



**BUREAU
VERITAS**

Bureau Veritas Minerals Pty Ltd
MINERAL TESTING & LABORATORY SERVICES

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Reference: **aa035274**
Date Finished: 28/05/2018
Order: None Supplied
Project:
Date Received: 01/05/2018
Type of Sample: RAB\RC
Samples Analysed: **116**

FINAL ANALYSIS REPORT

Analysis of Mineral Samples

for

BMEx Pty Ltd

PO Box 2192 Toowong QLD 4066

Attention: Mr Rob Sowerby

Authorised By:

Vaughn Noble
Senior Chemist

Christopher Abbott
Senior Chemist

Jenet Hwende
Technical Quality
Manager



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Method	MA102	MA102	MA102	MA102	MA102	MA102	MA102	MA102	FA001
Result Name	Ag	Co	Cu	Dy	Nd	Pb	Zn	Au	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	1	1	0.05	0.05	1	2	0.01	
BLANK 1	<0.1	<1	<1	<0.05	0.10	<1	<2	<0.01	
1	0.1	3	120	1.10	12.9	31	16	NR	
2	<0.1	3	44	1.10	9.45	9	26	NR	
3	0.2	440	184	7.60	34.0	190	722	NR	
Std Nominal	6.0	43	1520			521	5190	0.38	
Determined	6.0	44	1520	2.80	11.0	493	4900	0.37	
4	0.1	126	77	5.75	32.3	24	200	NR	
5	0.2	2800	1110	32.3	15.9	7	4070	NR	
6	0.8	1310	769	150	78.4	21	816	NR	
7	Sample Not Received								
8	0.9	1.05%	1320	90.3	100	17	3920	NR	
9	Sample Not Received								
10	Sample Not Received								
11	0.1	4150	838	119	163	14	1560	NR	
12	Sample Not Received								
13	Sample Not Received								
14	Sample Not Received								
15	Sample Not Received								
16	Sample Not Received								
17	0.4	2500	847	103	258	83	1040	NR	
Std Nominal	4.0	728	2.53%	2.95	29.5	44	56	1.28	
Determined	4.0	713	2.53%	2.95	29.5	46	60	1.29	
18	0.2	1840	680	111	391	16	906	NR	
19	0.2	2480	826	117	290	38	1190	NR	
20	0.2	2220	803	100	277	56	1140	NR	
21	0.2	2350	781	75.3	194	69	1270	NR	
22	0.1	2020	647	65.2	162	60	1110	NR	
23	0.2	2270	719	77.4	166	143	1220	NR	
24	0.1	2700	770	94.1	122	87	1310	NR	
25	0.2	2930	941	87.6	129	143	1430	NR	
26	0.1	3490	899	82.3	120	31	1160	NR	
27	0.1	2450	735	57.3	109	101	1090	NR	
28	0.2	3760	1070	76.4	180	57	2300	NR	
28 Rpt	0.2	3750	1070	75.0	177	56	2270	NR	
29	0.4	4040	1280	71.6	168	122	2520	NR	
30	0.2	3820	1240	75.5	209	189	2200	NR	
31	0.4	4880	1400	83.5	208	51	1870	NR	
32	0.4	5050	1470	82.4	201	54	1990	NR	
33	0.4	4900	1350	83.4	212	61	1990	NR	



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Method	MA102	MA102	MA102	MA102	MA102	MA102	MA102	FA001
Result Name	Ag	Co	Cu	Dy	Nd	Pb	Zn	Au
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	1	1	0.05	0.05	1	2	0.01
34	0.5	3990	1050	67.2	169	79	1790	NR
35	0.1	2610	535	16.5	14.9	26	1540	NR
36	0.2	1830	1160	20.9	39.4	82	1460	NR
37	0.2	2060	911	20.5	37.0	222	1740	NR
38	<0.1	1040	364	9.95	17.4	51	720	NR
39	0.1	2040	523	16.2	21.8	59	1380	NR
40	0.2	1940	535	26.5	33.5	54	1750	NR
41	0.1	1940	601	29.2	31.5	19	1530	NR
42	0.1	2470	696	33.7	31.6	26	1970	NR
43	0.2	2470	907	14.3	28.1	130	2410	NR
44	0.2	2880	903	15.9	32.0	164	2810	NR
45	0.2	3250	1090	20.9	39.7	280	3320	NR
46	0.2	3580	968	20.0	26.1	880	2560	NR
47	0.2	2950	729	24.3	27.1	1420	1970	NR
48	0.2	2050	456	28.8	25.8	74	1370	NR
49	0.1	2140	469	25.1	28.0	57	1620	NR
50	0.2	935	410	16.9	23.3	48	804	NR
51	0.8	1290	678	40.2	61.1	26	1290	NR
52	0.8	2050	846	29.6	24.2	13	1690	NR
53	0.5	2620	451	15.6	5.95	16	3920	NR
54	<0.1	24	15	2.45	10.6	16	48	NR
55	0.6	530	97	52.1	64.1	96	2160	NR
56	0.1	1240	224	4.95	16.8	152	2820	NR
57	0.7	2110	326	69.8	173	264	2820	NR
58	0.7	2590	516	9.85	21.2	73	4060	NR
Std Nominal	49.2	5	1010	2.70	27.0	329	1330	4.02
Determined	49.2	6	987	2.70	27.0	331	1300	4.06
59	0.5	4320	714	2.60	11.2	192	6750	NR
60	0.2	2960	190	4.55	25.7	18	3210	NR
61	0.1	1010	49	2.65	16.9	8	1280	NR
62	<0.1	181	65	9.25	41.0	61	1230	NR
63	<0.1	1000	170	6.25	18.3	24	3190	NR
64	2.3	443	240	20.8	29.1	222	1540	NR
65	<0.1	25	63	4.20	21.1	51	326	NR
66	0.1	40	45	2.10	8.50	26	326	NR
67	<0.1	69	49	3.05	9.80	29	342	NR
68	0.1	5	62	1.15	5.25	8	50	NR
69	0.1	44	51	2.55	6.85	27	238	NR
70	<0.1	130	92	3.55	6.65	13	336	NR
71	0.2	136	19	2.30	5.65	4	178	NR
72	0.2	129	16	2.95	11.4	3	262	NR



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Method	MA102	MA102	MA102	MA102	MA102	MA102	MA102	FA001
Result Name	Ag	Co	Cu	Dy	Nd	Pb	Zn	Au
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	1	1	0.05	0.05	1	2	0.01
73	0.2	79	30	5.25	11.8	19	296	NR
74	<0.1	9	37	1.35	5.30	3	40	NR
Std Nominal	0.4	160	120			39	264	0.38
Determined	0.2	160	120	5.45	24.8	39	270	NR
75	<0.1	64	82	2.75	7.25	15	226	<0.01
75 Rpt	<0.1	64	82	2.80	7.10	15	220	<0.01
76	<0.1	4	35	2.25	16.9	13	22	NR
77	<0.1	123	308	4.10	14.3	22	3680	NR
78	<0.1	113	293	4.50	14.0	14	2170	NR
79	<0.1	199	177	2.85	7.65	5	3580	NR
80	<0.1	99	166	4.20	14.0	13	2330	NR
81	<0.1	72	257	2.95	10.1	17	3010	NR
82	<0.1	116	198	13.0	24.8	19	1210	NR
83	<0.1	106	66	8.45	13.8	69	480	NR
84	<0.1	18	9	2.85	7.10	4	76	NR
85	<0.1	327	846	8.30	21.1	22	3570	NR
86	<0.1	213	182	4.85	3.40	5	1150	NR
87	0.1	114	225	5.50	8.20	15	976	NR
88	0.4	279	65	6.95	18.5	232	1440	NR
89	0.1	31	25	0.90	2.40	20	228	NR
90	<0.1	1450	343	13.6	42.4	41	7310	NR
BLANK 2	<0.1	3	<1	<0.05	0.10	<1	<2	NR
91	<0.1	1100	203	4.50	11.5	31	2450	NR
92	0.2	742	218	3.20	5.75	42	4470	NR
93	<0.1	1070	382	14.6	48.1	18	6320	NR
94	<0.1	156	36	17.5	28.8	26	792	NR
95	<0.1	442	319	24.7	57.2	27	3080	NR
96	<0.1	758	458	27.9	61.2	120	3420	NR
97	<0.1	415	32	8.95	30.9	45	1140	NR
98	<0.1	401	14	7.75	25.3	29	1010	NR
99	<0.1	222	126	8.25	16.3	22	988	NR
100	<0.1	610	197	18.4	36.2	108	3880	NR
Std Nominal	6.0	43	1520			521	5190	1.28
Determined	6.0	44	1460	2.95	10.7	485	5190	NR
101	<0.1	271	58	4.90	7.85	80	1270	NR
102	<0.1	1250	47	6.40	11.1	73	1420	NR
103	<0.1	22	21	1.40	1.55	3	124	NR
104	<0.1	66	30	2.75	4.75	11	402	NR
104 Rpt	<0.1	64	29	2.70	4.55	11	384	NR
105	<0.1	38	43	9.45	1.45	4	228	NR
106	<0.1	163	42	4.60	13.9	57	1910	NR



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Method	MA102	MA102	MA102	MA102	MA102	MA102	MA102	FA001
Result Name	Ag	Co	Cu	Dy	Nd	Pb	Zn	Au
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	1	1	0.05	0.05	1	2	0.01
107	<0.1	24	79	2.55	3.80	8	430	NR
108	<0.1	48	49	1.20	2.10	2	216	NR
109	0.1	189	39	2.90	9.85	9	1310	NR
110	<0.1	35	22	1.45	3.00	5	210	NR
Std Nominal	4.0	728	2.53%	2.95	29.5	44	56	4.02
Determined	4.0	714	2.64%	2.95	29.5	47	60	NR
111	<0.1	439	385	14.5	8.85	29	3430	NR
112	<0.1	135	95	3.40	3.40	4	2240	NR
113	<0.1	101	82	7.65	5.35	9	1650	NR
114	<0.1	1390	28	9.25	32.2	5	4460	NR
115	<0.1	392	45	3.50	8.15	13	4270	NR
116	0.1	1020	160	55.9	4.05	40	2420	NR
117	0.2	238	235	7.10	5.75	454	2160	NR
118	0.3	486	206	8.45	10.1	505	1460	NR
119	0.1	2280	355	21.0	11.5	512	4430	NR
120	0.1	1700	110	9.35	8.35	16	4560	NR
121	<0.1	909	112	23.7	55.2	33	3130	NR
122	0.5	133	230	3.30	11.0	323	3110	NR
123	0.5	186	214	2.50	8.80	39	1540	NR
124	<0.1	54	114	0.95	3.40	26	1810	NR



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These results pertain to the samples as received at this laboratory.
Where standards are reported, the nominal value for the element is reported above the result found.

"NR" Implies result is not required for this determination

"%" Implies this result reported in %

Sample Storage

The excess material (Residue) will be held after 30 days
The pulp samples (Pulp) will be held after 60 days as per instructions.

Sample Preparation

Digest and Analysis:

The sample(s) have been digested and refluxed with a mixture of Acids, including: Hydrofluoric, Nitric, Hydrochloric and Perchloric Acids. This extended digest approaches a total digest for many elements however, some refractory minerals are not completely attacked.

Ag,Co,Cu,Dy,Nd,Pb,Zn
have been determined by Inductively Coupled Plasma (ICP) Mass Spectrometry.

The samples have been analysed by Firing a 40 gm (approx) portion of the sample.Lower sample weights may be employed for samples with very high sulphide and metal contents.This is the classical fire assay process and will give total separation of Gold, Platinum and Palladium in the sample.

Au
have been determined by Atomic Absorbtion Spectrometry.

Comments:

Al, Ba Ca, Fe, Mn and P to follow by XRF fused bead