.87	13.5	3	0.09
460007		7.18	7.44	1.55	0.5	<0.2	<10	50	0.08	0.08	0.24	2.23	5.01	11.2	4	0.07
460008		6.88	0.08	1.59	0.5	<0.2	<10	60	0.11	0.05	0.22	0.10	6.29	10.1	3	0.16
460009		6.68	0.93	1.63	0.2	<0.2	<10	50	0.08	0.08	0.21	0.20	10.15	12.2	4	0.09
460010		0.04	2.53	1.64	27.2	0.2	10	60	0.35	1.06	0.76	2.15	9.67	10.6	27	3.64
460011		7.23	0.77	1.29	2.4	<0.2	<10	40	0.07	0.51	0.19	0.29	6.15	29.9	4	0.07
460012		6.93	0.15	1.70	0.3	<0.2	<10	40	0.09	0.08	0.25	0.25	6.21	9.9	4	0.10
460013		8.00	3.94	1.06	1.1	<0.2	<10	40	<0.05	0.57	0.11	0.62	11.30	22.8	2	0.08
460014		6.52	3.61	1.50	1.2	<0.2	<10	40	0.06	1.13	0.15	0.96	11.05	18.9	3	0.09
460015		6.20	1.36	1.27	0.7	<0.2	<10	30	0.06	0.88	0.22	0.37	10.90	17.6	3	0.19
460016		7.30	0.77	1.74	0.3	<0.2	<10	40	0.06	0.66	0.29	0.13	10.20	12.7	4	0.11
460017		6.49	0.95	1.53	1.1	<0.2	<10	30	0.08	0.38	0.28	0.21	9.89	10.7	3	0.11
460018		7.14	0.06	1.73	0.4	<0.2	<10	30	0.10	0.06	0.51	1.24	4.84	11.5	4	0.07
460019		7.79	1.03	1.42	0.5	<0.2	<10	50	0.07	0.75	0.20	0.96	10.30	15.3	3	0.10
460020		<0.02	0.91	1.33	0.4	<0.2	<10	40	0.06	0.68	0.19	0.93	9.17	14.8	3	0.09
460021		8.06	0.50	1.09	0.5	<0.2	<10	40	0.08	0.36	0.19	0.18	10.40	17.1	3	0.10
460022		5.75	3.55	1.02	0.9	<0.2	<10	30	0.06	1.88	0.30	0.72	15.15	18.4	2	0.20
460023		3.19	0.09	1.74	0.3	<0.2	<10	50	0.11	0.07	0.80	0.16	6.66	10.7	4	0.05
460024		6.69	1.77	1.46	0.9	<0.2	<10	50	0.07	0.86	0.35	0.43	6.45	21.9	6	0.05
460025		3.22	38.4	0.50	3.0	1.2	<10	40	<0.05	13.40	0.06	6.12	4.39	96.0	6	0.05
460026		1.21	0.07	0.29	0.1	<0.2	<10	20	0.43	0.25	0.32	0.06	98.4	0.7	5	0.43
460027		4.67	0.41	1.46	1.2	<0.2	<10	40	0.09	0.32	0.29	0.38	11.70	10.8	6	0.06
460028		6.79	3.95	1.11	1.9	<0.2	<10	50	0.07	1.05	0.21	2.31	17.70	15.1	4	0.07
460029		7.02	0.07	1.48	0.6	<0.2	<10	50	0.09	0.08	2.65	0.46	14.85	8.3	6	0.09
460030		0.04	0.59	1.68	5.8	0.2	<10	100	0.21	0.12	0.84	0.14	9.18	10.1	31	0.43
460031		7.71	4.74	1.54	1.5	<0.2	<10	50	0.08	1.25	1.04	2.71	14.50	13.8	6	0.09
460032		7.68	4.18	1.75	1.8	<0.2	<10	60	0.10	0.84	1.13	1.48	11.80	16.9	5	0.12
460033		7.56	0.07	1.64	0.1	<0.2	<10	70	0.09	0.04	1.81	0.33	8.61	9.4	6	0.05



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Page: 2 - B
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 28-FEB-2017
 Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029938

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
459994		121.0	2.31	4.76	<0.05	0.05	<0.01	0.016	0.07	3.2	8.9	1.26	1110	0.62	0.04
459995		70.2	2.28	4.50	<0.05	0.04	<0.01	0.008	0.07	3.9	8.1	1.20	608	0.40	0.03
459996		301	3.92	6.06	0.05	0.02	0.04	0.361	0.08	5.4	10.8	1.08	3770	1.21	0.03
459997		5850	5.62	10.80	0.06	<0.02	0.01	0.207	0.13	6.4	13.7	1.52	1290	3.45	0.01
459998		>10000	5.59	8.40	0.06	<0.02	0.02	0.292	0.14	6.6	12.2	1.49	1180	4.06	0.02
459999		10000	5.53	8.24	0.06	<0.02	0.02	0.288	0.15	6.4	12.0	1.47	1150	4.01	0.02
460000		25.2	0.96	2.24	0.07	0.19	<0.01	0.017	0.15	54.6	6.7	0.09	262	1.36	0.05
460001		2120	6.32	5.42	0.05	<0.02	0.02	0.167	0.16	6.5	10.0	1.00	2200	10.35	0.02
460002		1985	8.31	2.32	<0.05	0.02	0.01	0.057	0.14	5.1	4.1	0.42	526	7.35	0.02
460003		471	9.89	0.91	0.05	0.02	<0.01	0.037	0.19	3.6	0.7	0.05	61	6.80	0.02
460004		564	2.88	3.56	<0.05	0.02	0.01	0.045	0.12	3.1	9.6	0.98	712	0.67	0.03
460005		653	2.30	3.84	<0.05	0.02	<0.01	0.025	0.09	2.8	9.1	1.01	763	0.75	0.03
460006		1350	3.40	4.87	<0.05	<0.02	0.01	0.071	0.13	2.6	11.1	1.17	1090	0.77	0.03
460007		9320	3.30	4.41	<0.05	<0.02	0.02	0.266	0.12	1.9	9.4	1.06	1160	4.28	0.03
460008		75.7	2.41	4.13	0.21	<0.02	<0.01	0.012	0.11	2.3	10.9	1.02	1320	4.82	0.04
460009		1440	3.05	4.60	0.19	<0.02	<0.01	0.034	0.11	3.8	11.4	1.08	1340	0.59	0.04
460010		2380	4.31	4.82	0.20	0.03	0.04	0.131	0.27	4.8	19.4	0.54	695	211	0.05
460011		924	6.84	3.48	0.16	<0.02	<0.01	0.082	0.12	2.4	8.2	0.80	956	37.7	0.03
460012		224	2.54	4.57	0.17	<0.02	0.01	0.036	0.09	2.4	11.2	1.07	1500	1.48	0.03
460013		7490	6.56	3.37	0.17	<0.02	0.02	0.163	0.16	4.2	6.7	0.63	630	14.35	0.01
460014		7250	6.47	4.21	0.15	<0.02	0.03	0.234	0.16	4.3	9.1	0.93	1120	1.51	0.02
460015		2890	6.23	3.83	0.17	<0.02	0.02	0.168	0.11	4.1	7.7	0.82	1250	1.16	0.03
460016		2110	3.25	5.06	0.15	<0.02	<0.01	0.098	0.10	3.8	10.5	1.27	1440	0.51	0.03
460017		2210	2.80	4.25	0.12	<0.02	<0.01	0.128	0.09	3.9	10.1	1.08	1180	0.53	0.03
460018		134.5	2.30	4.51	0.11	<0.02	0.01	0.039	0.07	2.0	11.4	1.28	1240	0.50	0.03
460019		3660	4.89	3.54	0.12	<0.02	0.02	0.157	0.17	4.1	8.3	0.93	890	0.93	0.03
460020		3230	4.69	3.39	0.12	<0.02	0.02	0.140	0.15	3.6	7.9	0.90	844	0.94	0.02
460021		2650	5.16	2.80	0.12	<0.02	<0.01	0.082	0.15	4.0	6.8	0.68	658	2.30	0.02
460022		8380	6.67	2.81	0.13	<0.02	0.02	0.397	0.17	5.9	5.8	0.60	1330	0.83	0.02
460023		122.5	2.31	4.44	0.10	0.02	<0.01	0.016	0.09	2.7	10.1	1.19	1280	0.46	0.03
460024		1990	4.35	3.77	0.10	0.02	<0.01	0.097	0.11	2.4	7.9	1.01	900	1.49	0.04
460025		>10000	20.8	1.42	0.14	<0.02	0.07	2.18	0.17	1.7	1.1	0.14	195	4.15	0.02
460026		34.9	1.12	2.10	0.13	0.19	<0.01	0.020	0.15	54.5	6.3	0.08	260	1.35	0.05
460027		566	3.09	3.85	0.10	0.03	0.01	0.048	0.13	4.5	9.9	0.97	928	0.36	0.03
460028		4320	6.83	3.00	0.11	<0.02	0.02	0.310	0.19	7.1	5.0	0.57	1620	2.12	0.02
460029		83.8	2.77	4.31	0.10	0.03	<0.01	0.024	0.08	5.5	8.0	0.96	1620	0.79	0.04
460030		4500	3.59	5.52	0.15	0.23	0.03	0.051	0.13	4.3	10.6	0.77	436	195.0	0.09
460031		4970	5.03	4.97	0.11	<0.02	0.02	0.429	0.16	5.4	6.7	0.92	1450	1.48	0.02
460032		3860	5.03	4.96	0.11	<0.02	0.01	0.256	0.17	4.5	6.4	0.99	1680	1.55	0.03
460033		42.1	2.57	4.41	0.10	0.02	<0.01	0.012	0.09	3.0	7.0	1.04	1290	7.06	0.05



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Page: 2 - C
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 28-FEB-2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029938

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
459994		5.8	550	0.7	1.1	<0.001	0.14	0.09	1.5	0.2	0.2	42.6	<0.01	0.05	1.0
459995		5.6	540	1.2	1.1	<0.001	0.03	0.13	1.6	0.2	0.2	43.9	<0.01	0.01	1.1
459996		4.9	500	2.4	1.3	<0.001	0.53	0.07	3.6	0.7	0.4	44.1	<0.01	0.19	0.8
459997		4.9	470	0.6	1.8	0.001	1.98	<0.05	1.6	0.2	0.3	9.1	<0.01	3.33	1.8
459998		5.1	480	0.6	1.9	0.001	3.15	0.06	1.4	0.5	0.7	8.6	<0.01	1.10	1.3
459999		5.1	470	0.6	2.0	0.001	3.13	0.07	1.4	0.2	0.7	8.3	<0.01	2.01	1.3
460000		0.7	120	5.7	9.0	<0.001	0.02	<0.05	0.8	0.4	0.6	12.6	<0.01	<0.01	29.1
460001		5.1	560	1.3	2.2	0.003	3.92	0.06	2.2	1.1	0.3	14.6	<0.01	0.48	1.4
460002		5.7	350	1.6	1.9	0.002	9.13	0.09	0.9	1.6	0.2	15.3	<0.01	0.68	1.2
460003		5.5	220	0.8	2.3	0.001	>10.0	<0.05	0.5	3.0	0.2	3.1	<0.01	0.63	1.3
460004		5.0	450	1.0	1.7	<0.001	1.38	0.07	1.2	0.4	0.2	24.1	<0.01	0.09	1.4
460005		4.9	530	1.3	1.4	<0.001	0.63	0.08	1.5	0.4	0.2	32.1	<0.01	0.08	1.0
460006		5.9	430	1.0	2.0	<0.001	1.36	0.06	1.4	0.3	0.2	22.8	<0.01	0.20	0.9
460007		4.9	450	0.9	1.7	<0.001	1.47	0.06	1.2	0.3	0.4	22.2	<0.01	0.39	0.7
460008		4.6	430	1.2	1.8	0.002	0.15	0.15	1.8	0.4	<0.2	22.6	<0.01	0.03	0.7
460009		5.1	450	1.1	1.8	<0.001	0.73	0.13	2.3	0.5	0.2	19.7	<0.01	0.10	0.7
460010		20.4	670	71.5	14.6	0.213	2.08	1.61	2.6	4.2	0.6	52.6	<0.01	0.74	3.5
460011		5.8	390	1.3	1.9	0.006	6.26	0.14	1.4	1.6	0.2	18.2	<0.01	0.54	0.6
460012		5.4	450	0.9	1.5	<0.001	0.22	0.14	2.1	0.3	<0.2	24.2	<0.01	0.05	0.7
460013		4.5	440	0.4	2.4	0.002	6.32	0.12	1.1	1.5	0.4	6.5	<0.01	0.54	1.0
460014		4.5	470	1.1	2.2	<0.001	5.06	0.13	1.4	1.0	0.4	10.9	<0.01	1.08	1.0
460015		5.0	490	1.4	1.8	<0.001	5.05	0.21	2.1	1.4	0.2	20.4	<0.01	0.77	0.8
460016		5.6	500	1.6	1.6	0.001	1.08	0.17	2.1	0.3	0.2	28.3	<0.01	0.54	0.9
460017		5.0	440	1.0	1.5	<0.001	1.01	0.17	1.9	0.2	0.2	31.6	<0.01	0.34	1.4
460018		5.4	510	0.9	1.2	<0.001	0.24	0.16	1.4	0.2	<0.2	42.2	<0.01	0.07	0.8
460019		5.4	530	1.1	2.4	<0.001	3.67	0.13	1.3	0.7	0.3	15.5	<0.01	0.85	0.9
460020		5.1	510	1.0	2.2	<0.001	3.55	0.13	1.2	0.6	0.3	14.3	<0.01	0.77	1.0
460021		4.7	450	0.8	2.2	0.001	4.40	0.13	1.0	1.0	0.2	16.0	<0.01	0.45	0.7
460022		4.9	530	1.4	2.7	<0.001	6.35	0.12	1.5	1.0	0.5	13.1	<0.01	1.42	1.2
460023		5.1	530	1.5	1.4	<0.001	0.16	0.14	1.5	0.3	<0.2	40.5	<0.01	0.07	1.0
460024		5.0	530	1.5	1.8	<0.001	2.60	0.14	1.2	0.6	0.3	25.6	<0.01	0.84	0.8
460025		7.8	230	2.8	2.6	<0.001	>10.0	0.16	0.4	4.9	2.9	4.8	<0.01	20.5	0.5
460026		0.4	110	5.4	9.1	<0.001	0.04	0.09	0.7	0.5	0.6	13.3	<0.01	0.03	26.9
460027		5.2	490	1.8	2.0	<0.001	1.29	0.14	1.4	0.2	0.2	29.5	<0.01	0.21	1.0
460028		4.6	450	1.6	2.8	<0.001	5.53	0.12	1.9	0.9	0.4	13.0	<0.01	1.10	1.1
460029		4.5	430	1.7	1.4	<0.001	0.18	0.16	2.9	0.4	0.2	96.1	<0.01	0.03	0.8
460030		30.3	550	3.5	5.2	0.099	0.62	0.88	5.4	1.0	1.5	42.3	<0.01	0.07	0.9
460031		5.0	540	1.1	2.5	<0.001	2.96	0.11	2.2	0.4	0.5	39.3	<0.01	1.56	0.5
460032		5.0	530	0.9	2.7	<0.001	2.61	0.12	2.1	0.4	0.4	41.3	<0.01	0.56	0.4
460033		4.8	520	0.5	1.5	<0.001	0.18	0.11	2.0	0.2	<0.2	66.6	<0.01	0.04	0.3



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Page: 2 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 28-FEB-2017
 Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029938

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
459994		<0.02	0.22	25	<0.05	5.88	400	0.5			
459995		<0.02	0.32	32	0.06	5.24	113	<0.5			
459996		<0.02	0.35	29	0.14	15.25	1740	<0.5			
459997		<0.02	0.31	19	0.13	5.94	627	<0.5	0.577		
459998		<0.02	1.92	16	0.22	6.43	558	<0.5	0.977		
459999		0.02	2.03	16	0.20	6.25	538	<0.5	1.005		
460000		0.05	3.43	8	0.23	14.10	20	5.1			
460001		<0.02	0.98	16	0.21	8.84	779	<0.5	0.207		
460002		<0.02	2.72	8	0.25	5.55	88	<0.5	0.198		
460003		<0.02	0.66	5	0.16	3.40	16	<0.5			
460004		<0.02	0.45	18	<0.05	4.46	339	<0.5			
460005		<0.02	0.62	17	<0.05	5.85	111	<0.5			
460006		<0.02	0.31	18	0.06	4.09	281	<0.5			
460007		<0.02	0.29	17	0.08	3.79	488	<0.5	0.888		
460008		<0.02	0.30	21	0.14	5.65	237	<0.5			
460009		<0.02	0.37	22	0.09	7.18	209	<0.5			
460010		0.27	0.63	30	1.38	4.68	405	0.9	0.258	0.028	0.325
460011		<0.02	0.27	16	0.10	4.73	214	<0.5			
460012		<0.02	0.23	21	0.07	5.05	432	<0.5			
460013		<0.02	1.37	10	0.23	8.58	262	<0.5	0.749		
460014		<0.02	1.10	16	0.14	7.70	385	<0.5	0.691		
460015		<0.02	0.77	20	0.20	8.72	329	<0.5	0.297		
460016		<0.02	0.43	25	0.08	7.68	247	<0.5	0.204		
460017		<0.02	0.39	22	0.13	6.67	278	<0.5	0.225		
460018		<0.02	0.38	23	0.05	3.97	689	<0.5			
460019		<0.02	0.70	18	0.21	6.07	565	<0.5	0.353		
460020		<0.02	0.62	16	0.18	5.50	537	<0.5	0.314		
460021		<0.02	0.75	13	0.14	6.13	168	<0.5	0.250		
460022		0.02	1.52	13	0.22	9.46	379	<0.5	0.787		
460023		<0.02	0.29	21	<0.05	4.48	297	<0.5			
460024		<0.02	0.36	18	<0.05	4.66	404	<0.5	0.184		
460025		0.02	2.69	6	0.08	2.78	1790	<0.5	5.61		0.847
460026		0.05	3.19	8	0.22	13.70	21	4.9			
460027		<0.02	0.49	17	<0.05	9.31	354	<0.5			
460028		<0.02	0.82	14	0.17	14.05	1080	<0.5	0.437		
460029		<0.02	0.44	30	<0.05	14.85	344	<0.5			
460030		0.06	0.29	61	0.44	7.84	45	6.7	0.466	0.024	0.569
460031		<0.02	0.74	18	0.12	9.71	1260	<0.5	0.487		
460032		<0.02	0.57	19	0.07	6.48	866	0.5	0.363		
460033		<0.02	0.18	22	<0.05	8.11	323	<0.5			



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Page: 3 - A
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 28-FEB-2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029938

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
460034		7.36	0.35	1.75	0.4	<0.2	<10	70	0.08	0.14	1.16	1.61	7.01	11.0	8	0.05
460035		7.67	0.05	1.52	0.3	<0.2	<10	60	0.09	0.05	1.78	0.38	9.87	10.0	6	<0.05
460036		8.33	5.30	1.50	0.9	<0.2	<10	70	0.08	0.91	0.73	1.09	6.04	19.0	7	0.05
460037		7.49	0.03	2.00	0.3	<0.2	<10	40	0.09	0.04	1.91	0.04	5.25	14.1	5	<0.05
460038		7.14	0.61	1.53	0.2	<0.2	<10	80	0.08	0.10	1.10	0.14	7.71	8.9	6	<0.05
460039		3.46	0.03	1.54	0.2	<0.2	<10	70	0.09	0.04	1.49	0.04	8.00	9.7	7	<0.05
460040		<0.02	0.02	1.57	0.1	<0.2	<10	70	0.07	0.03	1.52	0.04	7.91	10.0	8	<0.05
460041		3.55	0.70	1.45	0.1	<0.2	<10	70	0.08	0.08	1.16	0.11	7.31	10.5	5	<0.05
460042		7.24	0.07	1.37	0.2	<0.2	<10	80	0.07	0.03	1.24	0.32	6.30	10.6	7	<0.05
460043		7.50	2.87	1.44	0.4	<0.2	<10	60	0.07	3.66	0.65	1.14	7.46	11.3	6	<0.05
460044		3.78	0.36	1.35	0.4	<0.2	<10	50	0.08	0.42	0.61	0.46	5.61	9.3	4	<0.05
460045		4.00	2.55	1.19	0.8	<0.2	<10	60	0.08	0.39	0.82	0.51	6.05	10.0	5	<0.05
460046		8.14	8.28	0.80	0.7	0.2	<10	50	0.06	1.29	0.67	1.31	4.43	17.6	7	0.06
460047		6.98	0.09	1.43	0.4	<0.2	<10	40	0.07	0.11	0.83	0.04	6.15	10.9	6	<0.05
460048		7.52	0.88	1.49	0.4	<0.2	<10	50	0.08	0.47	0.48	0.18	6.92	11.4	4	<0.05
460049		8.39	2.86	0.51	1.5	<0.2	<10	40	<0.05	3.67	0.12	0.28	6.17	16.7	5	0.07
460050		0.04	0.12	1.48	4.9	<0.2	10	110	0.23	0.06	1.08	0.13	10.50	8.9	35	0.36
460051		7.29	0.61	0.98	0.3	<0.2	<10	50	0.09	0.67	0.46	0.40	4.40	7.6	5	0.05
460052		7.22	0.77	1.10	1.2	<0.2	<10	50	0.08	2.30	0.37	0.14	4.34	17.2	5	0.06
460053		8.09	1.87	1.54	0.5	0.2	<10	70	0.10	0.70	0.39	2.68	5.47	14.0	6	0.07
460054		7.51	0.03	1.10	0.3	<0.2	<10	50	0.08	0.06	1.16	0.04	3.52	5.2	5	<0.05
460055		7.18	0.20	1.13	0.2	<0.2	<10	50	0.06	0.05	1.23	0.19	3.06	5.3	6	<0.05
460056		6.72	0.01	1.32	0.2	<0.2	<10	60	0.08	0.04	1.59	0.09	4.66	6.3	4	<0.05
460057		7.18	0.02	1.33	0.2	<0.2	<10	50	0.08	0.16	1.62	0.08	10.15	4.8	5	0.05
460058		6.51	0.19	1.35	0.2	<0.2	<10	50	0.08	0.21	0.66	0.25	10.90	6.5	5	0.05
460059		6.35	0.65	1.11	0.2	<0.2	<10	60	0.07	0.23	0.91	0.29	12.50	23.3	4	0.07
460060		<0.02	0.61	1.11	0.3	<0.2	<10	60	0.08	0.22	0.90	0.28	13.85	24.0	6	0.08
460061		7.54	0.03	1.16	0.2	<0.2	<10	60	0.08	0.03	0.83	0.89	7.11	6.1	5	<0.05
460062		7.57	0.16	1.27	0.2	<0.2	<10	90	0.08	0.16	1.49	1.12	10.35	4.6	5	0.05
460063		7.01	1.05	0.50	0.3	<0.2	<10	70	0.06	0.70	0.70	1.65	11.20	5.3	5	0.06
460064		6.55	0.11	0.72	<0.1	<0.2	<10	70	0.08	0.11	0.93	1.32	3.99	4.2	5	0.06
460065		3.31	0.09	0.74	0.2	<0.2	<10	100	0.08	0.08	1.53	3.34	5.08	3.9	3	0.08
460066		3.46	0.06	0.74	0.1	<0.2	<10	80	0.09	0.02	1.52	0.65	5.45	4.6	4	0.06
460067		4.75	0.80	0.43	0.4	<0.2	<10	50	0.06	0.40	0.24	0.96	11.30	17.8	5	0.07
460068		2.29	0.09	0.86	0.1	<0.2	<10	70	0.10	0.04	0.62	0.04	8.26	4.3	5	<0.05
460069		7.12	0.17	1.22	0.3	<0.2	<10	110	0.18	0.13	1.45	0.14	7.80	8.6	116	0.12
460070		0.06	0.78	2.07	18.0	0.3	<10	400	0.45	1.62	1.01	0.09	64.3	15.0	92	10.35
460071		6.77	0.37	0.62	0.1	<0.2	<10	90	0.10	0.23	0.62	0.57	5.45	3.9	6	<0.05
460072		6.81	0.69	0.53	0.2	<0.2	<10	60	0.08	0.34	0.66	0.13	6.56	10.0	4	0.05
460073		6.81	0.04	0.59	0.1	<0.2	<10	80	0.08	0.02	1.38	0.04	7.76	4.0	6	0.05



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Page: 3 - B
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 28-FEB-2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029938

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
460034		323	3.11	4.51	0.10	0.02	0.01	0.040	0.12	2.6	7.5	1.09	1520	0.60	0.03	<0.05
460035		27.6	2.39	4.22	0.11	0.03	<0.01	0.016	0.08	3.4	7.1	1.00	1300	0.64	0.04	<0.05
460036		6940	6.13	4.18	0.11	<0.02	0.01	0.327	0.19	2.3	5.1	0.87	1020	8.25	0.03	<0.05
460037		30.8	2.77	5.02	0.10	0.04	<0.01	0.006	0.06	1.9	9.6	1.56	1450	0.86	0.05	<0.05
460038		811	2.35	3.97	0.09	0.03	<0.01	0.029	0.12	2.6	6.4	1.01	1100	0.76	0.05	<0.05
460039		23.7	2.29	4.10	0.08	0.03	<0.01	0.005	0.09	2.6	7.4	1.05	1290	0.48	0.05	<0.05
460040		17.5	2.31	4.13	0.09	0.03	<0.01	0.006	0.09	2.6	7.3	1.08	1300	0.63	0.05	<0.05
460041		921	2.38	4.23	0.09	0.02	<0.01	0.031	0.09	2.5	6.8	0.97	931	0.50	0.05	<0.05
460042		87.1	2.09	3.84	0.09	0.03	<0.01	0.008	0.09	2.4	6.2	0.89	1160	0.53	0.05	<0.05
460043		5480	3.57	3.91	0.09	<0.02	0.01	0.250	0.14	2.8	5.7	0.92	1050	1.72	0.03	0.06
460044		769	2.42	4.07	<0.05	0.02	0.01	0.051	0.10	2.1	7.4	0.89	1060	2.66	0.03	<0.05
460045		7410	3.12	3.55	<0.05	0.02	0.01	0.465	0.12	2.1	6.4	0.82	1040	1.07	0.03	<0.05
460046		>10000	7.78	2.62	<0.05	0.02	0.03	0.643	0.18	1.6	3.5	0.48	665	3.28	0.02	<0.05
460047		243	2.19	3.75	<0.05	0.02	<0.01	0.012	0.07	2.1	7.6	1.07	922	0.60	0.04	<0.05
460048		3680	3.08	4.14	<0.05	0.02	<0.01	0.095	0.11	2.5	8.8	1.12	870	0.32	0.03	<0.05
460049		9810	8.73	1.56	<0.05	<0.02	0.01	0.179	0.18	2.3	1.7	0.18	214	1.55	0.01	<0.05
460050		54.1	2.96	5.04	0.09	0.27	0.02	0.018	0.10	4.7	8.9	0.74	470	5.68	0.08	0.16
460051		2050	2.28	2.89	<0.05	0.02	<0.01	0.094	0.12	1.6	5.1	0.59	723	0.47	0.04	<0.05
460052		2720	5.64	3.15	<0.05	<0.02	0.01	0.057	0.15	1.8	6.0	0.68	750	0.97	0.03	<0.05
460053		5760	5.14	4.00	<0.05	<0.02	0.03	0.441	0.18	2.2	8.4	0.85	1020	0.54	0.02	<0.05
460054		7.9	1.57	3.03	<0.05	<0.02	<0.01	0.005	0.07	1.4	4.8	0.68	852	0.32	0.06	<0.05
460055		412	2.13	3.29	<0.05	<0.02	0.01	0.032	0.07	1.3	5.1	0.73	915	2.11	0.05	<0.05
460056		4.6	2.00	3.92	0.05	<0.02	0.01	0.010	0.08	1.9	5.7	0.82	1060	1.10	0.07	<0.05
460057		8.5	2.28	4.08	0.05	<0.02	0.01	0.028	0.07	3.8	6.0	0.80	1300	2.05	0.06	<0.05
460058		478	2.73	4.27	0.05	<0.02	0.02	0.106	0.09	3.9	6.2	0.81	1370	0.98	0.06	<0.05
460059		1280	4.41	3.50	0.05	<0.02	0.01	0.066	0.12	5.4	5.2	0.62	1100	2.04	0.05	<0.05
460060		1360	4.46	3.44	0.05	<0.02	0.02	0.067	0.13	6.0	5.0	0.61	1120	1.74	0.05	<0.05
460061		31.6	1.93	3.29	<0.05	0.02	0.03	0.022	0.07	2.4	5.2	0.73	909	0.26	0.05	<0.05
460062		431	2.34	3.89	0.05	<0.02	0.04	0.150	0.10	3.8	6.6	0.78	1460	0.35	0.06	<0.05
460063		2560	2.70	1.45	<0.05	<0.02	0.05	0.157	0.17	4.8	1.6	0.17	621	0.44	0.04	<0.05
460064		133.5	1.49	2.11	<0.05	<0.02	0.03	0.094	0.14	1.5	2.8	0.38	1130	0.41	0.05	<0.05
460065		69.2	1.59	1.88	<0.05	<0.02	0.05	0.214	0.21	1.9	2.7	0.34	1500	0.34	0.04	<0.05
460066		62.6	1.40	2.25	<0.05	<0.02	0.02	0.064	0.17	1.9	3.1	0.42	997	0.97	0.05	<0.05
460067		2980	5.84	1.20	0.05	<0.02	0.05	0.142	0.22	4.2	1.0	0.11	236	4.79	0.03	<0.05
460068		181.5	1.54	2.66	<0.05	0.02	0.01	0.011	0.13	2.5	3.4	0.54	755	3.22	0.06	<0.05
460069		307	2.10	3.22	<0.05	<0.02	0.02	0.024	0.18	2.8	6.5	1.08	756	212	0.05	<0.05
460070		2790	4.29	8.27	0.17	0.40	0.02	0.199	1.16	32.0	30.7	1.27	410	94.4	0.17	1.15
460071		1040	1.38	1.89	<0.05	<0.02	0.03	0.126	0.15	1.7	2.2	0.30	578	0.40	0.06	<0.05
460072		1870	3.93	1.59	<0.05	0.02	0.02	0.085	0.16	2.4	2.0	0.26	612	0.64	0.04	0.05
460073		58.9	1.18	1.78	<0.05	0.02	0.01	0.009	0.15	2.7	1.9	0.29	794	0.45	0.05	<0.05



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Page: 3 - C
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 28-FEB-2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029938

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
															0.005
460034		5.0	500	0.3	2.0	<0.001	0.60	0.09	1.5	<0.2	0.2	43.4	<0.01	0.11	0.3
460035		4.5	480	0.4	1.2	<0.001	0.27	0.11	1.9	0.3	<0.2	59.1	<0.01	0.07	0.4
460036		4.8	620	0.4	3.0	<0.001	4.56	0.10	1.2	0.7	0.6	24.0	<0.01	1.38	0.2
460037		4.6	470	0.3	1.0	<0.001	0.13	0.11	2.2	0.2	<0.2	58.6	<0.01	0.03	0.2
460038		4.1	470	0.2	1.8	<0.001	0.33	0.09	1.4	<0.2	0.2	41.5	<0.01	0.10	0.3
460039		5.1	490	0.4	1.5	<0.001	0.14	0.08	1.5	0.3	<0.2	48.6	<0.01	0.03	0.3
460040		5.2	490	0.3	1.4	<0.001	0.14	0.08	1.5	<0.2	<0.2	49.0	<0.01	0.04	0.3
460041		4.4	430	0.3	1.5	<0.001	0.33	0.08	1.5	<0.2	<0.2	46.4	<0.01	0.17	0.4
460042		4.2	490	0.5	1.6	<0.001	0.21	0.08	1.3	<0.2	<0.2	48.9	<0.01	0.06	0.4
460043		4.6	560	0.4	2.2	<0.001	1.80	0.08	1.2	0.2	0.3	33.2	<0.01	2.72	0.4
460044		6.2	440	2.1	1.7	0.001	0.62	0.08	1.3	<0.2	<0.2	28.7	<0.01	0.36	0.3
460045		4.6	500	0.9	2.0	<0.001	1.64	<0.05	1.0	<0.2	<0.2	25.5	<0.01	0.47	0.2
460046		5.5	360	0.9	2.7	0.001	7.85	0.06	0.9	0.8	0.8	15.8	<0.01	1.47	0.3
460047		5.0	510	0.6	1.2	<0.001	0.33	0.06	1.3	<0.2	<0.2	33.1	<0.01	0.09	0.3
460048		5.6	460	0.6	1.7	<0.001	1.24	0.05	1.2	0.2	0.2	23.7	<0.01	0.40	0.3
460049		4.6	410	0.6	2.6	0.002	9.73	<0.05	0.5	0.8	0.7	4.8	<0.01	2.01	0.5
460050		32.1	560	3.9	3.8	0.001	0.07	0.54	4.8	0.5	1.0	44.5	<0.01	0.02	1.1
460051		3.7	390	0.5	1.9	<0.001	1.14	0.05	0.7	0.2	<0.2	20.8	<0.01	0.43	0.5
460052		3.7	360	0.5	2.2	<0.001	4.64	<0.05	0.8	0.7	0.2	15.0	<0.01	0.62	0.7
460053		5.3	490	0.7	2.5	<0.001	3.22	0.05	1.2	0.5	0.4	16.8	<0.01	0.72	0.7
460054		3.1	410	0.7	1.1	<0.001	0.01	0.10	0.9	<0.2	<0.2	44.0	<0.01	0.02	0.2
460055		3.3	420	0.3	1.0	0.001	0.32	0.05	0.9	<0.2	<0.2	32.2	<0.01	0.08	0.3
460056		3.3	460	0.5	1.2	<0.001	0.06	<0.05	1.2	<0.2	<0.2	47.1	<0.01	0.02	0.6
460057		3.3	490	1.0	1.1	0.001	0.06	0.06	1.7	0.2	<0.2	50.8	<0.01	0.03	0.5
460058		3.4	490	0.7	1.3	<0.001	0.38	0.05	1.7	0.3	<0.2	25.0	<0.01	0.13	0.3
460059		3.7	430	0.7	1.8	0.001	2.91	<0.05	1.4	0.6	<0.2	26.8	<0.01	0.57	0.4
460060		3.9	420	0.7	1.9	0.001	2.93	0.07	1.4	0.7	<0.2	26.4	<0.01	0.58	0.5
460061		3.4	420	0.4	1.0	<0.001	0.26	0.06	1.0	0.2	<0.2	32.9	<0.01	0.06	0.3
460062		3.0	430	0.9	1.5	<0.001	0.29	0.05	1.8	0.2	0.2	47.1	<0.01	0.08	0.3
460063		1.7	240	0.5	2.3	<0.001	2.21	<0.05	0.5	<0.2	0.2	17.9	<0.01	0.93	0.9
460064		2.1	250	0.4	2.0	<0.001	0.28	<0.05	0.6	<0.2	<0.2	25.2	<0.01	0.11	0.8
460065		1.6	290	0.4	2.9	<0.001	0.41	<0.05	0.5	<0.2	<0.2	32.4	<0.01	0.10	0.9
460066		2.3	290	0.4	2.5	<0.001	0.13	<0.05	0.7	<0.2	<0.2	35.1	<0.01	0.02	0.9
460067		2.7	340	<0.2	3.1	0.001	6.31	<0.05	0.4	1.0	0.4	7.2	<0.01	0.71	1.0
460068		2.5	320	0.5	2.0	0.001	0.09	0.05	1.0	<0.2	<0.2	27.0	<0.01	0.04	0.8
460069		33.3	500	0.6	3.2	0.065	0.28	0.05	3.4	0.3	<0.2	47.8	<0.01	0.19	0.8
460070		41.6	1080	8.8	128.0	0.003	0.39	0.51	7.4	3.2	4.6	59.5	0.01	0.10	19.1
460071		1.9	300	0.3	2.2	<0.001	0.41	0.05	0.6	<0.2	<0.2	24.1	<0.01	0.21	0.8
460072		1.7	260	0.5	2.5	<0.001	3.54	<0.05	0.6	0.5	0.2	16.4	<0.01	0.30	1.1
460073		1.9	320	0.7	2.3	<0.001	0.16	0.05	0.7	<0.2	<0.2	34.3	<0.01	0.03	1.2



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Page: 3 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 28-FEB-2017
 Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029938

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
460034		<0.02	0.19	18	<0.05	5.91	836	<0.5			
460035		<0.02	0.22	20	<0.05	8.79	248	<0.5			
460036		0.02	2.07	14	0.10	5.25	567	<0.5	0.675		
460037		<0.02	0.12	36	0.05	4.70	127	<0.5			
460038		<0.02	0.22	18	<0.05	5.78	164	<0.5			
460039		<0.02	0.14	19	<0.05	6.57	160	<0.5			
460040		<0.02	0.14	19	<0.05	6.54	166	<0.5			
460041		<0.02	0.14	18	<0.05	5.59	115	<0.5			
460042		<0.02	0.16	18	<0.05	5.17	262	<0.5			
460043		<0.02	0.50	17	0.12	6.19	609	<0.5	0.550		
460044		<0.02	0.19	14	0.16	4.02	452	<0.5			
460045		<0.02	0.69	13	0.13	4.74	307	<0.5	0.754		
460046		0.02	3.78	10	0.13	5.82	287	<0.5	2.67		0.254
460047		<0.02	0.15	17	<0.05	5.28	171	<0.5			
460048		<0.02	0.71	16	<0.05	5.37	205	<0.5	0.380		
460049		<0.02	2.49	4	0.16	3.31	81	<0.5	1.005		
460050		0.06	0.30	60	0.48	7.42	43	8.2			
460051		<0.02	0.23	9	0.06	3.28	286	<0.5	0.211		
460052		<0.02	0.29	9	0.12	2.49	162	<0.5	0.272		
460053		<0.02	2.13	15	0.16	3.88	1180	<0.5	0.577		0.141
460054		<0.02	0.07	11	<0.05	2.39	144	<0.5			
460055		<0.02	0.08	12	0.06	2.27	265	<0.5			
460056		<0.02	0.09	14	0.05	3.26	236	<0.5			
460057		<0.02	0.16	16	0.14	6.84	288	<0.5			
460058		<0.02	0.16	14	0.13	7.83	397	<0.5			
460059		<0.02	0.29	11	0.21	5.90	392	<0.5			
460060		<0.02	0.33	11	0.23	6.10	394	<0.5			
460061		<0.02	0.07	11	0.07	3.72	539	<0.5			
460062		<0.02	0.22	13	0.10	5.85	645	<0.5			
460063		<0.02	0.74	4	0.18	3.37	683	<0.5	0.250		
460064		<0.02	0.18	5	0.10	3.52	792	<0.5			
460065		0.02	0.31	4	0.31	3.42	1660	<0.5			
460066		<0.02	0.23	5	0.10	4.36	369	<0.5			
460067		0.02	1.96	3	0.31	5.50	449	<0.5	0.277		
460068		<0.02	0.26	9	0.07	9.20	97	<0.5			
460069		0.02	0.48	23	0.15	7.38	141	<0.5		0.021	
460070		0.69	4.48	118	2.27	17.00	83	10.6	0.255		0.244
460071		<0.02	0.38	4	0.07	5.11	333	<0.5			
460072		<0.02	0.50	3	0.07	4.76	106	<0.5	0.173		
460073		<0.02	0.38	4	<0.05	5.82	69	<0.5			



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Page: 4 - A
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 28-FEB-2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029938

Sample Description	Method Analyte Units LOR	WEI-21	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
		Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
460074		6.79	0.01	0.61	0.1	<0.2	<10	90	0.09	0.01	0.85	0.02	6.90	3.4	6	0.08
460075		7.25	0.05	0.64	0.3	<0.2	<10	100	0.12	0.04	0.83	0.29	6.15	4.3	6	0.28
460076		7.19	0.01	0.69	0.2	<0.2	<10	90	0.09	<0.01	0.79	0.06	7.34	3.7	8	0.11
460077		6.75	0.12	0.78	0.1	<0.2	<10	60	0.10	0.19	0.78	1.99	5.51	4.4	6	0.05
460078		6.97	0.29	0.69	0.2	<0.2	<10	60	0.10	0.14	0.61	0.24	4.33	4.4	5	0.05
460079		7.54	0.31	0.79	0.2	<0.2	<10	60	0.13	0.13	0.61	0.09	5.94	4.7	7	0.05
460080		<0.02	0.34	0.76	0.2	<0.2	<10	60	0.11	0.16	0.61	0.09	5.48	4.4	7	<0.05
460081		7.52	0.30	0.72	<0.1	<0.2	<10	80	0.13	0.70	1.01	0.37	7.72	4.2	5	0.24
460082		7.24	0.46	0.92	0.3	<0.2	<10	70	0.14	0.43	1.10	0.58	19.05	4.5	6	0.10
460083		8.54	3.83	0.34	2.2	<0.2	<10	60	0.08	0.86	0.71	2.43	14.25	4.1	6	0.08
460084		7.49	2.00	0.58	0.7	<0.2	<10	60	0.09	0.52	1.11	0.61	15.30	4.3	6	0.07
460085		6.95	1.46	0.51	0.6	<0.2	<10	50	0.14	0.46	0.75	0.55	14.35	6.1	7	0.09
460086		7.05	0.72	0.63	0.2	<0.2	<10	60	0.09	0.14	0.69	0.16	6.02	4.5	5	0.11
460087		8.10	0.14	0.39	0.4	<0.2	<10	50	0.06	0.11	0.53	0.04	12.85	16.9	6	0.09
460088		4.64	0.26	0.27	0.5	<0.2	<10	50	0.07	0.14	0.47	0.09	19.30	11.2	6	0.15
460089		6.07	0.24	0.36	0.2	<0.2	<10	60	0.07	0.12	0.72	0.08	12.40	7.4	4	0.09
460090		0.04	2.72	1.72	29.3	0.3	10	60	0.33	0.96	0.86	2.22	10.10	11.5	31	3.68
460091		7.56	0.17	0.32	0.9	<0.2	<10	40	0.08	0.39	0.07	0.04	15.30	19.4	6	0.08
460092		7.14	0.37	0.40	0.4	<0.2	<10	60	0.08	0.20	0.59	0.30	10.05	2.9	6	0.09
460093		2.71	0.07	0.48	0.1	<0.2	<10	70	0.09	0.06	0.89	0.04	14.20	2.0	4	0.28
460094		6.55	0.50	0.43	0.4	<0.2	<10	60	0.07	0.31	0.72	0.75	15.05	3.7	7	0.14
460095		7.22	0.38	0.41	0.5	<0.2	<10	60	0.06	0.11	0.73	0.71	16.55	4.6	8	0.09
460096		7.85	0.55	0.75	0.2	<0.2	<10	80	0.09	0.05	0.55	0.22	8.44	3.2	9	0.16
460097		5.80	0.47	0.80	0.1	<0.2	<10	60	0.08	0.05	0.80	0.68	8.25	2.8	6	0.16
460098		3.44	0.26	0.78	0.1	<0.2	<10	40	0.08	0.02	0.63	0.02	7.58	2.4	6	0.50
460099		2.87	0.04	0.68	0.3	<0.2	<10	40	0.11	0.02	2.37	0.08	9.54	3.6	13	0.22
460100		<0.02	0.04	0.69	0.4	<0.2	<10	40	0.11	0.02	2.46	0.09	10.65	3.8	16	0.22
460101		1.94	0.02	2.95	0.2	<0.2	<10	50	0.55	0.01	8.66	0.17	40.6	33.2	359	0.06
460102		3.10	0.01	0.67	0.1	<0.2	<10	80	0.10	0.01	1.25	0.01	9.61	3.9	7	0.13
460103		6.75	0.01	0.73	0.4	<0.2	<10	110	0.13	<0.01	0.99	0.01	8.01	3.1	11	0.72
460104		7.10	0.01	0.63	0.4	<0.2	<10	120	0.14	<0.01	0.95	0.02	6.80	4.2	9	0.47
460105		6.94	0.03	0.73	0.6	<0.2	<10	130	0.30	<0.01	2.10	0.02	8.42	5.1	33	0.66
460106		6.84	0.01	0.65	0.4	<0.2	<10	130	0.11	<0.01	0.73	<0.01	6.35	2.9	9	0.44
460107		7.66	0.01	0.65	0.2	<0.2	<10	130	0.10	<0.01	0.41	<0.01	4.79	3.0	9	0.23
460108		7.64	0.02	0.63	0.5	<0.2	<10	80	0.09	0.01	0.45	0.01	5.27	3.0	9	0.06
460109		7.25	0.06	0.74	0.3	<0.2	<10	60	0.09	0.03	0.57	0.22	5.83	3.0	9	<0.05
460110		0.07	0.76	2.09	19.9	0.3	<10	400	0.48	1.65	1.02	0.10	66.4	15.5	92	10.45
460111		7.65	0.01	0.73	0.5	<0.2	<10	80	0.08	0.01	0.69	<0.01	6.18	3.6	8	<0.05
460112		7.54	0.01	0.67	0.5	<0.2	<10	90	0.11	0.01	0.55	<0.01	7.37	3.1	10	0.24
460113		7.46	0.02	0.62	0.9	<0.2	<10	90	0.08	0.01	0.64	<0.01	8.12	3.1	10	0.11



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Page: 4 - B
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Plus Appendix Pages
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Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029938

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
460074		4.0	1.10	1.88	<0.05	<0.02	<0.01	<0.005	0.14	2.0	2.3	0.33	462	0.76	0.06
460075		38.5	1.25	2.09	<0.05	0.02	0.01	0.015	0.21	1.9	2.9	0.33	545	53.7	0.06
460076		2.0	1.16	2.25	<0.05	0.02	0.01	<0.005	0.14	2.2	2.9	0.41	479	0.48	0.06
460077		176.5	1.65	2.32	<0.05	<0.02	0.02	0.129	0.12	2.0	3.1	0.42	771	0.30	0.05
460078		614	1.67	2.29	<0.05	<0.02	0.01	0.037	0.11	1.7	2.9	0.36	658	0.54	0.06
460079		711	1.66	2.72	<0.05	<0.02	0.01	0.058	0.11	2.0	3.3	0.45	562	2.17	0.06
460080		757	1.64	2.46	<0.05	<0.02	0.01	0.057	0.10	1.8	2.9	0.43	556	1.99	0.06
460081		637	1.67	2.40	<0.05	<0.02	0.02	0.074	0.12	2.6	3.0	0.37	859	0.47	0.06
460082		937	3.24	3.27	0.05	<0.02	0.01	0.201	0.17	7.6	3.6	0.45	1890	4.32	0.04
460083		>10000	4.63	1.08	<0.05	<0.02	0.04	0.346	0.18	6.3	0.5	0.07	634	0.90	0.03
460084		5960	3.45	1.92	<0.05	<0.02	0.01	0.188	0.16	6.5	1.6	0.27	1080	2.57	0.04
460085		5360	4.51	1.61	<0.05	<0.02	0.02	0.381	0.18	6.0	1.3	0.17	1000	1.14	0.04
460086		4110	2.31	2.07	<0.05	<0.02	0.01	0.110	0.16	2.1	1.6	0.28	631	0.38	0.05
460087		304	4.93	1.22	<0.05	<0.02	<0.01	0.014	0.15	5.6	0.8	0.13	293	2.19	0.03
460088		528	3.81	0.77	<0.05	<0.02	0.01	0.022	0.17	8.3	0.3	0.02	366	0.61	0.04
460089		742	2.83	0.98	<0.05	<0.02	0.01	0.029	0.22	5.3	0.4	0.04	423	0.62	0.04
460090		2560	4.63	4.54	0.05	0.03	0.06	0.137	0.30	5.1	17.4	0.59	796	214	0.07
460091		530	8.43	0.87	0.05	<0.02	0.02	0.023	0.22	6.6	0.3	0.01	79	4.32	0.03
460092		1290	1.90	1.17	<0.05	<0.02	0.03	0.067	0.19	4.1	0.9	0.09	528	0.22	0.05
460093		64.5	1.08	1.52	<0.05	<0.02	0.01	0.022	0.09	6.2	1.7	0.20	822	0.40	0.06
460094		1090	2.60	1.25	<0.05	<0.02	0.05	0.142	0.18	6.7	0.9	0.11	654	0.66	0.04
460095		870	2.14	1.26	<0.05	<0.02	0.04	0.130	0.16	7.5	1.3	0.12	509	2.04	0.05
460096		1390	1.89	2.48	<0.05	<0.02	0.02	0.087	0.15	3.4	3.4	0.34	511	0.82	0.05
460097		698	1.84	2.78	<0.05	<0.02	0.04	0.174	0.10	3.2	3.7	0.36	733	0.70	0.06
460098		345	1.43	2.50	<0.05	<0.02	0.01	0.038	0.07	2.8	3.0	0.35	503	0.37	0.06
460099		34.1	1.52	2.18	<0.05	<0.02	0.01	0.047	0.07	3.8	3.4	0.40	1340	4.75	0.05
460100		36.5	1.60	2.24	<0.05	<0.02	0.01	0.050	0.07	4.2	3.4	0.41	1400	5.77	0.05
460101		29.6	5.08	7.32	0.12	<0.02	0.01	0.027	0.08	16.3	18.0	4.23	2460	1.30	0.03
460102		7.2	1.37	2.22	<0.05	<0.02	0.01	0.006	0.11	3.7	2.0	0.30	485	0.84	0.06
460103		3.0	1.25	2.29	<0.05	<0.02	0.01	0.007	0.24	2.9	2.5	0.29	348	0.44	0.07
460104		1.6	1.14	2.12	<0.05	<0.02	0.01	0.008	0.27	2.4	2.2	0.23	287	0.49	0.06
460105		2.9	1.41	2.22	<0.05	0.03	0.01	0.006	0.32	3.2	2.8	0.34	723	0.73	0.06
460106		1.7	1.17	2.16	<0.05	<0.02	0.01	0.005	0.28	2.2	2.2	0.24	312	0.47	0.07
460107		1.0	1.09	1.89	<0.05	<0.02	0.01	<0.005	0.24	1.6	2.2	0.28	252	0.69	0.06
460108		12.4	1.11	1.87	<0.05	<0.02	0.01	0.005	0.09	1.8	1.8	0.30	338	0.52	0.05
460109		73.5	1.25	2.05	<0.05	<0.02	0.02	0.030	0.06	2.1	2.4	0.35	360	0.93	0.06
460110		2770	4.29	8.18	0.14	0.39	0.02	0.198	1.15	33.6	32.8	1.27	410	94.8	0.18
460111		8.2	1.15	2.26	<0.05	<0.02	0.01	0.005	0.07	2.3	2.1	0.36	355	1.47	0.06
460112		1.8	1.22	2.15	<0.05	0.02	0.01	<0.005	0.18	2.5	2.0	0.30	336	0.61	0.06
460113		2.3	1.10	1.94	<0.05	0.02	0.01	0.005	0.10	2.8	1.8	0.31	344	0.58	0.05



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Page: 4 - C

Total # Pages: 5 (A - D)

Plus Appendix Pages

Finalized Date: 28-FEB-2017

Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029938

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	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
460074		1.9	290	0.3	2.3	<0.001	0.03	<0.05	0.6	<0.2	<0.2	31.3	<0.01	<0.01	0.5	0.010
460075		1.8	300	0.4	5.0	0.005	0.20	0.05	0.7	<0.2	<0.2	38.1	<0.01	0.09	0.5	0.015
460076		2.1	300	0.2	2.7	<0.001	0.04	0.05	0.7	<0.2	<0.2	33.4	<0.01	0.01	0.5	0.011
460077		1.9	290	0.4	1.7	<0.001	0.53	0.05	0.6	<0.2	<0.2	28.0	<0.01	0.20	0.8	0.005
460078		1.7	310	0.5	1.7	<0.001	0.69	0.05	0.6	<0.2	<0.2	24.1	<0.01	0.19	0.8	<0.005
460079		2.3	380	1.0	1.8	0.001	0.44	0.06	0.8	<0.2	0.2	27.3	<0.01	0.12	0.8	0.006
460080		2.1	380	1.0	1.6	0.001	0.47	0.05	0.8	<0.2	<0.2	24.7	<0.01	0.13	0.7	0.006
460081		1.8	370	1.8	2.0	<0.001	0.50	0.09	1.3	<0.2	0.2	48.4	<0.01	0.54	0.8	0.005
460082		2.0	380	1.0	2.5	0.003	1.18	<0.05	1.4	0.5	0.2	41.5	<0.01	0.35	1.1	<0.005
460083		1.5	240	0.9	2.5	0.001	4.52	0.14	0.3	0.5	1.2	19.7	<0.01	1.71	1.7	<0.005
460084		2.0	410	1.0	2.3	<0.001	2.65	0.08	0.8	0.3	0.4	31.4	<0.01	0.52	1.0	<0.005
460085		2.1	430	1.1	2.5	<0.001	3.80	0.09	1.0	0.8	0.5	24.4	<0.01	0.52	1.3	<0.005
460086		1.7	350	1.0	2.4	<0.001	1.34	0.09	0.9	0.2	0.3	27.4	<0.01	0.22	0.6	<0.005
460087		1.4	150	1.5	2.0	<0.001	4.75	0.08	0.4	1.0	<0.2	16.3	<0.01	0.18	1.4	<0.005
460088		1.3	130	1.0	2.4	0.001	3.61	0.09	0.3	0.9	<0.2	14.8	<0.01	0.24	2.1	<0.005
460089		1.0	200	0.5	3.2	<0.001	2.71	0.06	0.3	0.5	<0.2	15.1	<0.01	0.20	1.5	<0.005
460090		22.6	760	78.4	15.3	0.216	2.28	1.84	2.5	4.3	0.6	56.2	<0.01	0.77	3.4	0.045
460091		1.8	120	1.1	3.0	<0.001	9.81	0.08	0.2	2.3	<0.2	4.2	<0.01	0.47	1.4	<0.005
460092		1.5	210	0.8	2.9	<0.001	1.41	0.07	0.4	0.3	<0.2	15.5	<0.01	0.26	1.4	<0.005
460093		1.0	200	1.5	1.5	<0.001	0.07	0.05	0.6	<0.2	<0.2	34.1	<0.01	0.02	1.1	<0.005
460094		1.6	230	1.8	2.8	<0.001	2.11	0.07	0.7	0.3	<0.2	21.8	<0.01	0.23	1.2	<0.005
460095		1.5	200	1.1	2.1	<0.001	1.69	0.06	0.4	0.3	<0.2	23.4	<0.01	0.19	1.2	<0.005
460096		1.6	300	0.8	2.1	<0.001	0.64	0.05	0.7	0.2	0.2	29.8	<0.01	0.11	0.8	<0.005
460097		2.2	270	0.9	1.5	<0.001	0.38	0.06	0.9	<0.2	0.2	34.4	<0.01	0.08	0.8	<0.005
460098		2.1	280	1.2	1.2	<0.001	0.14	0.11	0.8	0.2	<0.2	52.7	<0.01	0.02	0.8	<0.005
460099		9.6	300	0.7	1.4	<0.001	0.07	0.05	1.3	<0.2	<0.2	74.6	<0.01	0.33	0.7	<0.005
460100		10.8	310	0.7	1.4	<0.001	0.08	0.06	1.3	0.2	<0.2	76.8	<0.01	0.22	0.8	<0.005
460101		237	2020	1.3	1.7	<0.001	0.04	<0.05	10.4	0.9	<0.2	255	<0.01	0.19	1.4	0.009
460102		3.6	370	1.1	2.1	<0.001	0.06	0.05	1.3	0.2	<0.2	51.0	<0.01	0.01	0.7	0.007
460103		4.7	350	1.2	6.4	<0.001	0.01	0.06	1.3	<0.2	<0.2	60.6	<0.01	<0.01	0.7	0.017
460104		5.0	310	1.3	6.6	<0.001	0.01	0.05	1.4	0.2	<0.2	52.1	<0.01	<0.01	0.6	0.022
460105		14.6	450	1.2	9.4	<0.001	0.02	0.06	2.2	0.2	<0.2	81.5	<0.01	<0.01	0.6	0.025
460106		2.5	300	1.0	6.9	<0.001	0.01	0.06	1.2	0.2	<0.2	45.3	<0.01	<0.01	0.6	0.025
460107		1.6	310	0.5	6.0	<0.001	0.01	0.05	0.8	<0.2	<0.2	33.2	<0.01	<0.01	0.5	0.027
460108		1.9	310	0.7	1.5	<0.001	0.02	0.09	0.8	0.4	<0.2	36.3	<0.01	<0.01	0.6	0.009
460109		2.0	300	0.6	0.9	<0.001	0.10	0.09	1.1	<0.2	<0.2	54.9	<0.01	0.03	0.7	0.008
460110		42.4	1100	9.1	130.5	0.003	0.39	0.52	7.7	3.5	4.5	63.1	0.01	0.09	19.7	0.369
460111		1.7	310	0.8	1.0	<0.001	0.03	0.08	1.4	<0.2	<0.2	51.1	<0.01	0.01	0.7	0.007
460112		2.1	320	0.7	4.4	<0.001	0.01	0.07	1.0	0.2	<0.2	39.3	<0.01	<0.01	0.8	0.018
460113		1.8	320	0.8	1.8	<0.001	0.01	0.10	1.0	0.3	<0.2	37.6	<0.01	<0.01	0.8	0.008



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Page: 4 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 28-FEB-2017
 Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029938

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
460074		<0.02	0.24	5	<0.05	6.61	61	<0.5			
460075		0.04	0.35	6	0.19	6.19	175	<0.5			
460076		0.02	0.26	6	<0.05	6.61	52	<0.5			
460077		<0.02	0.23	5	0.09	3.91	1020	<0.5			
460078		<0.02	0.56	5	0.06	4.21	141	<0.5			
460079		<0.02	0.65	7	0.05	5.16	105	<0.5			
460080		<0.02	0.57	7	0.05	4.51	106	<0.5			
460081		<0.02	0.46	8	0.08	6.89	234	<0.5			
460082		<0.02	1.36	6	0.19	14.55	414	<0.5			
460083		<0.02	3.09	1	0.17	4.56	943	<0.5	1.075		
460084		<0.02	1.88	4	0.19	7.02	312	<0.5	0.541		
460085		<0.02	2.40	4	0.32	10.90	281	<0.5	0.483		
460086		<0.02	1.51	4	0.16	5.47	83	<0.5	0.401		
460087		<0.02	1.81	2	0.12	3.46	24	<0.5			
460088		<0.02	1.47	1	0.72	6.32	33	<0.5			
460089		0.02	0.54	1	0.20	4.40	26	<0.5			
460090		0.27	0.63	33	1.65	5.28	462	0.8	0.247	0.028	0.301
460091		0.02	2.52	1	0.20	4.83	13	<0.5			
460092		<0.02	0.97	2	0.14	4.01	140	<0.5			
460093		<0.02	0.57	3	0.26	6.39	69	<0.5			
460094		0.02	0.41	2	0.19	7.75	338	<0.5			
460095		<0.02	0.40	2	0.10	5.89	310	<0.5			
460096		<0.02	0.22	4	0.08	5.06	143	<0.5			
460097		<0.02	0.29	5	0.09	5.06	345	<0.5			
460098		<0.02	0.18	6	0.07	3.89	73	<0.5			
460099		<0.02	0.47	6	0.07	7.22	102	<0.5			
460100		<0.02	0.44	6	0.07	7.34	104	<0.5			
460101		<0.02	3.33	76	0.06	18.30	312	<0.5			
460102		<0.02	0.19	8	<0.05	5.38	40	<0.5			
460103		0.05	0.34	8	<0.05	5.40	30	<0.5			
460104		0.05	0.33	8	<0.05	5.79	27	<0.5			
460105		0.06	1.13	11	<0.05	9.24	33	<0.5			
460106		0.05	0.30	8	<0.05	5.73	30	<0.5			
460107		0.04	0.45	6	<0.05	5.94	35	<0.5			
460108		<0.02	0.36	5	<0.05	5.41	42	<0.5			
460109		<0.02	0.22	6	<0.05	6.13	131	<0.5			
460110		0.70	4.25	119	2.78	17.70	86	10.3	0.259		0.242
460111		<0.02	0.31	6	<0.05	5.25	36	<0.5			
460112		0.03	0.44	6	<0.05	6.69	30	<0.5			
460113		<0.02	0.29	6	<0.05	6.48	35	<0.5			



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Page: 5 - A
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 28-FEB-2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029938

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
460114		7.51	0.02	0.63	0.8	<0.2	<10	70	0.07	0.02	0.76	0.20	7.40	3.4	6	0.11
460115		7.46	0.01	0.69	0.2	<0.2	<10	90	0.08	0.01	0.73	0.01	7.05	3.3	7	0.19
460116		7.69	0.02	0.65	0.4	<0.2	<10	80	0.06	0.01	1.04	0.07	5.32	3.1	9	<0.05
460117		7.96	0.01	0.67	0.4	<0.2	<10	80	0.07	<0.01	0.85	0.04	5.24	3.4	6	<0.05
460118		7.60	0.01	0.65	0.2	<0.2	<10	80	0.08	0.01	0.66	0.21	3.83	3.5	6	<0.05
460119		7.78	0.07	0.68	0.2	<0.2	<10	70	0.08	0.02	0.43	0.19	3.83	3.9	6	<0.05
460120		<0.02	0.08	0.72	0.2	<0.2	<10	70	0.08	0.01	0.43	0.18	3.78	3.5	5	<0.05
460121		7.41	0.01	0.73	0.5	<0.2	<10	80	0.07	<0.01	0.56	0.09	4.24	4.4	9	<0.05
460122		7.28	0.01	0.75	0.4	<0.2	<10	80	0.08	0.01	0.58	0.14	5.45	3.6	8	<0.05
460123		7.70	0.02	0.72	0.2	<0.2	<10	60	0.07	0.01	0.84	0.10	5.24	3.5	6	<0.05
460124		7.80	0.49	0.80	0.5	<0.2	<10	70	0.07	0.24	1.21	0.19	4.94	13.8	7	0.08
460125		7.18	0.06	0.80	0.1	<0.2	<10	60	0.07	0.04	1.36	0.06	4.73	3.0	7	0.08
460126		7.16	0.04	0.84	0.1	<0.2	<10	80	0.09	0.02	1.34	0.08	3.84	2.5	5	0.12
460127		7.24	0.01	0.85	0.2	<0.2	<10	60	0.11	0.02	1.18	0.04	3.17	4.6	7	0.12
460128		7.32	0.02	0.80	0.2	<0.2	<10	50	0.07	0.07	3.18	0.14	7.16	4.1	5	0.10
460129		3.51	0.02	0.76	0.2	<0.2	<10	80	0.07	0.12	2.08	0.09	16.95	4.8	7	0.07
460130		0.07	0.80	2.16	16.8	0.3	<10	410	0.53	1.71	1.05	0.11	65.0	16.3	93	10.80
460131		3.28	<0.01	0.90	0.3	<0.2	<10	110	0.08	0.02	1.96	0.06	7.20	2.8	8	0.07
460132		7.98	<0.01	0.80	0.3	<0.2	<10	70	0.07	0.01	1.18	0.02	5.70	3.4	8	0.06
460133		6.48	<0.01	0.84	0.2	<0.2	<10	70	0.07	0.01	0.78	0.01	5.79	3.6	7	<0.05
460134		5.70	<0.01	0.82	0.2	<0.2	<10	60	0.08	0.01	0.73	0.01	4.96	3.5	8	<0.05
460135		3.01	0.01	0.90	0.2	<0.2	<10	60	0.10	0.01	0.84	0.01	6.01	1.8	8	0.05
460136		7.32	0.05	0.85	0.3	<0.2	<10	60	0.10	0.03	1.06	0.03	5.78	2.6	9	0.07
460137		7.10	<0.01	0.88	0.2	<0.2	<10	60	0.08	0.01	0.86	0.01	5.81	3.6	9	<0.05
460138		7.56	0.37	2.29	0.4	<0.2	<10	40	0.34	0.04	3.02	0.08	9.09	16.6	255	<0.05
460139		7.08	0.02	0.88	0.3	<0.2	<10	70	0.10	0.02	0.87	0.03	4.63	2.7	7	<0.05
460140		<0.02	0.02	0.87	0.2	<0.2	<10	70	0.10	0.02	0.84	0.03	3.84	2.7	8	<0.05
460141		7.41	<0.01	0.84	0.3	<0.2	<10	70	0.07	0.01	0.51	0.01	4.16	3.7	7	<0.05
460142		7.40	<0.01	0.82	0.5	<0.2	<10	80	0.07	<0.01	0.64	0.01	3.10	3.6	8	<0.05
460143		3.77	<0.01	0.83	0.5	<0.2	<10	90	0.07	0.01	0.55	0.01	4.83	3.6	8	<0.05
460144		3.71	<0.01	0.92	0.2	<0.2	<10	220	0.11	0.03	1.53	0.02	5.80	3.4	7	0.11
460145		7.39	<0.01	0.84	0.3	<0.2	<10	100	0.06	0.01	0.56	<0.01	5.44	3.8	6	<0.05
460146		7.48	<0.01	0.96	0.4	<0.2	<10	60	0.09	0.02	1.16	<0.01	4.84	4.0	8	0.08
460147		7.19	<0.01	0.81	0.3	<0.2	<10	70	0.08	<0.01	0.70	<0.01	5.13	3.8	8	<0.05
460148		7.86	<0.01	0.81	0.3	<0.2	<10	80	0.09	<0.01	0.60	0.01	4.60	3.9	9	<0.05
460149		7.58	<0.01	0.83	0.3	<0.2	<10	80	0.07	<0.01	0.61	<0.01	4.66	3.9	10	<0.05
460150		0.04	0.94	1.65	5.5	<0.2	10	130	0.26	0.20	1.00	0.42	13.15	11.2	31	0.41
460151		7.13	<0.01	0.83	0.2	<0.2	<10	50	0.06	0.01	1.33	0.02	6.14	4.1	7	0.09



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Page: 5 - B
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 28-FEB-2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029938

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
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
460114		2.2	1.08	1.94	<0.05	0.02	0.01	0.020	0.12	2.6	1.9	0.28	420	0.27	0.05
460115		1.5	1.18	2.10	<0.05	0.02	0.01	<0.005	0.16	2.3	2.7	0.32	391	0.16	0.06
460116		8.8	1.21	1.86	<0.05	<0.02	0.01	0.008	0.11	1.8	1.9	0.33	564	0.23	0.06
460117		3.0	1.19	1.99	<0.05	<0.02	0.01	0.005	0.11	1.7	2.2	0.35	505	0.33	0.06
460118		6.3	1.16	1.97	<0.05	<0.02	0.02	0.018	0.11	1.4	2.5	0.35	466	0.24	0.06
460119		71.9	1.20	1.98	<0.05	<0.02	0.01	0.017	0.10	1.4	2.6	0.36	448	0.36	0.05
460120		87.5	1.21	2.01	<0.05	<0.02	0.01	0.016	0.10	1.4	2.7	0.37	459	0.46	0.06
460121		2.9	1.22	1.93	<0.05	0.02	0.01	0.007	0.09	1.5	2.4	0.38	447	0.26	0.06
460122		9.3	1.27	2.18	<0.05	0.02	0.02	0.013	0.09	1.9	2.3	0.36	451	0.23	0.06
460123		4.3	1.30	2.08	<0.05	<0.02	0.01	0.012	0.09	1.8	2.6	0.36	554	0.37	0.06
460124		105.0	2.60	2.46	<0.05	<0.02	0.01	0.037	0.13	1.9	3.2	0.34	993	12.25	0.05
460125		42.6	1.60	2.42	<0.05	<0.02	0.01	0.029	0.10	1.9	3.6	0.39	852	1.96	0.05
460126		25.8	1.57	2.67	<0.05	<0.02	0.01	0.041	0.10	1.5	3.4	0.38	1020	1.16	0.04
460127		6.3	1.71	2.71	<0.05	<0.02	<0.01	0.008	0.07	1.3	3.5	0.43	826	0.28	0.05
460128		18.5	2.02	2.67	<0.05	<0.02	<0.01	0.063	0.07	3.1	3.3	0.40	1600	0.58	0.05
460129		9.1	1.87	2.59	<0.05	<0.02	0.01	0.029	0.07	7.7	2.7	0.33	900	0.79	0.07
460130		2840	4.41	9.13	0.18	0.41	0.03	0.206	1.18	33.6	33.2	1.30	417	108.5	0.17
460131		3.0	1.62	2.98	<0.05	<0.02	0.01	0.023	0.06	3.2	4.0	0.46	771	0.76	0.08
460132		4.3	1.35	2.70	<0.05	<0.02	0.01	0.008	0.05	2.4	3.3	0.43	631	0.68	0.05
460133		1.8	1.24	2.72	<0.05	<0.02	<0.01	0.006	0.06	2.3	2.9	0.40	430	1.26	0.05
460134		5.0	1.29	2.62	<0.05	<0.02	<0.01	0.005	0.06	2.0	2.9	0.40	399	0.66	0.05
460135		21.6	1.38	2.46	<0.05	<0.02	0.01	0.014	0.05	2.7	3.2	0.40	574	0.54	0.04
460136		131.5	1.61	2.57	<0.05	<0.02	0.01	0.033	0.07	2.5	3.0	0.37	717	0.87	0.05
460137		2.7	1.49	2.74	<0.05	<0.02	<0.01	<0.005	0.07	2.3	2.9	0.44	597	0.46	0.06
460138		448	2.87	5.61	0.06	0.03	0.01	0.024	0.04	3.6	9.7	2.39	1140	2.09	0.03
460139		17.1	1.13	2.80	<0.05	<0.02	<0.01	0.027	0.07	1.8	2.6	0.41	451	1.37	0.05
460140		18.4	1.14	2.79	<0.05	<0.02	<0.01	0.025	0.07	1.5	2.7	0.41	444	1.20	0.05
460141		2.3	1.28	2.41	<0.05	<0.02	<0.01	0.005	0.07	1.6	3.0	0.48	391	1.33	0.05
460142		2.0	1.29	2.34	<0.05	<0.02	<0.01	<0.005	0.09	1.2	2.7	0.45	438	0.90	0.04
460143		2.5	1.27	2.50	<0.05	<0.02	<0.01	0.006	0.09	2.0	2.7	0.42	382	0.71	0.05
460144		1.8	1.28	3.29	<0.05	<0.02	<0.01	0.037	0.07	2.4	2.4	0.33	497	0.73	0.04
460145		1.6	1.16	2.44	<0.05	<0.02	<0.01	0.007	0.06	2.2	3.1	0.42	333	0.80	0.05
460146		1.5	1.30	3.01	<0.05	<0.02	<0.01	0.022	0.05	2.0	3.4	0.42	432	0.62	0.05
460147		1.9	1.16	2.48	<0.05	<0.02	<0.01	0.005	0.06	2.0	3.0	0.41	349	0.73	0.05
460148		1.8	1.20	2.37	<0.05	<0.02	<0.01	<0.005	0.08	1.9	2.9	0.42	367	1.19	0.05
460149		1.9	1.27	2.51	<0.05	<0.02	<0.01	<0.005	0.10	1.9	2.9	0.43	339	0.93	0.06
460150		3350	3.35	5.71	0.09	0.23	0.03	0.051	0.21	6.6	10.3	0.80	500	253	0.09
460151		5.9	1.48	2.89	<0.05	<0.02	<0.01	0.012	0.07	2.5	3.3	0.45	563	0.63	0.05



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Page: 5 - C
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 28-FEB-2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029938

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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
460114		1.7	320	0.9	1.9	<0.001	0.06	0.08	1.2	0.2	<0.2	37.3	<0.01	0.01	0.7
460115		2.0	340	0.6	3.5	<0.001	0.01	0.06	0.8	<0.2	<0.2	39.4	<0.01	<0.01	0.6
460116		1.8	330	0.5	1.5	<0.001	0.04	0.06	0.7	0.3	<0.2	33.3	<0.01	0.01	0.4
460117		1.7	330	0.5	1.5	<0.001	0.03	<0.05	0.7	<0.2	<0.2	34.3	<0.01	0.01	0.4
460118		1.9	330	0.5	1.4	<0.001	0.07	0.05	0.7	<0.2	<0.2	34.0	<0.01	0.01	0.3
460119		1.9	330	0.5	1.2	<0.001	0.12	0.08	0.8	<0.2	<0.2	32.4	<0.01	0.03	0.4
460120		1.8	330	0.5	1.3	<0.001	0.12	0.06	0.8	<0.2	<0.2	32.9	<0.01	0.02	0.4
460121		2.0	350	0.4	1.1	<0.001	0.05	0.06	0.8	<0.2	<0.2	30.5	<0.01	0.01	0.4
460122		2.0	330	0.5	1.2	<0.001	0.06	0.08	0.9	<0.2	<0.2	35.4	<0.01	0.02	0.4
460123		1.7	330	0.5	1.1	<0.001	0.07	0.05	0.8	0.2	<0.2	35.9	<0.01	0.02	0.5
460124		2.5	340	0.6	2.0	0.001	1.07	0.06	0.9	<0.2	<0.2	65.7	<0.01	0.12	0.5
460125		2.1	340	0.7	1.4	<0.001	0.08	0.05	1.0	<0.2	<0.2	44.5	<0.01	0.02	0.4
460126		1.8	330	0.8	1.5	<0.001	0.03	0.06	1.0	0.2	<0.2	42.3	<0.01	<0.01	0.4
460127		2.2	360	0.8	1.0	<0.001	0.21	0.07	1.1	0.2	<0.2	55.8	<0.01	0.01	0.3
460128		1.9	340	1.0	1.0	<0.001	0.42	<0.05	1.5	0.2	<0.2	82.5	<0.01	0.03	0.4
460129		1.7	250	0.7	1.0	<0.001	0.46	<0.05	0.9	0.2	<0.2	47.1	<0.01	0.07	1.2
460130		41.8	1120	9.6	138.0	0.003	0.43	0.51	7.7	4.1	5.2	66.7	<0.01	0.06	18.4
460131		2.3	300	0.6	0.8	<0.001	0.04	<0.05	0.9	0.2	<0.2	52.3	<0.01	<0.01	0.7
460132		2.1	350	0.9	0.7	<0.001	0.06	0.08	1.1	0.2	<0.2	80.3	<0.01	0.01	0.5
460133		1.8	350	1.0	0.8	<0.001	0.02	0.07	1.2	<0.2	<0.2	93.4	<0.01	<0.01	0.5
460134		2.1	320	0.8	0.8	<0.001	0.03	0.06	1.0	<0.2	<0.2	75.5	<0.01	<0.01	0.5
460135		2.2	320	0.7	0.8	<0.001	0.03	0.10	0.9	<0.2	<0.2	89.7	<0.01	<0.01	0.6
460136		1.7	300	0.9	1.0	<0.001	0.14	0.10	1.3	0.2	<0.2	58.2	<0.01	0.01	0.6
460137		2.4	370	0.5	1.2	<0.001	0.03	0.06	1.0	<0.2	<0.2	50.4	<0.01	0.01	0.6
460138		76.9	1050	0.9	0.8	<0.001	0.29	0.07	5.2	0.7	0.4	136.5	<0.01	0.02	0.6
460139		2.1	410	0.7	1.3	<0.001	0.04	0.08	1.0	<0.2	<0.2	60.3	<0.01	<0.01	0.5
460140		2.3	410	0.8	1.2	<0.001	0.04	0.08	1.0	<0.2	<0.2	60.4	<0.01	<0.01	0.4
460141		2.3	390	0.4	1.1	<0.001	0.06	0.06	0.9	<0.2	<0.2	36.6	<0.01	<0.01	0.4
460142		1.9	380	0.3	1.2	<0.001	0.02	0.05	0.8	0.2	<0.2	31.4	<0.01	<0.01	0.3
460143		2.3	380	0.4	1.1	<0.001	0.05	0.07	1.0	0.2	<0.2	39.6	<0.01	<0.01	0.5
460144		2.0	420	1.0	1.0	<0.001	0.16	0.15	1.3	<0.2	0.2	104.0	<0.01	<0.01	0.6
460145		1.9	390	0.5	0.9	<0.001	0.11	0.06	0.8	<0.2	<0.2	45.9	<0.01	<0.01	0.5
460146		2.2	400	1.0	0.7	<0.001	0.03	0.11	1.2	<0.2	<0.2	94.6	<0.01	<0.01	0.4
460147		2.1	390	0.5	0.8	<0.001	0.02	0.05	0.9	<0.2	<0.2	73.7	<0.01	<0.01	0.4
460148		1.9	400	0.4	1.1	<0.001	0.03	<0.05	0.8	<0.2	<0.2	41.3	<0.01	<0.01	0.4
460149		2.3	380	0.4	1.3	<0.001	0.01	<0.05	0.8	<0.2	<0.2	41.5	<0.01	<0.01	0.3
460150		24.6	700	9.2	9.6	0.244	0.51	2.66	5.4	1.5	1.2	47.1	<0.01	0.08	1.8
460151		2.1	410	0.8	0.9	<0.001	0.09	<0.05	1.2	<0.2	<0.2	70.1	<0.01	<0.01	0.5



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Page: 5 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 28-FEB-2017
 Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029938

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001	Mo-OG46 Mo % 0.001	Au-AA23 Au ppm 0.005
460114		<0.02	0.22	5	<0.05	5.28	114	<0.5			
460115		0.03	0.25	6	<0.05	5.29	46	<0.5			
460116		<0.02	0.26	4	<0.05	4.05	100	<0.5			
460117		<0.02	0.31	4	<0.05	3.99	74	<0.5			
460118		<0.02	0.17	5	<0.05	3.84	127	<0.5			
460119		<0.02	0.17	5	<0.05	3.51	116	<0.5			
460120		<0.02	0.16	5	<0.05	3.61	116	<0.5			
460121		<0.02	0.17	6	<0.05	4.10	103	<0.5			
460122		<0.02	0.16	6	<0.05	4.00	123	<0.5			
460123		<0.02	0.18	6	<0.05	4.98	108	<0.5			
460124		<0.02	1.24	5	1.87	3.71	197	<0.5			
460125		<0.02	0.20	6	0.08	3.78	93	<0.5			
460126		<0.02	0.16	6	0.06	4.03	115	<0.5			
460127		<0.02	0.26	7	<0.05	4.51	82	<0.5			
460128		<0.02	0.25	6	0.07	7.48	98	<0.5			
460129		<0.02	0.22	5	0.11	5.04	64	<0.5			
460130		0.75	4.63	122	2.10	18.60	83	10.7	0.258		0.252
460131		<0.02	0.16	6	0.05	3.58	62	<0.5			
460132		<0.02	0.26	7	<0.05	4.73	51	<0.5			
460133		<0.02	0.36	8	<0.05	5.15	45	<0.5			
460134		<0.02	0.35	7	<0.05	5.39	55	<0.5			
460135		<0.02	0.30	6	0.06	4.17	62	<0.5			
460136		<0.02	0.33	8	0.05	5.26	69	<0.5			
460137		<0.02	0.21	7	<0.05	5.06	56	<0.5			
460138		<0.02	0.43	56	<0.05	8.56	93	0.5			
460139		<0.02	0.28	7	<0.05	4.04	56	<0.5			
460140		<0.02	0.20	7	<0.05	4.06	56	<0.5			
460141		<0.02	0.24	6	<0.05	4.30	62	<0.5			
460142		<0.02	0.17	6	<0.05	3.03	58	<0.5			
460143		<0.02	0.15	6	<0.05	3.63	51	<0.5			
460144		<0.02	0.19	9	<0.05	5.93	37	<0.5			
460145		<0.02	0.37	7	<0.05	4.55	41	<0.5			
460146		<0.02	0.17	10	<0.05	5.52	39	<0.5			
460147		<0.02	0.36	7	<0.05	5.19	40	<0.5			
460148		<0.02	0.12	6	<0.05	3.45	45	<0.5			
460149		<0.02	0.10	6	<0.05	3.64	42	<0.5			
460150		0.11	0.40	67	14.95	8.16	62	6.2	0.313	0.028	
460151		<0.02	0.16	9	<0.05	4.54	63	<0.5			



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 28-FEB-2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17029938

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.

CRU - 31	CRU - QC	LOG - 21d	LOG - 22
LOG - 23	PUL - 31	PUL - 31d	PUL - QC
SPL - 21	SPL - 21d	WEI - 21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au - AA23	Cu - OG46	ME - MS41	ME - OG46
Mo - OG46			



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16-MAR-2017
Account: GIBMIN

CERTIFICATE KL17032318

Project: SGM2017-02

P.O. No.: S0218733

This report is for 6 Pulp samples submitted to our lab in Kamloops, BC, Canada on 21-FEB-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

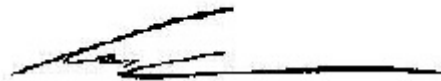
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

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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.

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

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 28-FEB-2017
 Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17032318

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2
463331		592	22.1	10	0.73	3.34	1.86	0.80	17.9	3.27	4.9	0.72	9.2	0.33	2.3
463345		638	18.8	20	0.36	3.17	1.86	0.76	18.1	3.17	4.6	0.66	7.5	0.30	2.0
463355		532	19.9	30	0.44	2.70	1.62	0.71	18.2	2.73	2.9	0.57	8.3	0.29	2.2
463371		646	20.3	10	0.37	2.74	1.66	0.73	18.1	2.89	4.8	0.58	8.4	0.29	2.1
463383		724	19.1	10	0.34	3.16	1.90	0.80	18.6	3.40	3.5	0.65	7.4	0.30	1.7
463406		525	17.0	10	0.86	2.37	1.39	0.69	17.5	2.47	3.0	0.52	6.9	0.23	1.6



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Page: 2 - B
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 28-FEB-2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17032318

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	Y	Yb	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1	0.5	0.03	2
463331		3.25	24.7	3.40	1	288	0.1	0.55	1.78	0.30	0.89	121	1	19.5	1.95	183
463345		2.86	15.0	3.25	1	386	0.1	0.53	1.32	0.31	0.66	125	1	18.4	1.91	166
463355		2.90	20.2	3.02	1	386	0.1	0.45	1.60	0.26	0.80	124	1	16.2	1.78	92
463371		2.99	19.1	3.18	1	390	0.2	0.49	1.48	0.27	0.48	119	1	16.5	1.87	178
463383		3.06	15.4	3.55	1	431	<0.1	0.55	0.47	0.29	0.26	123	<1	18.1	1.93	124
463406		2.49	21.4	2.71	1	362	<0.1	0.39	0.77	0.24	0.70	107	1	14.4	1.45	111

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



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Page: 2 - C
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 28-FEB-2017
Account: GIBMIN

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CERTIFICATE OF ANALYSIS KL17032318[illegible]

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Page: 2 - D
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 28-FEB-2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17032318

Sample Description	Method Analyte Units LOR	ME-MS81 TI ppm 0.5
463331		<0.5
463345		<0.5
463355		<0.5
463371		<0.5
463383		<0.5
463406		<0.5



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 28-FEB-2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17032318

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02
TOT-ICP06

ME-ICP06

ME-MS81

OA-GRA05



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Page: 1
Total # Pages: 2 (A - D)
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CERTIFICATE KL17032324

Project: SGM2017-02

P.O. No.: SO218733

This report is for 8 Pulp samples submitted to our lab in Kamloops, BC, Canada on 21-FEB-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

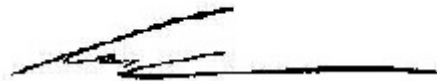
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

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Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 2 - MAR - 2017
 Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17032324

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2
463416		445	19.2	10	0.64	2.60	1.58	0.76	18.1	2.73	3.1	0.54	8.2	0.28	1.7
463433		662	16.1	20	0.42	2.15	1.23	0.59	17.8	2.23	4.3	0.45	6.9	0.23	1.7
463444		642	13.2	20	0.31	1.67	1.03	0.57	18.1	1.81	3.0	0.36	5.6	0.17	1.5
463456		1550	21.9	20	0.51	1.68	1.20	0.35	15.4	1.72	2.6	0.39	9.9	0.26	2.3
463467		1025	20.1	20	0.29	1.67	1.18	0.36	15.1	1.61	2.2	0.36	9.0	0.25	2.7
463481		827	19.0	20	0.33	1.58	0.91	0.45	16.1	1.73	1.9	0.35	8.7	0.18	2.1
463495		728	13.4	20	0.41	1.29	0.83	0.48	16.7	1.36	2.3	0.30	6.1	0.17	1.6
463503		675	12.4	20	0.49	1.32	0.83	0.41	17.1	1.44	2.7	0.28	5.2	0.15	2.3



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Page: 2 - B
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 2 - MAR - 2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17032324

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	Y	Yb	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1	0.5	0.03	2
463416		2.75	14.6	2.84	1	493	0.1	0.43	1.41	0.25	1.03	120	1	15.4	1.74	105
463433		2.35	16.4	2.34	1	382	<0.1	0.35	0.76	0.20	0.47	90	1	12.3	1.49	153
463444		1.95	15.1	2.06	1	438	<0.1	0.29	0.54	0.17	0.26	68	2	9.5	1.09	109
463456		2.83	23.3	2.26	<1	183.0	0.1	0.26	1.94	0.20	0.85	19	1	11.2	1.51	67
463467		2.59	17.4	2.10	<1	210	0.2	0.26	2.05	0.20	1.99	17	<1	10.9	1.59	55
463481		2.57	15.5	2.11	1	276	0.1	0.27	1.15	0.16	0.54	30	<1	9.3	1.15	62
463495		1.82	13.9	1.53	<1	357	<0.1	0.22	0.77	0.14	0.49	36	<1	8.8	0.98	82
463503		1.80	6.6	1.70	<1	363	0.1	0.22	0.99	0.13	0.52	42	<1	7.4	0.92	86



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Page: 2 - C
Total # Pages: 2 (A - D)
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Finalized Date: 2-MAR-2017
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Page: 2 - D
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 2 - MAR - 2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17032324

Sample Description	Method Analyte Units LOR	ME-MS81 TI ppm 0.5
463416		<0.5
463433		<0.5
463444		<0.5
463456		<0.5
463467		<0.5
463481		<0.5
463495		<0.5
463503		<0.5



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 2 - MAR - 2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17032324

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02
TOT-ICP06

ME-ICP06

ME-MS81

OA-GRA05



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Page: 1
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Account: GIBMIN

CERTIFICATE KL17032327

Project: SGM2017-02

P.O. No.: SO218733

This report is for 11 Pulp samples submitted to our lab in Kamloops, BC, Canada on 21-FEB-2017.

The following have access to data associated with this certificate:

CHRIS GALLAGHER

SCOTT SMITH

ERIC TITLEY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

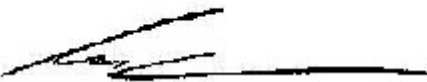
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	ICP-AES

To: **GIBRALTAR MINES LTD.**
ATTN: ALS MINERALS

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

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

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 3 - MAR - 2017
 Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17032327

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	0.2
460023		591	21.8	20	0.48	3.05	1.95	0.92	22.1	3.18	5.1	0.70	9.0	0.38	2.2
460039		594	15.5	20	0.24	2.36	1.56	0.56	19.7	2.32	4.4	0.51	6.0	0.24	1.5
460056		657	19.2	10	0.31	2.24	1.45	0.64	17.2	2.34	2.3	0.49	7.5	0.26	4.8
460065		1245	21.9	<10	0.87	1.76	1.22	0.44	16.6	1.68	2.5	0.38	9.4	0.25	3.0
460074		892	15.2	10	0.55	1.74	1.27	0.46	16.4	1.75	2.9	0.40	6.0	0.25	3.1
460102		873	19.7	10	0.47	1.15	0.80	0.38	14.8	1.42	2.4	0.25	8.6	0.14	1.8
460107		853	13.4	20	0.43	1.22	0.81	0.43	15.4	1.28	2.0	0.27	5.8	0.15	1.6
460122		745	16.2	10	0.25	1.23	0.85	0.44	15.5	1.46	2.4	0.25	7.2	0.15	1.6
460129		745	26.8	10	0.38	1.35	0.81	0.53	15.9	1.49	2.3	0.29	12.1	0.18	1.8
460134		695	17.5	20	0.26	1.25	0.84	0.44	15.6	1.53	2.6	0.27	7.6	0.16	1.7
460143		870	16.9	30	0.25	1.05	0.71	0.46	16.2	1.22	2.8	0.21	7.6	0.13	1.5



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Page: 2 - B
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 3 - MAR - 2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17032327

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	Y	Yb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1	0.5	0.03
460023		3.21	19.5	3.52	1	448	0.1	0.52	1.71	0.32	1.16	143	4	19.2	2.20
460039		2.38	14.1	2.69	1	331	0.3	0.40	0.52	0.22	0.45	82	1	14.6	1.51
460056		2.82	14.7	2.58	1	355	0.2	0.38	1.14	0.23	0.59	65	3	14.2	1.61
460065		2.82	41.1	2.03	1	131.5	0.2	0.28	1.50	0.19	0.97	41	2	11.8	1.45
460074		2.06	23.2	2.03	1	281	0.2	0.31	1.26	0.21	0.94	38	1	12.5	1.49
460102		2.56	22.7	1.86	<1	279	0.1	0.20	0.95	0.12	0.41	32	1	7.6	0.79
460107		1.87	17.4	1.50	<1	316	0.1	0.22	0.84	0.14	0.98	30	<1	8.2	0.93
460122		2.11	12.6	1.66	<1	330	0.1	0.21	0.75	0.13	0.43	31	<1	7.9	0.88
460129		3.38	14.8	2.24	1	310	0.1	0.24	1.51	0.15	0.53	28	1	8.3	1.07
460134		2.23	10.1	1.74	1	354	0.2	0.23	0.90	0.13	0.62	31	1	8.3	1.03
460143		2.15	12.3	1.58	<1	369	0.1	0.19	0.94	0.11	0.36	34	<1	6.7	0.73



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 P.O. BOX 130
 10251 GIBRALTAR MINE ROAD
 MCLEESE LAKE BC V0L 1P0

Page: 2 - C
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 3 - MAR - 2017
 Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17032327

Sample Description	Method Analyte Units LOR	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
460023		63.5	16.90	5.22	4.04	2.24	3.95	1.13	<0.01	0.47	0.25	0.12	0.04	0.06	2.70	100.62
460039		60.9	21.3	4.04	3.78	1.64	3.55	0.92	<0.01	0.37	0.19	0.09	0.03	0.07	3.01	99.89
460056		65.2	16.15	4.03	4.04	1.54	4.72	1.05	<0.01	0.36	0.16	0.10	0.04	0.07	3.07	100.53
460065		70.1	14.60	3.75	2.40	0.98	2.71	2.89	<0.01	0.24	0.34	0.06	0.02	0.13	2.87	101.09
460074		71.9	14.85	2.91	2.63	0.89	4.76	1.55	<0.01	0.24	0.08	0.07	0.03	0.10	1.77	101.78
460102		71.9	14.25	2.93	2.80	0.78	4.46	1.46	<0.01	0.23	0.08	0.09	0.03	0.10	2.51	101.62
460107		70.6	14.80	2.68	3.01	0.68	4.66	1.22	<0.01	0.21	0.08	0.07	0.04	0.10	1.08	99.23
460122		70.3	14.85	2.92	2.99	0.76	4.64	1.05	<0.01	0.22	0.12	0.07	0.04	0.08	1.31	99.35
460129		69.3	14.55	3.03	3.06	0.60	4.06	1.01	<0.01	0.20	0.11	0.06	0.04	0.08	3.20	99.30
460134		70.8	14.85	2.88	3.28	0.80	4.52	0.82	<0.01	0.22	0.09	0.08	0.04	0.08	1.71	100.17
460143		69.8	15.30	3.07	3.58	0.88	4.38	0.98	<0.01	0.25	0.10	0.09	0.04	0.10	1.27	99.84



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Page: 2 - D
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 3 - MAR - 2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17032327

Sample Description	Method Analyte Units LOR	ME-MS81 TI ppm 0.5
460023		<0.5
460039		<0.5
460056		<0.5
460065		<0.5
460074		<0.5
460102		<0.5
460107		<0.5
460122		<0.5
460129		<0.5
460134		<0.5
460143		<0.5



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 3 - MAR - 2017
Account: GIBMIN

Project: SGM2017-02

CERTIFICATE OF ANALYSIS KL17032327

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02
TOT-ICP06

ME-ICP06

ME-MS81

OA-GRA05

APPENDIX VI
DDH STRIP LOGS

2016 Gibraltar Strip Log Legend

LegendAltAss	
	[ABSENT]
	[aq] - ankerite / quartz
	[carb] - carbonate
	[chl] - chlorite
	[cq] - chlorite / quartz
	[d] - deuterite
	[h] - hematite
	[k] - clay
	[q] - quartz
	[qs] - quartz / sericite
	[qsc] - quartz / sericite / chlorite
	[qsp] - quartz / sericite / pyrite
	[y] - propylitic

LegendCuppm	
	[ABSENT]
	[0,1500]
	[1500,2000]
	[2000,3000]
	[3000,5000]
	[5000,1e+006]

LegendFolnStren	
	[ABSENT]
	[0] - massive / undeformed
	[1] - weak
	[2] - moderate
	[3] - strong
	[4] - mylonitic

LegendGeotechRecov	
	[ABSENT]
	[0,75]
	[75,90]
	[90,105]
	[105,200]

LegendShrDuc	
	[ABSENT]
	[brittle]
	[ductile]
	[transitional]

LegendLithRtype	
	[ABSENT]
	[J] - Trondjemite
	[TJ] - Transitional Trondjemite
	[CASE] - Casing
	[F] - Feldspathic Tonalite
	[D] - Leucocratic Dyke

LegendVCode	
	[ABSENT]
	[CB] - carbonate
	[CHLSULPH] - chlorite sulphide
	[EP] - epidote
	[QTZ] - quartz
	[QTZCHL] - quartz chlorite
	[QTZSERSULPH] - quartz sericite sulphide
	[QTZSULPH] - quartz sulphide
	[SERSULPH] - sericite sulphide
	[chl] - chlorite

[illegible]

Hole Name: 2016-E02

DDH_LOC_AZ: 45

DDH_LOC_DIP: -82

Depth	Alt	Strat	DDH_ALT_ASS	DDH_ALT_Note	DDH_V_ANGLE	PyPct	CpyPct	Cu_ppm	Mo_ppm	Ag_ppm	Au_ppb	Pb_ppm	Zn_ppm	As_ppm	V_ppm	S_%	Intersection	Including	Elevation
			y	Pale to dark green, mg-cg, mod-str y altered and foliated tonalite. Ep altered plag crystals are stretched along foliation as thick wisps and local laths, forming with wispy dark green chlorite. 2-5mm white to bluish qtz eyes. 10-20%, enhanced in sections of strong foliation and alteration. Mod-wk foliation development decreasing downhole. Local patchy cq alteration and mod pink patchy hem? Altering plag.															
			cq	Dark green, mg-cg, mod-str cq altered and foliated tonalite. Similar to above, with stronger cq alt overprinting very weak remnant y alt. Patches of wk pink alt along foliation, possible rodycroite. Qtz generally forms as patches and less notable, mg (1-4mm) qtz eyes, still enhance in sections by strong foliation with chl alteration. Wk foliation development locally str in sections. Patchy mag in association with chl-rich sections and local patchy hem, also along fractures.															
250			qsc	Biege to dark grey green, mg, mod-str qsc altered and foliated tonalite. Mod-str pervasive qtz-ser dominant qsc alt. Plag crystals are no longer visible. 10-20% 1-4mm, white-bluish, subangular qtz crystals, some with eye shapes. 15-20% dark green to black, 2-5mm, chl patches (altered mafics), stretched and wisp with increased foliation development. Wk-str foliation development increasing downhole with local wisps and patches of fe-carb and faulted below 241ft.															2714.14
			y	Pale to dark green, mg, mod y altered and wk-mod foliated tonalite. Moderate ep alteration of plag and dark green to black wk-mod, 1-5mm, chl altered mafics. Y alteration is locally overprinted by sections of mod-str pervasive cq alteration up to 6ft wide. 1-4mm, plag with local laths and sharp grain boundaries, stretched with increased foliation development. Local pink patches of possible hem? Alteration. Wk to moderate foliation development. Modal abundance of 55% plag, 30% qtz, 15% mafics.															
			qsc	Mottled dark green to pink, mg, mod-str chl qsc altered and foliated tonalite. Patchy mod-str chl-ser dominant qsc alt overprints local wk y alt, plag crystals no longer visible in qsc altered patches, where visible, plag is stretched. 1-2mm, some with sharp margins and altered by pink hem? and less ep. 1-3mm, 10-30% subrounded, white to bluish qtz. Modal abundance of 55% plag 25% qtz, 20% mafic. Mod foliation development with local crenulation cleavage noted in str chl altered section with dissem py. Interval is faulted with clay-carb-hem gouge and hem fractures.															
			y	Pale yellow green to green, mg, wk y altered and wk-mod foliated tonalite. Wk ep +/- ser alter 1-4mm, plag crystals locally stretched and wisp downhole with increases foliation development. Local hem fractures and pink alt of plag. Interval is cut by vuggy QTZCHL veins are variable angle tca. Modal abundance of 60% plag, 25% qtz, 15% mafics.															
500			cq	Dark green to biege, mg, mod cq and foliated tonalite. Str patchy chl dominant cq alt with blebs of mag and dissem mg-cg py. Intensity gradually decreases to moderate below 488ft. Cq alt overprints wk-mod y alt and becomes no longer visible in sections of str chl alt. Hem fractures and locally altering plag to pink colour.															2466.58
			k	Pink to light green, mg, faulted and foliated tonalite. Patches of mod-str clay-carb-hem alteration associated with gouge overprinting sections of very wk ep and local hem altered plag. Hem alt decreases below 517ft. Gouge zone up to 75cm wide with lg-cq subangular qtz +/- chl alt frags.															
			y	Light to dark green, mg, mod y altered and foliated tonalite. Wk-mod ep alt of plag crystals and as veinlets overprinted by patches and bands of strong chl dominant qsc alt up to 30cm. Local patches and bands pinkish hem? Alt. Local gouge 1-5cm wide and ~1m apart. Modal abundance of 60% plag, 15% qtz, 25% mafics.															
			qsc	Red to dark green, mg, mod-str k and h altered, foliated and str faulted tonalite. Patchy clay-carb-hem +/- chl alt as fault gouge up to 50cm wide overprints wk-mod cq and local wk y alteration. Unit is highly fractured with hem and irregular submm thin carb veinlets. Mod foliation development with local folding possibly deflected by sheared and fractured QTZCHL veins.															
			cq	Dark green to white, str cq altered and wk-mod foliated tonalite. Str pervasive cq alt is texturally destructive with chl alters mafics, as veins, interstitial to qtz and along str foliation. Wk-mod fol development, locally str typically at high angle. Local wk ser forms with chl within str foliated sections. Locally vuggy possible from weathered out carb altered patches.															
			cq	light to dark green, mg, wk-mod altered and mod foliated tonalite. Wk-mod chl dominant cq alt overprints very wk ep alt of plag crystals. Local patches and sections of str chl +/- ser alt up to 30cm wide with py and dissem pink mineral with mn and hardness of 3? rhodocroite. Plag crystals are stretched along foliation with very local equant euhedral crystals. Local fractures with clay-carb gouge up to 8cm ~1m apart.															
			cq	Green to white biege, mg, wk cq and y altered and mod foliated tonalite. Similar to above with decreased cq alteration to patchy and wk-mod overprinting weak y alt. Plag crystal are stretched along foliation and weakly altering to ser/clay (softening) and local wk ep. Local thin pink patches of possible hem staining or rhodocroite.															
750			qsc	Dark green to light grey, str qsc altered and foliated tonalite. Alteration is texturally destructive leaving remnant clear to bluish, 1-4mm, subrounded, qtz eyes making up 25% of rock. Variable compositional distribution of qsc alteration with cq dominant down to 736ft, below alteration gradually changes to qsc and gap with increased ser, py and cp content. Semi-massive py-cp bands form within the gap section generally along foliation or subparallel. Cp forms as stringer and QTZSULPH veins generally discordant to foliation. Local 0.5-1cm thin clay-carb gouge at variable angle tca.															2219.01
			y	Biege to green, mg, wk y altered and foliated tonalite. Unit cut by 0.2-0.4cm ep veinlets and a QTZCHL vein.															
			cq	Dark green, mg, str chl dominant qsc altered and foliated tonalite. Alteration is generally texturally destructive with very local patch wk altered with strected plag crystals. Py dominant mineralization as disseminations and veins. QTZSULPH and CHLSULPH veins generally subparallel to foliation dominantly composed of py with minor cp. Some mineralized veins have ser halo possibly overprinting the dominant chl alt.															
			cq	Light yellow to biege, mg, wk y altered and wk-mod foliated tonalite. Similar to 709-732.5ft with much less cq patches from 5-20cm wide. Possible wk sausserization noted by the light yellow green colour of the plag crystals. Local euhedral 1-4mm, plag becoming stretched along foliation downhole. Modal abundance of 60% plag, 20% qtz, 20% mafics.															
			cq	Dark green to white, str cq altered and mod-str foliated tonalite. Similar to cq alt from 596-629.5ft with more consistent mod-str foliation development and local visible increasing plag crystals. The lower 1.8ft is str qsc altered with 50% semi-massive py.															
			y	Pale yellow green to green, mg, wk y and cq altered and wk-mod foliated tonalite. Similar to 749.6-776.8ft with sections of mod-str cq alt in association with thick QTZ veins and mineralized sections with CHLSULPH veinlets. Local pink to biege patches of possible hem or rhodocroite. Thick patches ep notable from 835-863ft up to 7cm wide and some of the smaller sections are altering to pink along margins.															
			cq	Dark to light green, mg-cg, patchy strong cq to qsc altered and wk-mod foliated TOEP. Composed of 2-8mm, eye shaped, white to bluish qtz; 2-6mm, clots of chl altered mafics locally stretched, and local 1-5mm, euhedral laths and wisps of plag. Plag crystals disappear in strong cq altered sections. Mineralization forms within the cq altered patches as CHLSULPH veins, sulphide stringers, and less QTZSULPH veins.															1971.44
			y	Pale yellow green to green, mg-cg, wk y altered and foliated transitional TOEP. Composed of 3-10mm, white to bluish, subrounded, eye shaped qtz; 2-5mm, euhedral laths to locally stretched and wispy, wk ep alter plag; and 2-5mm chl altered mafic clots. Modal abundance of 50% plag, 30% qtz, 15% mafics. Foliation development is wk, gradually increasing downhole.															
			qsc	Green to grey, mg-cg, mod cq altered and foliated TOEP and tonalite. Similar to above interval from 1010-1044ft with patches of qtz dominant and chl dominant alt. The TOEP is transitioning to tonalite with local patches of mg tonalite starting below 1047.5ft.															
			y	Pale grey, mg, str qsc altered and mod-str foliated tonalite. Texturally destructive alteration with local faint ghosts of chl altered mafic and plag crystals. Biege wisps and clots of soft fe-carb or clay mineral. Py as disseminations, discordant QTZSULPH veins, local semi-massive bands. Minor cp forms as blebs with py and in QTZSULPH veins.															
			cq	Pale yellow green to green, mg, wk y altered and wk-mod foliated tonalite. Similar to 1010-1044ft, excepted finger grained with less qtz eyes. Modal abundance of 60% plag, 25% qtz, 15% mafics. Local patches of cq alteration +/- ser, start below 1065.8ft, in association with CHLSULPH veinlets and sulphide (py) stringers.															
			y	Green to pale yellow green, mg-cg, mod cq and wk y altered and wk-mod foliated SOEP and tonalite. Similar to above from 1053.5-1080ft but dominated by mineralized patches of cq alteration, up to 30cm, overprinting wk y alteration. Local patches of mineralized qsc alteration up to 30cm. Very local thin patches of pink possible hem alteration up to 5cm.															
			cq	White to pale green, mg, wk y and cq altered and locally foliated tonalite. Interval is weakly altered but veined with irregular ep veinlets at variable angle tca and irregular chl veinlets at variable angle tca. Local thin ep patches with diffuse margins and some with wk qtz chl halos. Chl fracture fill veinlets cut ep.															
			y	light grey and pale to dark green, mg-cg, mod-str cq dominant qsc altered and foliated tonalite and OEP. The contact between the tonalite and OEP is lost in qtz vein and strong alteration. Pervasive cq dominant alteration with sections of qsc alteration highlighting 3-10cm white to bluish qtz eyes. Plag crystals are not longer visible. Local ep veinlets and patches forming along foliation. Mineralization forms within the chl rich or qtz-ser rich patches.															
			q	White to grey and green, cg, wk-mod q altered and mod foliated OEP. Local ep veinlets is discordant to main foliation. Qtz alteration increases downhole to moderate. Foliation at variable angle tca locally crenulated and deflected and folded around QTZCHL veins. 1-5 mm, euhedral laths of plag becoming wispy in sections of mod-str fol. 2-8mm, white to bluish, qtz eyes and 2-8mm chl clots becoming wispy and elongate along foliation. Modal abundance of 45% plag, 40% qtz, 15% mafics.															
1250			qsc	Pale grey to dark green, cg, mod-str qsc and foliated OEP. Similar to above with sections of chl-ser alteration. Patchy to pervasive qtz dominant qsc alteration. Mod-str foliation with chl +/- ser folia wrapping around qtz eyes.															
			qsp	Grey, str qsp altered and foliated OEP. Qtz dominant pervasive qsp with ser forming along foliation and local wispy biege fe-carb or clay altered plag crystals. Foliation is locally variable deflected by thick qtz veins, but dominantly at mod angle tca. Py dominant as dissem. patches and clear QTZSULPH veins.															1723.88
			q	Light to dark grey and less green, mg-cg, wk-mod q alteration and foliated OEP. Similar to 1182.2-1331.5ft except with sections of wk ep altered plag and ep veins starting below 1256ft. Chl alteration starts to increases down holes as local veins and thin patches along foliation.															
			qsc	White to grey, mg-cg, wk-str variable qsc altered and foliated tonalite. Interval is variably altered and dominated by pervasive wk-str qtz with local patches of cq to qsc alteration typically in association with strong foliation. Local wk ep alteration of plag and along foliation. Cut by irregular and locally sheared, thick late QTZCHL veins. From 1305.5-1310ft str qsp alt progressing in to strong qsc alt downhole with str fol development decreasing to mod towards margins.															
			qsc	Grey, str qsp altered and foliated OEP, similar to 1240.4-1248.5ft with less biege alt patches and wisps of fe-carb or clay.															
			y	Pale yellow green to pink, mg-cg, wk y, h, and a altered OEP. Interval is massive to very weakly foliated with a local shear up to 10cm. Alteration is very weak with ep veinlets and altering plag, sometimes overprinted by weak pink hem alteration. Local hem along fractures. Pervasive to patchy, qtz alteration as local patches which may indistinguishable from qtz eyes. Modal abundance 50% plag, 30% qtz, 20% mafics. 2-10mm, subrounded to eye shaped qtz and 1-5mm, euhedral laths of plag.															
			qsc	Grey white, str oqp altered and foliated tonalite, similar to 1240.4-1248.5ft with patches of semi-massive py notable from 1339-1341.8ft. Texturally destructive with remnant stretched qtz eyes. Less wispy fe-carb or clay alt.															
			k	White to grey green, mg-cg, mod-str patchy qsc altered and mod-str foliated OEP. The patchy qtz dominant qsc alteration is locally overprints by mod clay carb alteration in association with faulting discordant to main foliation. Mod str foliation development at low to high angle tca.															
			qs	White to grey, lg-cg, mod-str patchy qs altered, faulted and sheared OEP cut by leucocratic dykes. Pervasive wk-mod qtz alteration with patches of strong qs and local qsc alteration in association with mineralized veining and mod-str foliation. Local ep altering plag and veinlets. Fine patches of biege to tan coloured soft fe-carb or clay alt. 3-10mm, white to bluish qtz eyes. Modal abundance 60% plag, 25% qtz, 15% mafics. The leucocratic dykes are cut by abundant fine chl fracture fill veinlets and less ep veins.															
1500			q	White to green, cg, mod q and wk y altered OEP cut by two green aphanitic intermediate to mafic dykes. Similar to 1248.5-1291ft.															1476.31
			qs	Light to dark grey, mg-cg, mod-str qs to oqp altered and mod-str foliated OEP. Similar to 1354.5-1500ft.															
			y	Pale yellow green, cg, wk-mod y altered and wk foliated OEP. Wk-mod ep alt of plag and local veinlets. Wk patchy qtz alteration typically in association with veining. 4-10mm white to bluish qtz eye and 2-6mm euhedral plag laths, locally zoned. Modal abundance of 50% plag, 35% qtz, and 15% mafics.															
			qsc	Grey to dark green, str qsc altered and foliated OEP. Interval is str foliated with local crenulation cleavage and deflected by abundant thick QTZCHL veins. Mineralization of py and cp form as stringers, chl and qtz veins discordant to foliation.															
			q	White to pale yellow green, wk-mod patchy q altered and wk foliated OEP. Similar to 1553.5-1580.4ft with patchy to pervasive qtz dominant flooding and weaker ep alteration of plag crystals. Interval is locally foliated with stretched plag. Modal abundance of 50% plag, 40% qtz, and 10% mafics. Local healed faulted shear zone with strong ser, clay, and carb (+-fe) from 1657-1660ft.															
			y																

Scale 1:3106

03/07/17

07:42:50

DDH LOC AZ: 230

DDH LOC DIP: -80

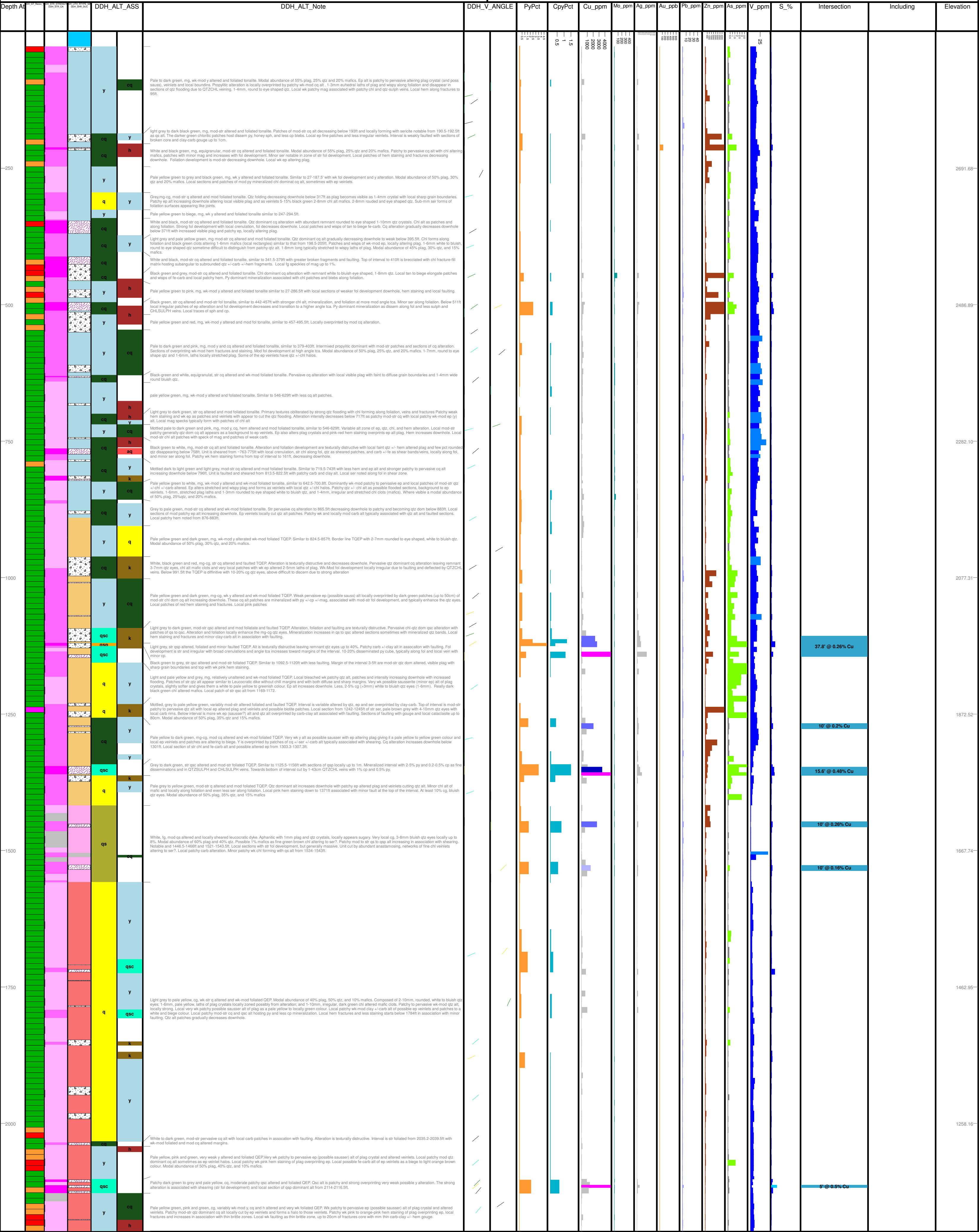
Depth At	DDH	ALT	ASS	DDH_ALT_Ass	DDH_V_ANGLE	PyPct	CpyPct	Cu_ppm	Mo_ppm	Ag_ppm	Au_ppb	Pb_ppm	Zn_ppm	As_ppm	V_ppm	S_%	Intersection	Including	Elevation		
-250				y	cq															2763.90	
				cq																	
				y																	
				cq																	
				cq	y																
				cq																	
				cq																	
				qsc																	
				q																	
				y	qs																
-500				qsc																2517.70	
				cq	y																
				qs	y																
				cq	y																
				cq																	
				h	k																
				y	q																
				k	h																
				qsc																	
				qs																	
-750				cq																2271.50	
				cq																	
				qsp																	
				qsp	cq																
				qsp																	
				y																	
				q	y																
				y	cq																
				cq																	
				y																	
-1000				y																2025.30	
				cq	y																
				cq																	
				y																	
				qsc	y																
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-1250				cq																1779.10	
				cq																	
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				cq																	
				q																	
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				y																	
				q																	
				qsp																	
-1500				q	y															1532.89	
				qsc																	
				q	y																
				y																	
				q																	
				qsc																	
				y																	
				q																	
				y																	
				q	y																
-1750				q	y															1286.69	
				y																	
				q																	
				y																	
				q																	
				y																	
				q																	
				y																	
				q																	
				y																	

[illegible]

Hole Name: 2016-E05

DDH_LOC_AZ: 60

DDH_LOC_DIP: -55



Scale 1:4103

03/07/17

07:43:33

DDH_LOC_AZ: 105				DDH_LOC_DIP: -55																
Depth Alt	DDH_ALT_ASS	DDH_ALT_Note	DDH_V_ANGLE	PyPct	CpyPct	Cu_ppm	Mo_ppm	Ag_ppm	Au_ppb	Pb_ppm	Zn_ppm	As_ppm	V_ppm	S_%	Intersection	Including	Elevation			
-250	y	Wk to mod propylitic-altered tonalite. Lt green-grey to lt grey, mg, mod foliated. Plag weakly to mod altered to pale yellow-green ep, mafics altered to chl. Few discrete shear zones, few fractures with ~1 cm gouge. Grains subrounded (qtz) to elongated along fol (plagiop, chl), chl often wispy interstitial ~ 1 mm wide. Tonalite is 55% plag, 25% qtz, 20% mafics. Trace py in chl. Few QTZCHL veins/veinlets.															2757.28			
	cs	Weak to moderate pervasively cq altered tonalite. Medium grey, mg, mod foliated. Moderately faulted, one wide (~2') brittle shear zone containing mineralization.																		
	qsc	Mod pervasive qsc altered tonalite. Mg, light grey, mod fol, few zones of cren. Trace magnetite, fg to mg, blebs and stringers. Trace py in chl fol/patches. Vog QTZCHL veins with trace magnetite, trace py. Intervals of chl alt to ser. Faulting from 194-213, and interval of cataclaste from 207-208.5.																		
	cs	Medium grey, fg to mg, mod to strong cq altered tonalite. Mod-strong fol. Trace py in chl fol. Gradual transition of above alt to cq alt.																		
	qsc	Light grey, mg, weak-mod fol, mod-strong qsc altered tonalite. 0.2% py, mg to cg, blebs in chl, often cubic. No veining.																		
	y	Pale grey-green, mg, weak-mod y altered tonalite. Weakly foliated. No visible sulphides. Low density ep veinlets. One hem carb veinlet.																		
	qs	Light to med grey, fg to mg, mod-strong qs altered tonalite. Minor magnetite, dissemin mg and stringers. Med-strong fol, multiple zones of cren/ductile shear from 264-270.5' and 277-286.5'. Core frag broken along fol. Few fractures with 3-5 cm mixed rubble and clay-carb gouge.																		
	qs																			
	cq	Pale green to med grey, mg, weak to mod cq altered tonalite (originally 60% plag, 25% qtz, 15% mafics). Mafics mostly alt to chl. Weak-mod fol. Trace to minor fg to mg py blebs in chl. Minor cb, patchy and in veinlets (frac fill, often weak to mod hematized). Zones of weak-mod faulting with narrow gouge sections. Zones of minor patchy secondary ep alt of plag.																		
	y																			
-500	y	Pale to med green, fg to mg, mod y-alt tonalite (55% plag, 25% qtz, 20% mafics). Mafics strongly alt to chl, plag mod altered to ep (white to pale yellow-green). Mod foliated, fol mostly defined by chlepp. Intervals of patchy cq alt. Fractures often infill of hem cb, with weak pervasive hem halo into rock. Pervasive minor cb. Rare patchy secondary ep.															2552.49			
	qsc																			
	cq	Pale green to med grey, mg tonalite. Mod cq alteration overprinting y-alt. Mod fol, local vuggy areas. Trace fg py, dissemin in chl and occasionally mg in vugs. Rare ep veinlets, patchy secondary ep. Rare weak pink hem of plag around fracs.																		
	y																			
	cq	Medium grey, mg to cq, cq altered tonalite. Minor vuggy sections. Weak to mod fol, minor banding of chl, local cren. Brittle fault zone from 633'-652', with qc alt and patches of weak pervasive hem. Frequent ep veinlets, sometimes altered to clay. Patchy pale green secondary ep alt. Patchy magnetite, patchy cb throughout. Trace fg-mg py, in blebs in chl patches/veinlets or in vugs. Patchy trace-minor purple-red hematite (up to 5%) typically fg in blebs or stringers, occasional weak hem of plag.																		
	y																			
	qsc	Pale green to med grey, fg to mg, y altered tonalite. Mod foliated, few chl rich dark cq bands. Minor (<0.1%) py in blebs in chl veinlets/bands. Plag weak to mod altered to ep, mafics strongly alt to chl. Rare patchy secondary ep. Very minor patchy pervasive cb. From 825' to 869.5', discrete qsc shear zones 5-40 cm wide host most mineralization.																		
	cq	Light to medium grey, mg, cq alt tonalite. Patchy sericite. Cq alt appears to overprint y alt in most of interval. Weak to mod fol. Frequent discrete shear zones with qsc alt and mineralization.																		
	y	Pale green to med grey, fg to mg, mod y altered tonalite. Mod foliated, few narrow chl-rich dark cq bands. Minor (<0.1%) py in blebs in chl veinlets/bands. Plag weak to mod altered to ep, mafics strongly alt to chl. Rare patchy secondary ep. Very minor patchy cb, mod amount of cb veinlets < 1 mm wide. Discrete qsc shear zones 3-15 cm wide host most mineralization.																		
	cq	Light green-grey to med grey, mg to cq, weak to mod fol, mod cq alt tonalite, 50% plag, 30% qtz, 20% mafics. Cq alt overprints y-alt in most of interval - few small sections with no remnant y-alt. Discrete shear zones 10-40 cm with qsc or cq alt. Starting at 972 ft, intervals up to 7 feet of TOEP (blue-white qtz eyes 1-5 mm wide) interfingering with tonalite.																		
-750	y	Leucocratic dyke - no apparent alteration - late stage(?) White to light grey leucocratic dyke - white plag phenocrysts (up to 2 mm) in siliceous groundmass. Mod to intensely cross-cut by chl (+/- cb) veinlets. Some ep veinlets, minor patchy secondary ep.																2347.70		
	qsc	Pale green to med grey, weak to mod foliated, weakly y and cq altered TOEP. Qtz eyes blue-white, 1-8 mm wide, subrounded (weakly elongated w fol), make up 5-10% of rock. Few narrow leucocratic dykes (up to 15 cm wide). Plag overall weakly alt to ep, mafics strong alt to chl. Minor pervasive cb, minor patchy secondary ep. Very minor py, in chl patches/veinlets.																		
	cq	Med blue-grey, mg-cq, mod fol, mod qsc alt OEP. Overprints previous y-alt - minor to mod remnant chl throughout, few intervals where ep-alt plag and minor pervasive cb is still present up to ~20 cm wide. Approx 1.5% dissemin blebbly fg py, ~ 0.5% blebbly and veined fg cp.																		
	y	Pale green to med grey, mg to cq, weak to mod fol OEP. Weak y alt (plag weak alt to ep, mafics alt to chl), ~50% plag/ep, ~20% chl, ~30% qtz. Blue-white subround qtz eyes 1-6 mm wide. Trace fg py as blebs in chl.																		
	qsc	Light to med grey, mg-cq, mod fol qs altered OEP. Minor (~0.5%) py dissemin and in QTZSULPH veins, cp in QTZSER and QTZSULPH veins. Qtz eyes blue-white, subrounded, 1-5 mm wide. Light grey patches of weaker ser alt (qtz dominant alt) with minor cb.																		
	y	Pale pink grey, mg to cq, weakly fol q alt OEP. Overprinted y-alt - rare chl patches, rare remnant weakly ep-alt plag grains. Minor pervasive cb. No visible sulphides.																		
	qsc	Light blue-grey, med to strong fol, cip alt sheared OEP. Most of interval has approx 40% blue-white qtz eyes 1-7 mm weakly elongated with fol, stronger sheared areas show qtz wisps (very elongated to barely defined). Py in qtz bands and dissemin in interstitial ser, few blebs.																		
	y	Light grey to pale pink-grey, mg to cq, weakly fol q alt OEP. Overprinted y-alt - rare chl patches, rare remnant weakly ep-alt plag grains. Minor pervasive cb. No visible sulphides. Few discrete shear zones with cip alt.																		
	cq	Light blue-grey, med to strong fol, cip alt sheared OEP. Most of interval has approx 40% blue-white qtz eyes 1-7 mm weakly elongated with fol, stronger sheared areas show qtz wisps (very elongated to barely defined). Py in qtz bands and dissemin in interstitial ser, few blebs. Few narrow gouge zones up to 7 cm wide. Local cren.																		
	y	Light to med grey, mg, q to qsc alt OEP. Shear zones frequent, up to 50 cm wide, have more abundant ser, chl. Qs alt appears to overprint weak y alt. Weakly fol, strong fol in shear zones. Py in veins, dissemin and blebbly in discrete shear zones. Patchy minor cb. Cp in QTZSULPH veins, rarely semimassive.																		
-1000	y	Pale to med green-grey, mg, pervasive weak y alt OEP. Plag weakly altered to ep, ep veinlets, mafics mod alt to chl (some chl alt to ser). Approx 30% qtz (blue-grey qtz eyes, subrounded, elongated with strong fol), 50% plag, 20% mafics. Patchy minor cb. Few narrow clay-cb gouge intervals (up to 5 cm). Weak to mod fol. Narrow discrete qsc and cip shear zones, hosting minor mineralization down to 1337. Rare narrow bands of silicification to white-light grey up to 20 cm wide.															2142.91			
	q	Light to med blue-grey, fg to mg, qsp alt OEP. Mod to strong fol, few local zones of mod cren. Approx 30% qtz eyes 1-5 mm wide, elongated with fol to wispy in strong fol/oren zones. Py dissemin in ser wrapping around qtz grains to blebby/semimassive, locally up to 60%. Few cp blebs in py. Patchy minor pervasive cb. Mod QTZSULPH veinlets, rare wide QTZSER/SULPH veins. Few narrow intervals of gouge, one 15 cm interval (at 1444'). Few narrow discrete patches of qc alt.																		
	qsc	Light grey mg-cq q alt OEP. Mod q alt overprints weak y alt. Weak fol. Trace fg py in blebs in chl patches/veinlets. 60% plag (silicified, some weak alt to ep), 30% qtz eyes (blue-grey, subround, 1-8 mm wide), 10% mafics alt to chl. Weak to strong ep veining, weak to mod alt to beige clay. Weak to strong cb-healed and chl-healed fracs. Minor patchy pervasive cb. One qp shear with py from 1469-1470.3'. Partially healed brittle fault zone with patchy pervasive hem alt from 1489-1501, small zone of weak clay alt and 5 cm of clay-cb gouge.																		
	y	Light grey mg-cq q alt OEP. Mod q alt overprints weak y alt. Weak fol. Trace fg py in blebs in chl patches/veinlets. 60% plag (silicified, some weak alt to ep), 30% qtz eyes (blue-grey, subround, 1-8 mm wide), 10% mafics alt to chl. Weak to strong ep veining, weak to mod alt to beige clay. Weak to strong cb-healed and chl-healed fracs. Minor patchy pervasive cb. One qp shear with py from 1469-1470.3'. Partially healed brittle fault zone with patchy pervasive hem alt from 1489-1501, small zone of weak clay alt and 5 cm of clay-cb gouge.																		
	qs	Light to med grey, fg-mg, mod qs alt OEP. Patches of strong q alt. Local discrete sheared intervals of strong qsp-qtz alt, containing dissemin py and QTZSULPH veinlets (py +/- cp). Few narrow fault zones with rubble and/or gouges. Mod fractured and cb-healed, minor patchy weak pervasive cb. Local leucocratic dykes up to 30 cm wide.																		
	qsp	Med grey, fg-mg qsp alt OEP. Bands/patches of lighter grey due to stronger q alt, often with minor patchy cb. Fractures and microveinlets with cb fill. Weak to mod fol. Approx 10% blue-grey qtz eyes, 1-12 mm wide, subround to elongated with fol. 2% py, 0.2% cp, dissemin and in blebs and QTZSULPH veinlets. Few discrete strongly sheared bands, with ser +/- py wrapping around qtz eyes.																		
	q	Light grey, fg to mg, mod q alt OEP. Q alt overprints weak y-alt. Approx 25% blue-grey qtz eyes (2-10 mm wide), subround to elongated with fol. Weak fol. Minor (<0.5%) fg py in blebs and QTZSULPH veinlets.																		
	qs	Light grey, fg-mg, mod qp alt OEP. Approx 30% blue-grey qtz eyes (1-10 mm wide), subround to elongated with fol. Groundmass is silicified plag, ser, and minor chl. Bands/patches of med grey, sheared, mod qsp alt make up about 30% of interval, with dissemin to blebby py, blebbly cp, and QTZSULPH veinlets.																		
	y	Light grey, mg, q alt OEP. Q alt overprints weak y alt. Approx 35% blue-grey qtz eyes 1-10 mm wide, subrounded to weakly elongated with fol, in silicified groundmass. Weak fol. Approx 0.1% py overall primarily in QTZSULPH veinlets/veins. Narrow discrete shear zones. Mod ep veinlets near end of interval. Minor pervasive cb.																		
	q	Light to med grey, mod qs alt OEP. Approx 50% blue-grey qtz eyes, elongated with fol. 40% ser, 5% py, minor clay, cb, chl. Mod fol, local crenulation/folding. Mod sheared, weak brittle fracturing with minor clay +/- cb gouge and intervals of cataclaste up to 30 cm wide. Py fg, dissemin, blebbly, and blebby to semimassive in veins. Minor cb, patchy and in microveinlets.																		
-1250	qsp																			
	y	Pale green to pale yellow-orange, mg, y-alt OEP with patchy iron carb overprint. Approx 50% plag with weak ep/fe-cb alt, 35% blue-grey qtz eyes (1-10 mm wide, subrounded to elongated with fol), 15% mafics alt to chl. Weak fol, few discrete shear zones with mod fol. Mod ep and Fe-cb veinlets, few Qtz +/- CHL, SULPH veins. Mod cb +/- chl frac fill. Two dark green mafic dykes with amygdaloes of cb from 1863-1864.9' and from 1866.5-1867.6'.																		
	aq																			
-1500																				
-1750																				

[illegible]

DDH_LOC_AZ: 310

DDH_LOC_DIP: -80

[illegible]

